

GRAYTON BEACH TRANSIT FACILITY

WALTON COUNTY, FLORIDA

TAX ID: 08-3S-19-25000-004-0030

PROJECT # MIN22-000057

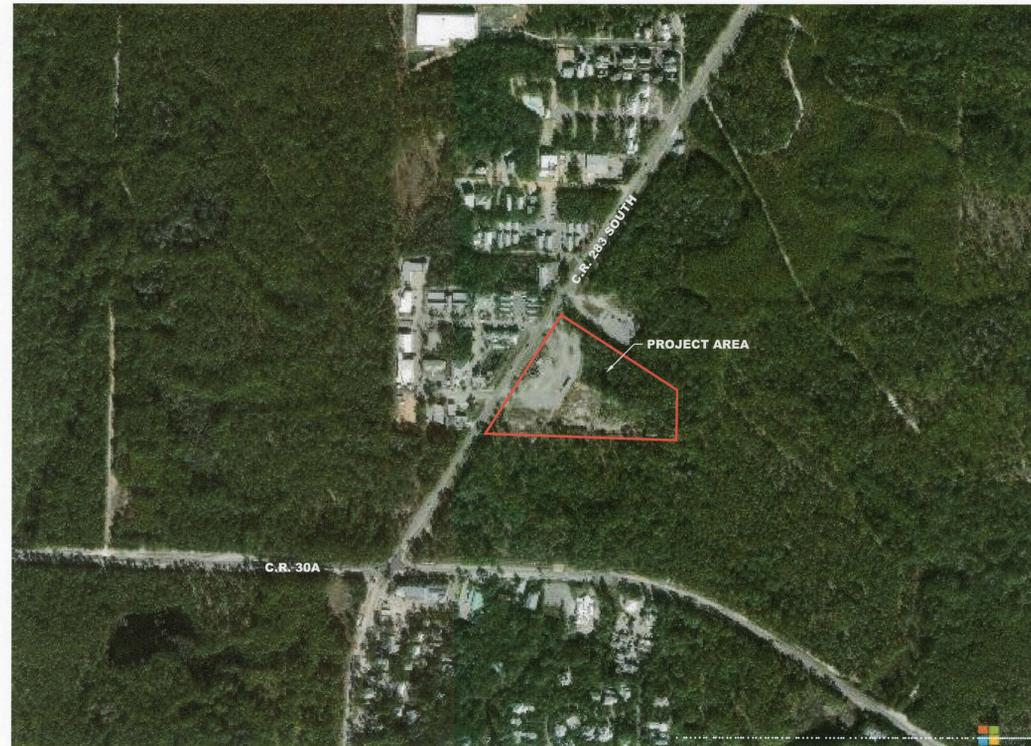
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STRUCTURAL PLANS BY APEX ENGINEERING GROUP, DATED 3-29-2023 PART OF THIS PROJECT, UNDER SEPARATE COVER. SEE SHEETS S-001, S-50, S-502

LANDSCAPE PLANS BY THE PATRICK HODGES LAND STUDIO, DATED 3-30-2023 PART OF THIS PROJECT, UNDER SEPARATE COVER. SEE SHEETS L-1, L-2, L-3, L-4.

SITE LIGHTING PLANS BY HG ENGINEERS, DATED 3-29-2023 PART OF THIS PROJECT, UNDER SEPARATE COVER. SEE SHEETS E001, E101, EP101.

ARCHITECTURAL PLANS BY RUSSELL JOHNSON, DATED 03-17-2023 PART OF THIS PROJECT, UNDER SEPARATE COVER.



VICINITY MAP

SCALE: 1" = 400'

DUTY TO INDEMNIFY

THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS THE OWNER AND ENGINEER AND THEIR RESPECTIVE MEMBERS, REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO THE PERFORMANCE OF THE WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF FLORIDA AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OR CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

WALTON COUNTY BOARD OF COUNTY COMMISSIONERS

- | | |
|---|--|
| BRIAN KELLENBERGER
PROJECT MANAGER | TREY NICK
DISTRICT 4 COMMISSIONER |
| WILLIAM "BOOTS" McCORMICK
DISTRICT 1 COMMISSIONER | TONY ANDERSON
DISTRICT 5 COMMISSIONER |
| DANNY GLIDEWELL - VICE CHAIR
DISTRICT 2 COMMISSIONER | TONY CORNMAN
INTERIM COUNTY ADMINISTRATOR |
| MICHAEL BARKER
DISTRICT 3 COMMISSIONER - CHAIRMAN | |

PROPOSED USE OF SITE

MUNICIPAL PARKING LOT WITH PUBLIC TRANSIT AND RESTROOM FACILITY

UTILITIES INFORMATION

- | | | |
|---|--|--|
| (ELECTRIC)
CHELCO
MATTHEW AVERY
PHONE: (850) 307-1190 | (CABLE)
MEDIACOM
EDDIE ARNOLD
PHONE: (850) 934-2560 | (FIBER)
UNITI FIBER LLC
JOHN HALLEY
PHONE: (251) 753-8695 |
| (FIBER, TELEPHONE)
CENTURYLINK
BILL MC CLOUD
PHONE: (850) 599-1444 | (GAS)
OKALOOSA GAS DISTRICT
PHONE: (850) 729-4700 | (WATER/SEWER)
REGIONAL UTILITIES
RYAN DOUGLAS
PHONE: (850) 231-5114 |

CLIENT INFORMATION

WALTON COUNTY BOARD OF COUNTY COMMISSIONERS
76 N 6TH STREET
DEFUNIAK SPRINGS, FL 32433
PHONE (850) 892-8155
www.co.walton.fl.us

GOVERNING STANDARDS:

ALL CONSTRUCTION SHALL CONFORM TO REGIONAL UTILITIES STANDARD SPECIFICATIONS AND/OR FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND THE FDOT DESIGN STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND ALL ADA STATE & FEDERAL REQUIREMENTS UNLESS OTHERWISE SHOWN OR NOTED IN THESE PLANS.

DRMP, INC.
1625 SUMMIT LAKE DRIVE SUITE 200
Tallahassee, FL 32317
Phone: (850) 562-9600 Fax: (850) 575-5544
Certificate of Authorization No. 2648
BENJAMIN R. LENNON, P.E.
LICENSE NO. 78674

CALL 48 HOURS BEFORE YOU DIG

811

IT'S THE LAW!
DIAL 811

Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

REVISIONS	NO.	DATE	DESCRIPTION	BY
DESIGNED BY	RAJ			
DRAWN BY	RAJ			
CHECKED BY	MTZ			
APPROVED BY	BRL			
COVER SHEET				
CONSTRUCTION PLANS FOR GRAYTON BEACH TRANSIT FACILITY COUNTY HIGHWAY 283 SOUTH SANTA ROSA BEACH 32459				
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE				
 DRMP, INC. ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2648 1625 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 Phone: 850.562.9600 www.drmp.com				
PROJECT NO: 19-0328.004				
SCALE: AS SHOWN				
DATE: JUNE 2023				
DRAWING: G100				

GENERAL NOTES

- 1. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH REGIONAL UTILITIES AND/OR F.D.O.T. TECHNICAL SPECIFICATIONS WITH FDOT DESIGN STANDARDS (LATEST EDITION) AND THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
2. IF CONTRACTOR OR THEIR SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR, OWNER MAY, BUT IS NOT REQUIRED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR.
3. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH REQUIREMENTS OF THESE GENERAL NOTES WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE, OR WITHIN THE TIME OF ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
4. THE PROJECT DESIGN HAS BEEN BASED UPON FIELD SURVEYS AND SITE VISITS BY DRMP.
5. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, LIMITS OF CONSTRUCTION, WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE PROJECT, PRIOR TO THE COMMENCEMENT OF WORK.
6. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NOT PROVIDED, GIVE ALL NOTICES REQUIRED BY, AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, AND PERMIT CONDITIONS BEARING ON THE EXECUTION OF PROJECT, AS DRAWN AND SPECIFIED.
7. CONTRACTOR SHALL BE RESPONSIBLE TO OWNER AND ENGINEER FOR THE ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER THIS CONTRACT BETWEEN OWNER AND CONTRACTOR, FOR THIS PROJECT.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH ALL GOVERNMENTAL AGENCIES, DEPARTMENT OR BODIES, PUBLIC AND PRIVATE UTILITIES, CARRIERS OR SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ANY ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE OR TELEGRAPH FACILITIES, SUCH AS PAVEMENT, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED TO SUCH SERVICES, THAT ARE ENCOUNTERED DURING THE PROJECT, IN ORDER THAT SUCH ITEMS MAY BE PROPERLY PROTECTED, SUPPORTED OR RELOCATED AS NEEDED.
9. UNLESS OTHERWISE SPECIFIED IN THESE GENERAL CONDITIONS, SPECIFICATIONS OR IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, SPECIFICATION AND APPLICABLE PERMITS, ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, PERMIT CONDITIONS AND BUILDING AND SAFETY CODES BEARING ON THE EXECUTION OF THE PROJECT.
10. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY OR EASEMENT, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMITS FROM THE APPLICABLE JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY OR EASEMENT.
11. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS AND PROPERTY CORNERS.
12. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS AND AGENCIES SHALL HAVE ACCESS TO THE PROJECT AT ALL TIMES.
13. CONTRACTOR SHALL COMPLY IN EVERY ASPECT WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AS AMENDED AND ALL RULES, STATUTES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT.
14. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING AND SAFETY CODES, FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, INCLUDING BUT NOT LIMITED TO, POSTING OF DANGER SIGNS AND OTHER WARNING AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND SAFETY REGULATIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REASONABLE AND PRUDENT PRECAUTIONS FOR THE SAFE AND SECURE PROTECTION OF ALL INCOMPLETE WORK, MATERIALS AND EQUIPMENT STORED ONSITE AND OFFSITE, AND ANY UNAUTHORIZED ACCESS TO SUCH.
16. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING, BUT NOT LIMITED TO, TUNNELS, DITCHES, SWALES, STORMWATER PONDS, CANALS, OR ARTIFICIAL LAKES), CONTRACTOR SHALL REVIEW AND MAKE ARRANGEMENTS TO COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, (INCLUDING BUT NOT LIMITED TO CFR 1926 SUBPART P, OSHA DIRECTIVES CPL 2.69 AND 2.87 AND STATE OF FLORIDA DHR REQUIREMENTS) PERTAINING TO SAFE TRENCHING AND EXCAVATION.
17. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE AND REQUIRED PROTECTION TO PREVENT INJURY, DAMAGE OR LOSS TO:
18. ALL INJURY, DAMAGE OR LOSSES TO ANY PERSONNEL, EQUIPMENT, MATERIALS OR PROPERTY, AS NOTED IN THIS PARAGRAPH 18, CAUSED IN WHOLE OR IN PART, THROUGH FAULT OR NEGLIGENCE BY CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR INJURY, DAMAGE OR LOSS PROPERLY ATTRIBUTABLE TO THE ACTS, ERRORS OR OMISSIONS OF OWNER, ENGINEER OR ANOTHER EMPLOYEE BY THEM, OR FOR THOSE ACTS ANY OF THEM MAY BE LIABLE AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
19. UNTIL THE FINAL ACCEPTANCE OF THE PROJECT BY OWNER, CONTRACTOR SHALL HAVE THE COMPLETE CHARGE AND CARE OF, AND SHALL BEAR ALL RISKS AND EXPENSES FOR ANY INJURY, DAMAGE OR LOSS, OR TO ANY PORTION OF THE WORK, ALL MATERIALS STORED ONSITE OR OFFSITE BY THE ACTION OF THE ELEMENTS, OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK.
20. CONTRACTOR SHALL NOT LOAD, CAUSE OR PERMIT ANY PART OF THE WORK TO BE LOADED SO AS TO ENDANGER SAFETY.
21. THOSE PARTS OF THE WORK IN PLACE, WHICH ARE SUBJECT TO DAMAGE, BECAUSE OF ACTIVITIES OR OPERATIONS BEING CARRIED OUT ADJACENT TO, SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY CONTRACTOR AT HIS EXPENSE.
22. PERMANENT OPENINGS USED AS THROUGHFARES FOR THE INTRODUCTION OF WORK, PERSONNEL, EQUIPMENT AND/OR MATERIALS TO STRUCTURES SHALL HAVE HEADS, JAMBS AND SILLS WELL BLOCKED AND BOARDED BY THE CONTRACTOR.
23. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMEN SERVICES SHALL BE FURNISHED AND MAINTAINED BY CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTER ONTO, EXITS FROM OR CROSSES TRAFFIC CARRYING ROADS.
24. 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, COST, ATTORNEY'S FEES, EXPENSES, CAUSE OF ACTION, CLAIMS OR OTHER JUDGMENTS RESULTING FROM VIOLATIONS UNDER OSHA OR ANY RULES, STATUTES OR REGULATIONS PROMULGATED THERE UNDER, OR ANY FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK OR WORK TO BE PERFORMED ON THIS PROJECT.
25. ALL WORK PERFORMED UNDER THIS CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE PERFORMANCE OF THE WORK SHALL CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES, AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION.
26. 'HAZARDOUS MATERIALS' MEANS ANY SUBSTANCE WHICH:
27. CONTRACTOR AND ITS SUBCONTRACTORS SHALL PROPERLY USE, HANDLE, TRANSPORT AND DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, OR DESIGNED TO PROTECT THE ENVIRONMENT.
28. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE IMPROPER DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIALS OR SUBSTANCES CREATED BY ITS WORK ON OR ABOUT THE JOB SITE.
29. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS PROJECT, REMOVE ALL SUPPLIES, MATERIALS AND WASTE CONTAINING HAZARDOUS MATERIALS FROM THE JOB SITE.
30. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD HARMLESS OWNER FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COST OF INVESTIGATION, SOIL 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 THESE GENERAL NOTES.
31. SHOULD THE CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIALS ON OR ABOUT THE JOB SITE IN VIOLATION OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR OR IN THE EVENT OF ANY SPILL, RELEASE OR ANY REPORTABLE OCCURRENCES, CONTRACTORS SHALL IMMEDIATELY TAKE SUCH ACTIONS AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECTS OF SUCH SPILLS ON PERSONS, PROPERTY OR THE ENVIRONMENT, NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND INFORM THE OWNER IN WRITING.
32. IN THE EVENT CONTRACTOR OR ANY OF 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 ANY MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER IN WRITING.
33. MENTION OF A MANUFACTURER'S PROPRIETARY PRODUCT ON THESE PLANS IS TO ESTABLISH TYPE AND QUALITY ONLY.
34. CONTRACTOR SHALL PROVIDE AS BUILT PLANS CERTIFIED BY A FLORIDA LICENSED SURVEYOR.
35. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.
36. ALL DISTURBED AREAS WITHIN THE LIMITS OF RESTORATION SHALL BE REVEGETATED WITH CENTIPEDE SOD.
37. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION.
38. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES, AND LEVELS.
40. THE CONTRACTOR SHALL PROVIDE SOD (CENTIPEDE GRASS) ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED OR SHOWN.
41. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING.
42. ALL AREAS, STREETS, DRIVEWAYS, PARKING LOTS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION.
43. THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE OWNER AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.
44. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.
45. THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK.
46. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER'S PROJECT MANAGER AND WILL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION.
47. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES.
48. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
49. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES.
50. THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN ROADSIDE WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT OF WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.
51. IF DEWATERING IS REQUIRED, A CONSUMPTIVE USE PERMIT (C.U.P.) SHALL BE REQUIRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SAID PERMIT THROUGH FDEP.

CONSTRUCTION SCHEDULE

- 1. POST THE ENVIRONMENTAL PERMIT PLACARD IN A CONSPICUOUS WEATHER-PROOF PLACE (WITHOUT PLACING A MAIL IN A TREE) AND SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH WALTON COUNTY, FDEP, AND REGIONAL UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR SHALL STAKE THE LIMITS OF CONSTRUCTION/CLEARING PRIOR TO COMMENCING CONSTRUCTION.
3. CONTRACTOR SHALL INSTALL TREE PROTECTION & EROSION CONTROL DEVICES AS SHOWN IN THE PLANS OR AS REQUIRED BY THE COUNTY'S ENVIRONMENTAL INSPECTOR.
4. APPROVAL FROM THE ENVIRONMENTAL INSPECTOR OF THE INSTALLATION OF THE TREE PROTECTION & EROSION CONTROL DEVICES PRIOR TO COMMENCING CONSTRUCTION.
5. CONTRACTOR SHALL CLEAR POND 1 AND 2 AREAS THEN DESILT POND 1 OUTFALL, INFLOW STORM PIPES, AND STRUCTURES E-1 AND E-2.
6. CONTRACTOR SHALL GROUND GRADE SITE, STOCK PILE TOPSOIL, AND CONDUCT DEMOLITION.
7. CONSTRUCT POND 1 IMPROVEMENTS.
8. CONSTRUCT STRUCTURES S-1 THROUGH S-3 AND ASSOCIATED PIPES.
9. CONNECT TO EXISTING STRUCTURE E-1 ON THE NORTH END OF POND 1.
10. CONSTRUCT POND 2 IMPROVEMENTS.
11. CONSTRUCT STRUCTURES S-5 THROUGH S-8 AND ASSOCIATED PIPES.
12. CONSTRUCT POND 3A AND 3B IMPROVEMENTS.
13. CONSTRUCT STRUCTURES S-12 THROUGH S-14 AND ASSOCIATED PIPES.
14. FINISH GRADE SITE AND LANDSCAPE AS SPECIFIED IN THE LANDSCAPE PLAN.
15. CONTRACTOR SHALL COORDINATE FINAL CLOSE OUT OF THE PROJECT WITH THE OWNER, THE ENGINEER OR RECORD, REGIONAL UTILITIES, AND THE COUNTY.
16. SURVEYOR AND RECORD DRAWINGS CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER MUST BE SUBMITTED TO THE COUNTY AND REGIONAL UTILITIES.
17. EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL AFTER THE SITE HAS BEEN STABILIZED AND REMOVAL HAS BEEN APPROVED BY THE COUNTY'S ENVIRONMENTAL INSPECTOR.

STORMWATER MANAGEMENT SYSTEM OPERATION AND MAINTENANCE

- AFTER SIGNIFICANT RAINFALL EVENTS:
1. INSPECT ALL SWALES, GRASSED RETENTION BASINS, AND EMBANKMENT SLOPES FOR RILLS AND EROSION.
2. TWICE ANNUALLY INSPECT SWALES AND RETENTION BASINS FOR SEDIMENTATION.
3. INSPECT ALL INLETS, CATCH BASINS, CULVERTS, AND MANHOLES AT LEAST TWICE ANNUALLY AND REMOVE DEBRIS AS NECESSARY TO PROVIDE POSITIVE DRAINAGE.
4. INSPECT THE BOLD AND GOLD FILTER SYSTEM IN POND 1 AND POND 2 AT LEAST TWICE PER YEAR AND ALL PERFORM ALL NECESSARY REPAIRS AND MAINTENANCE.

BOLD AND GOLD SPECIFICATIONS

1.1 DESCRIPTION
BOLD & GOLD CTS FILTRATION MEDIA IS A BIOSORPTION ACTIVATED MEDIA (BAM) FOR STORMWATER TREATMENT IN CONJUNCTION WITH OTHER STRUCTURAL OR NON-STRUCTURAL STORMWATER BMPs.
1.2 RESPONSIBILITY
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY DELIVERY, STOCKPILING, INSTALLATION, AND MAINTENANCE OF THE BOLD & GOLD CTS FILTRATION MEDIA DURING CONSTRUCTION.
1.3 MATERIAL
COMPOSITION:
THE BOLD & GOLD CTS FILTRATION MEDIA IS MANUFACTURED WITH MINERAL MATERIALS AND NO ORGANIC MATERIALS.
STORAGE AND HANDLING:
THE BOLD & GOLD CTS FILTRATION MEDIA IS DELIVERED PRE-MIXED AND READY TO INSTALL.
1.4 CONSTRUCTION
DELIVERY:
BOLD & GOLD CTS FILTRATION MEDIA IS DELIVERED TO THE JOBSITE PRE-MIXED AND READY FOR INSTALLATION.
INSTALLATION:
SURFACE ON WHICH THE BOLD & GOLD CTS FILTRATION MEDIA IS PLACED SHALL BE REASONABLY LEVELED WITHIN ... OF THE ELEVATIONS SHOWN IN THE PLANS.
1. MAINTENANCE
1. MAINTENANCE REQUIREMENTS FOR THE BOLD & GOLD CTS FILTRATION MEDIA SHALL BE DEPENDENT ON THE PROPER FUNCTIONING AND MAINTENANCE OF THE APPLICABLE BMP IN WHICH THE FILTER MEDIA IS USED.

Table with columns: RAJ, DATE, NO., DESCRIPTION, BY

GENERAL NOTES
CONSTRUCTION PLANS FOR GRAYTON BEACH TRANSIT FACILITY

DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
COUNTY HIGHWAY 283 SOUTH SANTA ROSA BEACH 32459



PROJECT NO: 19-0328.004
SCALE: AS SHOWN
DATE: JUNE 2023
DRAWING: G101

P:\Projects\19-0328.004-Walton-County-PES-Croyton-Beach-Transit\CADD\01-DWG\19-0328.004_GEN_NOTES.dwg - Plotted: Mar 13, 2024 - 3:03pm by rajernigan

P:\Projects\19-0328.004\Walton_County_PES_Grayton_Beach_Traffic\General-Civil\CADD\01-DWG\19-0328.004_ZONE_MAP.dwg Plotted: Mar 13, 2024 - 3:04pm by rjerming



NO.	DATE	DESCRIPTION	BY

DESIGNED BY	RAJ
DRAWN BY	RAJ
CHECKED BY	MTZ
APPROVED BY	BRL

ZONING MAP

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

DRMP
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

CERTIFICATE OF REGISTRATION NO. 28348
 1835 SOUTH WEAVER DRIVE
 TALLAHASSEE, FL 32317
 Phone: 850.562.9600 www.drmp.com

DRMP, Inc.

Benjamin R. Lemoine, P.E.
 State of Florida # 78674

PROJECT NO.: 19-0328.004

SCALE:	AS SHOWN
DATE:	JUNE 2023
DRAWING:	C100

NOTES:
 1. FLOOD ZONE A AREA INTERNAL TO PROJECT LOCATION PER LETTER OF MAP AMENDMENT CASE No: 02-04-7406-A.
 2. FLOOD ZONE A AREA EXTERNAL TO THE PROJECT LOCATION IS PER FEMA GIS INFORMATION

LEGEND

- GIS PARCEL LINES
- PROJECT LOCATION
- FLOOD ZONE A

P:\Projects\19-0328.004 - Walton County - PES - Grayton Beach - Transit Facility - General - Civil - CADD - 02 - REFS - VREFS\19-0328.004 - EXIST BASE.dwg Plotted: Mar 13, 2024 - 3:04pm by rajerning



NO.	DATE	DESCRIPTION	BY

DESIGNED BY	RAJ	RAJ	MTZ	BRL
DRAWN BY				
CHECKED BY				
APPROVED BY				

DRMP
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
 Certificate of Authorization No. 2648
 1925 SOUTH WILSON DRIVE
 WILSONVILLE, NC 28788
 Phone: 850.582.9800 WWW.DRMP.COM

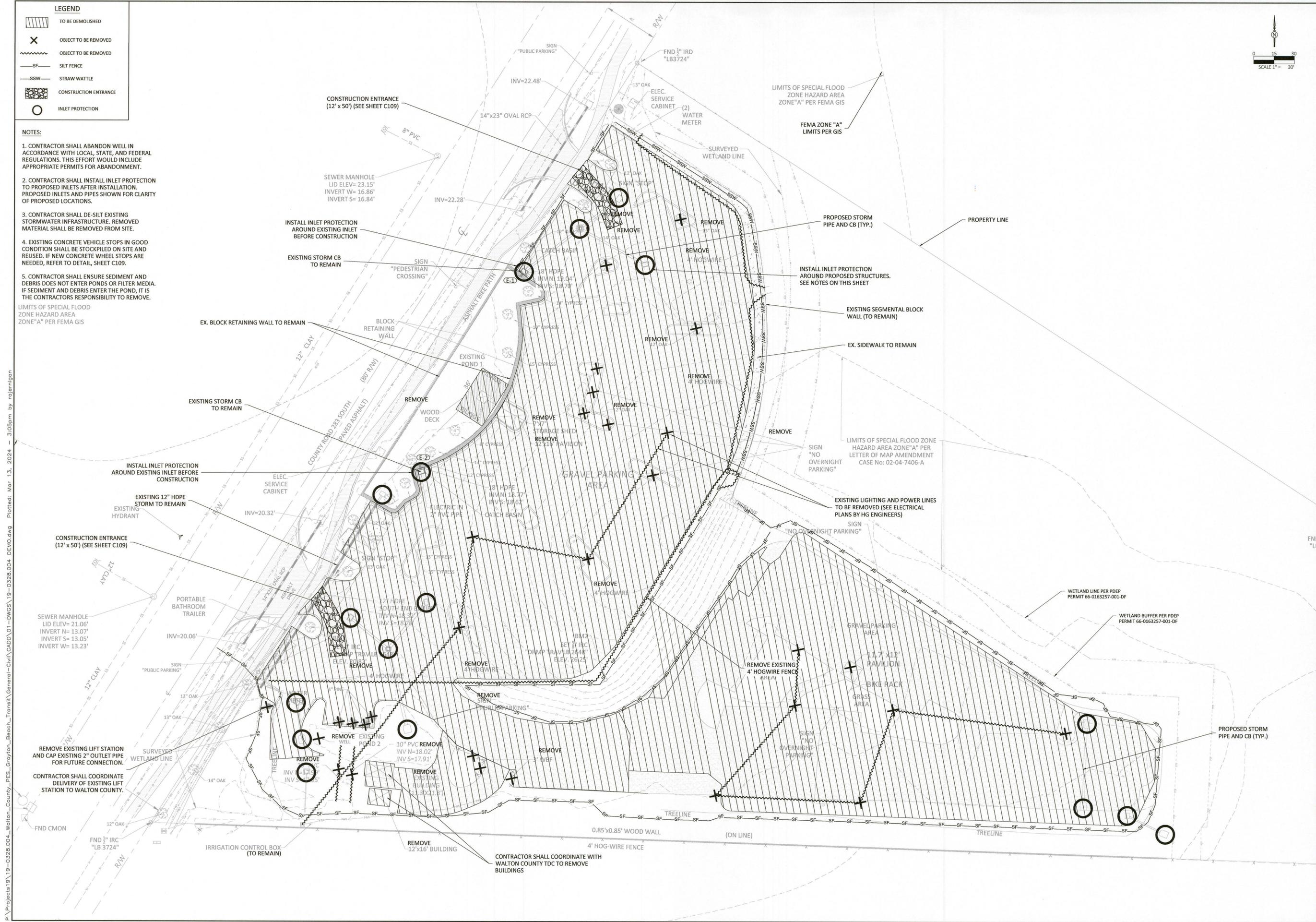
DRMP, Inc.
 BENJAMIN R. LEMON
 LICENSE
 No. 78674
 3-28-2024
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER
 Benjamin R. Lemon, P.E.
 State of Florida # 78674
 PROJECT NO.:
 19-0328.004
 SCALE:
 AS SHOWN
 DATE:
 JUNE 2023
 DRAWING:
 C101

LEGEND

- TO BE DEMOLISHED
- OBJECT TO BE REMOVED
- OBJECT TO BE REMOVED
- SILT FENCE
- STRAW WATTLE
- CONSTRUCTION ENTRANCE
- INLET PROTECTION

- NOTES:**
- CONTRACTOR SHALL ABANDON WELL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. THIS EFFORT WOULD INCLUDE APPROPRIATE PERMITS FOR ABANDONMENT.
 - CONTRACTOR SHALL INSTALL INLET PROTECTION TO PROPOSED INLETS AFTER INSTALLATION. PROPOSED INLETS AND PIPES SHOWN FOR CLARITY OF PROPOSED LOCATIONS.
 - CONTRACTOR SHALL DE-SILT EXISTING STORMWATER INFRASTRUCTURE. REMOVED MATERIAL SHALL BE REMOVED FROM SITE.
 - EXISTING CONCRETE VEHICLE STOPS IN GOOD CONDITION SHALL BE STOCKPILED ON SITE AND REUSED. IF NEW CONCRETE WHEEL STOPS ARE NEEDED, REFER TO DETAIL, SHEET C109.
 - CONTRACTOR SHALL ENSURE SEDIMENT AND DEBRIS DOES NOT ENTER PONDS OR FILTER MEDIA. IF SEDIMENT AND DEBRIS ENTER THE POND, IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE.

LIMITS OF SPECIAL FLOOD ZONE HAZARD AREA ZONE "A" PER FEMA GIS



P:\Projects\19-0328.004-Walton_County_PES_Graydon_Beach_Traffic\General-Civil\CADD\01-DWG\19-0328.004_DEMO.dwg Plotted: Mar 13, 2024 3:05pm by rajernign

NO.	DATE	DESCRIPTION

DESIGNED BY	RAJ
DRAWN BY	RAJ
CHECKED BY	MITZ
APPROVED BY	BRL

DEMOLITION PLAN AND EROSION CONTROL PLAN
 CONSTRUCTION PLANS FOR
GRAYDON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

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 TALLAHASSEE, FL 32317
 Phone: 850.562.9600 www.drmp.com

DRMP, Inc.

 PROJECT NO.: 19-0328.004
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DRAWING: C102

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

NOTE:
 1. ALL PARKING STALLS SHALL HAVE VEHICLE STOPS. SEE DETAIL SHEET C109.
 2. CONTRACTOR SHALL REFER TO FDOT STANDARD PLANS 522-002 FOR CONSTRUCTION OF SIDEWALK CURB CUT RAMPS. RAMP TYPE IS CALLED OUT IN PLANS AS "CR ___".

LEGEND

- NEW ASPHALT
- NEW CONCRETE
- NEW GRAVEL DRIVE
- NEW LANDSCAPE AREA
- POND AREA
- REGULAR PARKING SPACE
- HANDICAP PARKING SPACE
- ELECTRIC VEHICLE PARKING SPACE
- RECREATIONAL VEHICLE PARKING SPACE
- GOLF CART PARKING SPACE

FENCING NOTE:
 SPEC. <https://www.fence-depot.com/fence/48-inch-high-auburn-residential-quick-ship/>
 (OR APPROVED EQUAL)

HEIGHT: 48 INCHES
 WIDTH: 72 INCHES
 NUMBER OF HORIZONTAL RAILS: 3 RAILS
 HORIZONTAL RAIL SIZE: 1 INCH SQUARE
 VERTICAL PICKET SIZE: 3/4 INCH SQUARE
 VERTICAL PICKET SPACING: 3 1/2 INCHES
 RACKABILITY: 16 INCHES OVER 6 FOOT SPAN
 COLOR: BLACK
 MATERIAL: ALUMINUM
 LIFETIME WARRANTY

INSTALL PER MANUFACTURERS SPECIFICATIONS



FEMA ZONE "A" PER GIS

EXISTING FIRE HYD.

MILL 1/2 INCH AND RESURFACE EX. DRIVEWAY TURNOUT + 231 SY.

CONST. 3' CURB DOWN TRANSITION

25' FRONT SETBACK

INSTALL 2'x5'x12" D RIPRAP APRON D₃₀ = 6"

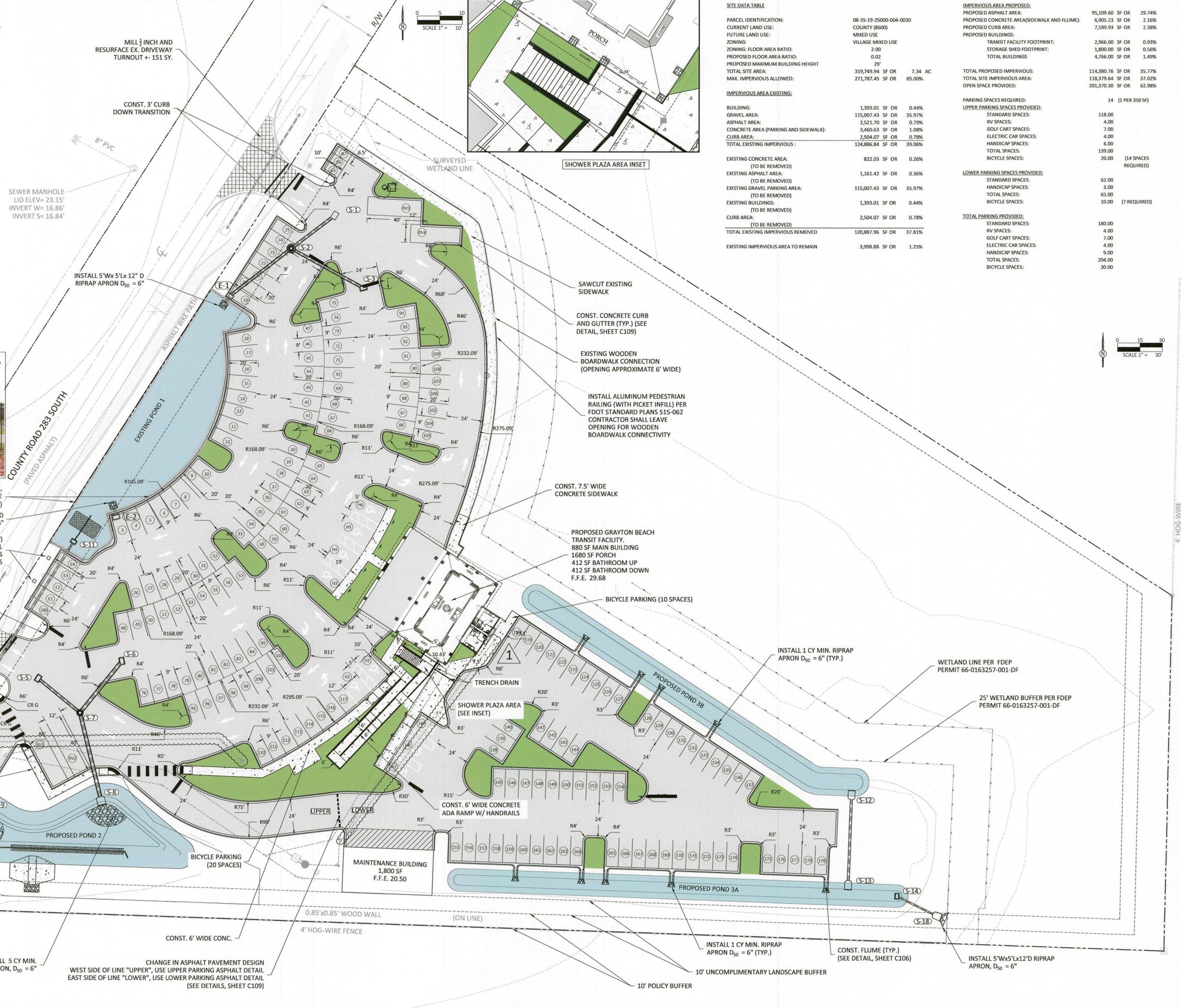
CONST. 18" VALLEY CURB PER DETAIL, SHEET C109

SURVEYED WETLAND LINE

INSTALL 5 CY MIN. RIPRAP APRON, D₃₀ = 6"

IRRIGATION CONTROL BOX

INSTALL 5 CY MIN. RIPRAP APRON, D₃₀ = 6"



SITE DATA TABLE

PARCEL IDENTIFICATION:	08-35-19-25000-004-0030
CURRENT LAND USE:	COUNTY (8600)
FUTURE LAND USE:	MIXED USE
ZONING:	VILLAGE MIXED USE
ZONING: FLOOR AREA RATIO:	2.00
PROPOSED FLOOR AREA RATIO:	0.02
PROPOSED MAXIMUM BUILDING HEIGHT:	29'
TOTAL SITE AREA:	319,749.94 SF OR 7.34 AC
MAX. IMPERVIOUS ALLOWED:	271,787.45 SF OR 85.00%

IMPERVIOUS AREA EXISTING:

BUILDING:	1,393.01 SF OR 0.44%
GRAVEL AREA:	115,007.43 SF OR 35.97%
ASPHALT AREA:	2,521.70 SF OR 0.79%
CONCRETE AREA (PARKING AND SIDEWALK):	3,460.63 SF OR 1.08%
CURB AREA:	2,504.07 SF OR 0.78%
TOTAL EXISTING IMPERVIOUS:	124,886.84 SF OR 39.06%

EXISTING CONCRETE AREA: 822.03 SF OR 0.26% (TO BE REMOVED)
EXISTING ASPHALT AREA: 1,161.42 SF OR 0.36% (TO BE REMOVED)
EXISTING GRAVEL PARKING AREA: 115,007.43 SF OR 35.97% (TO BE REMOVED)
EXISTING BUILDINGS: 1,393.01 SF OR 0.44% (TO BE REMOVED)
CURB AREA: 2,504.07 SF OR 0.78% (TO BE REMOVED)
TOTAL EXISTING IMPERVIOUS REMOVED: 120,887.96 SF OR 37.81%
EXISTING IMPERVIOUS AREA TO REMAIN: 3,998.88 SF OR 1.25%

IMPERVIOUS AREA PROPOSED:

PROPOSED ASPHALT AREA:	95,109.60 SF OR 29.74%
PROPOSED CONCRETE AREA (SIDEWALK AND FLUME):	6,905.23 SF OR 2.16%
PROPOSED CURB AREA:	7,599.93 SF OR 2.38%
PROPOSED BUILDINGS:	
TRANSIT FACILITY FOOTPRINT:	2,966.00 SF OR 0.93%
STORAGE SHED FOOTPRINT:	1,800.00 SF OR 0.56%
TOTAL BUILDINGS:	4,766.00 SF OR 1.49%
TOTAL PROPOSED IMPERVIOUS:	114,380.76 SF OR 35.77%
TOTAL SITE IMPERVIOUS AREA:	118,379.64 SF OR 37.02%
OPEN SPACE PROVIDED:	201,370.30 SF OR 62.98%

PARKING SPACES REQUIRED: 14 (1 PER 350 SF)

UPPER PARKING SPACES PROVIDED:

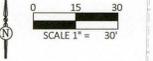
STANDARD SPACES:	118.00
RV SPACES:	4.00
GOLF CART SPACES:	7.00
ELECTRIC CAR SPACES:	4.00
HANDICAP SPACES:	6.00
TOTAL SPACES:	139.00
BICYCLE SPACES:	20.00 (14 SPACES REQUIRED)

LOWER PARKING SPACES PROVIDED:

STANDARD SPACES:	62.00
HANDICAP SPACES:	3.00
TOTAL SPACES:	65.00
BICYCLE SPACES:	10.00 (7 REQUIRED)

TOTAL PARKING PROVIDED:

STANDARD SPACES:	180.00
RV SPACES:	4.00
GOLF CART SPACES:	7.00
ELECTRIC CAR SPACES:	4.00
HANDICAP SPACES:	9.00
TOTAL SPACES:	204.00
BICYCLE SPACES:	30.00



REVISIONS

NO.	DATE	DESCRIPTION
1	8/25/23	HYDRANT AND TRANSIT SEWER SERVICE RELOCATION

DESIGNED BY: RAJ
 DRAWN BY: RAJ
 CHECKED BY: MTZ
 APPROVED BY: BRL

SITE PLAN

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

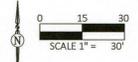
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Certificate of Authorization No. 2648
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 TALLAHASSEE, FL 32317
 Phone: 850.562.9500 WWW.DRMP.COM

FLORIDA PROFESSIONAL ENGINEER
 No. 78674
 5-22-2024
 STATE OF FLORIDA
 Benjamin R. Timmon, P.E.
 State of Florida # 78674
 PROJECT NO.: 19-0328.004
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DRAWING: C103

P:\Projects\19-0328.004_Waiton_County_PES_Grayton_Beach_Transit\General-Civil\CADD\01-DWGS\19-0328.004_SITE_PLAN.dwg Plotted: Mar 13, 2024 3:05pm by rjermigen

P:\Projects\19-0328.004 - Walton County - PES - Grayton Beach - Transit Facility - CADD\01-DWG\19-0328.004 LANDSCAPE BUFFER.dwg Plotted: Mar 13, 2024 - 3:08pm by rojarnigen



LEGEND

	NEW ASPHALT
	NEW CONCRETE
	NEW GRAVEL DRIVE
	NEW LANDSCAPE AREA
	POND AREA
	POLICY L-1.15.3 BUFFER (NO DISTURBANCE WITHIN BUFFER)
	10' UNCOMPLIMENTARY LAND USE BUFFER (SEE LANDSCAPE PLANS)

BUILDING SETBACKS
 FRONT: 25'
 REAR: 20'
 SIDE: 10'

NO.	DATE	DESCRIPTION
1	8/25/23	HYDRANT AND TRANSIT SEWER SERVICE RELOCATION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RAJ	RAJ	MTZ	BRL

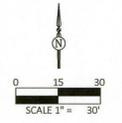
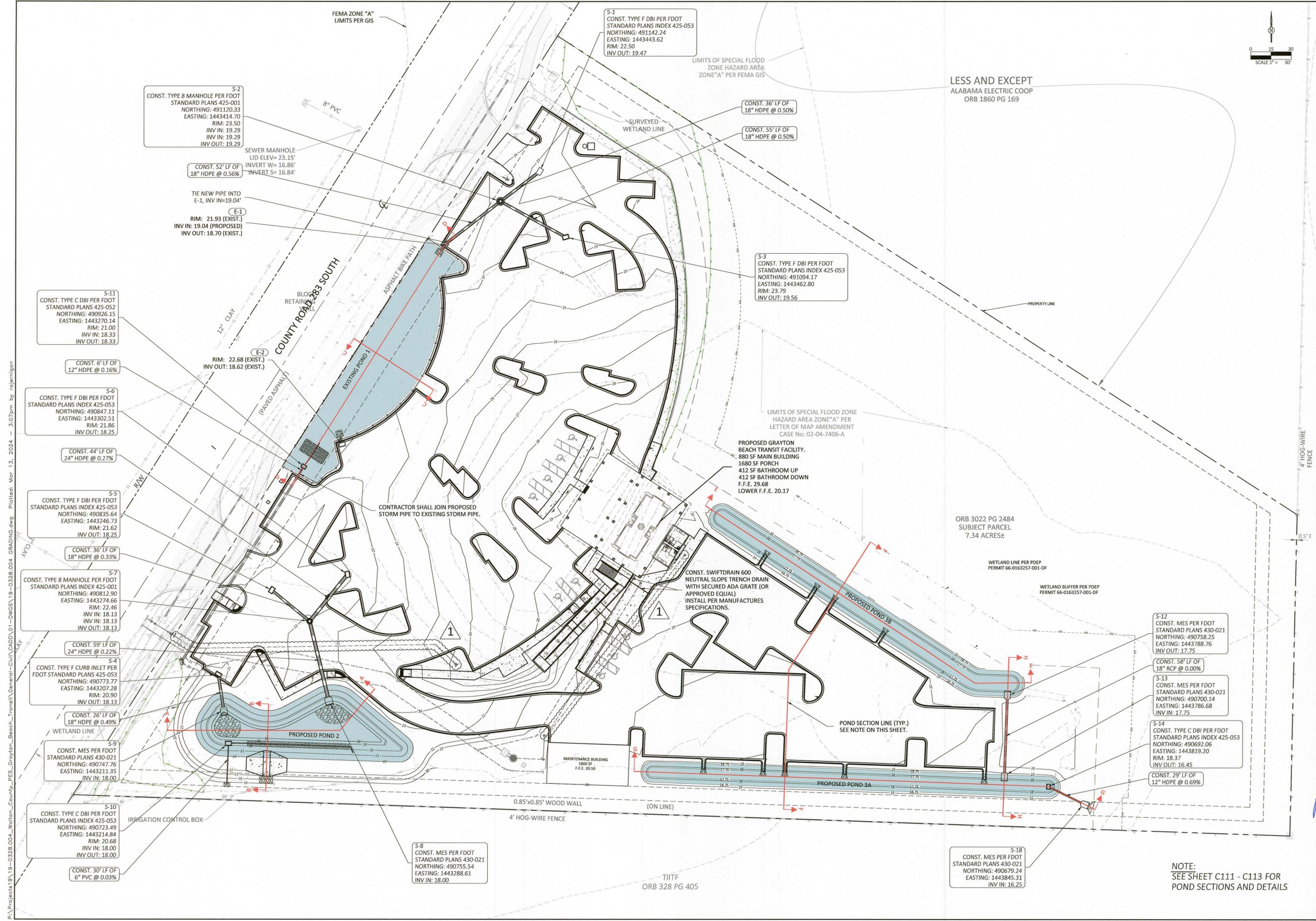
CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

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 PROFESSIONAL ENGINEER
 BENJAMIN H. FLEMING, P.E.
 State of Florida # 78674

PROJECT NO.: 19-0328.004
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DRAWING: C104



NO.	DATE	DESCRIPTION	BY
1	8/25/23	HYDRANT AND TRANSIT SEWER SERVICE RELOCATION	BRL

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RAJ	RAJ	MTZ	BRL

OVERALL GRADING AND DRAINAGE PLAN

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

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 1625 SUMMIT LAKE DRIVE
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 Phone: 850.582.9800 | www.drmp.com

DRMP, Inc.
 BENJAMIN R. LEWIS
 LICENSE NO. 78674
 5-22-2004
 STATE OF FLORIDA
 PROFESSIONAL ENGINEERS

Benjamin R. Lewis, P.E.
 State of Florida # 78674

PROJECT NO.: 19-0328.004
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DRAWING: C105

LESS AND EXCEPT
 ALABAMA ELECTRIC COOP
 ORB 1860 PG 169

S-3
 CONST. TYPE F DBI PER FDOT
 STANDARD PLANS INDEX 425-053
 NORTHING: 491094.17
 EASTING: 1443462.80
 RIM: 23.79
 INV OUT: 19.56

S-2
 CONST. TYPE 8 MANHOLE PER FDOT
 STANDARD PLANS 425-001
 NORTHING: 491120.33
 EASTING: 1443414.70
 RIM: 23.50
 INV IN: 19.29
 INV IN: 19.29
 INV OUT: 19.29

S-11
 CONST. TYPE C DBI PER FDOT
 STANDARD PLANS 425-052
 NORTHING: 490926.15
 EASTING: 1443270.14
 RIM: 21.00
 INV IN: 18.33
 INV OUT: 18.33

S-6
 CONST. TYPE F DBI PER FDOT
 STANDARD PLANS INDEX 425-053
 NORTHING: 490847.11
 EASTING: 1443302.51
 RIM: 21.86
 INV OUT: 18.25

S-5
 CONST. TYPE F DBI PER FDOT
 STANDARD PLANS INDEX 425-053
 NORTHING: 490835.64
 EASTING: 1443246.73
 RIM: 21.62
 INV OUT: 18.25

S-7
 CONST. TYPE 8 MANHOLE PER FDOT
 STANDARD PLANS INDEX 425-001
 NORTHING: 490812.90
 EASTING: 1443274.66
 RIM: 22.46
 INV IN: 18.13
 INV IN: 18.13
 INV OUT: 18.13

S-4
 CONST. TYPE F CURB INLET PER
 FDOT STANDARD PLANS 425-053
 NORTHING: 490773.77
 EASTING: 1443207.28
 RIM: 20.90
 INV OUT: 18.13

S-9
 CONST. MES PER FDOT
 STANDARD PLANS 430-021
 NORTHING: 490747.76
 EASTING: 1443211.35
 INV IN: 18.00

S-10
 CONST. TYPE C DBI PER FDOT
 STANDARD PLANS INDEX 425-053
 NORTHING: 490723.49
 EASTING: 1443214.84
 RIM: 20.68
 INV IN: 18.00
 INV OUT: 18.00

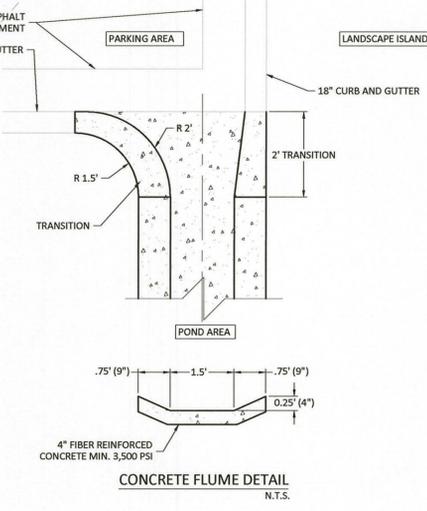
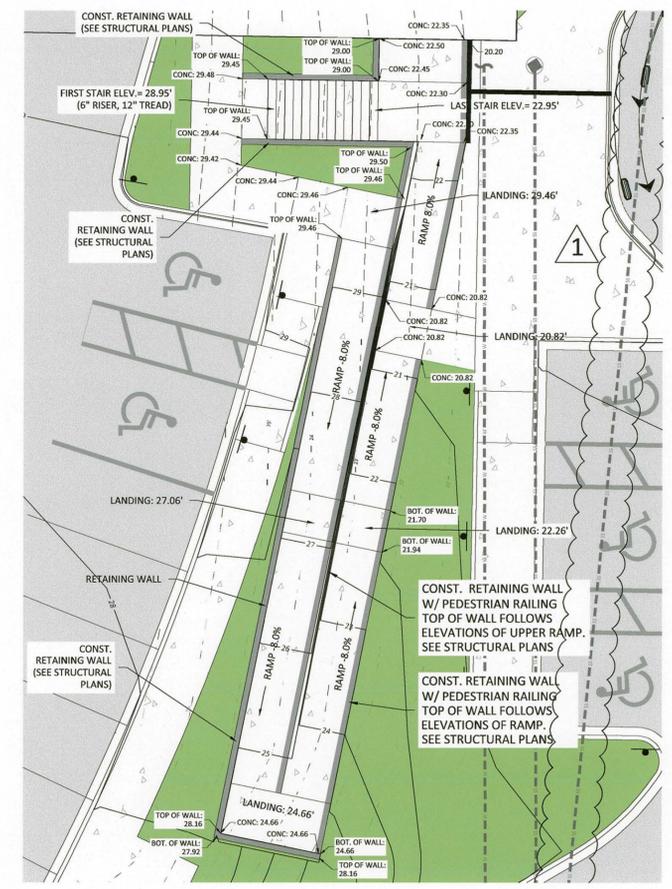
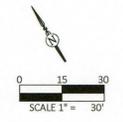
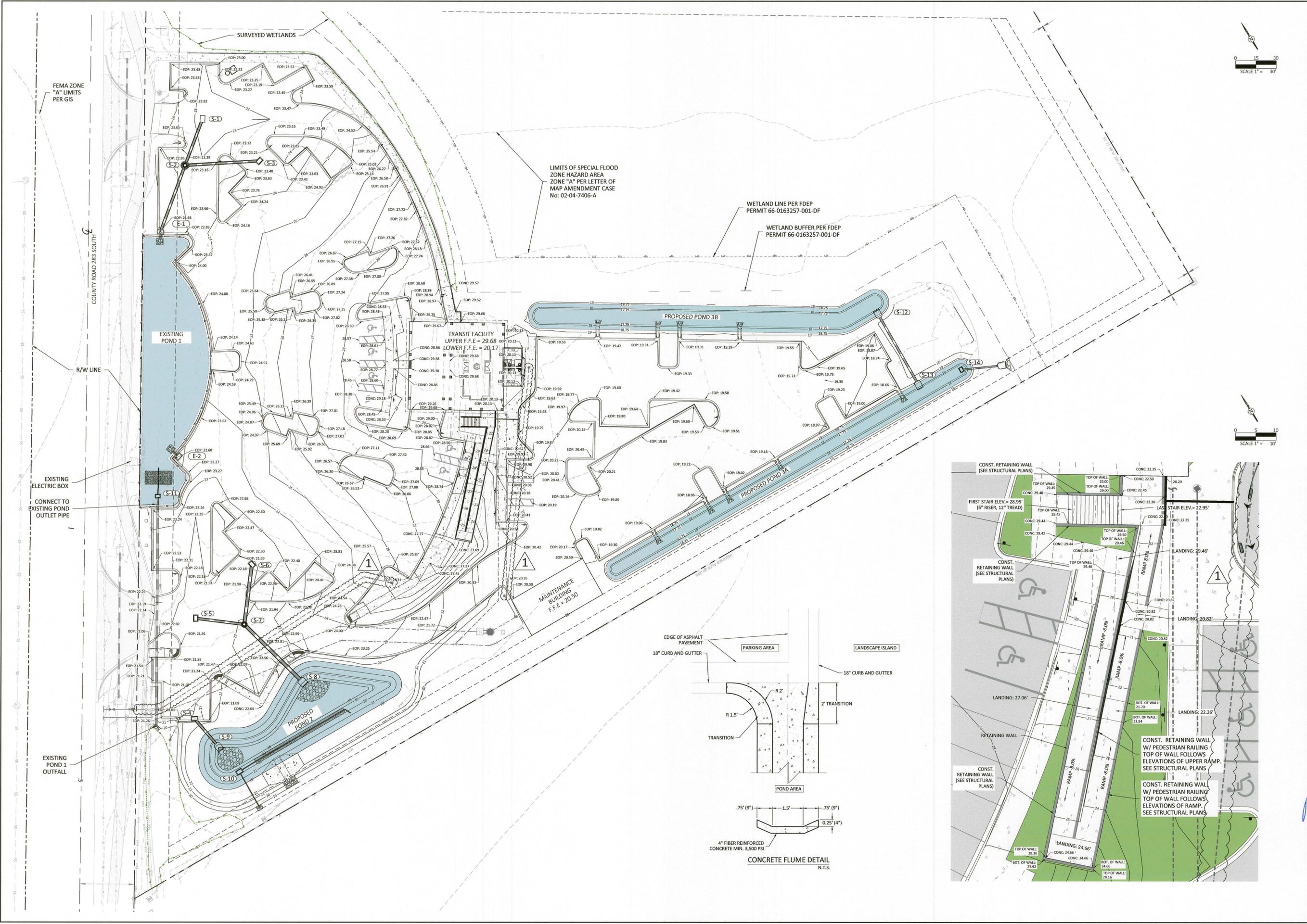
S-8
 CONST. MES PER FDOT
 STANDARD PLANS 430-021
 NORTHING: 490755.54
 EASTING: 1443288.61
 INV IN: 18.00

S-18
 CONST. MES PER FDOT
 STANDARD PLANS 430-021
 NORTHING: 490679.24
 EASTING: 1443845.31
 INV IN: 16.25

NOTE:
 SEE SHEET C111 - C113 FOR
 POND SECTIONS AND DETAILS

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

P:\Projects\19-0328-004-Waiton_County_PES_Grayton_Beach_Transit\CADD\01-DWG\19-0328-004 GRADING.dwg Plotted: Mar 13, 2024 - 3:07pm by rajerning



NO.	DATE	DESCRIPTION	BY
1	8/25/23	HYDRANT AND TRANSIT SEWER SERVICE RELOCATION	BRL

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RAJ	RAJ	MTZ	BRL

GRADING AND DRAINAGE PLAN

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

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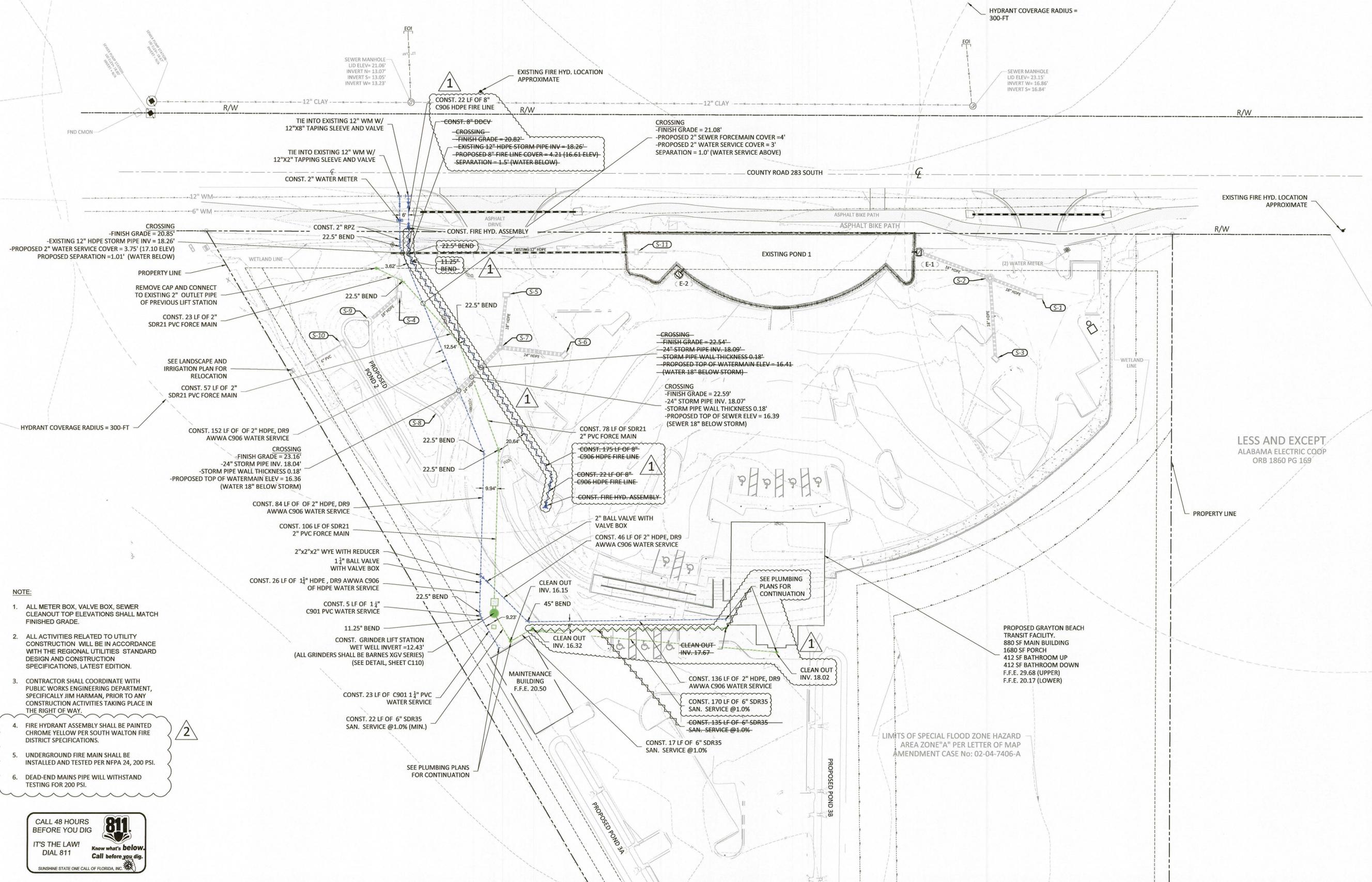
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DRMP, Inc.
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 No. 78674
 3-22-2004
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 BENJAMIN R. LEONARD, P.E.
 State of Florida # 78674

PROJECT NO.: 19-0328-004
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DRAWING: C106

P:\Projects\19-0328.004-Walton_County_PES_Grayton_Beach_Transit\General-Civil\CADD\01-DWGS\19-0328.004 UTILITY PLAN.dwg Plotted: Mar 13, 2024 3:35pm by rejermin



- NOTE:**
- ALL METER BOX, VALVE BOX, SEWER CLEANOUT TOP ELEVATIONS SHALL MATCH FINISHED GRADE.
 - ALL ACTIVITIES RELATED TO UTILITY CONSTRUCTION WILL BE IN ACCORDANCE WITH THE REGIONAL UTILITIES STANDARD DESIGN AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
 - CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS ENGINEERING DEPARTMENT, SPECIFICALLY JIM HARMAN, PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE IN THE RIGHT OF WAY.
 - FIRE HYDRANT ASSEMBLY SHALL BE PAINTED CHROME YELLOW PER SOUTH WALTON FIRE DISTRICT SPECIFICATIONS.
 - UNDERGROUND FIRE MAIN SHALL BE INSTALLED AND TESTED PER NFPA 24, 200 PSI.
 - DEAD-END MAINS PIPE WILL WITHSTAND TESTING FOR 200 PSI.



NO.	DATE	DESCRIPTION
1	8/25/23	HYDRANT AND TRANSIT SEWER SERVICE RELOCATION
1	3/13/24	PLANS ADJUSTMENTS FOR SWFD

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RAJ	RAJ	MTZ	BRL

UTILITY PLAN

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459



DRMP, Inc.

Benjamin L. Lamm, P.E.
 State of Florida # 78674
 State of Florida # 78674
 PROJECT NO.: 19-0328.004
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DRAWING: C107

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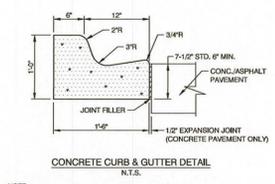
LESS AND EXCEPT ALABAMA ELECTRIC COOP ORB 1860 PG 169

PROPOSED GRAYTON BEACH TRANSIT FACILITY. 880 SF MAIN BUILDING 1680 SF PORCH 412 SF BATHROOM UP 412 SF BATHROOM DOWN F.F.E. 29.68 (UPPER) F.F.E. 20.17 (LOWER)

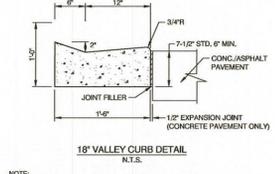
LIMITS OF SPECIAL FLOOD ZONE HAZARD AREA ZONE"A" PER LETTER OF MAP AMENDMENT CASE No: 02-04-7406-A

EROSION CONTROL NOTES

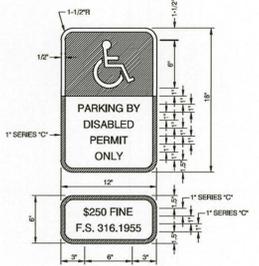
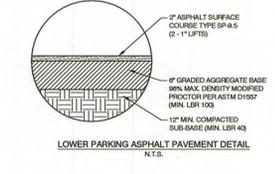
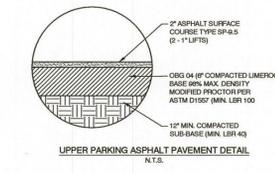
- ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).
- ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.
- UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.
- THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE ON TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETED AND ACCEPTED.
- USE OF TEMPORARY EROSION CONTROL FEATURES WILL BE AUTHORIZED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN AT THE TIME OF DESIGN OR TO PROVIDE IMMEDIATE TEMPORARY CONTROL OF EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION OPERATIONS. TEMPORARY EROSION AND WATER POLLUTION CONTROL FEATURES SHALL CONSIST OF, BUT NOT BE LIMITED TO, TEMPORARY GRASSING, TEMPORARY SODDING, TEMPORARY MULCHING (FROM NATIVE SPECIES ONLY), SANDBAGGING, SLOPE DRAINS, SEDIMENT BASINS, SEDIMENT CHECK BERMS, STRAW BALES, FLOATING TURBIDITY BARRIER, STAKED TURBIDITY BARRIER AND SILT FENCE. SHOULD TEMPORARY GRASSING, SODDING, OR SEEDING BE REQUIRED TO STABILIZE SOIL AND REDUCE EROSION, THE TYPE AND LOCATION MUST BE APPROVED BY ENGINEER PRIOR TO USE.
- EROSION CONTROL PLAN**
 - STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED BY THE CONTRACTOR. CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT AS THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE STRAW BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
 - THE CONTRACTOR SHALL PREPARE A SWPPP DOCUMENT IN ACCORDANCE WITH THE NPDES REQUIREMENTS OUTLINED BY THE US ENVIRONMENTAL PROTECTION AGENCY AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 - THE CONTRACTOR SHALL PROVIDE CONTINUOUS MONITORING OF EROSION AND SEDIMENT CONTROLS AND SHALL DOCUMENT ALL CORRECTIVE MEASURES TAKEN.
 - THE APPROVED SWPPP SHALL BE EXECUTED BY THE CONTRACTOR AND THE DOCUMENT SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW BY THE OWNER'S REPRESENTATIVE AND BY NPDES INSPECTORS. CONTRACTOR SHALL PROVIDE A COPY OF THE NPDES NOTICE OF INTENT (NOI) ALONG WITH THE REQUIRED STORMWATER POLLUTION PREVENTION PLAN(SWPPP) TO WALTON COUNTY PRIOR TO COMMENCEMENT OF THE DEVELOPMENT.
- IF DEWATERING IS REQUIRED, A CONSUMPTIVE USE PERMIT (C.U.P.) SHALL BE REQUIRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SAID PERMIT THROUGH FDEP.



NOTE:
WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" MIN. UNLESS OTHERWISE SHOWN ON PLANS. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB AND CONCRETE PAVEMENT ON CONCRETE STRUCTURES.

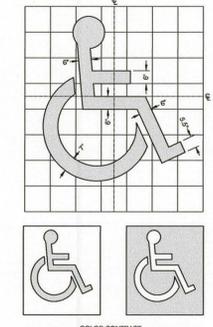


NOTE:
EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB AND CONCRETE PAVEMENT ON CONCRETE STRUCTURES.

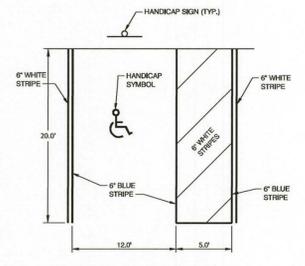


NOTE:
THIS PANEL SHALL BE INSTALLED UNDER THE FTR-2028 HANDICAP PARKING SIGN.

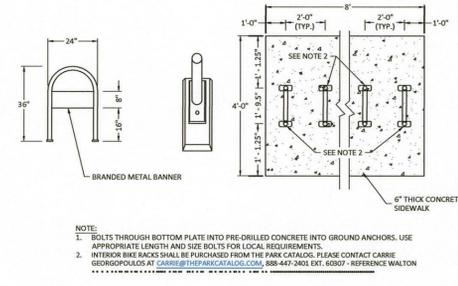
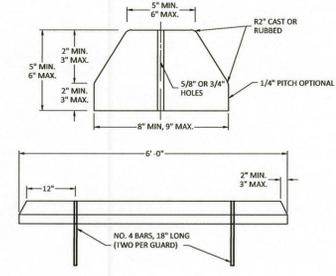
NOTE:
SYMBOL SHALL BE PAINTED BLUE AND TO THE DIMENSIONS SHOWN.



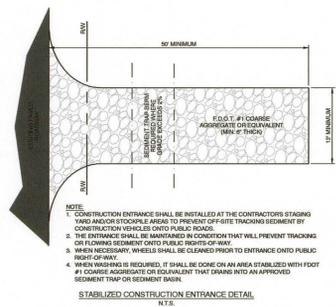
NOTE:
SYMBOL SHALL BE PAINTED BLUE AND TO THE DIMENSIONS SHOWN.



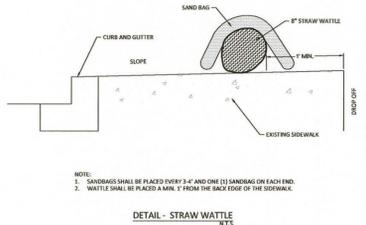
NOTE:
HANDICAP PARKING SPACES SHALL BE A MINIMUM OF TWELVE (12) FEET WIDE, MEASURED FROM CENTER TO CENTER OF THE BLUE DEMARCATION LINES.



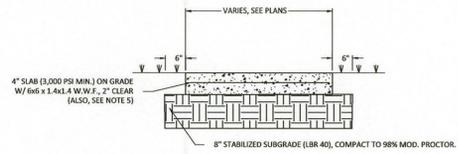
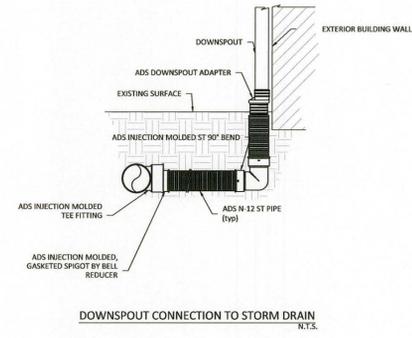
NOTE:
1. BOLTS THROUGH BOTTOM PLATE INTO PRE-DRILLED CONCRETE INTO GROUND ANCHORS. USE APPROPRIATE LENGTH AND SIZE BOLTS FOR LOCAL REQUIREMENTS.
2. INTERIOR BIKE RACKS SHALL BE PURCHASED FROM THE PARK CATALOG. PLEASE CONTACT GABRIEL GONZALEZ AT GABRIEL@THEPARKCATALOG.COM, 888-447-2403 EXT. 6907 - REFERENCE WALTON



NOTE:
1. CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE CONTRACTOR'S STAGING AND/OR STOCKPILE AREAS TO PREVENT OFF-SITE TRACKING SEGMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS.
2. THE ENTRANCE SHALL BE MAINTAINED IN CONDITION THAT WILL PREVENT TRACKING OF LOOSE SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.
3. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
4. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH FOOT #1 CORNER AGGREGATE OR EQUIVALENT THAT DRAINAGE INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



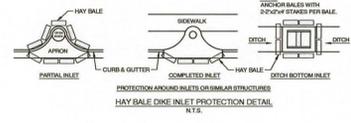
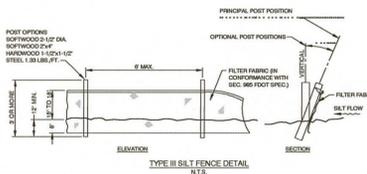
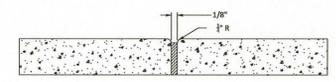
NOTE:
1. SANDBAGS SHALL BE PLACED EVERY 3' AND ONE (1) SANDBAG ON EACH END.
2. WATTLE SHALL BE PLACED 1 MIN. 1' FROM THE BACK EDGE OF THE SIDEWALK.



NOTES:
1. 0.5% MIN., 2% MAX. CROSS SLOPE.
2. CONCRETE TO BE 1700 CLASS II, 3,000 PSI MINIMUM.
3. INSPECTION REQUIRED ONCE SIDEWALK IS FORMED.
4. BROOK FRESH.
5. SIDEWALK SHALL BE 6" THICK WHEN LOCATION MAY BE SUBJECT TO VEHICULAR LOADING.
6. REFER TO FOOT STD. PLANS S22-001 FOR ADDITIONAL NOTES AND SPECIFICATIONS INCLUDING JOINTS AND EDGES.

CONTROL JOINT NOTE:
FOR 4' AND 5' WIDE SIDEWALKS, PROVIDE CONTROL JOINTS @ 4' MINIMUM AND 6' MAXIMUM SPACING. FOR 10' WIDE SIDEWALKS, PROVIDE CONTROL JOINTS @ 8' MINIMUM AND 10' MAXIMUM SPACING.

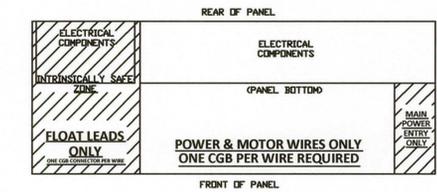
EXPANSION JOINT NOTE:
PROVIDE TRANSVERSE EXPANSION JOINTS @ APPROX. 30' SPACING MAX. SPACING OF 50'.



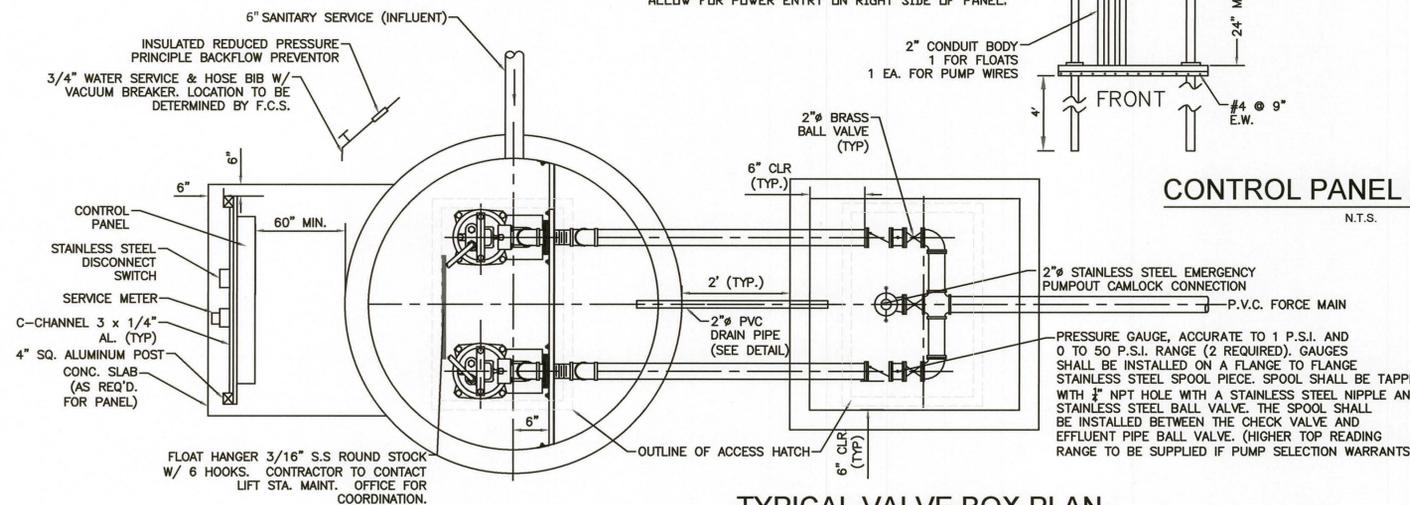
EROSION CONTROL DETAILS

STANDARD DETAILS

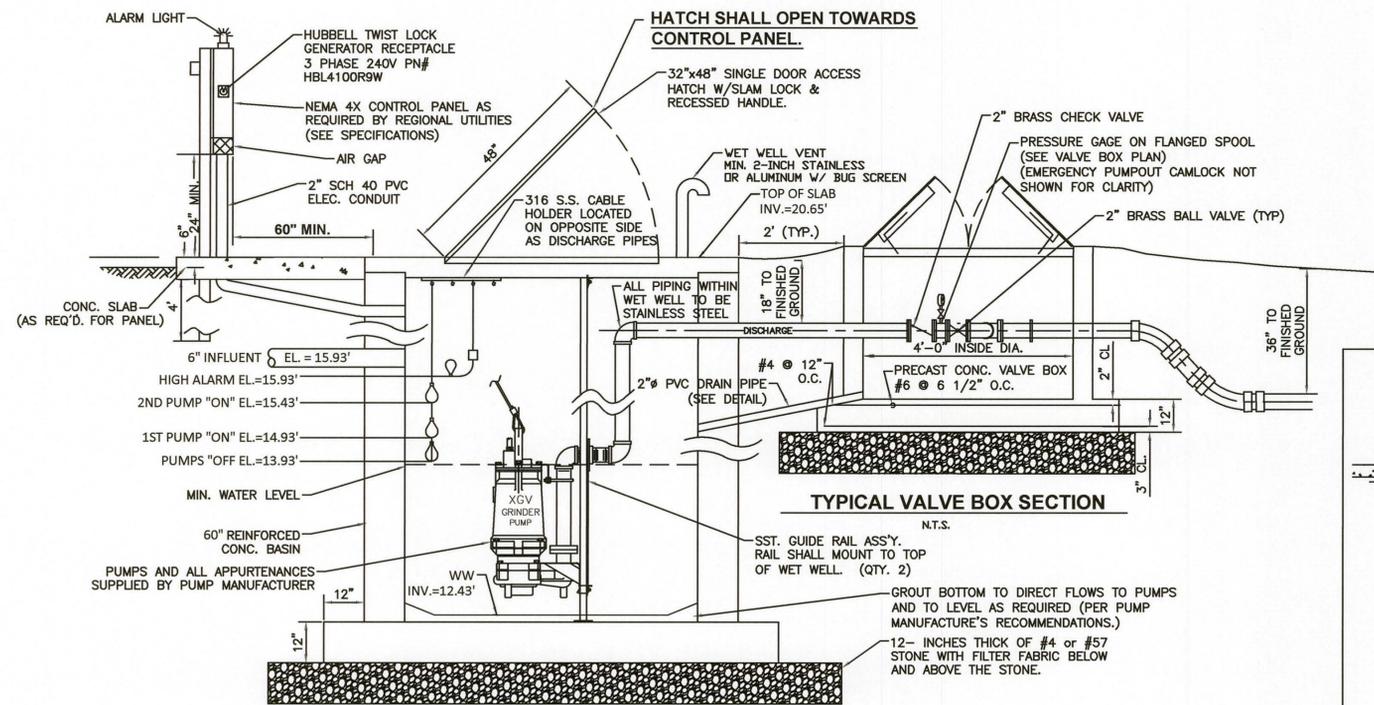
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DESIGNED BY	RAJ	DRAWN BY	RAJ
CHECKED BY	MTZ	APPROVED BY	BRL
STANDARD DETAILS			
CONSTRUCTION PLANS FOR GRAYTON BEACH TRANSIT FACILITY COUNTY HIGHWAY 283 SOUTH SANTA ROSA BEACH 32459			
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE			
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2648 1825 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 Phone: 850.562.9500 WWW.DRMP.COM			
DRMP, Inc. BENJAMIN R. LEONARD LICENSE 78674 3-22-2024 STATE OF FLORIDA PROFESSIONAL ENGINEER Benjamin R. Leonard, P.E. State of Florida # 78674 PROJECT NO.: 19-0328.004 SCALE: AS SHOWN DATE: JUNE 2023 DRAWING: C109			



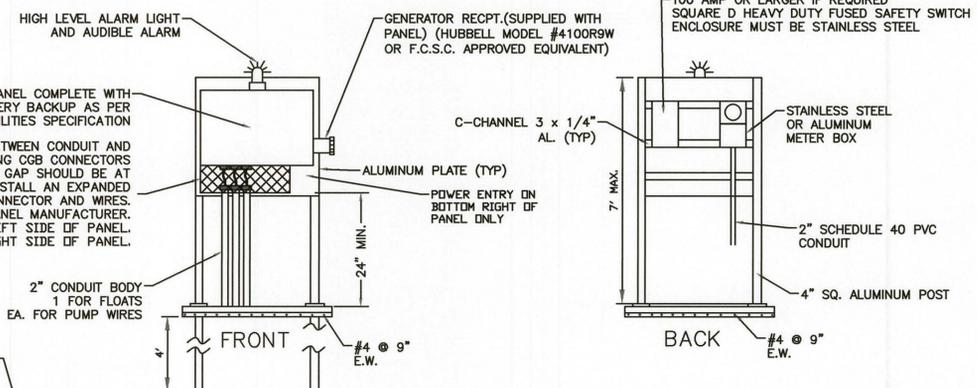
CGB CONNECTOR SCHEMATIC
N.I.S.



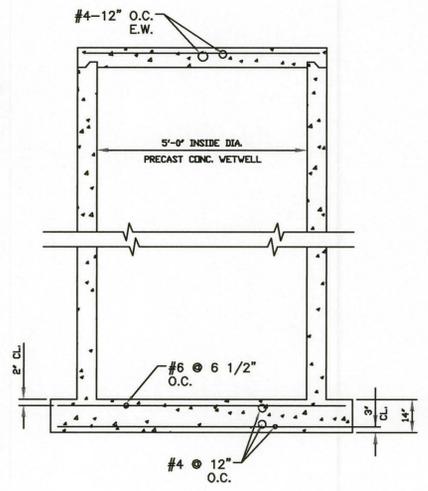
TYPICAL WET WELL PLAN
N.I.S.



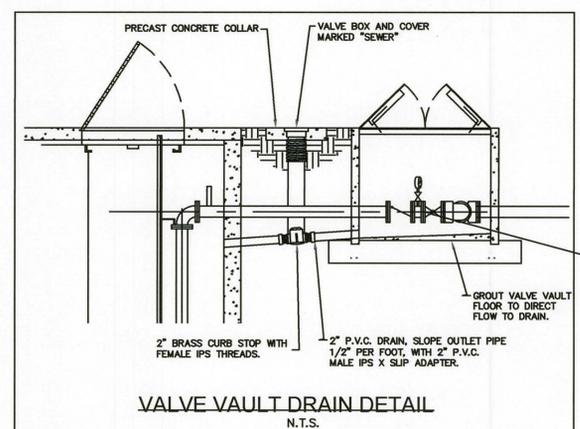
GRINDER LIFT STATION SECTION
N.I.S.



CONTROL PANEL SCHEMATIC
N.T.S.



TOP AND BOTTOM SLAB REINFORCING GRINDER LIFT STATION
N.I.S.



VALVE VAULT DRAIN DETAIL
N.T.S.

PUMPING STATION DATA	
Designation	BARNES XGV 50N2
Pump model	5.25'
Impeller	208/230/460 VOLT
voltage (3 PHASE)	5.0
h.p.	3450
r.p.m.	45
delivery_gpm (High System Head)	50
delivery_gpm (Low System Head)	107
TDH, feet (High System Head)	88
TDH, feet (Low System Head)	20.65
Top elev.	6"
Influent Size	15.93
Inv. Influent	15.93
High level alarm elev.	15.43
Log pump on elev.	14.93
Lead pump on elev.	13.93
Both pumps off elev.	12.43
Bottom elev.	
Force main	

- GENERAL NOTES:**
1. WET WELL AND VALVE VAULT SHALL BE COATED WITH KOP-COAT COAL TAR EPOXY 300-M INSIDE AND OUT. (TWO COATS, 8 MILS EACH)
 2. BASE AND FIRST RISER UNIT TO BE CAST MONOLITHIC.
 3. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE
 4. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.
 5. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
 6. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY FLORIDA COMMUNITY SERVICES.
 7. FLEXIBLE COUPLING IF USED SHALL BE SLEEVE TYPE.
 8. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE 316 STAINLESS STEEL.
 9. ALL ENCLOSURES SHALL BE NEMA 4X RATED.
 10. ALL MECHANICAL JOINT FITTINGS ON PRESSURE PIPE SHALL HAVE BOTH "MEGALUG" TYPE JOINT RESTRAINING GLANDS AND THRUST BLOCKS.
 11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS OF REGIONAL UTILITIES STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
 12. ANY LOCATION WHERE PRESSURE PIPELINE CURVATURE EXCEEDS MANUFACTURER SPECIFICATIONS; APPROPRIATE MECHANICAL JOINT FITTINGS SHALL BE USED.
 13. ALL 2-INCH VALVES SHALL BE BALL TYPE - 2-INCH GATE VALVES SHALL NOT BE USED.
 14. ALL TIE IN TO EXISTING PRESSURIZED PIPELINES SHALL BE BY TAPPING SLEEVE (3 INCH TAP AND LARGER) (OR TAPPING SADDLE, 2 INCH TAP AND SMALLER) AND VALVE W/ VALVE BOX.
 15. DEVELOPERS OF PRIVATE PROJECTS SHALL PROVIDE ALL WETLANDS PERMITS NECESSARY FOR UTILITY CONSTRUCTION.
 16. ALL GRINDER LIFT STATIONS LOCATED IN A PUBLIC RIGHT-OF-WAY MUST BE DESIGNED AND CONSTRUCTED OF REINFORCED CONCRETE AS PER THE SECTION "I" "STRUCTURAL AND OTHER NOTES" DETAILED BELOW.

- STRUCTURAL AND OTHER NOTES:**
1. CONCRETE: DESIGN PER CURRENT EDITION OF A.C.I. (318-83).
CONCRETE STRENGTH @ 28 DAYS IS:
F_c' = 3500 PSI
CONCRETE MIX SHOULD NOT CONTAIN MORE THAN 5 GALLONS OF WATER PER BAG OF CEMENT. AGGREGATES SHOULD HAVE LOW ABSORPTION AND SHOULD BE CLEAN, SOUND AND WELL GRADED. FORM FINE TO COARSE. SAND MUST HAVE 10 TO 20 PERCENT OF PARTICLES PASSING A 50 MESH SIEVE. COARSE AGGREGATE MUST BE GRADED FROM 1/4" UP TO A MAXIMUM OF 2". KEEPING THE CONCRETE CURED FOR AT LEAST 7 DAYS IS ADVISABLE. REINFORCING ASTM A-615, GRADE 60.
 2. CLEAR COVER FOR BASE SLAB - 3" FOR BOTTOM BARS AND - 2" FOR TOP BARS.
 3. CLEAR COVER FOR TOP SLAB - 2" FOR TOP & BOTTOM BARS.
 4. CLEAN SAND BACKFILL WITH A FRICTION FACTOR OF 30' ROUND AND WEIGHING 120 Pcf TO 130 Pcf IS ASSUMED. THE DESIGN IS BASED ON A SUBMERGED CONDITION.
 5. ALL REINFORCING SHALL BE SECURELY HELD IN POSITION WITH STANDARD ACCESSORIES DURING THE PLACING OF THE CONCRETE.
 6. SPLICES IN REINFORCEMENT ARE NOT PERMITTED.
 7. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.
 8. MAXIMUM DESIGN SOIL PRESSURE ASSUMED = 2000 PSF.

- GENERAL NOTES (continued):**
17. PRESSURE GAUGE, ACCURATE TO 1 P.S.I. AND 0 TO 50 P.S.I. RANGE (2 REQUIRED). GAUGES SHALL BE INSTALLED ON A FLANGE TO FLANGE STAINLESS STEEL SPOOL PIECE. SPOOL SHALL BE TAPPED WITH 1/2" NPT HOLE WITH A STAINLESS STEEL NIPPLE AND STAINLESS STEEL BALL VALVE. THE SPOOL SHALL BE INSTALLED BETWEEN THE CHECK VALVE AND EFFLUENT PIPE BALL VALVE. (HIGHER TOP READING RANGE TO BE SUPPLIED IF PUMP SELECTION WARRANTS)

REVISIONS

NO.	DATE	DESCRIPTION

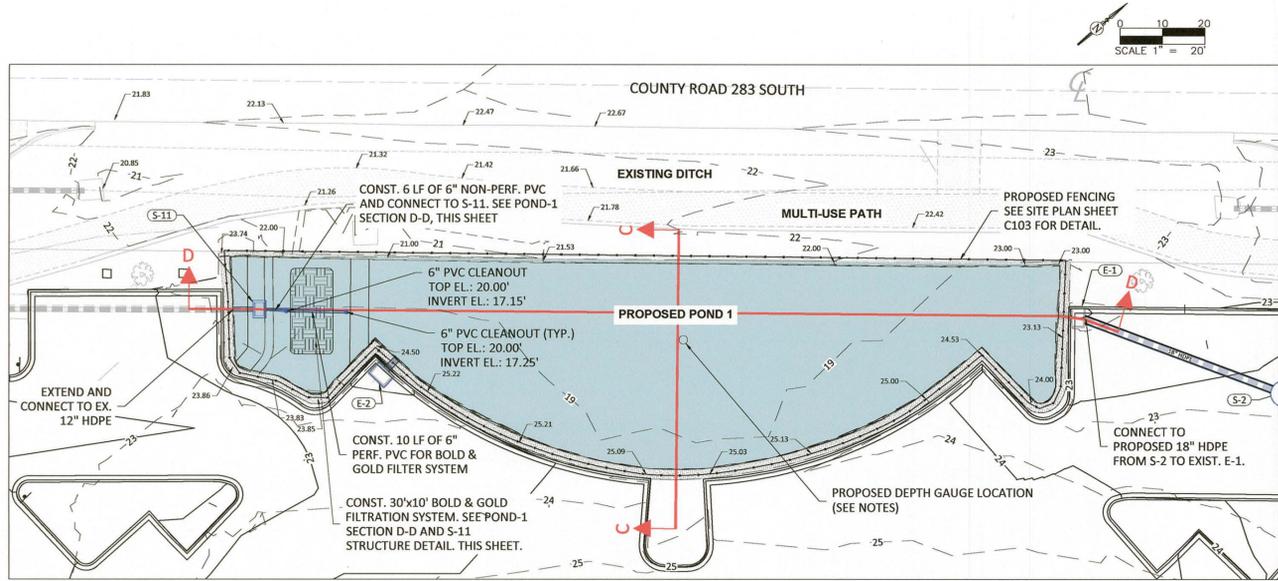
DESIGNED BY: RAJ
DRAWN BY: RAJ
CHECKED BY: MTZ
APPROVED BY: BRL

CONSTRUCTION PLANS FOR GRAYTON BEACH TRANSIT FACILITY
COUNTY HIGHWAY 283 SOUTH
SANTA ROSA BEACH 32459

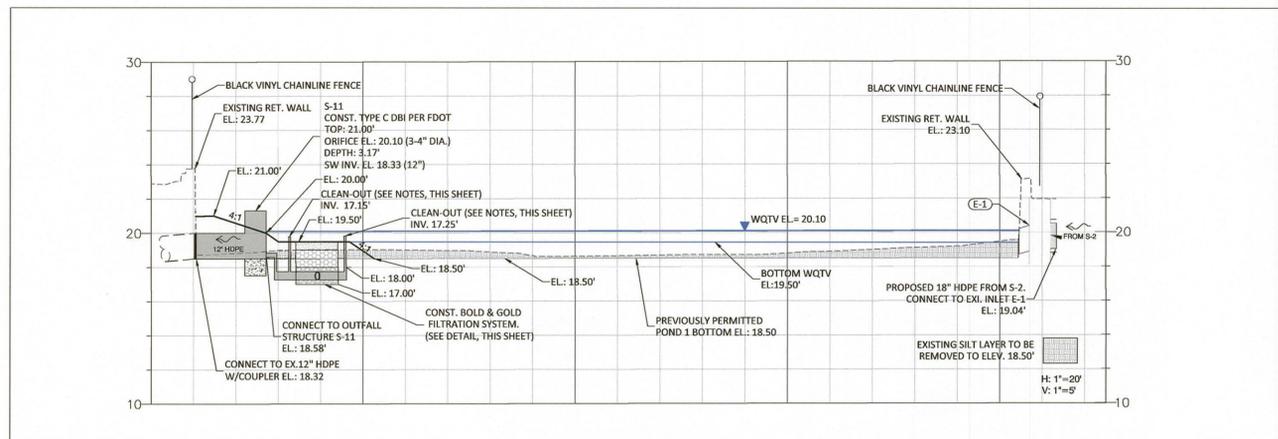
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1625 SUMMIT LAKE DRIVE
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Phone: 850.582.9800 WWW.DRMP.COM

DRMP, Inc.
Professional Engineer
L. J. LAMIN R. LEMMON
FLORIDA LICENSE NO. 78674
9-22-2004
BENJAMIN L. LAMIN, P.E.
State of Florida # 78674
PROJECT NO.: 19-0328.004
SCALE: AS SHOWN
DATE: JUNE 2023
DRAWING: C110

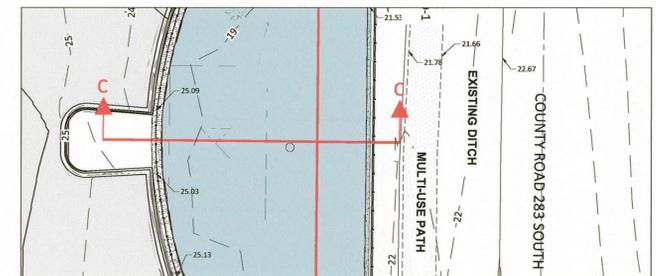
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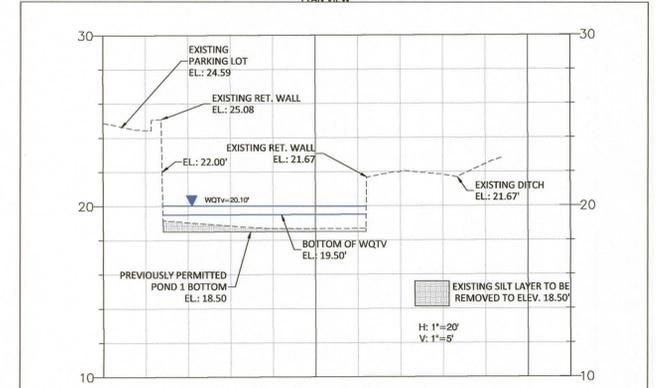
POND 1 - SECTION D-D
PLAN VIEW



POND 1 - SECTION D-D
PROFILE VIEW



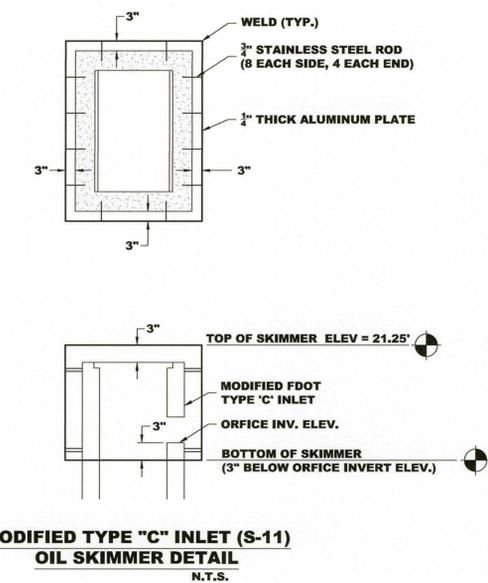
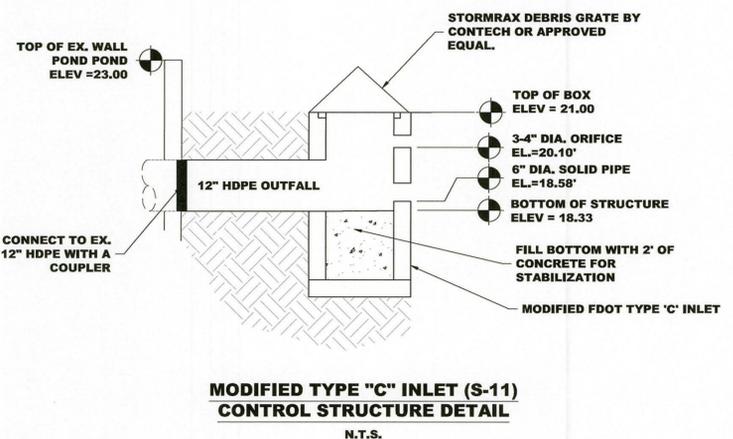
POND 1 - SECTION C-C
PLAN VIEW



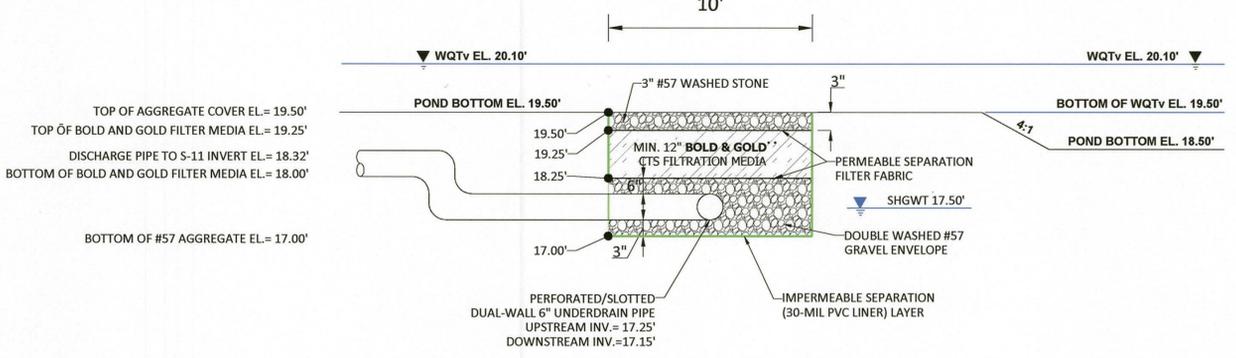
POND 1 - SECTION C-C
PROFILE VIEW

GENERAL NOTES:

- PIPE FOR CLEAN OUTS AND CONNECTIONS OUTSIDE THE BOLD AND GOLD FILTER SYSTEM SHALL BE NON-PERFORATED PVC PIPE OF EQUAL DIAMETER.
- BOLD & GOLD FILTER SYSTEM SHALL BE CONSTRUCTED PER MANUFACTURER STANDARD SPECIFICATIONS.
- ALL POND SIDE SLOPES TO BE SODDED AND SLOPES GREATER THAN 3:1 (H:V) SHALL BE PINNED. POND BOTTOM TO BE GRADED FLAT AND WITHOUT SOD.
- AFTER THE INTERIOR SIDE SLOPES AND POND BOTTOM HAVE BEEN GRADED TO FINAL DESIGN SPECIFICATIONS (LINES AND GRADES), THE EXCESS SOIL AND UNSUITABLE MATERIAL SHALL BE CAREFULLY EXCAVATED AND REMOVED FROM THE POND SO THAT ALL ACCUMULATED SILTS, CLAYS, ORGANICS, AND OTHER FINE SEDIMENT MATERIAL ARE REMOVED FROM THE RETENTION AREA. THE EXCAVATED MATERIAL SHALL BE DISPOSED OF BEYOND THE PROJECT AREA.
- ONCE THE POND HAS BEEN EXCAVATED TO FINAL GRADE, THE ENTIRE POND BOTTOM SHALL BE DEEP RAKED AND LOOSENED FOR OPTIMAL INFILTRATION.
- NO FILL OR OTHER CONSTRUCTION MATERIAL SHALL BE STORED AND/OR PLACED WITHIN THE LIMITS OF THE POND.



S-11 STRUCTURE DETAIL
N.T.S.



BOLD AND GOLD FILTER DETAIL
N.T.S.

POND DRAWDOWN NOTES:

- ALL PIPE FOR CLEAN OUTS AND CONNECTIONS OUTSIDE THE BOLD AND GOLD FILTER SYSTEM SHALL BE NON-PERFORATED PVC PIPE OF EQUAL DIAMETER.
- BOLD & GOLD FILTER SYSTEM SHALL BE CONSTRUCTED PER MANUFACTURER STANDARD SPECIFICATIONS.
- IN ORDER TO FACILITATE THE REQUIRED DRAWDOWN TEST, A DEPTH GAUGE, STAFF GAUGE OR EQUIVALENT SHALL BE INSTALLED AND MAINTAINED INSIDE EACH FILTER POND. THE GAUGE SHALL MEET THE FOLLOWING GUIDELINES:
- THE GAUGE SHALL BE INSTALLED IN THE POND BOTTOM OR ANY PERMANENT VERTICAL SURFACE EXTENDING FROM THE POND BOTTOM, AND RISE VERTICALLY TO A HEIGHT EQUAL TO THE TREATMENT VOLUME STAGE ELEVATION (WQTV), PLUS ONE FOOT.
- THE GAUGE SHALL BE MARKED IN ONE TENTH FOOT INCREMENTS WITH VERTICAL ELEVATIONS INDICATED AT ONE FOOT INTERVALS, OR BE MARKED WITH A SIMILAR STYLE APPROVED BY THE DISTRICT. THE ELEVATION REPRESENTING THE TREATMENT VOLUME STAGE SHALL BE CLEARLY INDICATED, AND SHALL BE VERIFIED BY SURVEY.
- THE GAUGE SHALL BE MOUNTED AND STABILIZED TO PREVENT MOVEMENT DUE TO REASONABLY ANTICIPATED CONDITIONS.

CLEANOUT NOTES:

- ALL B&G FILTER SYSTEM CLEAN-OUTS SHOWN ON THE CONSTRUCTION PLANS SHALL MEET THE FOLLOWING:
- VERTICAL PORTIONS SHALL BE NON-PERFORATED
 - CLEAN-OUT CAP SHALL BE WATER-TIGHT
 - CLEAN-OUTS SHALL INCORPORATE FITTINGS (WYE FITTINGS OR BENDS) THAT HAVE NO LESS THAN 45 DEGREES AS MEASURED FROM THE UPSTREAM END OF THE FILTER PIPES
 - CLEAN-OUT TOPS SHALL BE A MIN. 12" ABOVE FINISHED GRADE, BE PROVIDED EVERY 400 FEET, AT EVERY BEND, AND AT THE TERMINUS.

DEPTH GAUGE NOTES:

- IN ORDER TO FACILITATE THE REQUIRED DRAWDOWN TEST, A DEPTH GAUGE, STAFF GAUGE OR EQUIVALENT SHALL BE INSTALLED AND MAINTAINED INSIDE EACH FILTER POND. THE GAUGE SHALL MEET THE FOLLOWING GUIDELINES:
- THE GAUGE SHALL BE INSTALLED IN THE POND BOTTOM OR ANY PERMANENT VERTICAL SURFACE EXTENDING FROM THE POND BOTTOM, AND RISE VERTICALLY TO A HEIGHT EQUAL TO THE TREATMENT VOLUME STAGE ELEVATION, PLUS ONE FOOT.
 - THE GAUGE SHALL BE MARKED IN ONE TENTH FOOT INCREMENTS WITH VERTICAL ELEVATIONS INDICATED AT ONE FOOT INTERVALS, OR BE MARKED WITH A SIMILAR STYLE APPROVED BY THE DISTRICT. THE ELEVATION REPRESENTING THE TREATMENT VOLUME STAGE SHALL BE CLEARLY INDICATED, AND SHALL BE VERIFIED BY SURVEY.
 - THE GAUGE SHALL BE MOUNTED AND STABILIZED TO PREVENT MOVEMENT DUE TO REASONABLY ANTICIPATED CONDITIONS.

REVISIONS	NO.	DATE	DESCRIPTION
DESIGNED BY	RAJ		
DRAWN BY	RAJ		
CHECKED BY	MTZ		
APPROVED BY	BRL		

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

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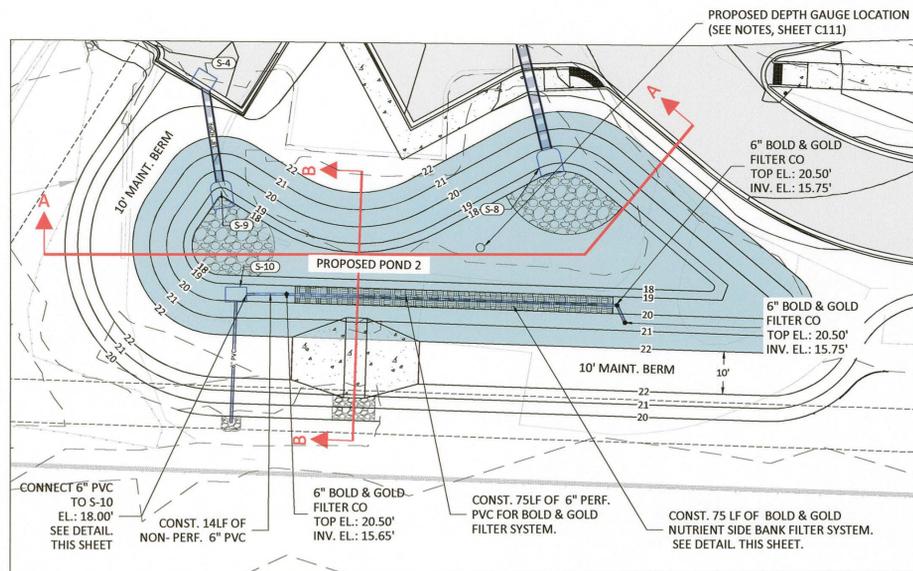
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 1700 W. UNIVERSITY BLVD., SUITE 100
 JACKSONVILLE, FL 32217
 Phone: 850.562.9800 www.drmp.com

DRMP Inc.
 BENJAMIN R. LINDEN
 LICENSED PROFESSIONAL ENGINEER
 No. 78674
 3-22-2004
 STATE OF FLORIDA
 BENJAMIN R. LINDEN, P.E.
 State of Florida # 78674

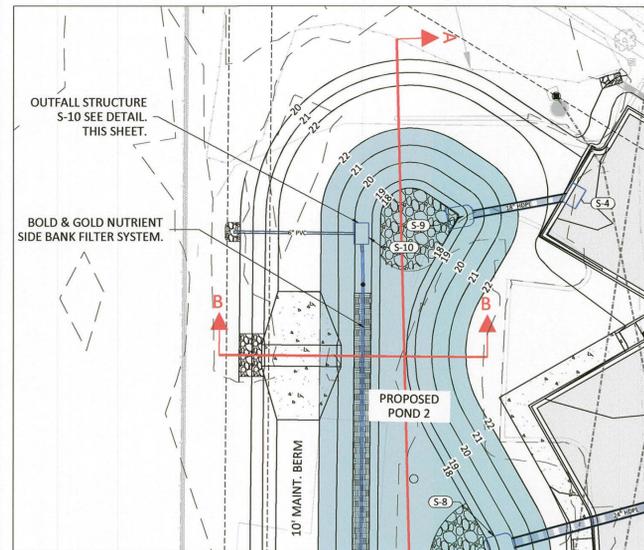
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 SCALE: AS SHOWN
 DATE: JUNE 2023
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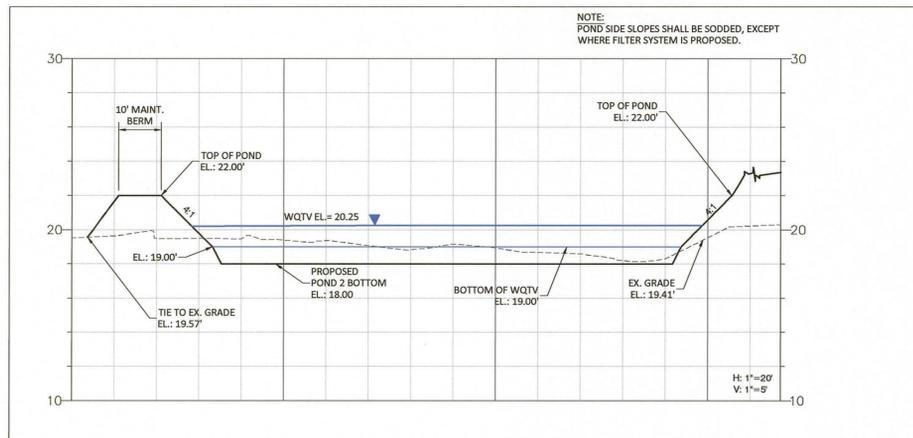
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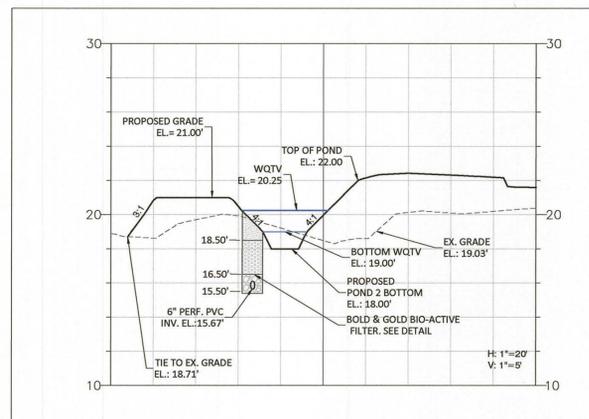
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PLAN VIEW



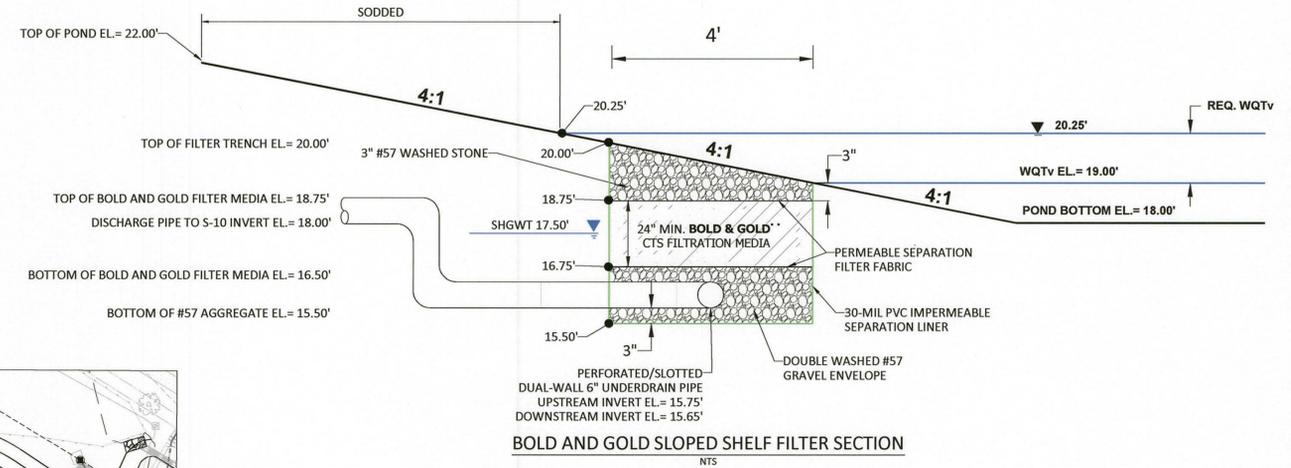
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PLAN VIEW



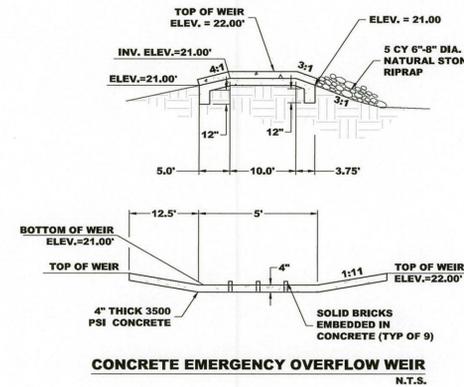
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PROFILE VIEW



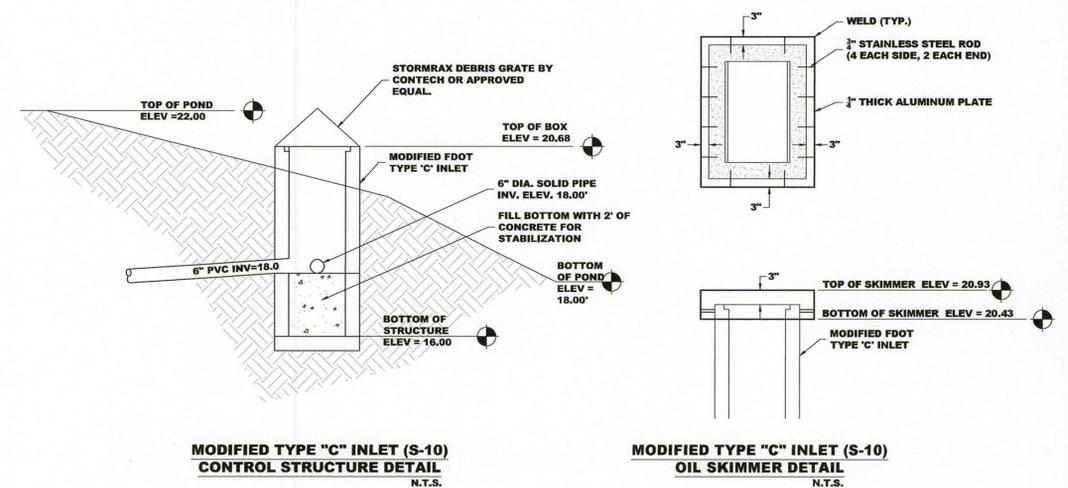
POND 2 - SECTION B-B
PROFILE VIEW



BOLD AND GOLD SLOPED SHELF FILTER SECTION
N.T.S.



CONCRETE EMERGENCY OVERFLOW WEIR
N.T.S.



MODIFIED TYPE "C" INLET (S-10)
CONTROL STRUCTURE DETAIL
N.T.S.

MODIFIED TYPE "C" INLET (S-10)
OIL SKIMMER DETAIL
N.T.S.

NOTE:

NOTES (GENERAL NOTES, POND DRAWDOWN NOTES, CLEANOT NOTES, DEPTH GAUGE NOTES) FOUND ON SHEET C111 ALSO APPLY TO POND #2.

NO.	DATE	DESCRIPTION	BY

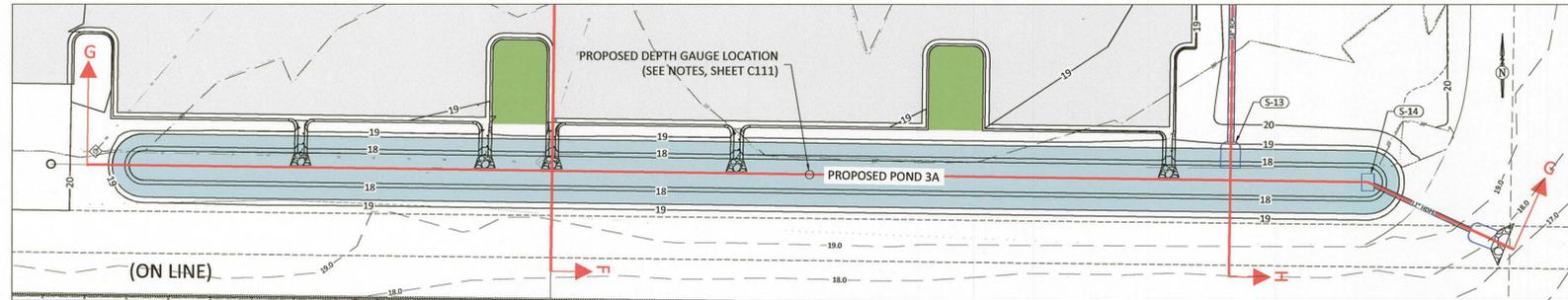
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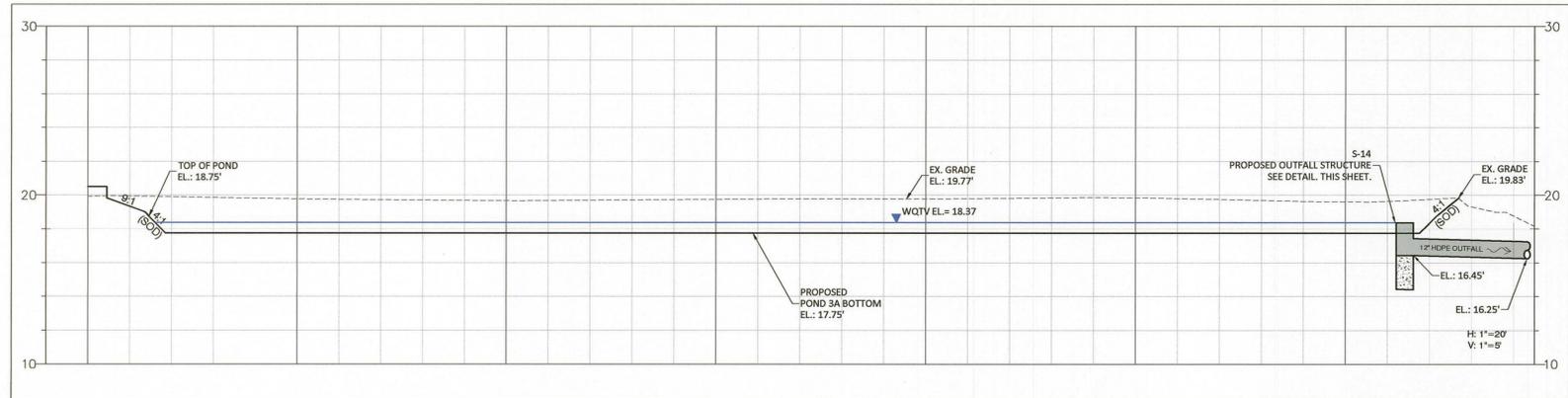
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No. 78674
3-22-2024
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Benjamin R. Johnson, P.E.
State of Florida # 78674
PROJECT NO.:
19-0328.004
SCALE:
AS SHOWN
DATE:
JUNE 2023
DRAWING:
C112

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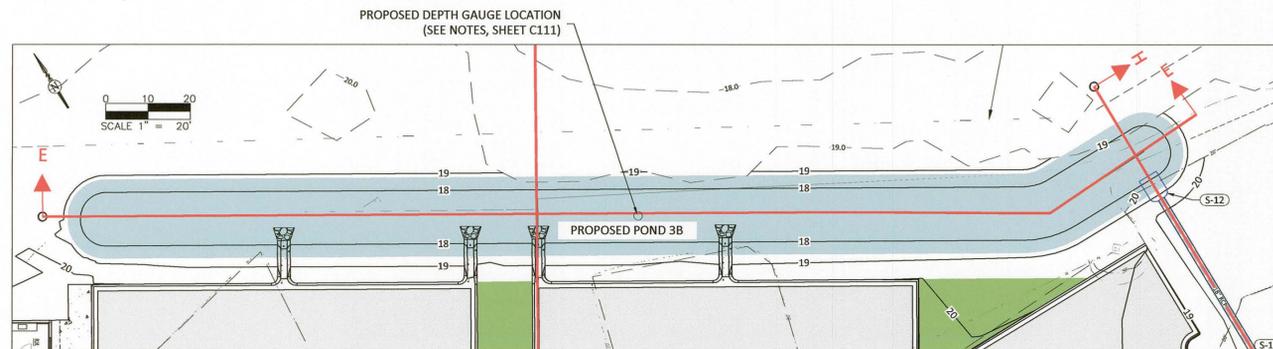


POND 3A- SECTION H-H
PLAN VIEW

NOTE:
POND SIDE SLOPES SHALL BE SODDED.
SCALE 1" = 20'

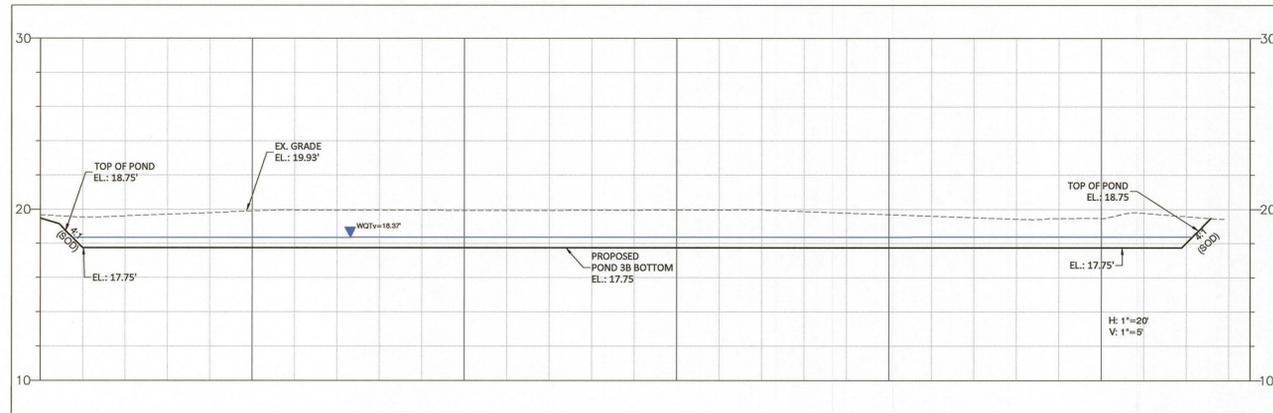


POND 3A- SECTION G-G
PROFILE VIEW

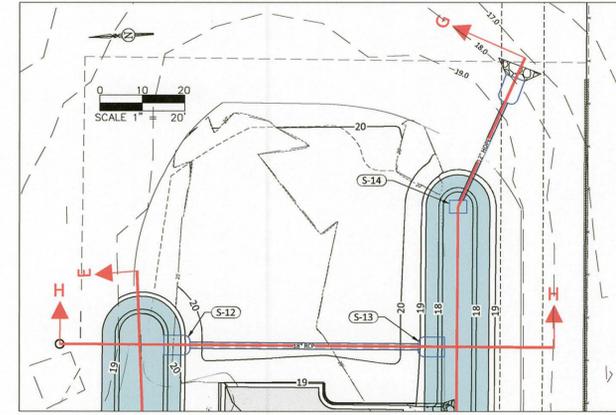


POND 3B- SECTION E-E
PLAN VIEW

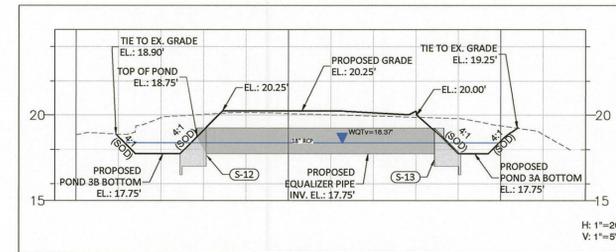
NOTE:
POND SIDE SLOPES SHALL BE SODDED.



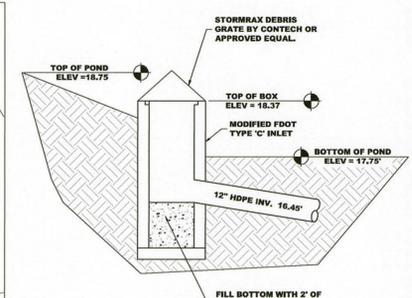
POND 3B- SECTION E-E
PROFILE VIEW



POND 3B- SECTION H-H
PLAN VIEW

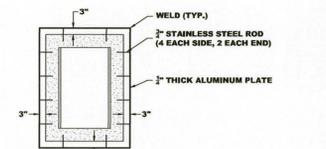


POND 3- SECTION H-H
PROFILE VIEW

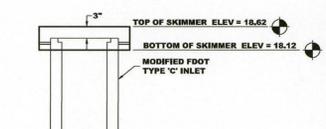


MODIFIED TYPE "C" INLET (S-14)
CONTROL STRUCTURE DETAIL
N.T.S.

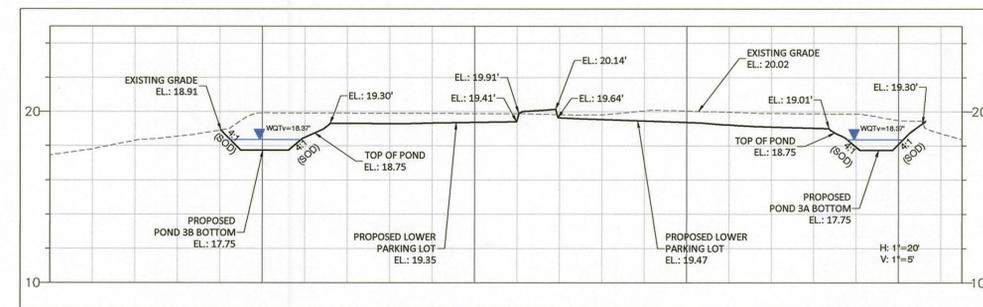
STRUCTURE S-14 DETAIL
N.T.S.



MODIFIED TYPE "C" INLET (S-14)
OIL SKIMMER DETAIL
N.T.S.



POND 3- SECTION F-F
PLAN VIEW



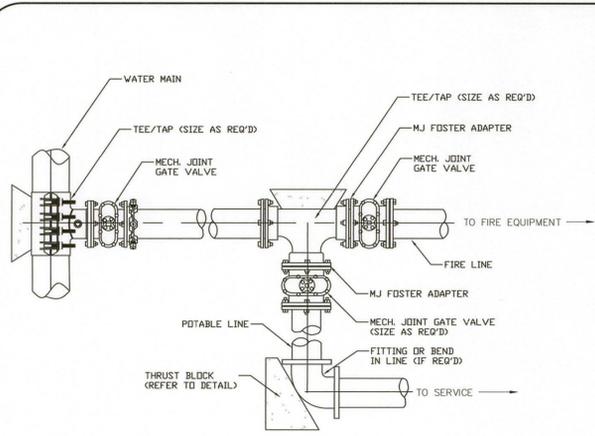
POND 3- SECTION F-F
PROFILE VIEW

NOTE:

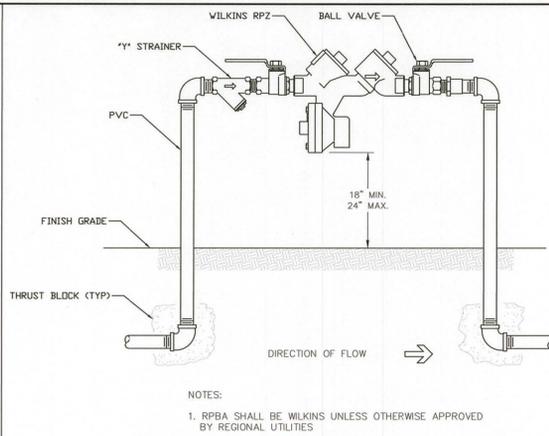
NOTES (GENERAL NOTES, POND DRAWDOWN NOTES, DEPTH GAUGE NOTES) FOUND ON SHEET C111 ALSO APPLY TO POND #3A & 3B.

REVISIONS	NO.	DATE	DESCRIPTION	BY			
DESIGNED BY	RAU	DRAWN BY	RAU	CHECKED BY	MTZ	APPROVED BY	BRL
POND 3A & 3B SECTIONS AND DETAILS							
CONSTRUCTION PLANS FOR GRAYTON BEACH TRANSIT FACILITY COUNTY HIGHWAY 283 SOUTH SANTA ROSA BEACH 32459							
DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS							
Certificate of Authorization No. 2648 STATE OF FLORIDA TALLAHASSEE, FL 32317 Phone: 850.562.9600 www.drmp.com							
PROJECT NO.: 19-0328.004 SCALE: AS SHOWN DATE: JUNE 2023 DRAWING: C113							

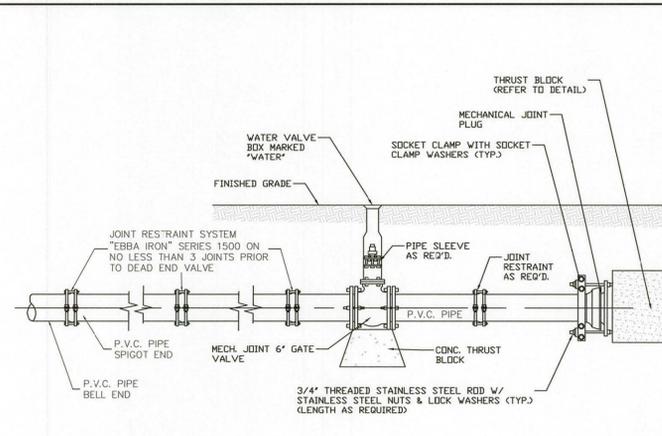
PA\Projects\19-0328.004-Walton_County_PES_Grayton_Beach_Tronak\CADD\01-DWG\19-0328.004 REGIONAL UTILITIES DETAILS.dwg Plotted: Mar. 13, 2024 - 3:09pm by rjermigen



1 CONNECTION FOR FIRE AND WATER SERVICE (FOR BORED WATER MAIN SITUATIONS ONLY) N.T.S.



2 REDUCED PRESSURE BACKFLOW ASSEMBLY 3/4\"-2\" N.T.S.



3 DEAD END STUB OUT N.T.S.

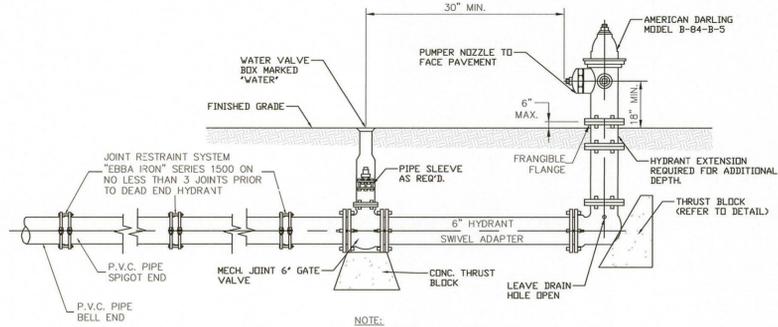
GENERAL NOTES - POTABLE WATER CONSTRUCTION
1. CONTRACTOR SHALL COORDINATE INSTALLATION OF POTABLE WATER MAINS WITH ALL OTHER UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
2. HYDROSTATIC TESTS, LEAKAGE TESTS, DISINFECTION, AND BACTERIOLOGICAL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE WRITTEN CONSTRUCTION SPECIFICATION OF REGIONAL UTILITIES AND ALL APPLICABLE F.D.E.P. AND AWWA REQUIREMENTS.
3. NO POTABLE WATER MAIN CONSTRUCTION SHALL COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN APPROVED AND A PRE-CONSTRUCTION CONFERENCE HELD WITH REGIONAL UTILITIES STAFF.
4. PROVIDE LOCKS, IN ACCORDANCE WITH THE WRITTEN CONSTRUCTION SPECIFICATIONS OF REGIONAL UTILITIES, ON ALL CURB STOPS.
5. CONTRACTOR SHALL NOTIFY REGIONAL UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. UTILITY REPRESENTATIVES WILL PERFORM ALL TAPS OF EXISTING LINES AND MUST WITNESS ALL TIES OF AND TESTS OF NEW LINES.
6. IT IS REQUIRED THAT ALL NEW AND RELOCATED WATER SERVICES AND PLUMBING SHALL BE IN CONFORMANCE WITH STATE AND FEDERAL REGULATIONS PERTAINING TO THE CONTROL OF LEAD AND COPPER.
7. CONTRACTOR SHALL PROVIDE A COMPOSITE METER BOX WITH A COMPOSITE LID AT THE CURB STOP OF ALL WATER SERVICES AS SHOWN IN THE TYPICAL WATER METER INSTALLATION DETAIL. MATERIALS SHALL BE IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS OF REGIONAL UTILITIES. METER IS TO BE SET BY REGIONAL UTILITIES.
8. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS IN ACCORDANCE WITH REGIONAL UTILITIES SPECIFICATIONS.
9. THE LOCATION OF ALL WATER SERVICE STUBS ARE TO BE MARKED BY THE LETTER "W" SCRIBED A MINIMUM OF 2\" HIGH AND 1/4\" DEEP IN TOP OF CURB. IF NO CURBING IS INSTALLED A 3\" SQUARE STEEL TAG INSCRIBED WITH A 2\" LETTER "W" IS TO BE ATTACHED TO THE STREET PAVEMENT.
10. A 4\" WATER BALL MARKER, AS MANUFACTURED BY 3M PART NO. 1403, SHALL BE PLACED AT ALL INLINE VALVES ALONG WATER MAIN, AT ALL CORP STOP LOCATIONS, AND IN ALL METER BOXES. MAXIMUM DEPTH OF MARKER BALL IS 36\".
11. ALL MECHANICAL JOINTS SHALL USE MEGA-LUG RESTRAINT TYPE RETAINING GLANDS.
12. MINIMUM SEPARATION BETWEEN WATER OR SEWER AND ELECTRICAL CONDUITS OR ELECTRICAL LINES SHALL BE 72\" MINIMUM HORIZONTAL & 18\" VERTICAL WITH ELECTRICAL BEING BELOW THE WATER AND SEWER LINES. IN CASES WHERE 18\" VERTICAL SEPARATION CAN NOT BE MET, 96\" OF HORIZONTAL SEPARATION SHALL BE REQUIRED.
13. ALL MECHANICAL JOINT FITTINGS ON PRESSURE PIPE SHALL HAVE BOTH "MEGALUG" TYPE JOINT RESTRAINING GLANDS AND THRUST BLOCKS.
14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS OF REGIONAL UTILITIES STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
15. ANY LOCATION WHERE PRESSURE PIPELINES CURVATURE EXCEEDS MANUFACTURERS' SPECIFICATIONS; APPROPRIATE MECHANICAL JOINT FITTINGS SHALL BE USED.
16. ALL 2-INCH VALVES SHALL BE BALL TYPE. 2-INCH GATE VALVES SHALL NOT BE USED.
17. ALL THE TIE IN TO EXISTING PRESSURIZED PIPELINES SHALL BE BY TAPPING SLEEVE (3 INCH TAP AND LARGER) (OR TAPPING SADDLE, 2 INCH TAP AND SMALLER) AND VALVE.
18. DEVELOPERS OF PRIVATE PROJECTS SHALL PROVIDE ALL WETLANDS PERMITS NECESSARY FOR UTILITY CONSTRUCTION.
19. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF REGIONAL UTILITIES' STANDARD SPECIFICATIONS.
20. JOINT RESTRAINTS SHALL BE REQUIRED ON ALL WATER MAINS LOCATED IN PAVED AREAS AND WETLANDS.
21. ALL WATER TAPS SHALL BE LOCATED OUT FROM UNDER PROPOSED FUTURE PAVEMENT.
22. WATER SERVICES SHALL BE LOCATED ABOVE STORMWATER EXFILTRATION SYSTEMS.
23. POTABLE WATER MAINS SHALL BE LOCATED ABOVE STORMWATER EXFILTRATION SYSTEMS.
24. PRIOR TO A FINAL INSPECTION, ALL LOT CORNERS SHALL BE STAKED BY THE SURVEYOR. INSPECTOR WILL NOT PERFORM FINAL INSPECTION IF STAKING IS INCOMPLETE.

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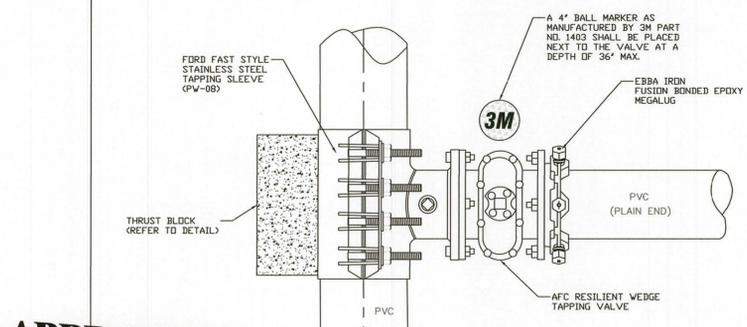
BACKFLOW PREVENTORS
1. ALL WATER SERVICE LINES SHALL BE REQUIRED TO HAVE A BACKFLOW DEVICE PURSUANT TO REGIONAL UTILITIES SPECIFICATIONS.
2. ALL FIRE LINES SHALL HAVE A DOUBLE DETECTOR CHECK VALVE ASSEMBLY WITH A 5/8\" BYPASS METER. THE METER SHALL BE PURCHASED FROM REGIONAL UTILITIES.
3. REDUCED PRESSURE ZONE BACKFLOW ASSEMBLIES (RPZ) ARE REQUIRED FOR ALL COMMERCIAL, HIGH HAZARD WATER USES, AND FOR HOUSEHOLDS WITH RECLAIM WATER IRRIGATION SERVICES.
4. ALL BACKFLOW PREVENTORS SHALL BE OF THE TYPE REQUIRED BY F.D.E.P. AWWA AND NFPA CODES AND MUST BE PER REGIONAL UTILITIES BACKFLOW PREVENTION MANUAL.
5. ALL SWIMMING POOLS SHALL HAVE RPZ BACKFLOW PREVENTORS.
6. ALL WATER SERVICES 1-1/2\" AND LARGER ARE REQUIRED TO HAVE AN RPZ BACKFLOW PREVENTOR REGARDLESS IF RESIDENTIAL OR COMMERCIAL.

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
Certification No. 2648
1930 N. W. 11th Ave., Suite 100
Fort Lauderdale, FL 33309
Phone: 850.562.9600 www.drmp.com

DRMP, Inc.
Benjamin R. Leininger
Professional Engineer
No. 78674
3-22-2004
State of Florida # 78674
Project No.: 19-0328.004
Scale: AS SHOWN
Date: JUNE 2023
Drawing: C114

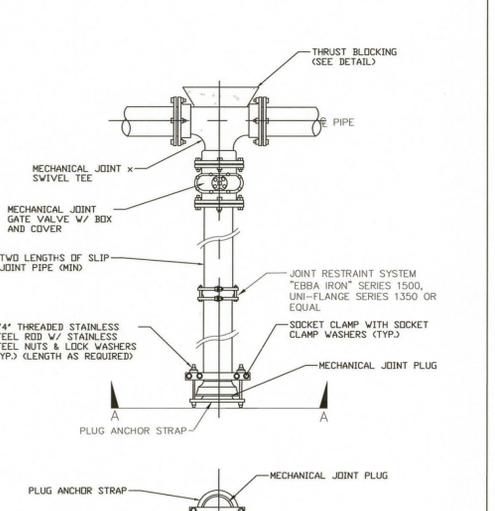


4 DEAD END FIRE HYDRANT INSTALLATION N.T.S.

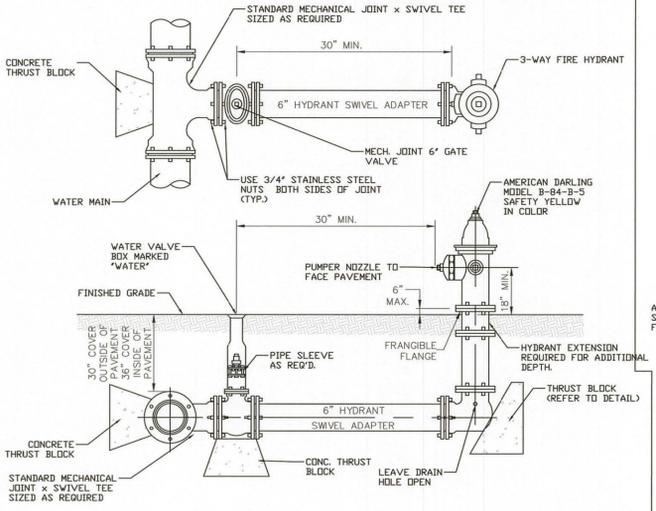


5 WATER HOT TAP 3\" AND LARGER N.T.S.

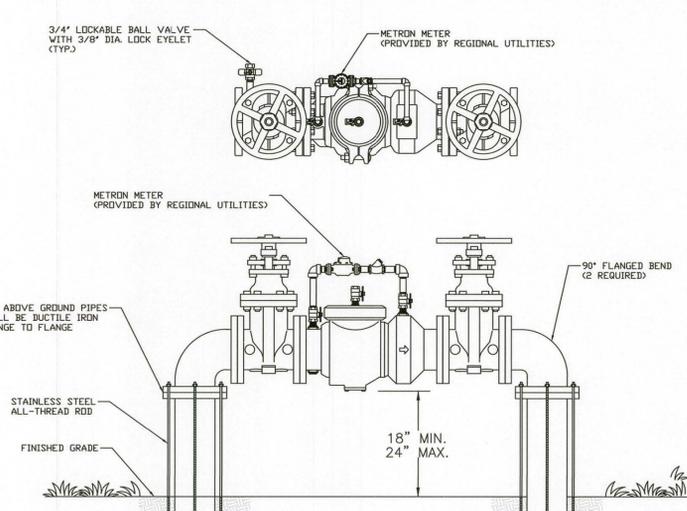
APPROVED FOR 2023



6 DEAD END STUB DETAIL N.T.S.



7 TYPICAL FIRE HYDRANT INSTALLATION N.T.S.

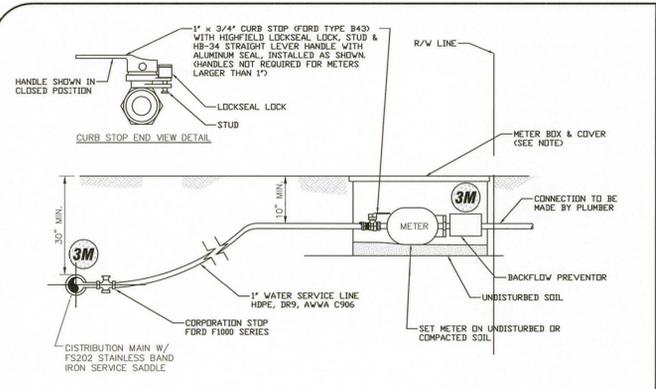


8 FIRE LINE BACK FLOW PREVENTOR N.T.S.

Table with columns: NO., DATE, APPR., DESIGNED BY, DRAWN BY, CHECKED BY, APPROVED BY, RAJ, MTZ, BRL. Includes project name: POTABLE WATER STANDARD DETAILS, sheet title: W-1, and drawing number: C114.

REGIONAL UTILITIES WATER DETAILS
CONSTRUCTION PLANS FOR GRAYTON BEACH TRANSIT FACILITY
COUNTY HIGHWAY 783 SOUTH SANTA ROSA BEACH 32459
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

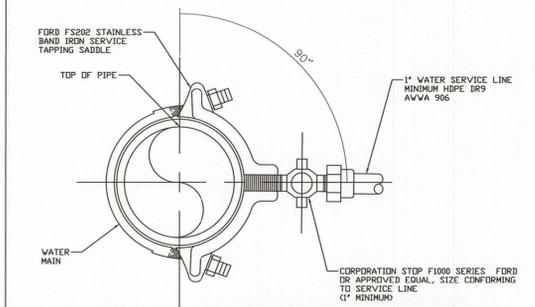
P:\Projects\19-0328.004-Walton_County_PES_Grayton_Beach_Transit\CADD\01-DWG\19-0328.004 REGIONAL UTILITIES DETAILS.dwg Plotted: Mar. 13, 2024 - 3:09pm by rjarnigan



3M A 4" BALL MARKER AS MANUFACTURED BY 3M PART NO.1403 SHALL BE PLACED NEXT TO CORPORATION STOP AND IN THE METER BOX AT A DEPTH OF 36" MAX.

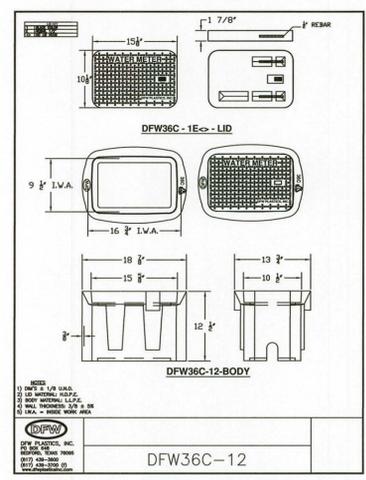
- NOTES:**
- 5/8", 3/4", & 1" METERS SHALL BE INSTALLED IN DFW PLASTICS DFW36C-12 COMPOSITE METER BOX WITH DFW36-1A LID.
 - 1-1/2" & 2" METERS SHALL BE INSTALLED IN DFW PLASTICS DFW1730C-12 COMPOSITE METER BOX WITH DFW1730C-1A LID.
 - CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ONE METER BOX PER LOT AND THE WATER SERVICE WITH CURB STOP AND LOCKSEAL LOCK SHALL BE STUBBED IN BOX.
 - CONTRACTOR SHALL COORDINATE INSTALLATION OF POTABLE WATER SERVICES WITH ALL OTHER UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
 - NO METERS WILL BE SET UNTIL REGIONAL UTILITIES HAS RECEIVED CLEARANCE TO PLACE THE SYSTEM INTO SERVICE FROM F.D.E.P.
- IN ORDER TO RECEIVE CLEARANCE FROM F.D.E.P. THE FOLLOWING PROCEDURE MUST BE COMPLETED:
- CONTRACTOR MUST PERFORM PRESSURE TEST, FLUSH AND ARRANGE FOR A FINAL INSPECTION. PRESSURE TEST AND FLUSH MUST BE WITNESSED BY A REGIONAL UTILITIES INSPECTOR. UPON PASSING THE PRESSURE TEST AND FINAL INSPECTION, REGIONAL UTILITIES WILL TAKE BACTERIOLOGICAL TEST. THE ENGINEER FOR THE PROJECT MUST SUBMIT THE BACTERIOLOGICAL TEST RESULTS, AS-BUILT DRAWINGS AND CERTIFICATION OF COMPLETION FORMS TO REGIONAL UTILITIES. REGIONAL UTILITIES WILL THEN SIGN THE COMPLETION FORMS AND FORWARD THEM TO F.D.E.P. WITH COPIES OF THE BACTERIOLOGICAL TEST RESULTS. UPON THEIR REVIEW AND APPROVAL, F.D.E.P. WILL SEND REGIONAL UTILITIES A LETTER GRANTING PERMISSION FOR THE SYSTEM TO BE PLACED INTO OPERATION.

1 TYPICAL WATER METER INSTALLATION
N.T.S.

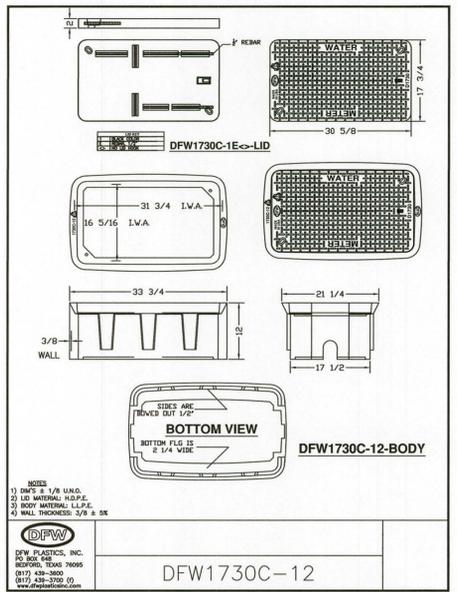


2 TYPICAL WATER SERVICE CONNECTION
N.T.S.

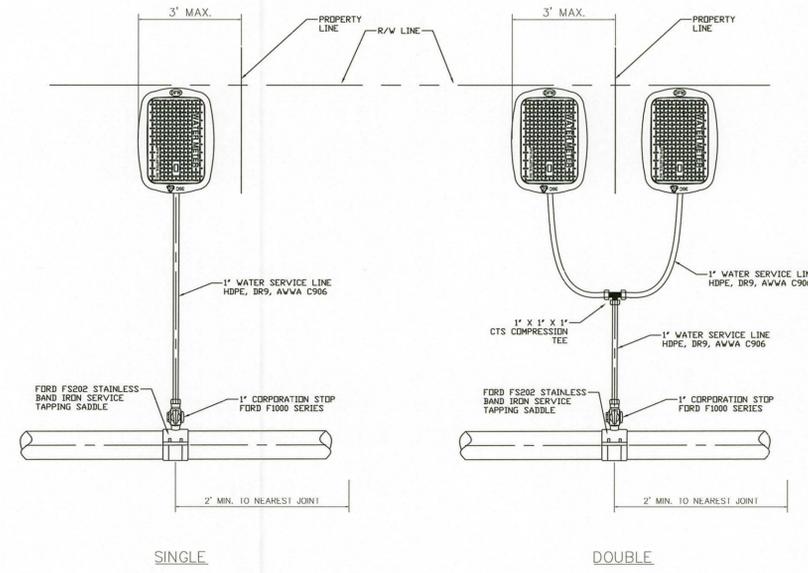
3 DETAIL NOT IN USE-SEE DETAIL 5
N.T.S.



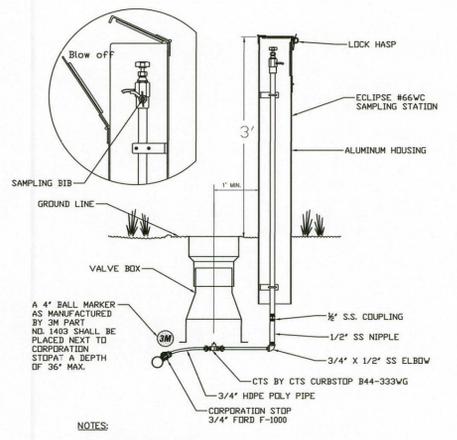
4 COMPOSITE METER BOX WITH TRAFFIC RATED COMPOSITE LID 3/4" - 1" METERS DFW PLASTICS, INC.
N.T.S.



7 COMPOSITE METER BOX WITH TRAFFIC RATED COMPOSITE LID 1-1/2" - 2" METERS DFW PLASTICS, INC.
N.T.S.

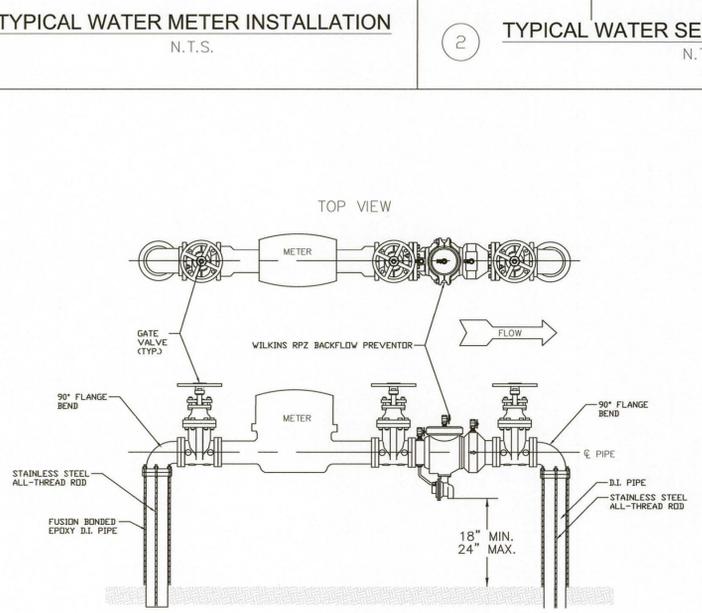


5 TYPICAL WATER SERVICE INSTALLATIONS
N.T.S.
APPROVED FOR 2023



- NOTES:**
- SAMPLING STATIONS SHALL BE 1' BURY, WITH A 1/2" MP INLET, AND A 3/4" UNTHREADED BLOW OFF.
 - ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NON-REMOVABLE 6" SQUARE ALUMINUM HOUSING. ALL OPENINGS SHALL BE HINGED.
 - WHEN OPEN, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND WATER WILL FLOW IN AN ALL STAINLESS STEEL WATERWAY.
 - ALL WORKING PARTS SHALL BE OF STAINLESS STEEL AND SERVICEABLE FROM ABOVE GROUND WITH NO DIGGING OR REPLACEMENT NEEDED.
 - A SLOW TURNING VALVE WITH 6 TURNS TO OPEN WILL CONTROL THE WATER FLOW, AND BE LOCATED AFTER THE SAMPLING BIB.
 - AS MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS MO. 63102. MODEL # 66VC, OR APPROVED EQUAL.

8 TYPICAL WATER SAMPLING STATION
N.T.S.



- NOTES:**
- DUCTILE IRON PIPE SHALL BE COMPATIBLE WITH METER SIZE.
 - DUCTILE IRON PIPE SHALL CONFORM TO REGIONAL UTILITIES STANDARDS AND SPECIFICATION.
 - ENTIRE ASSEMBLY MUST BE INSULATED.
 - THE BACKFLOW PREVENTOR SHALL BE LOCATED DOWN STREAM FROM THE METER.
 - ALL ABOVE GROUND PIPE AND FITTINGS SHALL BE FLANGED.

6 3" OR LARGER ABOVE GROUND METER & RPZ BACKFLOW INSTALLATION
N.T.S.

NO.	DATE	APPR.	REVISION

REGIONAL UTILITIES
OPERATED BY FLORIDA COMMUNITY SERVICES
CORPORATION OF WALTON COUNTY INC.
4432 HWY 88 E
Santa Rosa Beach, FL 32459
Phone: (850) 231-5114
Fax: (850) 231-9696

POTABLE WATER
STANDARD DETAILS

PROJECT NAME:	CONSTRUCTION PLANS FOR GRAYTON BEACH TRANSIT FACILITY
SHEET TITLE:	POTABLE WATER STANDARD DETAILS
DRWN BY:	CHECKED BY:
RT	RAD
PROJECT NO.:	000-000
WORK ORDER:	00.0000
DRAWING SCALE:	1" = XX'
PLOT DATE:	
SHEET NO. X OF XX	
SHEET:	W-2

REVISIONS

NO.	DATE	APPR.	REVISION

DESIGNED BY: RAJ
DRAWN BY: RAJ
CHECKED BY: MTZ
APPROVED BY: BRL

REGIONAL UTILITIES WATER DETAILS

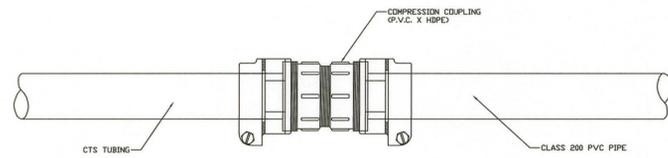
CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
COUNTY HIGHWAY 283 SOUTH
SANTA ROSA BEACH 32459

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
Certificate of Authorization No. 2648
1625 SUMMIT LAKE DRIVE
SANTA ROSA BEACH, FL 32459
Phone: (850) 582-9600 WWW.DRMP.COM

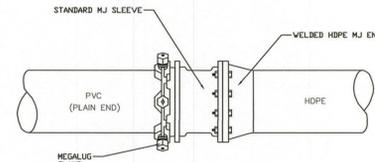
DRMP, Inc.
Professional Engineer
No. 178574
5-22-2004
STATE OF FLORIDA
Benjamin A. Smith, P.E.
State of Florida # 78574
PROJECT NO.: 19-0328.004
SCALE: AS SHOWN
DATE: JUNE 2023
DRAWING: C115

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

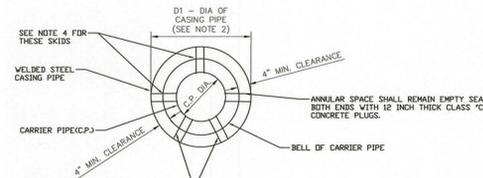
P:\Projects\19-0328\004_Waiton_County_PES_Grayton_Beach_Transit\CADD\01-DWG\19-0328.004 REGIONAL UTILITIES DETAILS.dwg Plotted: Mar. 13, 2024 - 3:09pm by rajernigen



1 HDPE TO PVC TRANSITION
(UP TO 2" DIAMETER)
N.T.S.



2 HDPE-TO-PVC CONNECTION
(3" PIPE AND LARGER)
N.T.S.

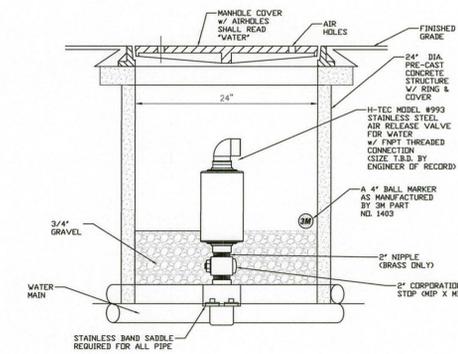


6 TYPICAL CASING DETAIL
N.T.S.

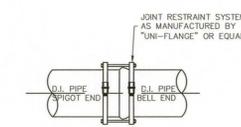
CARRIER PIPE NOM. DIA. (D2)	4"	6"	8"	10"	12"	14"	16"	18"	22"	24"	30"	36"
CASING PIPE NOM. DIA. (D1)	8"	12"	16"	22"	24"	30"	30"	30"	36"	36"	48"	60"
HWY X-ING WALL THK.-INCHES	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.250	0.375	0.500	

- NOTES:
- MIN. COVER TO TOP OF CASING SHALL BE 36".
 - THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE 4" GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING.
 - ALL JACK AND BORE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION UTILITY ACCOMMODATION MANUAL, LATEST EDITION.
 - SKIDS SHALL BE SECURED TO THE CARRIER PIPE AS PER MANUFACTURER'S RECOMMENDATIONS. (MINIMUM OF 3 SKIDS PER PIPE JOINT.)
 - ROTATION OF CARRIER PIPE INSIDE THE CASING PIPE WILL NOT BE PERMITTED. ALL JOINTS WITHIN THE CASING SHALL HAVE JOINT RESTRAINTS INSTALLED.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWING OF CASING AND CARRIER PIPE INSTALLATION FOR APPROVAL PRIOR TO PURCHASING MATERIALS.
 - CASING SHALL EXTEND A MINIMUM OF 8 FEET PAST EDGE OF PAVEMENT.

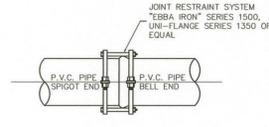
WATER MAIN CROSSING FOR ROADWAYS



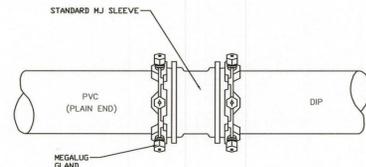
7 H-TEC 2-INCH
AUTOMATIC AIR
RELEASE VALVE
MODEL #993
STAINLESS STEEL
N.T.S.



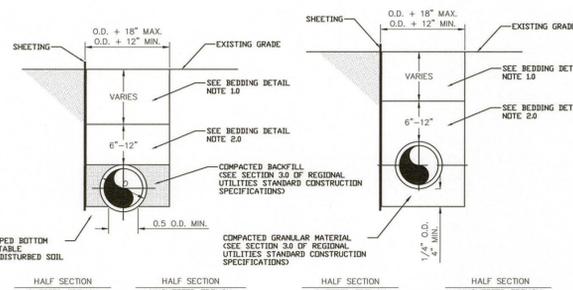
3 TYPICAL RESTRAINED
D.I. TO D.I. JOINT
N.T.S.



4 TYPICAL RESTRAINED
P.V.C. JOINT
N.T.S.

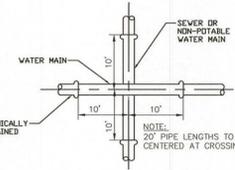


5 TYPICAL RESTRAINED
CAST IRON/DUCTILE IRON TO P.V.C. JOINT
N.T.S.



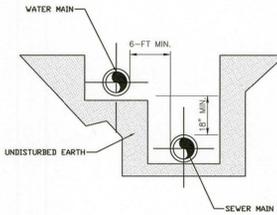
8 TYPICAL BEDDING DETAIL
N.T.S.

- BEDDING DETAIL NOTES:**
- THE BACKFILL TO A POINT TWELVE (12) INCHES ABOVE THE PIPE SHALL BE PLACED BY HAND AND SHALL BE CAREFULLY SELECTED MATERIAL, FREE FROM ROCKS, BOULDERS, CLODS, ORGANIC MATERIAL, OR OTHER DEBRIS AND LIGHTLY COMPACTED PRIOR TO PLACING REMAINING BACKFILL. THE BALANCE OF THE BACKFILL MAY BE PLACED IN THE DITCH BY HAND OR BY MECHANICAL EQUIPMENT. NO BACKFILL SHALL BE DROPPED DIRECTLY ONTO EXPOSED PIPE.
 - CONTRACTOR SHALL EMPLOY AN EXCAVATOR-MOUNTED TRENCH ROLLER OR OTHER MECHANICAL COMPACTION EQUIPMENT TO PROVIDE BACKFILL DENSITIES OF 90% OR GREATER AT 2"2" OPTIMUM MOISTURE CONTENT. SURFACE FLOODING AND WATER JETTING OF BACKFILL SHALL NOT BE PERMITTED OR BACKFILL CONSOLIDATION.
 - ALL BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 3.0 OF REGIONAL UTILITIES CONSTRUCTION SPECIFICATIONS.
 - PIPE COVER SHALL NOT BE LESS THAN 36 INCHES, NOR GREATER THAN 48 INCHES EXCEPT WHERE SPECIFICALLY SHOWN ON THE CONSTRUCTION DRAWINGS AND APPROVED BY REGIONAL UTILITIES.

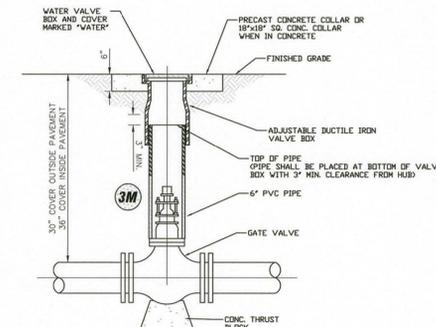


- NOTES:
- WHERE A 18 INCH VERTICAL SEPARATION DISTANCE CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, CROSSING THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN OR NON-POTABLE WATER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 12 INCHES. THE SEWER OR NON-POTABLE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASMENT CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASMENT CENTERED ON THE POINT OF CROSSING. CONCRETE ENCASMENT SHALL BE POURED SEPARATELY FOR EACH PIPE.
 - ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

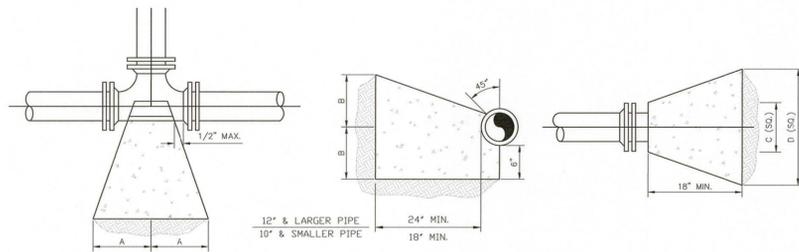
9 WATER/SEWER CROSSING AND SEPARATION DETAIL
N.T.S.



- NOTES:
- WHERE A 10 FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, THEN THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN OR NON-POTABLE WATER MAIN AND 6 FEET HORIZONTALLY FROM THE EDGE OF THE SEWER MAIN OR NON-POTABLE WATER MAIN.
 - ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.



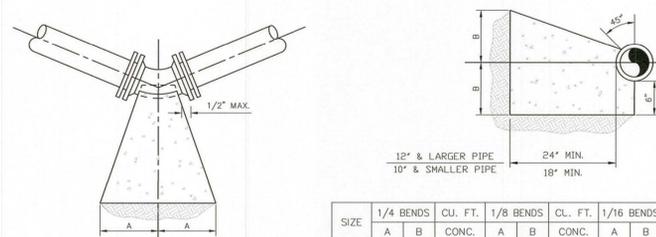
10 VALVE AND BOX DETAIL
N.T.S.



SIZE	TEE		CU. FT.
	A	B	
6"	10"	12"	3.5
8"	13"	16"	5.4
10"	16"	20"	9.4
12"	18"	24"	16.6
14"	22"	27"	23.2
16"	24"	30"	28.6
18"	28"	32"	36.2

- NOTES:
- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 - THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL (A-1 THROUGH A-3, CLEAN SAND AND GRAVEL).
 - POOR SOIL (A-4 THROUGH A-6, SILTY SOILS, CLAYS, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS.

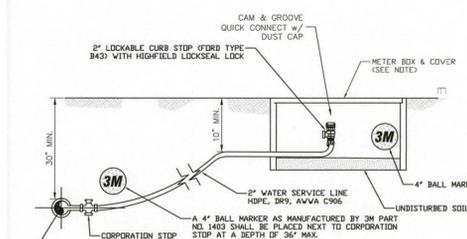
11 THRUST BLOCK DETAIL
N.T.S.



SIZE	1/4 BENDS		CU. FT.	1/8 BENDS		CU. FT.	1/16 BENDS		CU. FT.
	A	B		A	B		A	B	
6"	16"	10"	3.2	9"	10"	3.0	6"	8"	1.3
8"	22"	13"	7.2	12"	13"	3.7	8"	10"	2.1
10"	26"	17"	11.5	14"	17"	5.9	10"	13"	3.6
12"	29"	21"	21.1	16"	21"	8.6	11"	16"	6.6
14"	35"	24"	29.8	19"	24"	14.9	12"	20"	8.9
16"	38"	27"	37.8	21"	27"	19.1	12"	24"	11.2
18"	42"	29"	47.8	22"	29"	24.2	13"	26"	14.2

- NOTES:
- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 - THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL (A-1 THROUGH A-3, CLEAN SAND AND GRAVEL).
 - POOR SOIL (A-4 THROUGH A-6, SILTY SOILS, CLAYS, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS.

12 THRUST BLOCK DETAIL
N.T.S.



13 BELOW GRADE FLUSH POINT
N.T.S.

- NOTES:
- FLUSH POINTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK WITHIN 8"4" EXCEPT WHERE CONDITIONS AND OR REGULATION PROHIBIT. FLUSH POINTS SHALL BE LOCATED WITHIN RIGHTS OF WAY OR UTILITY EASEMENTS.
 - METER BOX AND COVER SHALL BE TRAFFIC RATED. SEE DETAIL #7 ON SHEET W-2.

NO.	DATE	APPR.	REVISION

REGIONAL UTILITIES
OPERATED BY FLORIDA COMMUNITY SERVICES
CORPORATION OF WALTON COUNTY INC.
4432 HWY 98 E
Santa Rosa Beach, FL 32459
Phone: (850) 231-5114
Fax: (850) 231-9696

POTABLE WATER
STANDARD DETAILS

PROJECT NAME:
SHEET TITLE:
DRAWN BY: RT
CHECKED BY: RAD
PROJECT NO.: 00-000
WORK ORDER: 00.0000
DRAWING SCALE: 1"=XX'
PLOT DATE:
SHEET NO. X OF XX
SHEET:
W-3

DESIGNED BY: RAJ
DRAWN BY: RAJ
CHECKED BY: MTZ
APPROVED BY: BRL

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
COUNTY HIGHWAY 283 SOUTH
SANTA ROSA BEACH 32459

REGIONAL UTILITIES
WATER DETAILS

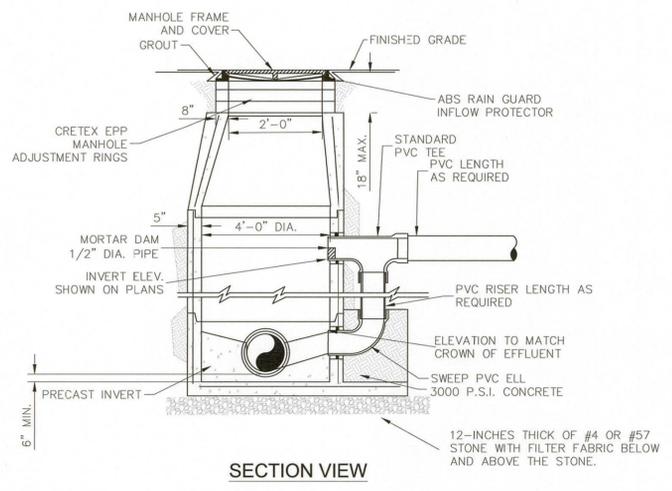
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

DRMP Inc.
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
Certificate of Authorization No. 2848
1825 SUMMIT LAKE DRIVE
TALLAHASSEE, FL 32317
Phone: 904.362.3600 www.drmp.com

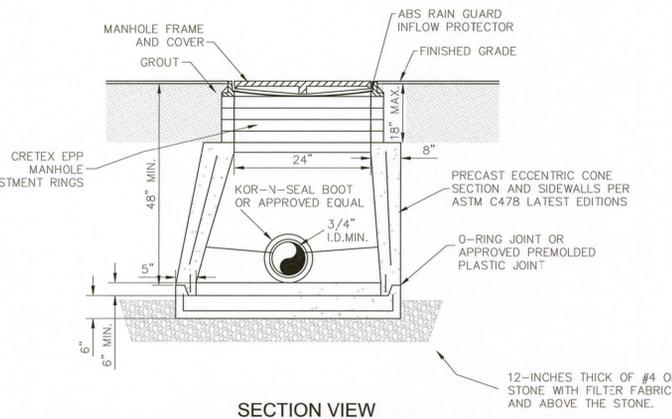
Professional Engineer
Benjamin R. Minnion, P.E.
State of Florida # 78674
3-22-2024

Project No.: 19-0328.004
Scale: AS SHOWN
Date: JUNE 2023
Drawing: C116

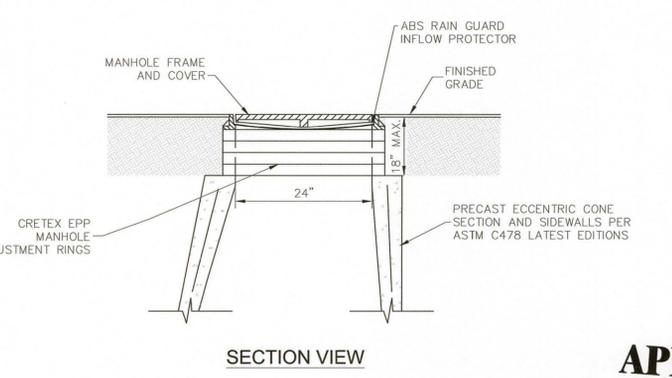
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1 SANITARY SEWER DROP MANHOLE
N.T.S. (8"-2' SEWERS)



3 SANITARY SEWER SHALLOW DEPTH MANHOLE
N.T.S. (8"-21' SEWERS)

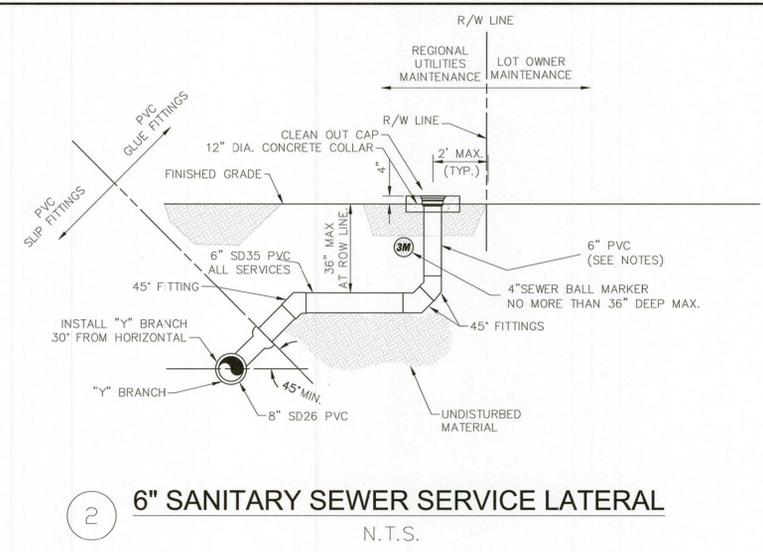


5 TYPICAL MANHOLE RISER DETAIL
N.T.S.

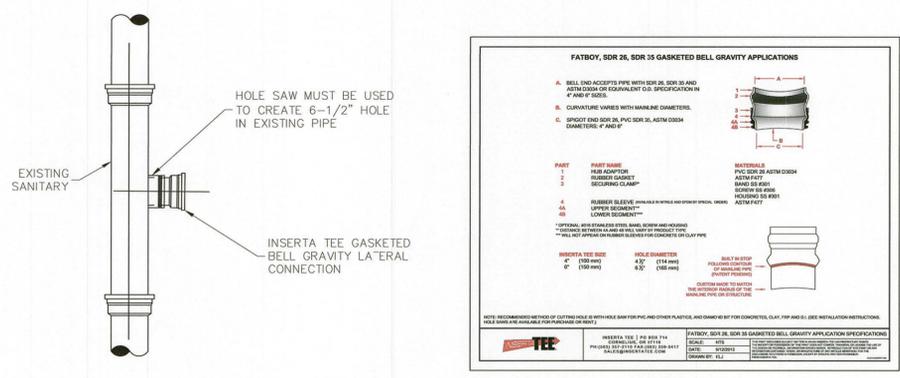
NOTES

- CRETEX EXPANDED POLY PROPYLENE MANHOLE ADJUSTMENT RINGS, TO BE INSTALLED ON ALL MANHOLES WHERE RISERS ARE NECESSARY. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- AN ABS RAIN GUARD INFLOW PROTECTOR SHALL BE INSTALLED IN ALL MANHOLE RING AND COVERS.

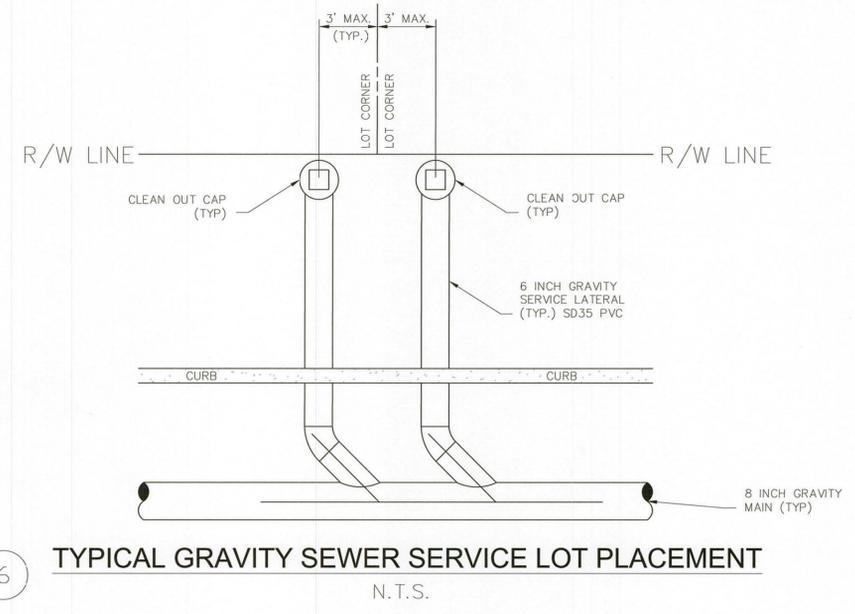
APPROVED FOR 2023



2 6" SANITARY SEWER SERVICE LATERAL
N.T.S.



4 SANITARY SEWER SERVICE TO EXISTING GRAVITY LINE CONNECTION DETAILS
N.T.S.



6 TYPICAL GRAVITY SEWER SERVICE LOT PLACEMENT
N.T.S.

- GENERAL NOTES:**
- REFER TO REGIONAL UTILITIES' LATEST WRITTEN SPECIFICATIONS REGARDING NEW TESTING PROCEDURES FOR GRAVITY SEWER SYSTEMS.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS OF REGIONAL UTILITIES' STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
 - DEVELOPERS OF PRIVATE PROJECTS SHALL PROVIDE ALL WETLANDS PERMITS NECESSARY FOR UTILITY CONSTRUCTION.
 - ALL MANHOLES SHALL HAVE FINAL PAVEMENT AROUND THEM FOR PROTECTION PRIOR TO ACCEPTANCE BY REGIONAL UTILITIES.
 - ALL SEWER MAINS SHALL BE COVERED TO FINISH GRADING FOR PROTECTION PRIOR TO ACCEPTANCE BY REGIONAL UTILITIES.
 - ALL MANHOLES SHALL HAVE NON-STEEL STEPS INSTALLED.
 - 90° FITTINGS SHALL NOT BE USED IN GRAVITY SEWER SYSTEMS.

- SANITARY SEWER GENERAL NOTES**
- CONTRACTOR SHALL COORDINATE INSTALLATION OF SANITARY SEWERS WITH ALL OTHER UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
 - VIDEO INSPECTION IS REQUIRED FOR ALL GRAVITY SEWER LINES AND LATERALS PRIOR TO PAVING BUT AFTER ALL OTHER UTILITIES HAVE BEEN INSTALLED. A FULL REPORT SHALL BE GIVEN TO REGIONAL UTILITIES UPON COMPLETION. COST OF VIDEO INSPECTION SHALL BE DONE BY THE CONTRACTOR. REFER TO SECTION 7 OF REGIONAL UTILITIES' DESIGN AND CONSTRUCTION SPECIFICATIONS.
 - NO SANITARY SEWER CONSTRUCTION SHALL COMMENCE UNTIL SHOP DRAWING SUBMITTALS HAVE BEEN APPROVED.
 - A PRE-CONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY REGIONAL UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A REGIONAL UTILITIES REPRESENTATIVE MUST WITNESS ALL TIES TO EXISTING LINES AND TESTS OF NEW LINES.
 - ENGINEER SHALL PROVIDE AS-BUILT DRAWINGS IN ACCORDANCE WITH REGIONAL UTILITIES SPECIFICATIONS.
 - LOCATOR BALLS AS MANUFACTURED BY 3M PART NO. 1404 TO BE PLACED ON NORTH SIDE OF ALL MANHOLES NOT WITHIN PAVED AREAS. MANHOLES OUTSIDE OF PAVED AREAS SHALL BE CONSTRUCTED WITH TOP 6" ABOVE GRADE.
 - ALL GRAVITY SEWER SHALL BE VISUALLY INSPECTED BY REGIONAL UTILITIES PRIOR TO FINAL ACCEPTANCE.
 - ALL MECHANICAL JOINT CONNECTIONS SHALL BE RESTRAINED USING MEGA-LUG TYPE RESTRAINTS OR APPROVED EQUAL.
 - MIN. SERVICE SLOPE: 6" = 1/8" PER FOOT.
 - USE 6" SERVICES FOR ALL SINGLE FAMILY HOME CONNECTIONS. USE 6" SERVICES FOR MULTI-FAMILY AND COMMERCIAL CONNECTIONS.
 - A 4" BALL MARKER AS MANUFACTURED BY 3M PART NO. 1404 SHALL BE PLACED AT ALL CLEANOUT LOCATIONS NO DEEPER THAN 36-INCHES.
 - LOCATIONS OF SERVICE STUB TO BE MARKED BY THE LETTER "S" SCRIBED A MINIMUM OF 2" HIGH & 1/4" DEEP IN CURB.
 - IF NO CURBING IS INSTALLED A "3" SQUARE STEEL TAG INSCRIBED WITH A 2" LETTER "S" IS TO BE ATTACHED TO STREET PAVEMENT.
 - SERVICE TRENCHING TO CONFORM TO CITY/COUNTY STANDARDS FOR PIPE INSTALLATION.
 - USE HYDRAULIC CEMENT GROUT TO SEAL INTERIOR AND EXTERIOR OF ALL PRECAST MANHOLE JOINTS.
 - ALL GRAVITY SEWER MAINS AND SEWER SERVICES SHALL BE CONSTRUCTED OF P401 COATED DUCTILE IRON PIPE WHERE COVER IS LESS THAN 30 INCHES UNDER PAVEMENT OR LESS THAN 18 INCHES IN GREEN AREAS.
 - EXTERNAL DROP TYPE MANHOLES ARE REQUIRED WHERE MANHOLE INVERT ELEVATIONS VARY BY OVER 12-INCHES.
 - MANHOLE TOPS IN GREEN AREAS SHALL BE ELEVATED NO LESS THAN 6-INCHES ABOVE FINAL GRADE TO PROHIBIT STORM WATER ENTRY.
 - SEWER SERVICES SHALL BE CONSTRUCTED AT THE LOWER SIDE OF LOTS AS MAY BE APPLICABLE.
 - ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH REGIONAL UTILITIES WRITTEN SPECIFICATIONS, LATEST EDITION.
 - A RAIN GUARD INFLOW PROTECTOR CONSTRUCTED OF ABS MATERIAL SHALL BE INSTALLED ON EVERY MANHOLE TO HELP PREVENT STORM WATER INFLOW.
 - A MANHOLE SHALL BE REQUIRED WHERE ANY 8" SEWER LATERAL CONNECTS TO AN 8" GRAVITY SEWER MAIN.
 - GRAVITY SEWER LATERAL TEE-WYE SHALL ENTER THE GRAVITY SEWER MAIN AT NO LESS THAN A 45° ANGLE.
 - WHERE A SEWER FORCE MAIN ENTERS A WET WELL THAT IS ALSO CONNECTED TO A GRAVITY SEWER SYSTEM, NO LESS THAN TWO MANHOLES UPSTREAM OF THE WET WELL, OR ANY MANHOLE WITHIN 400- FEET OF THE WET WELL SHALL BE LINED WITH RAVEN EPOXY COATING PER REGIONAL SPECIFICATION 9.3.1.14.
 - PRIOR TO A FINAL INSPECTION, ALL LOT CORNERS SHALL BE STAKED BY THE SURVEYOR. INSPECTOR WILL NOT PERFORM FINAL INSPECTION IF STAKING IS INCOMPLETE.

PROJECT NAME:	REGIONAL UTILITIES
SHEET TITLE:	SANITARY SEWER STANDARD DETAILS
SCALE:	S-1
DRAWN BY:	RT
CHECKED BY:	RAD
PROJECT NO.:	000-000
DRAWING SCALE:	N.T.S.
PLOT DATE:	
SHEET NO.:	1 OF 2
SHEET:	S-1

REGIONAL UTILITIES
OPERATED BY FLORIDA COMMUNITY SERVICES CORPORATION OF WALTON COUNTY INC.
4432 HWY 98 EAST
Santa Rosa Beach, FL 32459
Phone: (850) 231-5114
Fax: (850) 231-4924

CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
COUNTY HIGHWAY 283 SOUTH
SANTA ROSA BEACH 32459

DRMP, Inc.
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
Certificate of Authorization No. 2648
1625 SUMMIT PLACE DRIVE
WILMINGTON, DE 19804
Phone: 850.582.9800 www.drmp.com

DESIGNED BY: RAJ
DRAWN BY: RAJ
CHECKED BY: MTZ
APPROVED BY: BRL

REGIONAL UTILITIES GRAVITY SEWER DETAILS

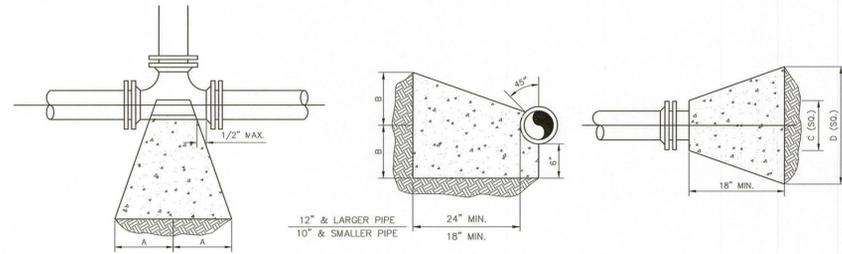
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

APPROVED FOR 2023

Professional Engineer Seal: Benjamin R. Leimon, P.E., License No. 78674, State of Florida # 78674

DATE: JUNE 2023
DRAWING: C117

P:\Projects\19-0328 004 - Walton County - PES - Grayton Beach - Transmittal\General\CADD\01-DWG\19-0328 004 REGIONAL UTILITIES DETAILS.dwg Plotted: Mar. 13, 2024 - 3:10pm by rjarnigen

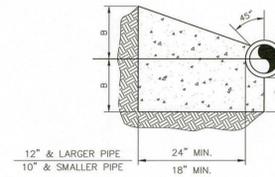
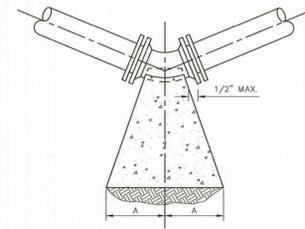


SIZE	TEE		CU. FT.
	A	B	
6"	10"	12"	3.5
8"	13"	16"	5.4
10"	16"	20"	9.4
12"	18"	24"	16.6
14"	22"	27"	23.2
16"	24"	30"	28.6
18"	26"	32"	36.2

NOTES:
 1. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 2. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL (A-1 THRU A-3, CLEAN SAND AND GRAVELS).
 3. POOR SOIL (A-4 THRU A-8, SILTY SOILS, CLAYS, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS.

SIZE	PLUG		CU. FT.
	C	D	
6"	10"	21"	2.6
8"	12"	29"	4.5
10"	14"	36"	6.9
12"	16"	41"	9.0
14"	18"	48"	12.3
16"	20"	54"	15.2
18"	22"	60"	19.2

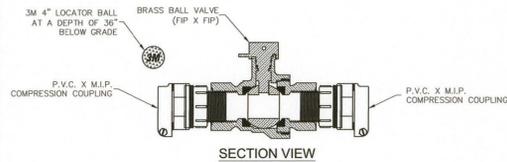
1 THRUST BLOCK DETAIL
N.T.S.



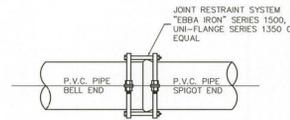
SIZE	1/4 BENDS		CU. FT.	1/8 BENDS		CU. FT.	1/16 BENDS		CU. FT.
	A	B		A	B		A	B	
6"	16"	10"	3.2	9"	10"	3.0	6"	8"	1.3
8"	22"	13"	7.2	12"	13"	3.7	8"	10"	2.1
10"	26"	17"	11.5	14"	17"	5.9	10"	13"	3.5
12"	29"	21"	21.1	16"	21"	8.6	11"	16"	6.6
14"	35"	24"	29.8	19"	24"	14.9	12"	20"	8.9
16"	38"	27"	37.8	21"	27"	19.1	12"	24"	11.2
18"	42"	29"	47.8	22"	29"	24.2	13"	26"	14.2

NOTES:
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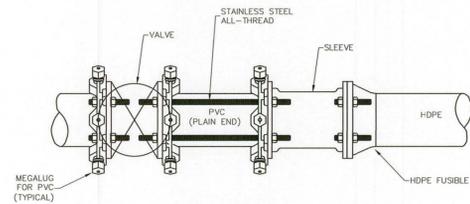
2 THRUST BLOCK DETAIL
N.T.S.



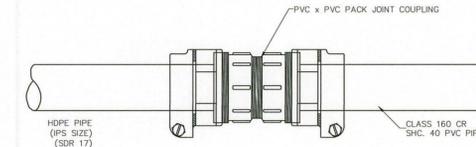
3 TYPICAL BRASS BALL VALVE CONNECTION
N.T.S.



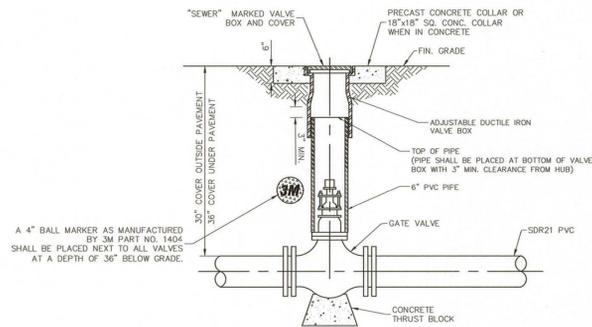
4 TYPICAL RESTRAINED P.V.C. JOINT
N.T.S.



5 HDPE-TO-PVC CONNECTION (3" DIAMETER AND LARGER)
N.T.S.

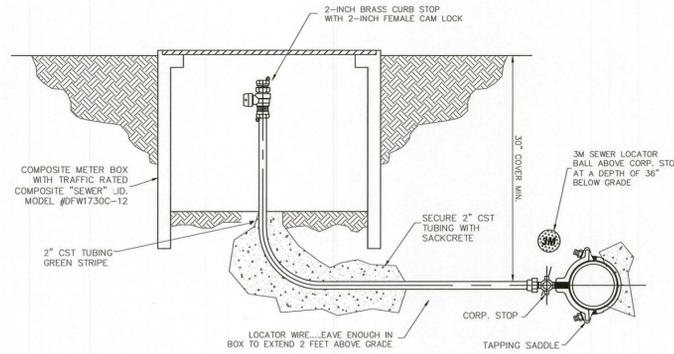


6 HDPE TO PVC TRANSITION (UP TO 2" DIAMETER)
N.T.S.

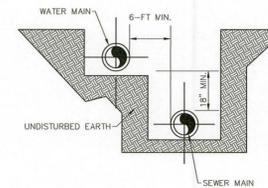


7 TYPICAL INLINE VALVE
N.T.S.

APPROVED FOR 2023



8 TYPICAL CLEANOUT
N.T.S.



NOTES:
 1. WHERE A 10 FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, THEN THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHEET AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN OR NON-POTABLE WATER MAIN AND 6 FEET HORIZONTALLY FROM THE EDGE OF THE SEWER MAIN OR NON-POTABLE WATER MAIN.
 2. ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

NOTES:
 1. WHERE A 18 INCH VERTICAL SEPARATION DISTANCE CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, CROSSING THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN OR NON-POTABLE WATER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 12 INCHES. THE SEWER OR NON-POTABLE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASEMENT CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASEMENT CENTERED ON THE POINT OF CROSSING. CONCRETE ENCASEMENT SHALL BE POURED SEPARATELY FOR EACH PIPE.
 2. ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

9 WATER/SEWER SEPARATION DETAIL
MUST BE APPROVED BY FDEP
N.T.S.

NO.	DATE	APPR.	REVISION
1	3/02/10	NOC	UPDATE CONSTRUCTION DETAILS
2	2/11/13	NOC	ADDED NEW AIR RELEASE VALVE

REGIONAL UTILITIES
 OPERATED BY FLORIDA COMMUNITY SERVICES CORPORATION OF WALTON COUNTY INC.
 4439 HWY 98 EAST
 SANTA ROSA BEACH, FL 32450
 Phone: (850) 231-5114
 Fax: (850) 231-4924



CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

PROJECT NAME:
 PRESSURE SEWER STANDARD DETAILS

DRAWN BY:	CHECKED BY:
RT	RAD
PROJECT NO.:	000-000
DRAWING SCALE:	N.T.S.
PLOT DATE:	
SHEET NO.:	2 OF 2
SHEET:	PS-2

NO.	DATE	RAJ	DESCRIPTION
		RAJ	
		MTZ	
		BRL	

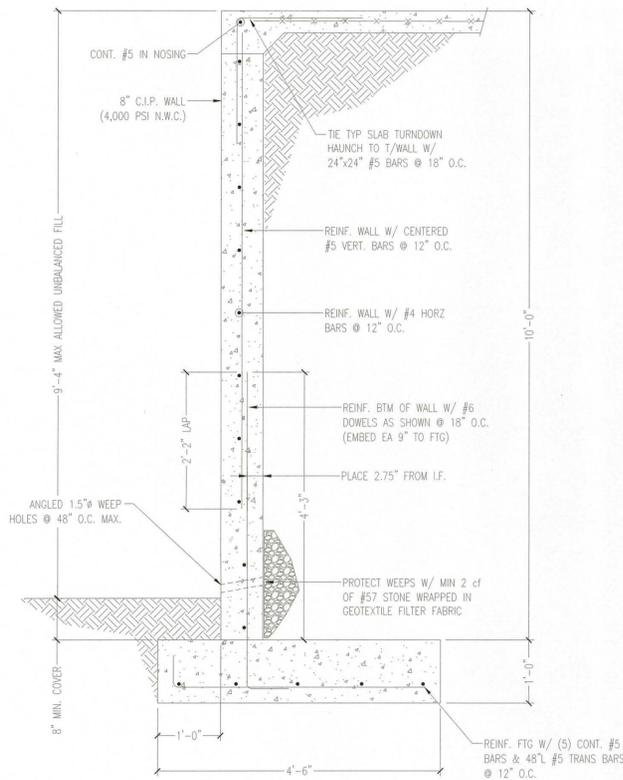
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 DRAWN BY: RAJ
 CHECKED BY: MTZ
 APPROVED BY: BRL

REGIONAL UTILITIES
 PRESSURE SEWER DETAILS

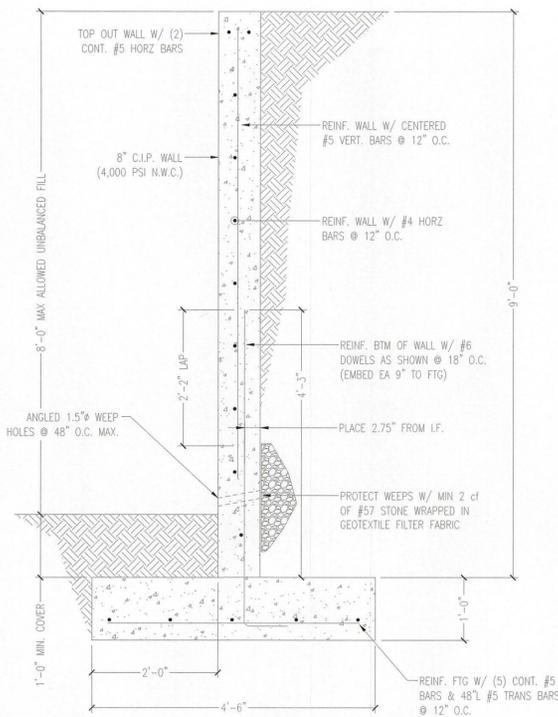
CONSTRUCTION PLANS FOR
GRAYTON BEACH TRANSIT FACILITY
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

DRMP
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
 Certificate of Authorization No. 26848
 1625 SUMMIT LAKE DRIVE
 FORT LAUDERDALE, FL 32531
 Phone: 850.862.8800 • www.drmp.com

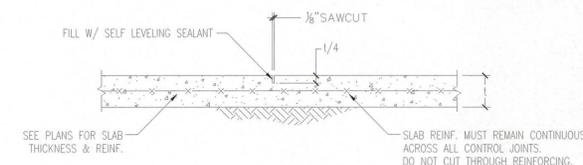
DRMP Inc.
 No. 78674
 3-22-2024
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Benjamin R. Mon, P.E.
 State of Florida # 78674
 PROJECT NO.: 19-0328.004
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DRAWING: C120



A RAMP RETAINING WALL SECTION
S-501 3/4" = 1'-0"



B 8" FREE STANDING RETAINING WALL
S-501 3/4" = 1'-0"



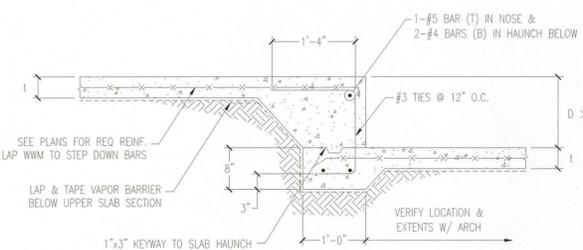
MAXIMUM SPACING OF CONTROL JOINTS

SLAB THICKNESS "t"	SLUMP 4" TO 6"		SLUMP LESS THAN 4"
	MAXIMUM SIZE AGGREGATE LESS THAN 3/4"	MAXIMUM SIZE AGGREGATE 3/4" & LARGER	
4"	8 FT	10 FT	12 FT

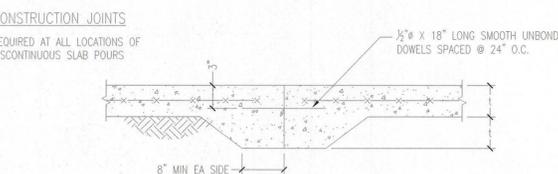
CONTROL JOINT NOTES:

1. THE ACTUAL LOCATIONS OF ALL CONTROL JOINTS MUST BE FIELD LOCATED BY THE CONTRACTOR.
2. PLAN DENOTED CONTROL JOINTS ARE APPROXIMATE OR SHOWN FOR GENERAL INSTRUCTION ONLY. ACTUAL LOCATIONS SHALL BE VERIFIED TO LIMIT THE FREQUENCY AND WIDTH OF RANDOM CRACKS IN THE CONCRETE SLAB ON GROUND AND THE DETAILS THEREIN.
3. LOCATION AND INSTALLATION OF ALL CONTROL JOINTS SHALL BE IN ACCORDANCE WITH ACI 308R "DESIGN OF SLABS ON GROUND" AND THE DETAILS THEREIN.
4. MAXIMUM SPACING OF JOINTS SHALL BE PER THE TABLE IN THIS DETAIL UNLESS OTHERWISE APPROVED.
5. SLAB SHALL BE SAWN AS SOON AS THE CONCRETE WILL SAFELY SUPPORT MEN AND EQUIPMENT AFTER HARDENING.
6. KEYED FORM TO BE REMOVED BEFORE ADJACENT SLAB IS POURED.

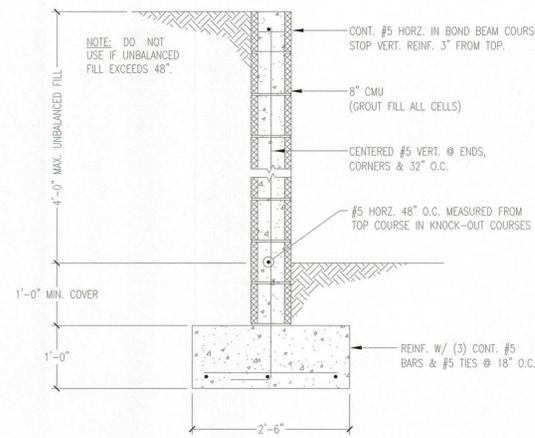
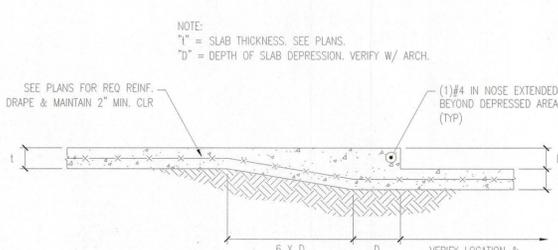
E SLAB CONTROL JOINTS
S-501 N.T.S.



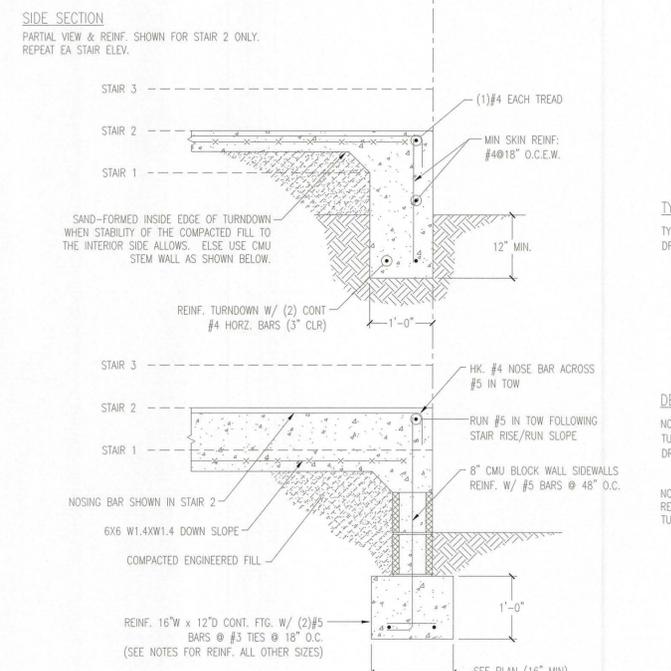
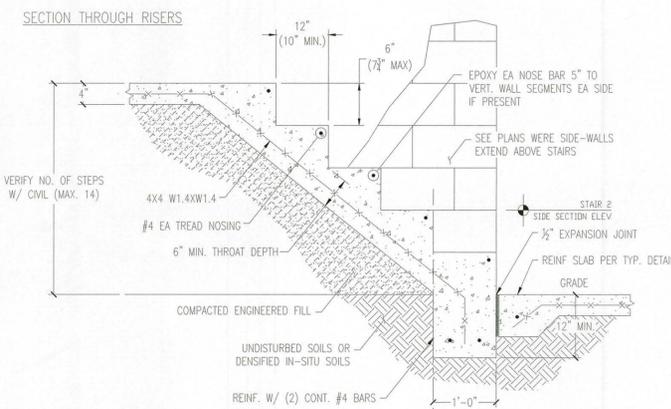
I TYP. NON-BEARING SLAB STEP DOWNS
S-501 3/4" = 1'-0"



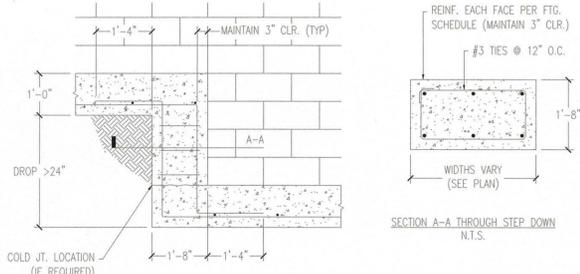
F TYP. CONC. FINISHING DETAILS
S-501 3/4" = 1'-0"



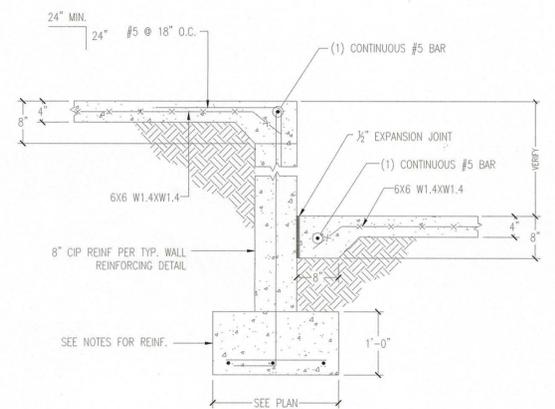
C 4" FREE STANDING RETAINING WALL
S-501 3/4" = 1'-0"



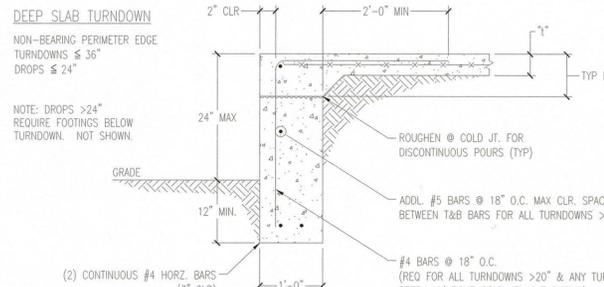
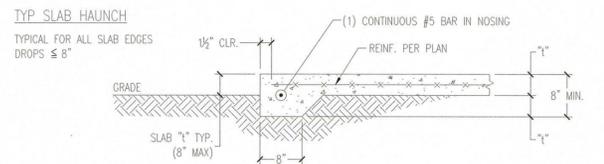
G FREE-STANDING S.O.G. STEPS
S-501 3/4" = 1'-0"



D TYP. FTG. REINF. @ CHANGE IN ELEV.
S-501 1/2" = 1'-0"



H TYPICAL SLAB PERIMETER @ WALL
S-501 3/4" = 1'-0"



J TYPICAL SLAB PERIMETER CONDITIONS
S-501 3/4" = 1'-0"



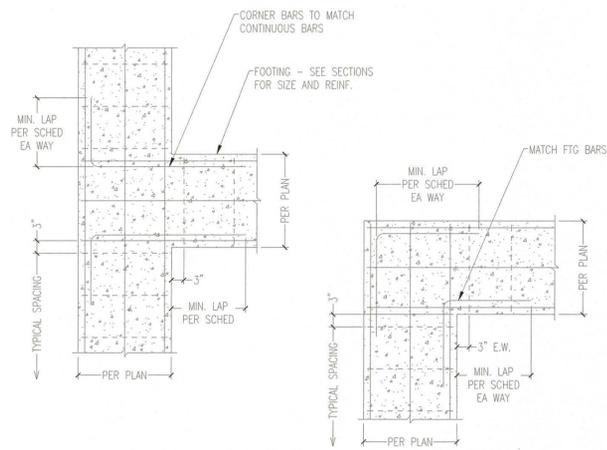
APEX ENGINEERING GROUP, PLLC
78-A Ricker Avenue, Santa Rosa Beach, Florida 32459
Florida Certificate of Authorization: # 32176
Phone: 850-231-4540, Email: info@apexengineeringgroup.net

GRAYTON BEACH TRANSIT FACILITY ADA RAMPS WALTON COUNTY, FL

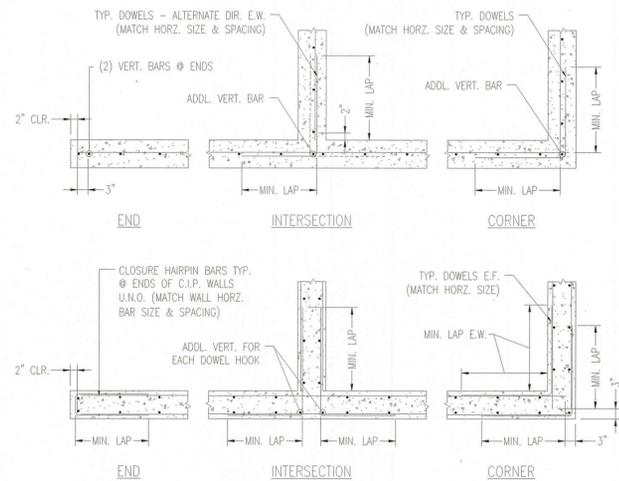
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DESIGNED BY: CAM
REVIEWED BY: n/a
SHEET SCALE: AS NOTED

RELEASE RECORD:
REVIEW ONLY / N.F.C. 03-29-2023
PERMIT 08-01-2023

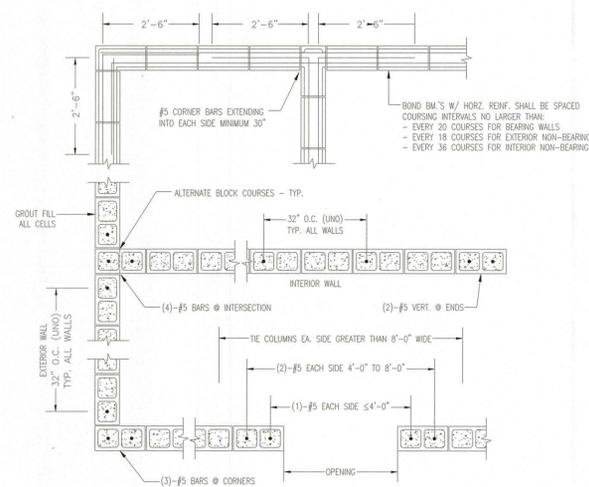
DRAWING TITLE:
CONSTRUCTION DETAILS
DRAWING NO.
S-501



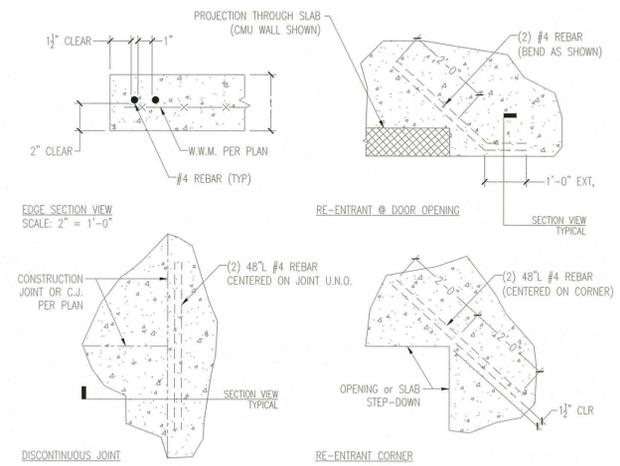
A TYPICAL FTG. REINF. @ INTERSECTIONS
S-502 N.T.S.



B TYP. C.I.P. WALL REINF.
S-502 1/2" = 1'-0"



C TYP. CMU WALL REINFORCING
S-502 N.T.S.



D SUPPLEMENTAL SLAB REINF.
S-502 1/2" = 1'-0"



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**GRAYTON BEACH
TRANSIT FACILITY
ADA RAMPS
WALTON COUNTY, FL**

PROJECT NUMBER:	4002-2301
DESIGNED BY:	CAM
REVIEWED BY:	n/a
SHEET SCALE:	AS NOTED
RELEASE RECORD:	
REVIEW ONLY / N.F.C.	03-29-2023
PERMIT	08-01-2023

DRAWING TITLE:

CONSTRUCTION
DETAILS

DRAWING NO.

S-502

GENERAL NOTES AND REQUIREMENTS

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY PERMITS OR APPROVALS FROM THE FEDERAL, STATE OR LOCAL GOVERNMENT REQUIRED FOR THE WORK INCLUDED IN THIS CONTRACT AND ON THESE DRAWINGS.
2. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, ETC., PRIOR TO LANDSCAPE OR IRRIGATION INSTALLATION
3. STAKE OUT ALL TREE & LARGE SHRUB LOCATIONS FOR LA AND OWNER REVIEW AND APPROVAL PRIOR TO EXCAVATION OR PLANTING. PLAN LOCATIONS ARE SUBJECT TO FIELD ADJUSTMENT BY THE LA.
4. THE CONTRACTOR SHALL INSTALL AN IRRIGATION SYSTEM AS NEEDED TO PROVIDE A COMPLETE WORKING SYSTEM AND AS REQUIRED TO ENSURE 100% COVERAGE OF ALL NEW PLANTING AND SODDED LAWN AREAS. SEE IRRIGATION PLAN BY THE LANDSCAPE ARCHITECT OR PROVIDE SHOP DRAWINGS FOR LA APPROVAL.
5. INSTALL ONLY PLANTS GRADED FLORIDA NO.1 OR BETTER AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE 'GRADES AND STANDARDS FOR NURSERY PLANTS' SECOND EDITION FEB. 1998 INCLUDING REVISIONS AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE AND DETAILS.
6. PLANT SHRUBS IN CIRCULAR PITS WITH A DIAMETER 16" GREATER THAN ROOTBALL OR CONTAINER. PLANT TREES IN CIRCULAR PITS WITH A DIAMETER 36" GREATER THAN ROOTBALL OR CONTAINER., PLACE PLANTS WITH BEST "FACE" FORWARD.
7. FERTILIZE ALL TREES WITH AGRIFORM 21 GRAM TABLETS, SLOW-RELEASE 20-10-5 ANALYSIS WITH ONE TABLET PER 1/2" OF TRUNK DIAMETER.
8. BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE ; 1/2 ONSITE SOIL, 1/2 CLEAN FRIABLE TOPSOIL. SUBMIT TOPSOIL SAMPLE AND SOIL TEST ANALYSIS FOR APPROVAL BY LANDSCAPE ARCHITECT, (SEE PLANTING DETAILS). REMOVE EXCESS SOIL EXCAVATED FROM PLANT PIT FROM THE SITE OR DISTRIBUTE ON-SITE AS DIRECTED BY LA.
9. APPLY "DIEHARD TRANPLANT" MYCORRHIZAL INOCULANT AND 100% ORGANIC STARTER FERTILIZER TO EACH NEW TREE PLANTED AND SHRUB/GROUNDCOVER BEDS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS I.E. 8 OZ. PER 2" CALIPER, 3 LBS/100 S.F. AREA, ETC... CONTACT HORTICULTURAL ALLIANCE, INC. SARASOTA, FL. 34277 800-628-6373
10. FERTILIZE ALL PLANTING BEDS WITH OSMOCOTE 14-14-14 SLOW-RELEASE FERTILIZER AT THE RATE OF 16 POUNDS PER 1,000 SQUARE FEET. FURNISH RECEIPTS FOR MATERIAL USED.
11. TREAT ALL PLANTING BEDS WITH PRE-EMERGENT AND POST-EMERGENT HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. SUBMIT RECEIPTS FOR MATERIALS USED.
12. MULCH PLANTING BEDS TO A MINIMUM 2 1/2" COMPACTED THICKNESS WITH PINE STRAW, FREE OF WEEDS.
13. SOD ALL DISTURBED AREAS WHICH DO NOT HAVE SHRUB OR GROUNDCOVER PLANTINGS INDICATED WITH SOLID SOD LAID WITH CLOSELY ABUTTING JOINTS. FERTILIZE AFTER INSTALLATION WITH A SLOW-RELEASE FORMULA.
14. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES BASED ON THE QUANTITIES IN PLACE AS INDICATED ON THE PLANS AND PROVIDE COMPOSITE UNIT PRICES FOR EACH PLANT INCLUDING ALL COSTS FOR MATERIALS AND INSTALLATION; I.E., LABOR, MULCH, FERTILIZER, WATERING, STAKING, HERBICIDES, MOWING, WEEDING, SITE PREPARATION, ETC.
15. FERTILIZE PALMS WITH PALMGAIN 8-2-12 FORMULA AS MANUFACTURED BY BGI www.bgi-usa.com PER MANUFACTURER RECOMMENDED RATE.
16. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORESEEN CONDITIONS, I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTILITY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
17. GUARANTEE ALL PLANTS FOR ONE YEAR.
18. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.
19. DO NOT MAKE SUBSTITUTIONS OR REVISIONS, ANY REVISION OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE THE LANDSCAPE ARCHITECT & OWNER
20. MAINTAIN ALL PLANTING INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER.
21. THESE DRAWING DOCUMENTS AND ALL CONTENTS ARE THE PROPERTY OF THE PATRICK HODGES LAND STUDIO, ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR REPRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.
22. LIGHTWEIGHT ENGINEERED SOILS PER MANUFACTURERS SPECIFICATIONS OUTLINED ON SHEET L-04.3. ANY ALTERNATES TO THE SPECIFIED SOIL SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PROCUREMENT.
23. NON-WOVEN GEO-TEXTILE PRODUCT INSTALLATION PER MANUFACTURERS SPECIFICATIONS OUTLINED ON SHEETS L-04.3. ANY ALTERNATES TO THE SPECIFIED PRODUCTS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PROCUREMENT.

OVERALL PLANT SCHEDULE

SYM QTY SPECIFICATION

(*) - ASTERISK INDICATES NATIVE PLANTS WHICH HAVE BEEN APPROVED PREVIOUSLY BY THE SCENIC CORRIDOR DESIGN REVIEW BOARD AND WALTON COUNTY PLANNING DIRECTOR.

ICD	1	ILEX CASSINE DAHOON HOLLY 65 GALLON CGS 10' HT.
LSR	2	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA' FRUITLESS SWEETGUM 4" CALIPER 14' HT.
MGD	11	MAGNOLIA GRANDIFLORA 'DD BLANCHARD' MAGNOLIA 4.5" CALIPER 100 GALLON OR LA APPROVED B&B
MGD	33	MAGNOLIA GRANDIFLORA 'DD BLANCHARD', 30 GAL. (BUFFER PLANTING)
MVS	8	MAGNOLIA VIRGINIANA SWEETBAY 3" CALIPER 65 GALLON CGS 12' HT. 4'SPRD
LTP	6	LIRIODENDRON TULIPIFERA - TULIP POPLAR 6" CALIPER 16'HT
QVL	21	QUERCUS VIRGINIANA LIVE OAK 6" CALIPER; 16' HT 12' SPRD
TDC	19	TAXODIUM DISTICHUM BALD CYPRESS, 4" CAL.
ARM	3	ACER RUBRUM RED MAPLE 4"
PPL	44	PINUS PALUSTRIS LONG LEAF PINE, 2" MIN CAL., BUFFER PLANTING
*POS	3	PLANTANUS OCCIDENTALIS AMERICAN SYCAMORE 6" CAL. 16' MIN. HT.

Palms

SPB	15	SABAL PALMETTO SABAL PALM (ENHANCED ROOT BALL/NO HURRICANE CUTS) 14" CLEAR-TRUNK HEIGHTS
-----	----	--

Shrubs

*ATB	35	ASCLEPIAS TUBEROSA - BUTTERFLY MILKWEED - 3 GAL AS SHOWN
VOD	104	DWARF WALTERS VIBURNUM, VIBURNUM OBOVATUM 'DENSEA', 7 GAL, 3' OC
*EHC	36	ERYTHRINA HERBACEA CORAL BEAN 3' OC 7 GAL
HQO	32	HYDRANGEA QUERCIFOLIA - OAK LEAF HYDRANGEA - 7 GAL AS SHOWN
IVN	129	ILEX VOMITORIA DWARF YAUPON HOLLY, 3 GAL.
*LSB	29	LIATRIS SPICATA - BLAZING STAR - 3 GAL AS SHOWN
SRS	151	SERENOA REPENS - SAW PALMETTO - 7 GAL AT 4' OC
ZFC	145	ZAMIA FLORIDANA COONTIE 30" OC 7 GALLON 12" SPREAD WITH FULL FOLIAGE
YCF	29	YUCCA FILAMENTOSA 'COLOR GUARD', VARIEGATED YUCCA 3 GAL. @ 3'OC
VAB	66	VACCINIUM ARBORETUM SPARKLEBERRY, 7 GAL.

(*) - ASTERISK INDICATES NATIVE PLANTS WHICH HAVE BEEN APPROVED PREVIOUSLY BY THE SCENIC CORRIDOR DESIGN REVIEW BOARD AND WALTON COUNTY PLANNING DIRECTOR.

Groundcovers & Vines

ASW	3,630	ARISTIDA STRICTA WIREGRASS 1 GAL, 18" OC,
CCS	1,216	CONRADINA CANESCENS SCRUB MINT 2' OC FULL GALLONS
HFD	902	HEMEROCALLIS FULVA - DAY LILY FULL GALLONS AT 12" OC
MCG	290	MUHLENBERGIA CAPILLARIS - MUHLY GRASS 3-GAL 30"OC
*GPB	402	GAILLARDIA PULCHELLA- BLANKET FLOWER FULL-GALLONS 12" OC
JBP	460	JUNIPERUS CONFERTA 'BLUE PACIFIC' - DWARF SHORE JUNIPER 18" OC FULL-GALLONS
TFD	1,460	TRIPACUM DACTYLOIDES DWARF FAKAHATCHEE GRASS 3 GAL, 24" OC
LMG	1,680	LICANIA MICHAUXII GOPHER APPLE 1GAL., FULL, 12" OC
NWM	1650	SF NORTHWEST FLORIDA NATIVE WILDFLOWER MIX (NWM MIX CONSISTS OF 1/2 LB OF EACH: 1)RUDBECKIA HIRTA/BLACK EYED SUSAN; 2)ECHINECEA PURPUREA/ PURPLE CONEFLOWER; 3)RUDBECKIA HIRTA/ GLORIOSA DAISY 'PERENNIAL VARIETY'; 4)PHLOX DRUMMONDI/DRUMMOND PHLOX; 5)GAILLARDIA PULCHELLA/INDIAN BLANKET; 6)COREOPSIS LANCEOLATA/LANCE LEAF COREOPSIS) MIX SEED IN THE WEIGHT SPECIFIED AND APPLY TO PREPARED, BARE SOIL AS INDICATED ON PLAN.
SOD	16,350	SF BERMUDA GRASS 'TIF-TUFF HYBRID'

SOD - TURFGRASS - ALL EXISTING LAWN/TURF AREAS (WITHIN THE PROJECT LIMITS) THAT ARE DAMAGED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RESTORED WITH TOPSOIL AND SODDED WITH 'TIF-TUFF' HYBRID BERMUDA GRASS LAID SOLIDLY WITH CLOSELY ABUTTING JOINTS. CONTRACTOR SHALL ESTIMATE THE SOD QUANTITY REQUIRED AND PROVIDE A SF PRICE WITH BID. SOD ON SLOPES OF 2:1 OR GREATER SHALL BE PINNED WITH SOD STAPLES.

RECOMMENDED MAINTENANCE GUIDELINES

1. **PRUNING** | PLANTS SHALL BE PRUNED REGULARLY TO REMOVE ALL BROKEN, DEAD AND DISEASED LIMBS, ANY CROSS-RUBBING WOOD, SUCKERS AND WATER SPROUTS. SIGNIFICANT PRUNING SHOULD BE DONE IN LATE WINTER OR SPRING. NEVER REMOVE MORE THAN ONE-QUARTER OF A LIVE TREE CROWN IN A SINGLE YEAR. DO NOT PRUNE WHEN THE FLUSH OF NEW SPRING LEAVES IS FORMING. DO NOT PRUNE BRANCHES WITH A FLUSH CUT, BUT INSTEAD CUT TO THE OUTSIDE OF THE BRANCH COLLAR. ALL PRUNING CUTS SHALL BE CLEAN AND FREE OF ANY PAINTS OR SEALERS. SPRING FLOWERING SHRUBS SHALL BE PRUNED IMMEDIATELY AFTER SPRING BLOOMING. SUMMER FLOWERING SHRUBS SHALL BE PRUNED IN LATE WINTER. AVOID EXCESSIVE "SHEARING" OF SHRUBS, WHICH PROMOTES UNHEALTHY GROWTH CONDITIONS. PRUNE SHRUBS IN THE SPRING AND SUMMER BY ALTERNATING HEADING BACK AND SHEARING TECHNIQUES. MINIMIZE FALL PRUNING AS THIS ENCOURAGES NEW GROWTH, WHICH IS SUSCEPTIBLE TO COLD DAMAGE. HEDGES SHALL BE TRIMMED SO THAT THE BOTTOM IS WIDER THAN THE TOP. SHRUBS SHALL BE PRUNED NO LESS THAN, BUT NOT LIMITED TO THE REQUIRED HEIGHT OF THE SITUATION FOR WHICH IT IS BEING UTILIZED, I.E., PERIMETER SHRUB AT MINIMUM 30", SIGHT-TRIANGLE HEIGHT OF NO HIGHER THAN 2.5 FEET, OR ANY OTHER VISUAL HEIGHT REQUIREMENTS. MAINTAIN THE SIZE AND PROPORTION OF PLANTS TO EACH OTHER AND THE SURROUNDING LANDSCAPE.
2. **FERTILIZER** | APPLICATION OF FERTILIZER SHALL COMPLY WITH THE WALTON COUNTY FERTILIZER ORDINANCE. FERTILIZER MAY BE APPLIED IN THE SPRING AND FALL (USE LOW NITROGEN IN THE FALL). IN THE SPRING BROADCAST 15-5-15 FERTILIZER OVER THE AREA OF ROOT GROWTH AT A RATE OF SIX (6) POUNDS PER 1,000 SQUARE FEET. IN THE FALL BROADCAST 15-5-15, 5-5-20, 5-0-15 OR 5-0-20 FERTILIZER OVER THE AREA OF ROOT GROWTH AT A RATE OF TEN (10) POUNDS PER 1,000 SQUARE FEET. USE A GRANULAR, NON-BURNING PRODUCT, WITH MICRONUTRIENTS AND HALF OF THE NITROGEN IS TO BE IN A SLOW-RELEASE FORM. FOR AZALEAS, CAMELIAS, GARDENIAS, AND DOGWOODS, USE A SPECIFIC, ACID-RICH FORMULA. FOR PALMS USE SPECIAL PALM FERTILIZERS WHICH CONTAIN EQUIVALENT RATES OF NITROGEN AND POTASSIUM, MICRONUTRIENTS AND ADDITIONAL MAGNESIUM. FERTILIZER SHALL BE APPLIED PER MANUFACTURER'S INSTRUCTIONS. NUTRIENT ABSORPTION WILL BE AFFECTED BY SOIL PH. SPECIFIC EVALUATION OF THIS NUTRIENT/PH RELATIONSHIP MAY BE NECESSARY IF PLANT PERFORMANCE IS LOW. (NOTE: FERTILIZER SHALL NOT BE USED FOR INSTALLATION OR MAINTENANCE OF PLANTINGS LOCATED WITHIN COUNTY RIGHT-OF-WAY OR LOCATED WITHIN THE STORMWATER MANAGEMENT FACILITIES)
3. **PEST CONTROL** | PEST CONTROL SHALL ONLY BE APPLIED, AS NECESSARY. AN INTEGRATED PEST MANAGEMENT SYSTEM FOR ESTABLISHING A HEALTHY ENVIRONMENT FOR PROPER GROWTH CONDITIONS IS THE PREFERRED METHOD FOR PEST CONTROL. NON-TOXIC HORTICULTURAL OIL RECOMMENDED. APPLY A BROAD-SPECTRUM FOLIAR HERBICIDE TO MULCHED AREAS AS NEEDED BY SPOT SPRAYING. APPLY PRE-EMERGENT FOLIAR HERBICIDE SPRAY TO LAWNS IN LATE WINTER AND POST EMERGENT FOLIAR HERBICIDE SPRAY TO LAWNS IN EARLY SPRING.
4. **MOWING** | MOW TURF TO A CONSISTENT HEIGHT OF 1.5"-2" FOR ZOYSIA GRASS 2-3" FOR CENTIPEDE AND 3-4" FOR ST. AUGUSTINE AT A MINIMUM OF TWO-WEEK INTERVALS DURING GROWING SEASON. USE A MULCHING MOWER TO RECYCLE NUTRIENTS. DE-THATCHING AND AERATION MAY BE PERFORMED EVERY 2-3 YEARS OR AS NEEDED.
5. **WATERING** | THE MINIMUM WATERING SCHEDULE FOR NEWLY PLANTED MATERIAL SHALL BE EQUIVALENT TO A MINIMUM OF 1" OF RAINFALL PER WEEK. WATER SHOULD BE APPLIED IN THE EARLY MORNING HOURS. WATER REGULARLY FOR TWO YEARS OR UNTIL ESTABLISHED. DEEP, INFREQUENT SOAKINGS, WHICH ALLOW THE SOIL MOISTURE TO DRAIN, IS THE WATERING METHOD PREFERRED FOR ESTABLISHED PLANTS. THIS TYPE OF SOAKING WILL ENCOURAGE A DEEP ROOT SYSTEM, WHICH WILL ENABLE THE PLANTS TO WITHSTAND PERIODS OF DROUGHT.

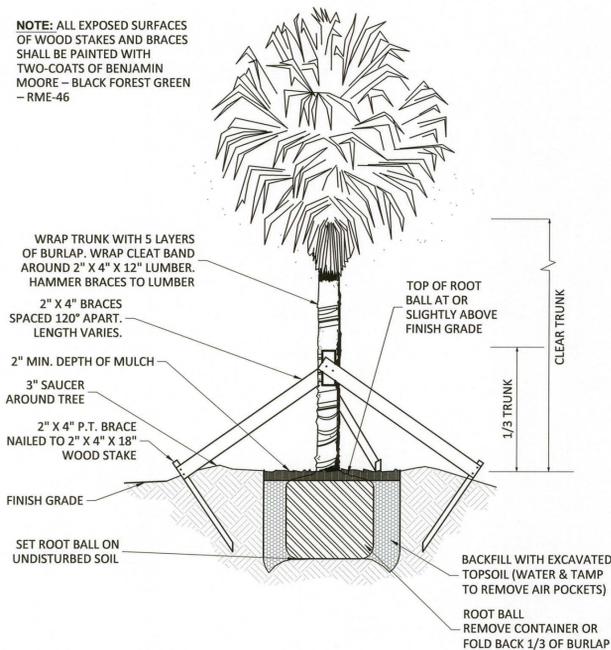
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EXISTING TREE SCHEDULE

SYM	COMMON NAME	DISPOSITION
3	Bald Cypress	REMAIN
4	Bald Cypress	REMAIN
5	Bald Cypress	REMAIN
6	Bald Cypress	REMAIN
7	Bald Cypress	REMAIN
9	Bald Cypress	REMAIN
10	Bald Cypress	REMAIN
11	Bald Cypress	REMAIN

(REFER TO TOPO/TREE SURVEY FOR LOCATIONS)

NOTE: ALL EXPOSED SURFACES OF WOOD STAKES AND BRACES SHALL BE PAINTED WITH TWO-COATS OF BENJAMIN MOORE - BLACK FOREST GREEN - RME-46



PURSUANT TO A.A.N. STANDARDS CALIPER MEASUREMENTS SHALL BE MADE 6 INCHES ABOVE GROUND LEVEL (ROOTBALL) UP TO AND INCLUDING 4 INCH CALIPER; 12 INCHES ABOVE GROUND LEVEL FOR LARGER SIZES.

("DUCKBILL" GUYING SYSTEM IS AN ACCEPTABLE ALTERNATIVE TO BELOW)

PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE

FLAG GUYING WIRES WITH SAFETY ORANGE COLORED SURVEYOR'S FLAGGING TAPE

MAINTAIN GUYING & SAFETY FLAGS FOR ONE YEAR; THEN REMOVE

RUBBER HOSE 1" DIA. (8" MIN.) TO PROTECT BARK FROM WIRE

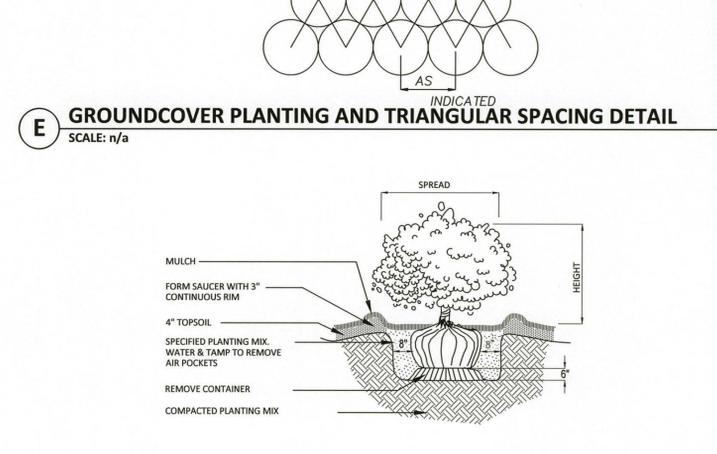
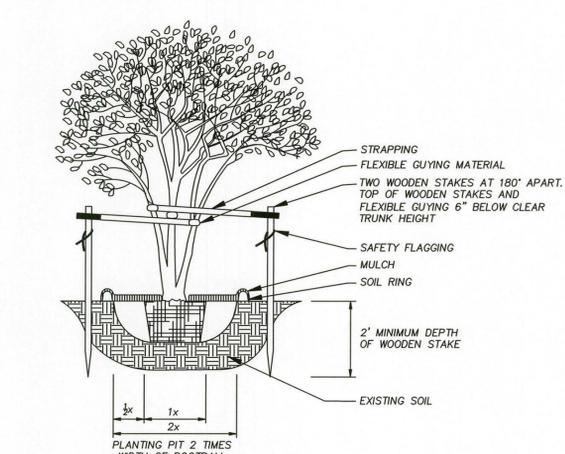
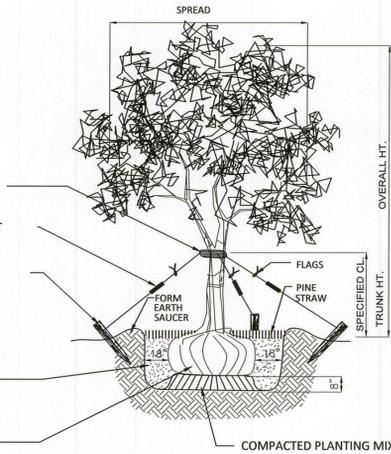
3) GUYING WIRES 2 STRAND TWIST 12 GAUGE WIRE W/ TURNBUCKLE

3) 2"X4"X24" PRESSURE TREATED STAKES - TOP OF STAKE 6" ABOVE GROUND

PAINT W/SAFETY ORANGE SOLUBLE MARKING PAINT

SPECIFIED PLANTING MIX WATER & TAMP TO REMOVE AIR POCKETS

REMOVE CONTAINER



E GROUNDCOVER PLANTING AND TRIANGULAR SPACING DETAIL

SCALE: n/a

A LARGE PALM PLANTING DETAIL

SCALE: n/a

B TREE PLANTING DETAIL

SCALE: n/a

C MULTI-TRUNK TREE PLANTING DETAIL

SCALE: n/a

D SHRUB PLANTING DETAIL

SCALE: n/a



NO.	DESCRIPTION	DATE	BY

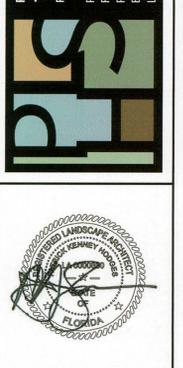
DESIGNED BY: PKH
DRAWN BY: CRS,AHB
CHECKED BY: PKH,CRS
APPROVED BY: PKH

PLANTING SCHEDULE, NOTES AND DETAILS

GRAYTON BEACH PARKING AREA
COUNTY HIGHWAY 283 SOUTH
SANTA ROSA BEACH 32459

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

PREPARED BY:
THE PATRICK HODGES LAND STUDIO
PLANNING + URBAN DESIGN + LANDSCAPE ARCHITECTURE
Post Office Box 611052
Rosemary Beach, FL 32461
Phone: (850) 528-1925
Email: patrick@ghlandstudio.com
LICENSE NO. LA0000850



Florida L.A. # LA0000850
PROJECT NO.: 19-0328.004
SCALE:
DATE: 8/1/2023
DRAWING: L-3



DAHOON HOLLY



SWEETGUM



MAGNOLIA 'DD BLANCHARD'



SWEETBAY MAGNOLIA



TULIP POPLAR



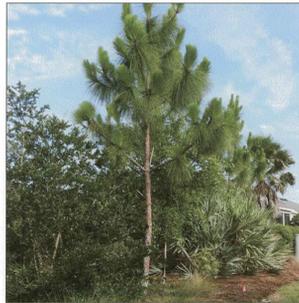
LIVE OAK



BALD CYPRESS



RED MAPLE



LONGLEAF PINE



AMERICAN SYCAMORE

TREES



BUTTERFLY MILKWEED*



DWARF WALTERS VIBURNUM



CORAL BEAN*

SHRUBS



OAK LEAF HYDRANGEA



YAUPON HOLLY



BLAZING STAR*



SAW PALMETTO



COONTIE



YUCCA FILAMENTOSA



SPARKLEBERRY

GROUNDCOVERS



DWARF FAKAHATCHEE GRASS



GOPHER APPLE

GROUNDCOVERS



SCRUB MINT



DAYLILY



MUHLY GRASS



BLANKET FLOWER*



BLUE PACIFIC JUNIPER

WILDFLOWER MIX



PURPLE CONEFLOWER & BLACK EYED SUSAN



GLORIOSA DAISY



DRUMMOND PHLOX



COREOPSIS & INDIAN BLANKET

(*) - ASTERISK INDICATES NATIVE PLANTS WHICH HAVE BEEN APPROVED PREVIOUSLY BY THE SCENIC CORRIDOR DESIGN REVIEW BOARD AND WALTON COUNTY PLANNING DIRECTOR.

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



GRAYTON BEACH
PARKING AREA
COUNTY HIGHWAY 283 SOUTH
SANTA ROSA BEACH 32459

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

PREPARED BY:
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LICENSE No. LA0000850



Florida L.A. #	LA0000850
PROJECT NO.:	19-0328.004
SCALE:	
DATE:	8/1/2023
DRAWING:	L-4

ELECTRICAL LEGEND

- "B" INDICATES FIXTURE TYPE; MARKS ACROSS RACEWAY RUN INDICATES THE NUMBER OF 10 CONDUCTORS; UNLESS NOTED OTHERWISE NO MARKS INDICATES TWO NO. 10 CONDUCTORS AND ONE NO. 10 GREEN GROUND CONDUCTOR IN 3/4" CONDUIT (2#10 & 1#10 GND-3/4"C)
- POLE MOUNTED FIXTURE
- RACEWAY INSTALLED CONCEALED IN FLOOR SLAB AND/OR BELOW GRADE
- PHOTOCELL; EQUAL TO TORK MODEL 2101 (120V)
- DIGITAL TIMESWITCH WITH RESERVE POWER; NEMA 3R ENCLOSURE; EQUAL TO TORK DCLC
- PANEL; PROVIDED BY BUILDING ELECTRICAL DESIGNER.

ABBREVIATIONS

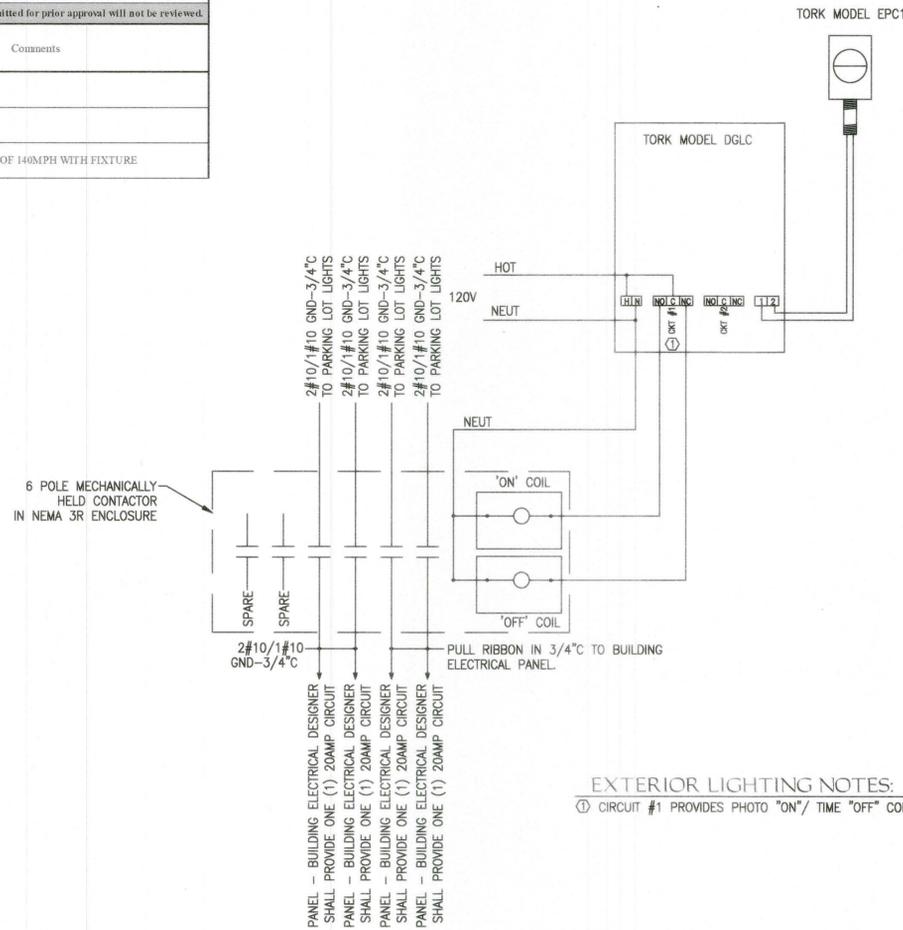
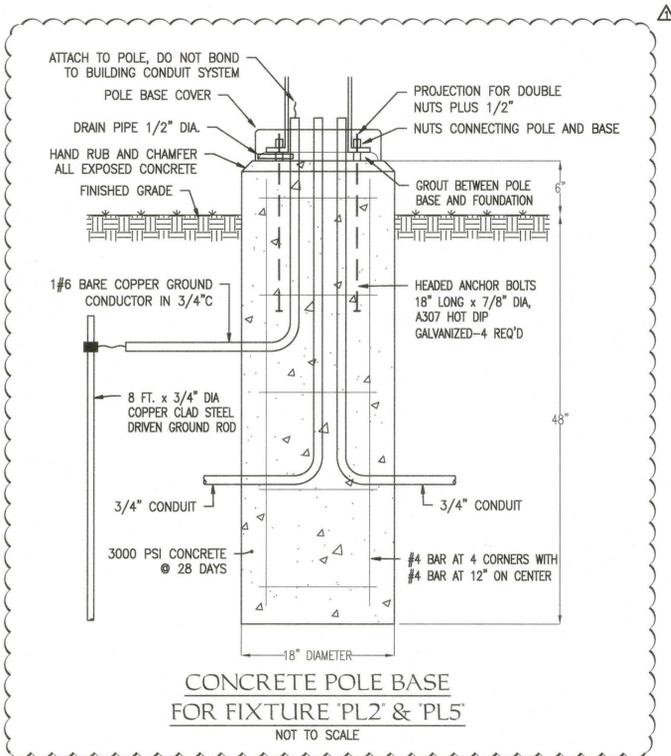
- AFG - ABOVE FINISHED GRADE
- C - CONDUIT
- C/L - CENTERLINE
- EC - ELECTRICAL CONTRACTOR
- EMT - ELECTRICAL METALLIC TUBING
- GND - GROUND CONDUCTOR
- GFI - GROUND FAULT PROTECTION
- IMC - INTERMEDIATE METAL CONDUIT
- LTG - LIGHTING
- LTS - LIGHTS
- PVC - POLYVINYL CHLORIDE CONDUIT
- UNO - UNLESS NOTED OTHERWISE
- WP - WEATHERPROOF
- NEC - NATIONAL ELECTRIC CODE (NFPA-70)

ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- B. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
- C. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
- D. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- E. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- F. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).
- G. PROVIDE BUSHINGS ON ALL CONDUIT.
- H. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- I. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES PRIOR TO PURCHASING.
- J. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
- K. ALL WORK SHALL BE INSTALLED IN CONCEALED TYPE CONSTRUCTION. UNDERGROUND CONDUITS UP TO FIRST BOX IN CONCEALED CONSTRUCTION MAY BE SCH.40 PVC. EXTERIOR EXPOSED WORK SHALL BE I.M.C. BRANCH CIRCUIT CONDUIT RUN IN OPEN SPACES ABOVE CEILING OR IN WALLS MAY BE THINWALL (E.M.T.) CONDUIT 1/2" MIN. SIZE.
- L. ALL CONDUCTORS LESS THAN 100A. SHALL BE COPPER #12 & #10 SOLID, #8 AND LARGER STRANDED, #6 AND SMALLER TO BE TYPE THWN, 600 VOLT INSULATION AND TYPE THWN OR THHN FOR #4 AND LARGER. ALUM. CONDUCTORS MAY BE USED FOR 100A. AND LARGER ONLY WHERE USED WITH COMPRESSION TERMINATIONS.
- M. PROVIDE GROUNDING PER NATIONAL ELECTRIC CODE.
- N. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPLACE WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, (ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED) WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

LIGHTING FIXTURE SCHEDULE

Luminaire Designation	Manufacturer	Catalog Number	Connected Voltage	Luminaire Load (va)	Lamping Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments
PL2	GARDCO	ECF-S-32L-365-WW-G2-2-UNV-BZ	120V	40 VA	LED	>70	3000K	POLE MOUNT 20'-0" AFG	EPA-0.21#2
PL5	GARDCO	ECF-S-32L-365-WW-G2-5W-UNV-BZ	120V	40 VA	LED	>70	3000K	POLE MOUNT 20'-0" AFG	EPA-0.21#2
POLE FOR PL	VALMONT	R190830505T4-D1-DDB	N/A	N/A	N/A	N/A	N/A	CONCRETE BASE	MUST MEET EPA RATING OF 140MPH WITH FIXTURE



EXTERIOR LIGHTING NOTES:
 ① CIRCUIT #1 PROVIDES PHOTO "ON"/ TIME "OFF" CONTROL.

REVISIONS	NO.	DATE	DESCRIPTION	BY	CL
	1	2023-10-18	POLE BASE DETAIL INFO		

DESIGNED BY	CL	CL	CL	DW
DRAWN BY				
CHECKED BY				
APPROVED BY				

LEGEND, NOTES, AND DETAILS

GRAYTON BEACH PARKING AREA
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

DRMP
 ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS

Certificate of Authorization No. 2648
 1096 Hwy 90 - Chipley, Florida 32428
 850.638.1086 www.drmp.com

Florida Engineer # 73790
 PROJECT NO. 19-0328.004
 SCALE: N.T.S.
 DATE: 03/29/23
 DRAWING: E001

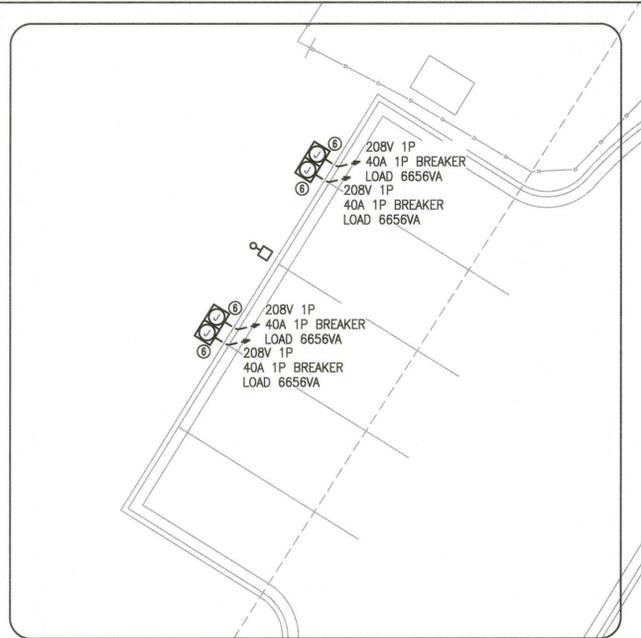
HIC ENGINEERS

HG Engineers
 521 N. Tyndall Pkwy. Unit C
 Panama City, FL 32404
 E-mail: info@hicengineers.com
 P: 850.243.8723
 F: 850.243.8723

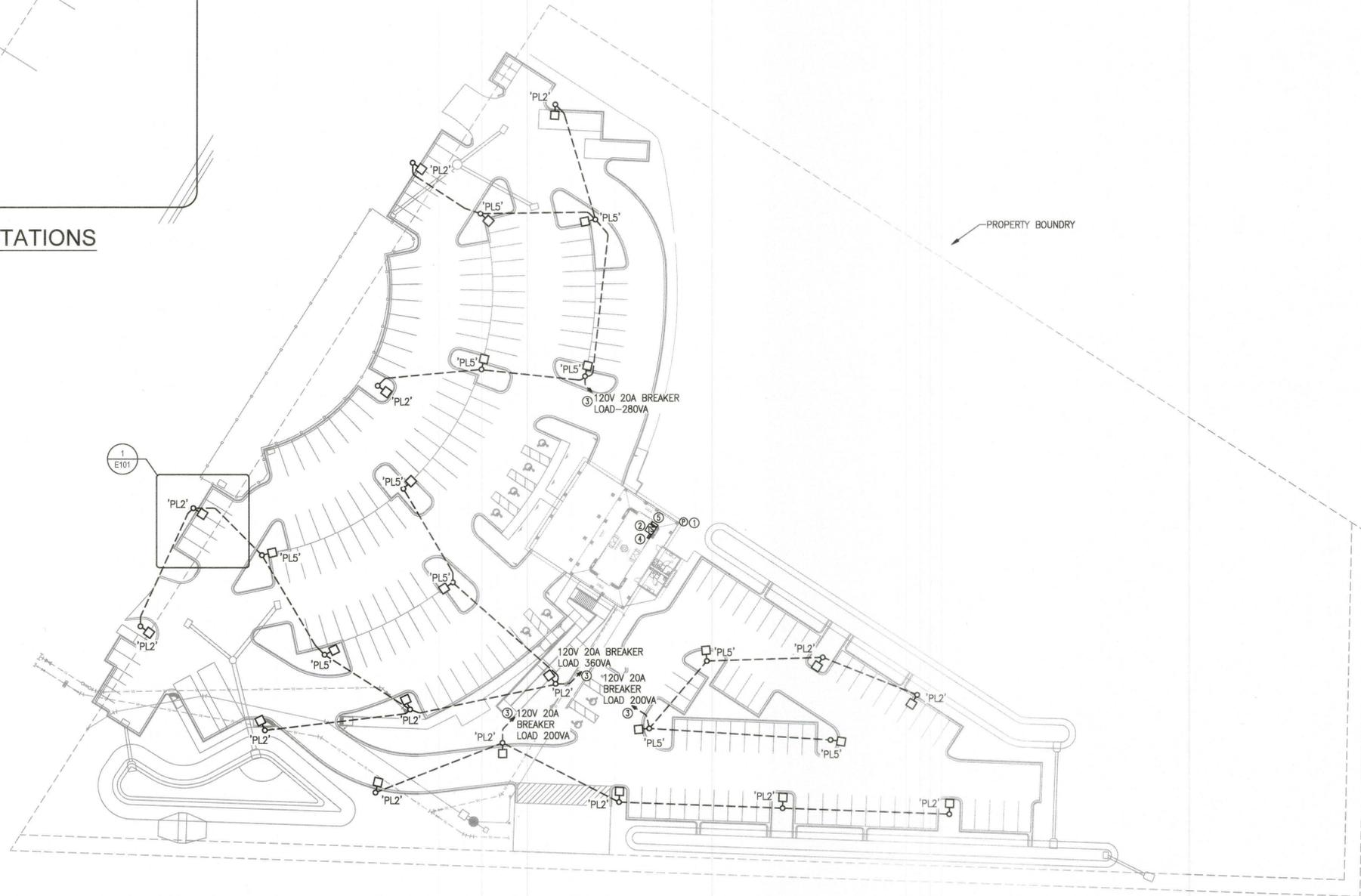
Christopher A. Garcia, FL PE No. 53034
 Thomas A. Alexander, FL PE No. 73172
 Daniel W. White, FL PE No. 73190
 Casey W. Leonard, FL PE No. 91782

2126
 Job No.

J:\current_jobs\21\2126 - grayton beach parking facility\Drawings\working\Sheets\E101 SITE PLAN - ELECTRICAL.dwg Plotted: Mar 25, 2024 - 7:51am by dwhite



1 EV CHARGING STATIONS
1/8" = 1'-0"



NOTES

- ① MOUNT PHOTOCELL AS HIGH AS POSSIBLE FACING NORTH. COORDINATE WITH BUILDING ELECTRICAL DESIGNER.
- ② COORDINATE LOCATION OF TIMSWITCH WITH BUILDING ELECTRICAL DESIGNER.
- ③ BUILDING ELECTRICAL DESIGNER SHALL PROVIDE 2 #10, #10G, IN 1" C CIRCUIT FOR PARKING LOT LIGHTING.
- ④ BUILDING ELECTRICAL DESIGNER SHALL PROVIDE ELECTRICAL PANEL LOCATION.
- ⑤ FOUR 1-POLE 60 AMP LIGHTING CONTACTOR IN NEMA 3R ENCLOSURE. COORDINATE LOCATION AND MOUNTING WITH BUILDING ELECTRICAL DESIGNER
- ⑥ ELECTRIC VEHICLE CHARGING STATION. CIRCUIT PROVIDED BY BUILDING ELECTRICAL DESIGNER; 2#4, #6G, IN 1" C SIZED TO MITIGATE VOLTAGE DROP; 40A 2 POLE BREAKER IN PANEL. COORDINATE WITH CIVIL AND MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH IN. PROVIDE ALL POWER AS NECESSARY FOR A FULLY FUNCTIONING CHARGING STATION AS SPECIFIED.

REVISION	DATE	DESCRIPTION	BY

DESIGNED BY: CL
DRAWN BY: CL
CHECKED BY: CL
APPROVED BY: DW

SITE PLAN - ELECTRICAL

GRAYTON BEACH PARKING AREA
COUNTY HIGHWAY 283 SOUTH
SANTA ROSA BEACH 32459

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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1096 Hwy 90 ~ Chipley, Florida 32428
850.638.1086 www.drmp.com



Florida Engineer # 73790
PROJECT NO. 19-0328.004
SCALE: N.T.S.
DATE: 03/29/23
DRAWING: E101

SITE PLAN - ELECTRICAL
1" = 40'-0"
0 20' 40' 80'

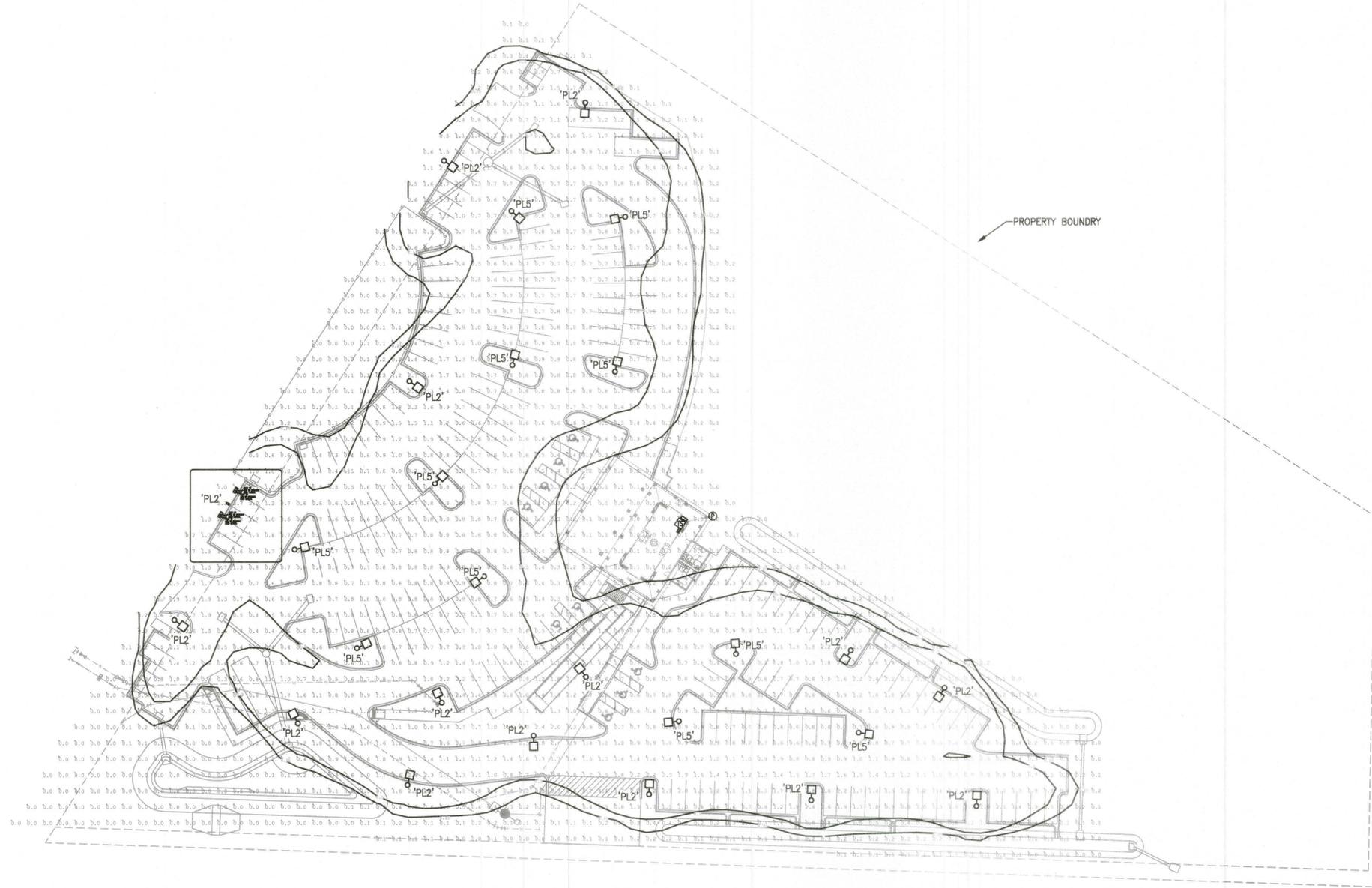
HIGERS
HG Engineers
521 N. Yondal Pkwy, Unit C
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Ph: 850.243.6723
FL Authorization No. 00006680
Christopher A. Garcia, FL PE No. 53934
Thomas A. Alexander, FL PE No. 73172
Daniel A. Villar, FL PE No. 73790
Caleb W. Leonard, FL PE No. 91782

2126
Job No.

J:\current_jobs\jobs-21\2126 - grayton beach parking facility\Drawings\workingset\Sheets\EP101 SITE PLAN - PHOTOMETRIC STUDY.dwg Plotted: Mar 25, 2024 - 7:51am by dwhite

Luminaire Schedule						
Label	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
PL2	15	Fixture PL2	SINGLE	N.A.	0.900	ECF-S-32L-365-WW-G2-2
PL5	11	Fixture PL5	SINGLE	N.A.	0.900	ECF-S-32L-365-WW-G2-5W

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
PARKING LOT	Planar	Illuminance	Fc	0.69	3.3	0.0	N.A.	N.A.



SITE PLAN - PHOTOMETRIC STUDY

1" = 40'-0" 0 20' 40' 80'



HIG ENGINEERS
 HQ Engineers
 821 N. Tyndal Pkwy, Unit C
 Panama City, FL 32404
 E-mail: office@higengineers.com
 Ph: 850.243.6723
 FL Authorization No. 00056580
 Christopher A. Garick, FL PE No. 53924
 Thomas A. Alexander, FL PE No. 73172
 Daniel J. White, FL PE No. 73790
 Caleb W. Leonard, FL PE No. 91782

2126
Job No.

Florida Engineer # 73790
 PROJECT NO.
 19-0328.004

SCALE: N.T.S.

DATE: 03/29/23

DRAWING: EP101



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 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
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 1096 Hwy. 90 ~ Chipley, Florida 32428
 850.638.1086 www.drmp.com



Florida Engineer # 73790
 PROJECT NO.
 19-0328.004

SCALE: N.T.S.

DATE: 03/29/23

DRAWING: EP101

**SITE PLAN -
 PHOTOMETRIC STUDY**

GRAYTON BEACH
 PARKING AREA
 COUNTY HIGHWAY 283 SOUTH
 SANTA ROSA BEACH 32459

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

DESIGNED BY	CL	DATE	DESCRIPTION	BY
DRAWN BY	CL			
CHECKED BY	CL			
APPROVED BY	DW			

GRAYTON BEACH TRANSIT FACILITY WALTON COUNTY FLORIDA

SYMBOL LEGEND

MATERIAL SYMBOLS	
EARTH	PLYWOOD
ACCUSTICAL TILE	ACCUSTICAL OR CERAMIC TILE
CONCRETE	GW/PLASTER/STUCCO/BOUQUET
CONCRETE MASONRY UNIT	RIGID INSULATION
BRICK	FIRE SAFING/COMB FILLER
FINISHED WOOD	BATT INSULATION
ROUGH WOOD (CONTIGUOUS)	LATH
ROUGH WOOD (NOT CONTIGUOUS)	BIT DAMPROOFING

GENERAL SYMBOLS	
DETAIL NUMBER	DETAIL TITLE
SHEET REFERENCE	SCALE 1/4" = 1'-0"
SECTION NUMBER	BUILDING SECTION
SHEET REFERENCE	
SECTION NUMBER	SECTION CUTS
SHEET REFERENCE	
ROOM NAME	FINISH FLOOR ELEVATION
ROOM NUMBER	INTERIOR ELEVATION
DOOR MARK	EXTERIOR ELEVATION
WINDOW MARK	COLUMN REFERENCE AND GRID LINES
WALLTYPE MARK	

ABBREVIATIONS	
AT	ACCUSTICAL TILE
AD	AREA DRAIN
AE	ARCHITECT ENGINEER
AF	AIR HANDLING UNIT
AP	APPROXIMATE
AR	ARCHITECTURAL
BS	BOARD
BT	BUTANOUS
BG	BUILDING
BL	BLOCK
BK	BLOCKING
BM	BEAM
BS	BOTTOM
BS	BRICK
BR	BRICK
BR	BUILT UP ROOFING
CEM PL	CEMENT PLASTER
CFD	CONTRACTOR FURNISHED
CI	CONTRACTOR INSTALLED
CHM	CHEMICAL
CI	CONTROL JOINT/CONSTRUCTION JOINT
CL	CENTER LINE
CLC	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONF	CONFERENCE
CONTR	CONTRACTOR
CP	CARPET(S)
CT	CERAMIC TILE
DEM	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DM	DIMETER
DM	DIMENSION
DN	DOWN
DR	DOOR
DWG	DRAWING(S)
E	EAST
EA	EACH
EL	ELEVATION JOINT
ELC	ELECTRICAL
ELV	ELEVATION
EQ	EQUIPMENT
EW	ELECTRIC WATER COOLER
EXST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FOUNDATION
FE	FIRE EXTINGUISHER
FF	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFC	FIRE HOSE CABINET
FF	FIREHOSE
FF	FUTURE
FF	FLOOR
FF	FACE OF
FF	FOOTPRINT
FF	FOOTING
FF	GAGE/GAUGE
FF	GALV
FF	GALVANIZED
FF	GUSSETING
FF	Gypsum WALL BOARD
FF	Gypsum
FF	HANDICAP ACCESSIBLE
FF	HARDWARE
FF	HOLLOW METAL
FF	HOUR
FF	HIGH/RISE
FF	HEATING VENTILATING AND AIR CONDITIONING
FF	RES
FF	RESISTANT
FF	RESISTANCE
FF	ROUGH OPENING
FF	INTERIOR
FF	INSULATION
FF	INT
FF	JOINT
FF	LENGTH
FF	LAUNDRY
FF	LINEAL FEET
FF	MAX
FF	MECH
FF	METAL
FF	MFR
FF	MANUFACTURER
FF	MIX
FF	MISCELLANEOUS
FF	N
FF	NORTH
FF	NOT APPLICABLE
FF	NOT IN CONTRACT
FF	NUMBER
FF	NOM
FF	NOMINAL
FF	NOT TO SCALE
FF	NTS
FF	VECT
FF	VENT COMPOSITION TABLE UNLESS OTHERWISE NOTED
FF	VERT
FF	VENT THRU ROOF
FF	VINT WALL COVERING
FF	W
FF	WEST/WIDTH
FF	WITH
FF	WITHOUT
FF	WORK POINT

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CODES REFERENCED IN THESE DOCUMENTS AND AS ADOPED AND SUPPLEMENTED BY LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL BUILDING PERMITS FROM THE LOCAL BUILDING DEPARTMENTS AS REQUIRED BY CITY/COUNTY REGULATIONS. FEES FOR SUCH PERMITS SHALL BE PAID BY THE CONTRACTOR AND A SET OF APPROVED DRAWINGS AND ORIGINAL PERMITS SHALL BE RETAINED ON SITE FOR THE DURATION OF THE PROJECT.
3. THE DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDES OVERALL DIMENSIONAL PARAMETERS AND DESCRIBES ELEMENTS TO BE CONSTRUCTED. THE CONTRACTOR SHALL ADJUST DIMENSIONS AND DETAILS AS REQUIRED TO FIT EXISTING CONDITIONS. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ALL PROPOSED MODIFICATIONS.
4. NO CHANGES TO THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ARCHITECT OR ENGINEER, AS APPLICABLE.
5. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES ON THESE DOCUMENTS.
6. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF F.B.C. FOR SAFETY STANDARDS PERTAINING TO CONSTRUCTION PROCEDURES.
7. ALL GLAZING AND GLASS SHALL BE IMPACT RESISTANT GLASS. A FLORIDA APPROVED TESTING AGENCY MUST APPROVE AND LIST SUCH GLASS.
8. ALL EXTERIOR COMPONENTS SHALL HAVE FLORIDA APPROVAL NUMBERS.
9. ALL EXTERIOR DOORS SHALL BE IMPACT RATED ASSEMBLIES.

SHOP DRAWINGS

COPIES OF ALL SHOP DRAWINGS FOR STRUCTURAL OR LIFE SAFETY RELATED COMPONENTS SHALL BE SUBMITTED TO THE ARCHITECT & OWNER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT DETAILED FABRICATION AND INSTALLATION DRAWINGS AND PRODUCT LITERATURE FOR THE FOLLOWING ITEMS. ARCHITECT REVIEW OF SHOP DRAWING IS FOR COMPLIANCE OF THE PRODUCT WITH THE DESIGN CONCEPTS DELINEATED IN THESE DOCUMENTS. THE CONTRACTOR AND/OR PRODUCT MANUFACTURER SHALL BE RESPONSIBLE FOR THE ACCURACY AND PERFORMANCE OF THE PRODUCT AND ITS COORDINATION WITH THE OTHER TRADES.

1. STRUCTURAL STEEL
2. METAL STUD FRAMING
3. ROOF TRUSSES, LVL, & PRE-ENGINEERED BEAMS
4. REINFORCING STEEL
5. CONCRETE DESIGN MIXES
6. WATERPROOF MEMBRANES
7. RAILINGS & HANDRAILS
8. ARCHITECTURAL PRE-CAST OR PRE-FORMED COLUMNS
9. APPLIED FOAM TRIM, WINDOW/DOOR HEADS, AND ARCHITECTURAL DETAILING
10. BATHROOM ACCESSORIES & MIRRORS
11. ALL FLOOR, WALL, AND CEILING FINISHES
12. ALL CABINETS
13. ELEVATORS
14. STAIRS AND HANDRAILS
15. ALL HEATING & VENTILATING FINISHES
16. ELECTRICAL FIXTURES & EQUIPMENT
17. ALL PLUMBING FIXTURES
18. DOORS, WINDOWS, AND ALL HARDWARE
19. FIREPLACES
20. APPLIANCES

PERFORMANCE STANDARDS

ALL MATERIALS, PRODUCTS AND THEIR INSTALLATION SHALL MEET THE PRODUCT APPROVAL OF AND BE INSTALLED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED BY THE FOLLOWING AGENCIES, AS APPLICABLE:

- ASTM - AMERICAN SOCIETY OF TESTING MATERIALS
- ACI - AMERICAN CONCRETE INSTITUTE
- AF&PA - AMERICAN FOREST & PAPER ASSOCIATION
- AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- AWI - AMERICAN WOODWORK INSTITUTE
- AWPA - AMERICAN WOOD PRESERVATIVES BUREAU
- ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
- AAMA - ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION
- FBC - FLORIDA BUILDING CODE
- GA - GYPSUM ASSOCIATION
- LSC - LIFE SAFETY CODE
- NIB - NATIONAL EVALUATION SERVICE INC
- NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
- NDW - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
- OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
- SJI - STEEL JOIST INSTITUTE
- TCA - TILE COUNCIL OF AMERICA
- UL - UNDERWRITERS LABORATORIES

BUILDING DESIGN DATA

APPLICABLE CODES

- 2023 florida building code, building, 7th edition
- 2023 florida building code, accessibility, 7th edition
- 2023 florida building code, energy conservation, 7th edition
- 2023 florida building code, plumbing, 7th edition
- 2023 florida building code, mechanical, 7th edition,
- 2023 florida building code, fuel gas, 7th edition
- florida fire prevention code, 8th edition
- national electrical code 2017
- nfpca 101 life safety code 2021 edition w/ amendments
- nfpca 1 2021 edition
- florida statutes
- florida administrative code
- refer to other drawings for other applicable codes

PROJECT DATA

This project consists of two buildings. Building no. 1 is a drop-off waiting facility consisting of a covered drop off / drive through entry, a covered porch, a main waiting area, and restrooms. It is a wood frame structure, type VB construction type, non-firesprinklered. Building no. 2 is a pre-manufactured building consisting of storage areas, office and a bathroom, type VB FBC 2023 & I1000 NFPA construction, non-firesprinklered.

BUILDING 1 CALCS:	TOTAL AREA	= 3,392 SF
	HEATED & COOLED	= 1,646 SF
	COVERED PORCH	= 1,686 SF
	MAIN WAITING AREA	= 874 SF gross, 799 net
	BATHROOMS	= 772 SF
BUILDING 2 CALCS:	TOTAL SF	= 1,800 SF
	STORAGE AREA	= 1280 SF
	OFFICE / BATHROOMS	= 520 SF

ARCHITECT	STRUCTURAL ENGINEER
RUSSELL JOHNSON, ARCHITECT	APEX ENGINEERING GROUP, PLLC
P.O. BOX 1399	78-A RICKER AVENUE
PANAMA CITY, FL. 32401	SANTA ROSA BEACH, FL. 32459
(850) 630-4483	(850) 231-4540
AR 012293	www.apexengineeringgroup.net
rajarch@msn.com	

MECHANICAL ENGINEER	ELECTRICAL ENGINEER
STEPHENS MECHANICAL ENG, LLC	WELCON ELECTRICAL CONSULTANTS, PLLC
925 TOMMY MUNRO DR	14116 CUSTOMS BLVD, SUITE #111
SUITE B	CULFPORT, MS 39503
BILOXI, MS 39532	(228) 822-8300
(228) 207-3322	

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- MAIN BUILDING
- A101 COVER REVISION 1
- A101.5 LIFE SAFETY PLAN
- A102 FOUNDATION PLAN
- A103 FOUNDATION DETAILS
- A104 FLOOR PLAN
- A105 ROOF PLAN
- A106 ROOF PLAN
- A107 ROOF PLAN
- A108 ROOF PLAN
- A109 ELEVATIONS
- A110 ELEVATIONS
- A111 ELEVATIONS
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- A112.1 SECTIONS
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- P100 PLUMBING DETAILS
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- EB001 ELECTRICAL NOTES
- EB101 SITE ELECTRICAL
- EB101 ELECTRICAL SITE
- EB201 LIGHTING PLAN - MAIN BLDG
- EB202 POWER PLAN - MAIN BLDG
- EB310 LIGHTING /POWER - STORAGE BLDG

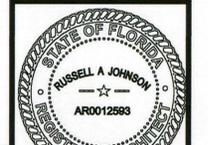
REVISIONS FROM BIDDING SET OF ARCHITECTURAL DOCUMENTS TO PERMIT SET

- REVISION 1: ADD LIFE SAFETY PLAN DWG A101.5, CHANGING FBC CODE REFERENCES FROM 2020 TO 2023.
- REVISION 2: CHANGE CODE REFERENCE FROM FBC 2020 TO FBC 2023 - DWG A109
- REVISION 3: CHANGE CODE REFERENCE FROM FBC 2020 TO FBC 2023 - DWG A113
- REVISION 4: STORAGE BUILDING - ROOF OVERHANG TO BE CONTINUOUS PER CONTRACTOR REQUEST - DWG A115
- REVISION 5: CHANGE CODE REFERENCE FROM FBC 2020 TO FBC 2023 - DWG A116

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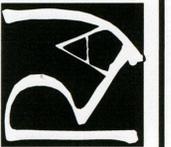
GRAYTON BEACH
TRANSIT FACILITY

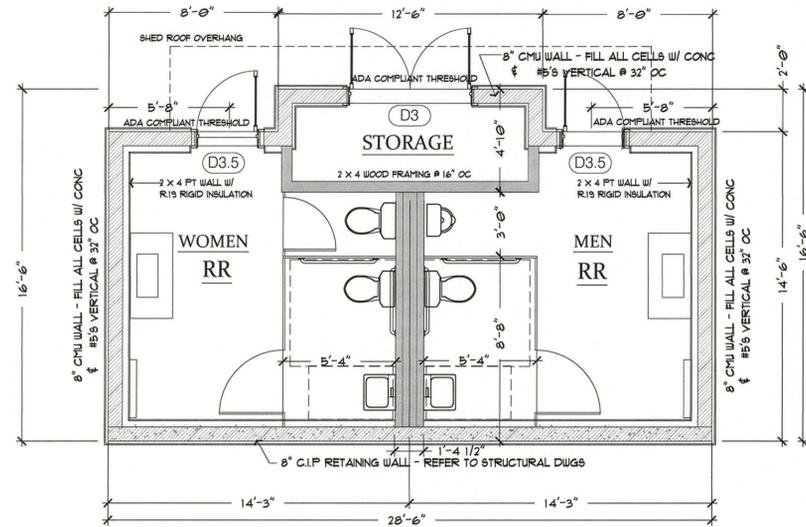
FLORIDA

WALTON COUNTY

A - 101

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**RESTROOM FLOOR PLAN
LOWER PARKING LOT**

DOOR SCHEDULE

REFER TO OTHER DRAWINGS FOR TOILET ACCESSORIES

SYMBOL	TYPE	SIZE	DESCRIPTION	REMARKS
D1	EXTERIOR DBL DOOR	2 (3-0 W, 8-0 H)	FIBERGLASS W/ FULL GLASS	IMPACT RATED W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
D2	EXTERIOR DOOR	3-0 W, 8-0 H	PAINTED METAL, HM FRAME	IMPACT RATED W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
D3	EXTERIOR DBL DOOR	3-0 W, 7-0 H	PAINTED METAL, HM FRAME	IMPACT RATED W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
D3.5	EXTERIOR DOOR	3-0 W, 7-0 H	PAINTED METAL, HM FRAME	IMPACT RATED W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
D4	EXTERIOR DOOR	3-0 W, 7-0 H	PAINTED METAL, HM FRAME	IMPACT RATED W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
D5	OH DOOR - MANUAL	3-0 W, 7-0 H	ALUMINUM OH DOOR	IMPACT RATED W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
D6	OFFICE DOOR, INTERIOR	3-0 W, 7-0 H	PAINTED METAL, HM FRAME	
D7	BATHROOM DOOR	3-0 W, 7-0 H	PAINTED METAL, HM FRAME	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES

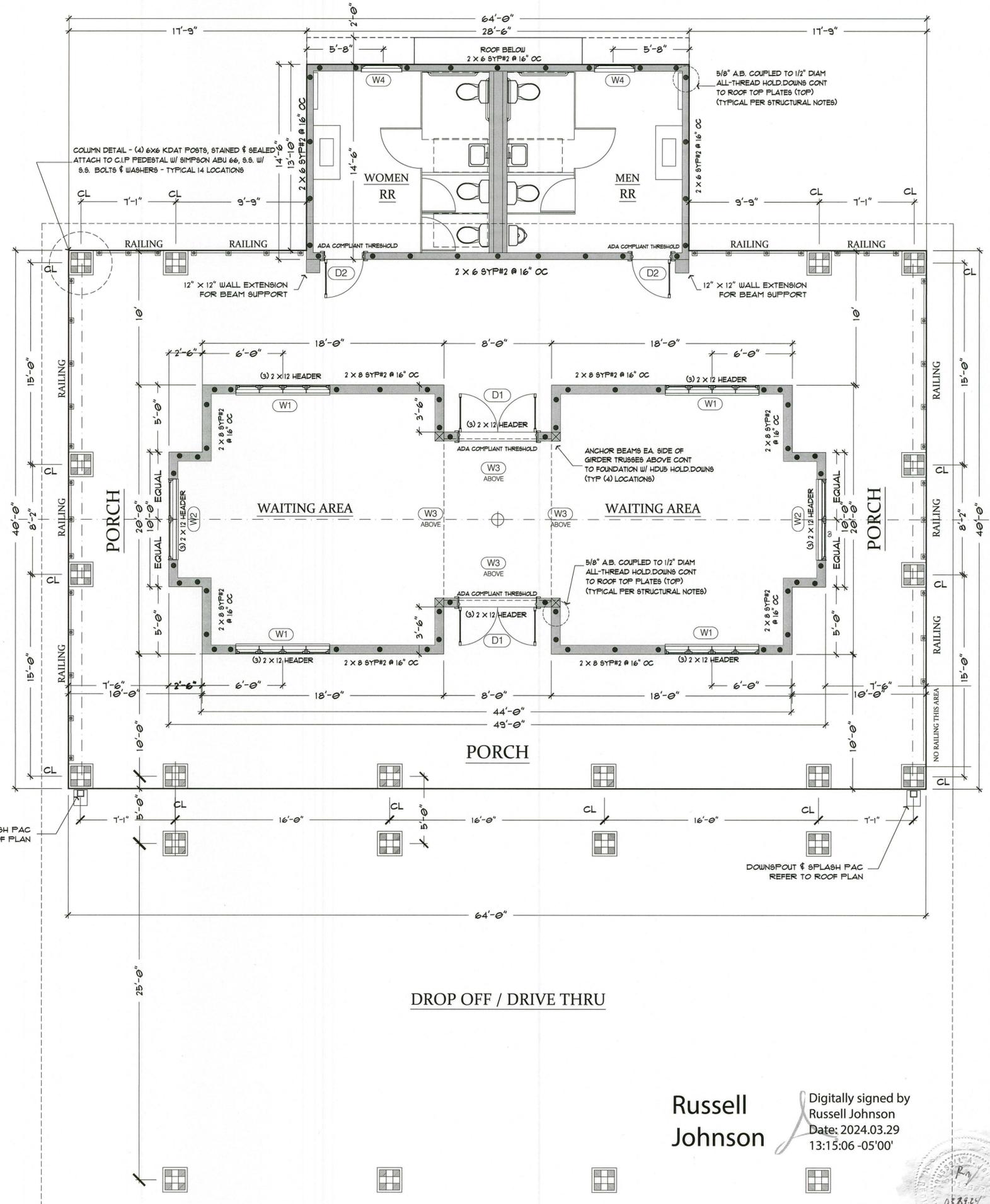
STORAGE BLDG
STORAGE BLDG
STORAGE BLDG
STORAGE BLDG

- DOOR NOTES:**
- EXTERIOR DOORS SHALL BE JELD WEN DESIGN PRO/SMOOTH PRO FIBERGLASS OUTSWING W/ COMPOSITE FRAMES, IMPACT RATED, APPROVED EQUALS ARE ACCEPTABLE. DOORS SHALL BE PAINTED TO MATCH SIDING.
 - ALL DOOR HARDWARE SHALL BE STAINLESS STEEL AND ALL LEVERS / LOCKS / HANDLE SETS SHALL BE COMMERCIAL GRADE ADA COMPLIANT.
 - ALL EXTERIOR DOORS SHALL HAVE FLORIDA PRODUCT APPROVAL NUMBER AND SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS TO MEET APPLICABLE WIND RATINGS (REFER TO STRUCTURAL DWGS).
 - ALL DOORS TO HAVE ADA COMPLIANT THRESHOLDS.
- DOOR GENERAL NOTES:**
- PROVIDE COMPLETE DOOR SUBMITTALS FOR OWNER / ARCHITECT REVIEW AND APPROVAL, INCLUDING COMMERCIAL GRADE HARDWARE. COORDINATE LOCKSETS AND KEYING REQUIREMENTS W/ OWNER.
 - HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" AND 48" A.F.F. U.N.O.
 - REFER TO OTHER DRAWINGS FOR DOOR TYPE AND LOCATIONS.
 - DOOR CLOSER SWEEP PERIOD SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 10 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
 - THE MAXIMUM DOOR OPENING FORCE FOR PUSHING OR PULLING INTERIOR DOORS SHALL BE 5 POUNDS PER FOOT.
 - ALL EXTERIOR DOORS ARE TO OPEN OUTWARD AND ARE TO BE SELF CLOSING.
 - CLOSERS TO BE PARALLEL ARM STYLE WHERE APPLICABLE.
 - DOOR FRAMES TO BE EQUIPPED W/ SILENCER BUTTONS UNLESS GASKETS ARE SPECIFIED.
 - ALL EXTERIOR H.M. DOORS AND FRAMES SHALL BE INSULATED, DOORS TO HAVE WEATHER SEALS.
 - FILL ALL VOIDS IN THRESHOLDS W/ SEALANT TO MATCH GROUT.
- HARDWARE FINISHES AND BASE METALS SHALL BE LISTED BELOW, UNLESS OTHERWISE INDICATED.**
- SATIN STAINLESS STEEL (U832D) AND SATIN CHROMIUM PLATED (U826D) FINISHES AND BASE METALS, UNLESS OTHERWISE INDICATED.
- EXTERIOR HINGERS U832D ON STAINLESS STEEL
 - INTERIOR HINGERS U826D ON STEEL
 - FLUSH BOLTS U826D ON BRASS OR BRONZE
 - LOCKS U832D ON STAINLESS STEEL
 - EXIT DEVICES - 33 SERIES SPRAYED ALUMINUM
 - EXIT DEVICES - 93 SERIES SPRAYED ALUMINUM
 - FULLS, PUSH PLATES/BARS U832D ON STAINLESS STEEL
 - COORDINATORS U8P ON STEEL
 - CLOSERS SPRAYED ALUMINUM
 - OVERHEAD STOPS/HOLDERS U826D ON BRASS OR BRONZE
 - KICKPLATE U832D ON STAINLESS STEEL
 - DOOR EDGE GUARDS U832D ON STAINLESS STEEL
 - ARMOR PLATES U832D ON STAINLESS STEEL
 - STOPS, HOLDERS U826D ON BRASS OR BRONZE
 - THRESHOLDS MILL ON ALUMINUM
 - MISCELLANEOUS U826D ON BRASS OR BRONZE

WINDOW SCHEDULE

SYMBOL	TYPE	SIZE	DESCRIPTION	REMARKS
W1	FIXED GLASS W/ MULLS AS INDICATED	(2) 3-6, 5-0	JELD-WEN PREMIUM ATLANTIC IMPACT OR APPROVED EQUAL	8-0 HEAD HEIGHT
W2	FIXED GLASS	3-0 W, 6-0 H 3-0 W, 2-6 H	JELD-WEN PREMIUM ATLANTIC IMPACT OR APPROVED EQUAL	11-6 HEAD HEIGHT
W3	FIXED GLASS	3-0 W, 2-0 H	JELD-WEN PREMIUM ATLANTIC IMPACT OR APPROVED EQUAL	CUPOLA
W4	FIXED GLASS W/ MULLS AS INDICATED	3-0, 4-4	JELD-WEN PREMIUM ATLANTIC IMPACT OR APPROVED EQUAL	6-8 HEAD HEIGHT
W5	STORAGE BUILDING FIXED GLASS W/ MULLS AS INDICATED	3-0, 4-0	JELD-WEN PREMIUM ATLANTIC IMPACT OR APPROVED EQUAL	7-0 HEAD HEIGHT

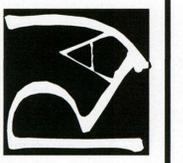
- WINDOW NOTES:**
- WINDOWS SHALL BE JELD WEN PREMIUM ATLANTIC VINYL IMPACT RATED, W/ FLORIDA PRODUCT APPROVAL NUMBER, WHITE, W/ INSULATING GLASS OR APPROVED EQUAL. ALL WINDOWS SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS TO MEET APPLICABLE WIND RATINGS (REFER TO STRUCTURAL DWGS).



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Russell Johnson
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FLOOR PLAN
SCALE: 1/4" = 1'-0"

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DATE: _____

DRAWN: _____ REVIEWED: _____

REVISIONS: _____

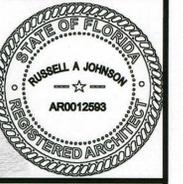
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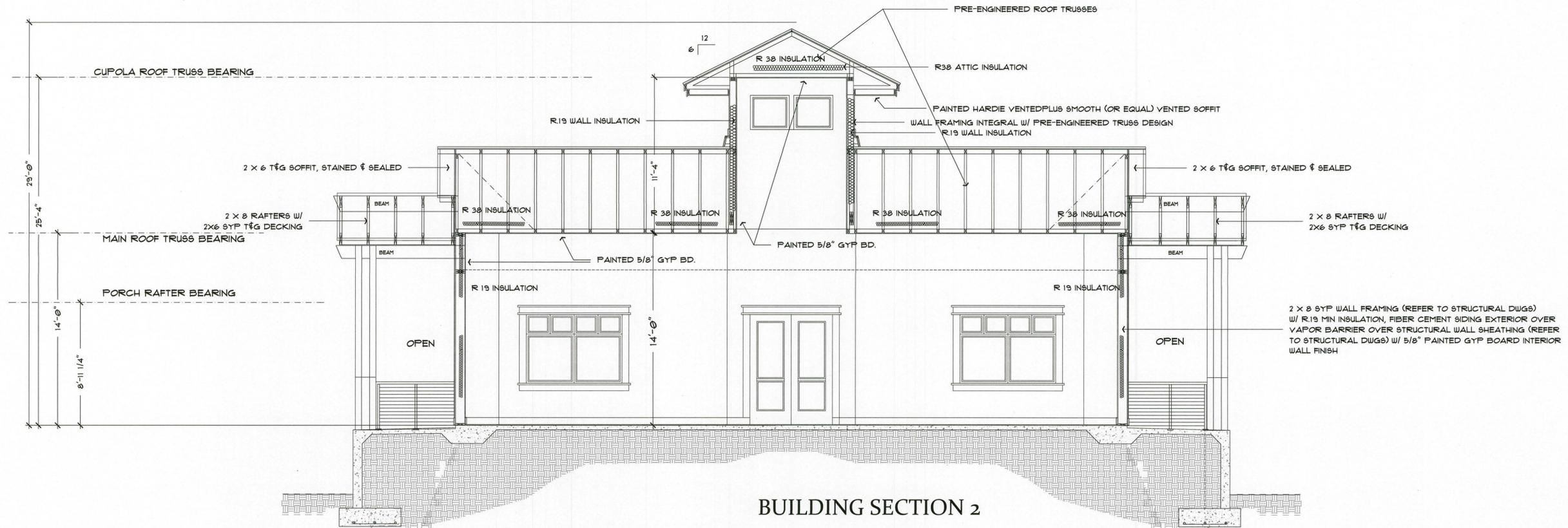
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**GRAYTON BEACH
TRANSIT FACILITY**

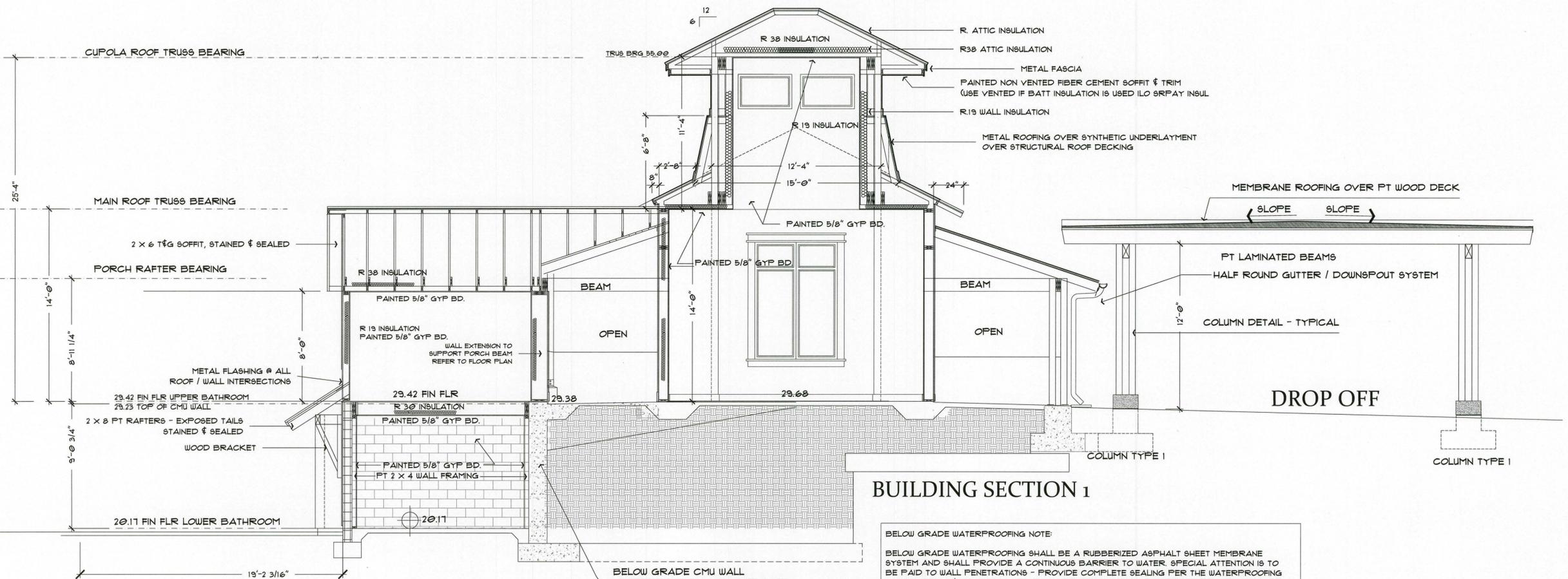
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WALTON COUNTY





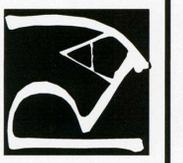
BUILDING SECTION 2



BUILDING SECTION 1

BELOW GRADE WATERPROOFING NOTE:
 BELOW GRADE WATERPROOFING SHALL BE A RUBBERIZED ASPHALT SHEET MEMBRANE SYSTEM AND SHALL PROVIDE A CONTINUOUS BARRIER TO WATER. SPECIAL ATTENTION IS TO BE PAID TO WALL PENETRATIONS - PROVIDE COMPLETE SEALING PER THE WATERPROOFING MANUFACTURER'S REQUIREMENTS. THE RUBBERIZED ASPHALT SHEET MEMBRANES SHALL BE APPLIED OVER A PRIMER - COMPATIBLE W/ THE CONCRETE AND CMU SUBSTRATE AND AS SPECIFIED BY THE MEMBRANE MANUFACTURER. AFTER MEMBRANE IS APPLIED, ROLL W/ SUFFICIENT PRESSURE TO ENSURE ADEQUATE ADHESION. EXTEND MEMBRANE ABOVE FINISHED GRADE AS RECOMMENDED BY MEMBRANE MANUFACTURER. APPROVED ALTERNATES ARE ACCEPTABLE. SUBMIT FULL SHOP DRAWINGS FOR OWNER/ARCHITECT REVIEW AND APPROVAL.

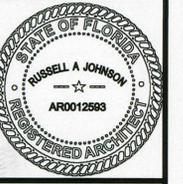
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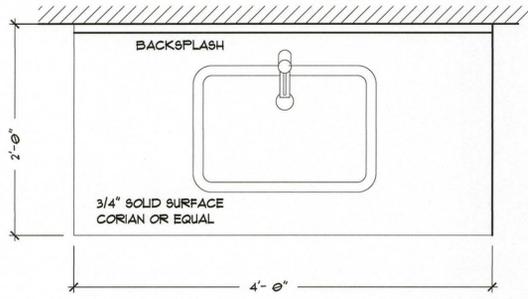
PROJECT #

GRAYTON BEACH TRANSIT FACILITY
 WALTON COUNTY
 FLORIDA

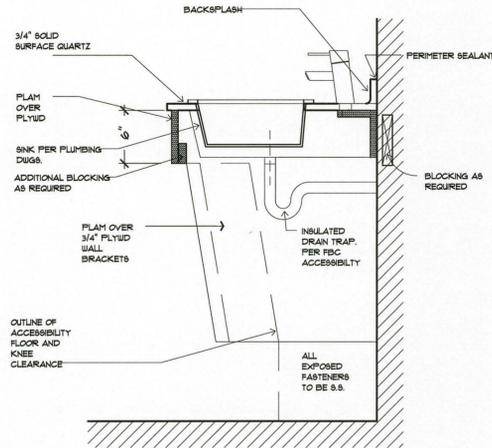


BUILDING SECTION 03.29.24

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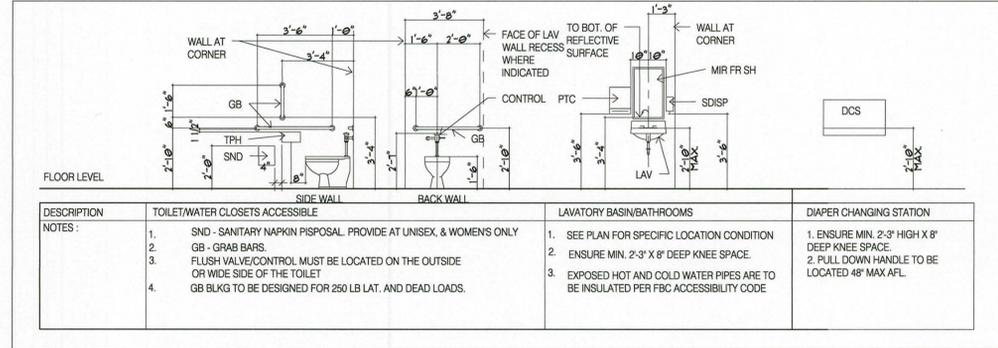
TYPICAL BATHROOM VANITY



BATHROOM ACCESSORY PRODUCT SELECTION SCHEDULE

NOTE: Specified products listed are for design intent/quality control, approved equals are accepted as approved by owner. Submit complete shop drawings and specs for owner review and approval.

- a COAT HOOK Bobrick B-6707 satin finished stainless steel finished single utility/coat hook.
- b GB; Bobrick B-6806.99 series peened satin stainless steel finished grab bars for accessible toilet size 42" L side wall, 36" L back wall
- c Mirror - Bobrick B-292 1830 series welded satin stainless steel finish framed mirror with 5" shelf, 18" x 30".
- d PTC; Bobrick B-262 classic series satin stainless steel finished surface mounted paper towel cabinet for folded paper.
- e SDISP, Bobrick B-2111 classic series surface mounted soap dispensers with satin stainless steel finish.
- f SND, Bobrick B-270 contura series surface mounted satin stainless steel finish sanitary napkin dispenser.
- g TPH; Bobrick B-6867 classic series surface mounted satin stainless steel finish two roll toilet paper holder.
- h ADA COMPLIANT American Specialties, Inc 10-9014 Plastic Surface Mount Horizontal baby station
- i ADA COMPLIANT LAV (exposed piping shall be insulated per ada requirements)
- j ADA COMPLIANT WATER CLOSET - KOHLER Persuade Curv Comfort Height or owner approved equal.
- k ADA COMPLIANT WALL MOUNTED URINAL - kohler Steward Hybrid K-5244-ET-0 or owner approved equal
- l FLOOR MOUNTED, OVERHEAD BRACED, ADA COMPLIANT PHENOLIC PARTITION W/ SS MOUNTING BRACKETS ALL STALL DOORS TO RECEIVE S.S. PIANO HINGES. ADA DOORS SHALL BE SELF CLOSING AND HAVE PULL HANDLES ON BOTH SIDES OF THE DOOR NEAR THE LATCH. DOOR TO BE 36" WIDE.
- m Bobrick B 2260 satin stainless steel floor standing waste receptacle
- n Bobrick B -165 2436 satin stainless mirror
- o TYPICAL BATHROOM VANITY



DESCRIPTION	TOILET/WATER CLOSETS ACCESSIBLE	LAVATORY BASIN/BATHROOMS	DIAPER CHANGING STATION
NOTES:	<ol style="list-style-type: none"> SND - SANITARY NAPKIN DISPOSAL. PROVIDE AT UNISEX, & WOMEN'S ONLY GB - GRAB BARS. FLUSH VALVE/CONTROL MUST BE LOCATED ON THE OUTSIDE OR WIDE SIDE OF THE TOILET GB BLKG TO BE DESIGNED FOR 250 LB LAT. AND DEAD LOADS. 	<ol style="list-style-type: none"> SEE PLAN FOR SPECIFIC LOCATION CONDITION ENSURE MIN. 2'-3" X 8" DEEP KNEE SPACE. EXPOSED HOT AND COLD WATER PIPES ARE TO BE INSULATED PER FBC ACCESSIBILITY CODE 	<ol style="list-style-type: none"> ENSURE MIN. 2'-3" HIGH X 8" DEEP KNEE SPACE. PULL DOWN HANDLE TO BE LOCATED 48" MAX AFL.

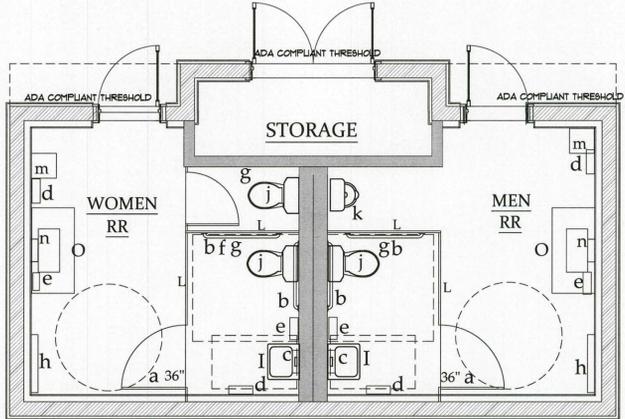
- ACCESSORIES INSTALLATION NOTES:
- INSTALL PRODUCTS IN STRICT COMPLIANCE W/ MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS
 - VERIFY ALL BLOCKING HAS BEEN INSTALLED PROPERLY
 - VERIFY LOCATION DOES NOT INTERFERE W/ DOOR SWINGS OR USE OF FIXTURES
 - VERIFY MOUNTING SUBSTRATE IS COMPATIBLE W/ PRODUCT, RELOCATE PRODUCT AS REQUIRED
 - USE FASTENERS AND ANCHORS SUITABLE FOR SUBSTRATE AND PROJECT CONDITIONS. ALL FASTENERS TO BE STAINLESS STEEL
 - INSTALL UNITS RIGID, STRAIGHT, PLUMB, AND LEVEL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED SHOP DRAWINGS.
 - CONCEAL EVIDENCE OF DRILLING, CUTTING, AND FITTING TO ROOM FINISH.
 - TEST FOR PROPER OPERATION.

mounting heights / schedules

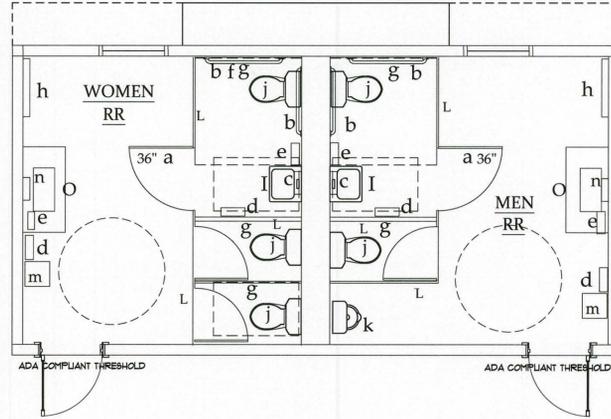
ROOM TYPE FINISHES SCHEDULE

ROOM NAME	FLOOR	BASE	WALL	CEILING
DRIVE THROUGH - PORCHES	PER CIVIL DWGS			WOOD STAINED & SEALED
WAITING AREA	SEALED CONC			WOOD STAINED & SEALED
BATHROOMS	RFS	PTD WOOD 1 X 6 SQ EDGE	PTD MOISTURE RESISTANT GYP BD	PTD MOISTURE RESISTANT GYP BD
STORAGE	SEALED CONC	vinyl	PTD GYP BD	PTD GYP BD

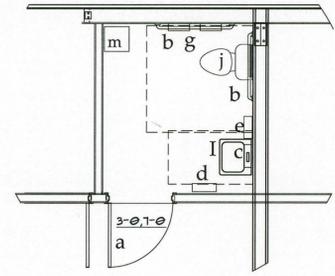
- ROOM FINISH NOTES:
- ALL FLOOR FINISHES SHALL BE IN COMPLIANCE W/ FBC ACCESSIBILITY CHAPTER 3. EXPOSED / POLISHED CONCRETE SHALL HAVE SLIP-RESISTANT FINISHES IN COMPLIANCE W/ FBC ACCESSIBILITY AND THE CONCRETE POLISHING COUNCIL. ALL FLOORING SHALL MEET OR EXCEED THE FLOOR DYNAMIC COEFFICIENT OF FRICTION (DCOF) AS PER ACCESSIBILITY CODES FOR NON-SLIP / SLIP RESISTANT STANDARDS.
 - ALL GYP BD SHALL BE 5/8" MIN. THICKNESS. ALL EXPOSED GYP BD SHALL BE PAINTED MOISTURE RESISTANT GYP BD SHALL BE "PROROC" BY CERTAINEAD OR APPROVED EQUAL FOR ALL MOISTURE RESISTANT CEILING, PROVIDE 2 X BLOCKING @ 12" OC E.W.
 - INTERIOR WALLS AND CEILING IN THE RESTROOMS SHALL BE PAINTED AS FOLLOWS:
 - 3.1 PRIMER: TNEMEC SERIES 151 ELASTO-GRIP FC APPLIED @ 1.0 MIL DRY FILM THICKNESS
 - INTERMEDIATE: TNEMEC SERIES 113 TNEIE-TUF-COAT APPLIED @ 4.0-6.0 MIL DRY FILM THICKNESS
 - FINISH: TNEMEC SERIES 113 TNEIE-TUF-COAT APPLIED @ 4.0-6.0 MIL DRY FILM THICKNESS
 - CHANGES IN LEVEL: ALL FLOOR CHANGES IN LEVEL SHALL MEET FBC 2073 ACCESSIBILITY CODE. VERTICAL CHANGES IN LEVEL BETWEEN 1/4" HIGH MAX ARE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH AND 1/2" HIGH MAX SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1/2. CHANGES IN LEVEL GREATER THAN 1/2" HIGH SHALL BE RAMPED AND SHALL COMPLY W/ SECTIONS 405 & 406.
 - RFS - RESINOUS FLOORING SYSTEM - ABRASION, IMPACT AND CHEMICAL RESISTANT AGGREGATE FILLED EPOXY RESIN-BASED MONOLITHIC FLOOR SURFACING TO PRODUCE A SEAMLESS FLOOR AND INTEGRAL COVE BASE BY "HYCHEM" - PRODUCT E100 EP PRIMER WITH SP20FG FOR PLYWOOD AND CONCRETE FLOORING - INSTALL PER MANUFACTURER'S REQUIREMENTS. APPROVED EQUALS ARE ACCEPTABLE.
 - KDAT & PT MATERIAL - BEAMS, POSTS, RAFTERS, RAFTER TAILS, ETC TO BE STAINED W/ BEHR PREMIUM SEMI TRANSPARENT STAIN - CORDOYAN BROWN ST 104. SUBMIT COLOR SAMPLES ON EACH MATERIAL FOR OWNER / ARCHITECT APPROVAL 2 X 6 T&G ROOF DECKING TO BE STAINED AND SEALED TO MATCH RAFTERS.
 - 2 X 6 T & G ROOF DECKING TO HAVE V-EDGE ON EXPOSED SURFACES.



RESTROOM FLOOR PLAN LOWER PARKING LOT



RESTROOM FLOOR PLAN UPPER LEVEL



RESTROOM FLOOR PLAN STORAGE BUILDING - TYPICAL

Russell Johnson

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

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PROJECT #

DATE	REVIEWED
DRAWN	
REVISIONS	
NO.	DATE

GRAYTON BEACH TRANSIT FACILITY
WALTON COUNTY
FLORIDA



ABBREVIATIONS

Table listing abbreviations for structural components like ANCHOR BOLT, REINFORCING BARS, etc.

SCOPE OF WORK

THESE DOCUMENTS HAVE BEEN PROVIDED TO FACILITATE THE REVIEW BY THE BUILDING OFFICIAL FOR PROJECT PERMITTING. APEX ENGINEERING GROUP, PLLC IS ACTING AS THE STRUCTURAL ENGINEER OF RECORD FOR THIS PROJECT AND HAS PROVIDED THIS DOCUMENT PACKAGE TO SATISFY THE STRUCTURAL DESIGN REQUIREMENTS OF THE CITY OF WILMINGTON, DELAWARE AND F.A.C. 61015-31-001.

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW THE RECOMMENDATIONS OF ALL ACCOMPANYING PROJECT DOCUMENTS PREPARED BY OTHER PROFESSIONALS. WHETHER REFERENCED WITHIN THIS DOCUMENT OR NOT, THIS DOCUMENT IS NOT INTENDED TO SUPPLEMENT OR REPLACE ANY PROJECT PERMITS OR RECOMMENDATIONS MADE BY OTHER DESIGN PROFESSIONALS.

DELEGATED PRIMARY STRUCTURAL DESIGN ELEMENTS INCLUDE, BUT MAY NOT BE LIMITED TO: PRE-FABRICATED STRUCTURAL SYSTEMS, SPECIALTY FOUNDATION SYSTEMS, STRUCTURAL STEEL CONNECTIONS, COLD FORM STEEL JOIST/STUD/TRUSS FRAMING, CONNECTIONS AND PRE-FABRICATED COMPONENTS.

DELEGATED SECONDARY STRUCTURAL DESIGN ELEMENTS INCLUDE, BUT MAY NOT BE LIMITED TO: STAIRS, HANDRAILS, CANTILEVERS AND THEIR CONNECTIONS, COMPONENTS, THEIR ASSEMBLIES, FRAMES, WALLS, MULLIONS AND CONNECTIONS TO THE PRIMARY STRUCTURAL SYSTEM.

WOOD FRAMED WALL HEADER SCHEDULE
LOCATION: MAXIMUM CLEAR SPAN LENGTH
UP TO 3', 3' TO 6', 6' TO 8'

Table with 4 columns: LOCATION, MAXIMUM CLEAR SPAN LENGTH, and rows for LINER/JACK/SUPPORT STUDS, KING STUDS, ROOF BEARING ABOVE, and FLOOR & DOOR BEARING ABOVE.

WOOD FRAMED WALL HEADER SCHEDULE table with columns for LOCATION and MAXIMUM CLEAR SPAN LENGTH (Up to 3', 3' to 6', 6' to 8').

TYP. REINFORCEMENT LAP SPlice LENGTHS

Table showing reinforcement lap splice lengths for various bar sizes and concrete strengths (3,000psi and 4,000psi).

REINFORCEMENT DEVELOPMENT LENGTHS

Table showing reinforcement development lengths for various bar sizes and concrete strengths.

Table showing reinforcement development lengths for various bar sizes and concrete strengths.

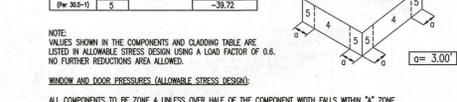
20.00 GENERAL

- 20.01 ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE OR OTHER EDITION (2023). REFERENCE TO OTHER CODES OR STANDARD SPECIFICATIONS SHALL BE LIMITED TO SUCH CODES OR SPECIFICATIONS, UNLESS STATED OTHERWISE.

20.00 STRUCTURAL LOADS

- 20.01 SUPERIMPOSED DEAD LOADS: DEAD LOADS SHALL BE TAKEN AS THE ACTUAL WEIGHTS OF MATERIALS AND CONSTRUCTIONS OR OTHERWISE SATISFACTORY VALUES DESCRIBED IN THE F.A.C.

Table for COMPONENTS & CLADDING PRESSURES (per Chapter 30, Part 2 in ASJ) showing design pressure (PSF) for various zones and components.



NOTE: VALUES SHOWN IN THE COMPONENTS AND CLADDING TABLE ARE LISTED IN ALLOWABLE STRESS DESIGN UNITS IN ACCORDANCE WITH F.A.C. 61015-31-001. NO FURTHER REDUCTIONS ARE ALLOWED.

20.00 FOUNDATIONS AND SLAB-ON-GRADE

- 20.01 THE DESIGN OF SHALLOW FOUNDATIONS AND SLAB-ON-GRADE STRUCTURES IS BASED ON THE PRESUMPTIVE MINIMUM LOAD-BEARING CAPACITY OF 1,500 PSF PER SQUARE FOOT OF SECTION 809 OF THE FLORIDA BUILDING CODE.

20.00 CONCRETE AND REINFORCING STEEL

- 20.01 ALL CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 308.

20.00 MASONRY

- 20.01 ALL MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF MASONRY (AIA) 903.

20.00 WOOD

- 20.01 ALL WOOD FRAMING INCLUDING TRUSSES SHALL CONFORM TO THE AMERICAN INSTITUTE OF WOOD CONSTRUCTION, INC. (AWC) 240.

20.00 METALS

- 20.01 ALL METALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360.

20.00 FINISHES

- 20.01 FINISH GRADES SHALL BE SLOPED AWAY FROM THE FOUNDATION IN ACCORDANCE WITH FBC 1804.5. ALL FILL OR GRADING IN FLOOD HAZARD AREAS MUST COMPLY WITH FBC 1804.5 AND HAS NOT BEEN ANALYZED AS PART OF THE STRUCTURAL DESIGN SCOPE.

20.00 SPECIAL REQUIREMENTS

- 20.01 ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE 4% OR 5% AIR ENTRAINMENT AND BE PROTECTED FROM FREEZING AND THAWING.

20.00 CONCRETE AND REINFORCING STEEL

- 20.01 ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS UNO: - STRUCTURAL SLABS - 4,000 PSI

20.00 MASONRY

- 20.01 ALL MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF MASONRY (AIA) 903.

20.00 CONCRETE AND REINFORCING STEEL

- 20.01 CONCRETE (OTHER THAN HIGH-early-strength) SHALL BE MAINTAINED ABOVE 50% (10°C) AND IN A MOST CONDITION FOR AT LEAST THE FIRST 7 DAYS AFTER PLACEMENT, EXCEPT WHEN CURED IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1806.5.3.

- 20.02 REINFORCING STEEL SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND ALL REINFORCING, FORMS, FILLERS, AND GROUND IN WHICH CONCRETE IS TO BE PLACED.

- 20.03 THE DRAWINGS SHOWN ARE FOR TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. PROVIDE DETAILS SIMILAR TO THOSE SHOWN ON DETAILS THAT ARE NOT SPECIFICALLY SHOWN.

- 20.04 INFORMATION LISTED IN CALL-OUTS AND PLAN SCHEDULES ON 5-100 SHEETS, AND SHOWN ON SPECIFIC SECTIONS AND DETAILS ON 5-300 AND 5-400 SHEETS RESTRICTIVE TO THE SHEET, SHALL BE SHOWN ON THIS SHEET, 5-000. CONTACTS AND CONNECTIONS SHOULD BE BROUGHT TO THE E.O.R.'S ATTENTION FOR CLARIFICATION PRIOR TO CONSTRUCTION PER NOTE 06.00.

- 20.05 FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DOCUMENTS, SEE THE ARCHITECTURAL DRAWINGS.

- 20.06 THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING WORK. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES IN EXISTING SITE CONDITIONS, DIMENSIONS, OR ELEVATIONS TO THOSE SHOWN IN THE STRUCTURAL DOCUMENTS.

- 20.07 THE REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO DESIGN AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE BUILDING DEPARTMENT.

- 20.08 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND DETECTION OF SAFE AND ADEQUATE BRACING, SHORING, TEMPORARY SUPPORTS, ETC. REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION.

- 20.09 IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY APEX ENGINEERING GROUP, P.L.L.C. IN WRITING.

- 20.10 CONTINUOUS REINFORCING STEEL SHALL BE PROVIDED WHEREVER POSSIBLE. REINFORCING STEEL SHALL BE SPOILED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS. REINFORCING STEEL SHALL BE SPOILED IN ACCORDANCE WITH THE FOLLOWING: - CLASS 1) UNLESS OTHERWISE NOTED OTHERWISE, JOISTS SHALL WITHIN THE SIZE AND SPACING OF THE REINFORCING AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS 7) UNLESS OTHERWISE NOTED OTHERWISE WITH STAINLESS STEEL.

- 20.11 REINFORCING STEEL SHALL HAVE THE FOLLOWING COMPRESSION MINIMUM CLEAR COVER UNO (PER AC 318-08 PAR.7.1.1): - CONCRETE AGAINST EARTH (NOT FORMED): 3"

- 20.12 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.13 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.14 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.15 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.16 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.17 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.18 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.19 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.20 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.21 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.22 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.23 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.24 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.25 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.26 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.27 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.28 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.29 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.30 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.31 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.32 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.33 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.34 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.35 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.36 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.37 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.38 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.39 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.40 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.41 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.42 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.43 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.44 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.45 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.46 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

- 20.47 ALL SHORING SHALL BE PLACED IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHALL BE LEFT IN PLACE WITHOUT TESTING AT LEAST 7 DAYS AFTER PLACEMENT. IT IS NOT ALLOWABLE TO REMOVE SHORING WITHOUT A TEST BY 21 DAYS UNLESS AN OVERSICUREANCE DESIGN OF CONSTRUCTION SHOWS A RELEASED DESIGN BY OTHERS.

- 20.48 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCOMPLETE OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

20.00 PRE-FABRICATED WOOD TRUSSES

- 20.01 SUBMITTAL REQUIRED: TRUSS WELD TO SUBMIT SHOP DRAWINGS FOR STRUCTURAL DESIGN, LAYOUT AND ERECTION. SHOP DRAWINGS MUST INCLUDE MEMBER DIMENSIONS AND CONNECTION DETAILS PRIOR TO FABRICATION.

- 20.02 WOOD TRUSSES SHALL BE DESIGNED BY A DELEGATE SPECIALTY STRUCTURAL ENGINEER (SSE) IN ACCORDANCE WITH APPROVED ENGINEERING PRACTICE IN ACCORDANCE WITH F.A.C. 61015-31-003. THE DESIGN AND MANUFACTURE OF METAL PLATE CONNECTED WOOD TRUSSES SHALL COMPLY WITH AIA/ISI-1.

- 20.03 PRE-FABRICATED WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED TO MEET STRUCTURAL DESIGN REQUIREMENTS PROVIDED BY THE E.O.R. IN THESE DOCUMENTS IN ACCORDANCE WITH F.A.C. 61015-31-003.

- 20.04 TRUSS SUPPLIER SHALL COORDINATE WITH THE ARCHITECT ALL CEILING AND BOTTOM CHORD REQUIREMENTS, AS WELL AS PROVISIONS FOR MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS PRIOR TO FABRICATING TRUSSES.

- 20.05 MINIMUM PRE-FABRICATED TRUSS STRUCTURAL DESIGN DETAILS: - ROOF CHORD LINE LOAD: 20 PSF

- 20.06 GENERAL REQUIREMENTS FOR THE TRUSS SYSTEM SHALL INCLUDE SLOPE DIRECTION, BEARING CONDITIONS, LOADING, SPACING AND LOCALITY. CRITERIA HAVE BEEN PROVIDED WITH THESE DOCUMENTS BY THE E.O.R. AN EXCEPTION FROM THE PROVIDED TRUSS DESIGN GENERAL REQUIREMENTS THAT INTRODUCES ENGINEERING INPUT MUST BE SIGNED AND SEALED BY A DELEGATE TRUSS SYSTEM DESIGNER PER 61015-31-003 AND SHALL COMPLY WITH PROCESSION, F.A.C. 61015-31, F.A.C. 61015-31 AND F.S. CHAPTER 471.

- 20.07 INDIVIDUAL ENGINEERED FLOOR AND ROOF TRUSSES SHALL BE SIGNED AND SEALED BY A DELEGATE TRUSS DESIGN ENGINEER PER 61015-31-003 AND SHALL COMPLY WITH PROCESSION, F.A.C. 61015-31, F.A.C. 61015-31 AND F.S. CHAPTER 471.

- 20.08 SIGNED AND SEALED TRUSS DESIGN DOCUMENTS MUST COMPLY WITH F.A.C. 61015-31-003 AND BE SUBMITTED FOR REVIEW AND APPROVAL BY THE E.O.R. PRIOR TO FABRICATION AND INSTALLATION.

- 20.09 TRUSS SUPPLIER SHALL MAKE NECESSARY CORRECTIONS TO THE TRUSS DESIGN AS ENGINEERED BY THE CONTRACTOR AND THE ENGINEER OF RECORD PRIOR TO CONSTRUCTING WITH FABRICATED WOOD TRUSSES.

- 20.10 WRITTEN APPROVAL OF ALL ENGINEERING DOCUMENTS MUST BE PROVIDED BY APEX ENGINEERING GROUP, P.L.L.C. PRIOR TO FABRICATION OR INSTALLATION.

- 20.11 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.12 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.13 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.14 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.15 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.16 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.17 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.18 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.19 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.20 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.21 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.22 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.23 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.24 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.25 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.26 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.27 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.28 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.29 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.30 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.31 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.32 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.33 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING: - BRACING SHALL BE PROVIDED AT EACH JOINT.

- 20.34 TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE TRUSS DESIGN DOCUMENTS. EACH MEMBER SHALL BE BRACED TO PREVENT ROTATION. IN THE ABSEN

00.00 GENERAL

- 00.01 ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE 7TH EDITION (2020). REFERENCE TO OTHER CODES OR STANDARDS SPECIFICATIONS REFER TO THE LATEST EDITION OF SUCH CODES OR SPECIFICATIONS, UNLESS STATED OTHERWISE.
00.02 THE CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL WORKS DOCUMENTS WITH THE STRUCTURAL CONTRACT DOCUMENTS. NOTIFICATION SHALL BE MADE TO THE STRUCTURAL ENGINEER AND DESIGN OF ANY CONFLICT AND/OR OMISSIONS.
00.03 THE DRAWINGS SHOWN ARE FOR TYPICAL AND CERTAIN SPECIAL CONDITIONS ONLY. PROVIDE DETAILS SIMILAR TO THOSE SHOWN FOR DETAILS THAT ARE NOT SHOWN.

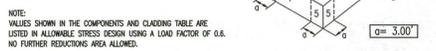
10.00 DESIGN CRITERIA

- 10.01 BUILDING CODE: 2020 FLORIDA BUILDING CODE, BUILDING, SEVENTH EDITION
10.02 GRAVITY LOADS
A. SUPERIMPOSED DEAD LOADS:
- DEAD LOADS SHALL BE TAKEN AS THE ACTUAL HEIGHTS OF MATERIALS AND CONSTRUCTIONS OR OTHERWISE SATISFACTORY VALUES DETERMINED IN THE F.B.C.
- MINIMUM FOR UPLIFT = 3 PSF
- SELF WEIGHT COLUMNAR = 2 PSF
- PARTITIONS = 10 PSF
B. SUPERIMPOSED LIVE LOADS:
- ROOF = 20 PSF
- ELEVATED PLATFORMS = 125 PSF (2,000#)
- SLOPE LOADS = 100 PSF
C. SNOW LOADS:
- GROUND SNOW LOAD = 0 PSF
- FLAT-ROOF SNOW LOAD = 0 PSF
D. CONSTRUCTION LOADS:
- NOT ANTICIPATED TO EXCEED THE DESIGN LIVE LOADS.

10.03 LATERAL LOADS

- A. STRUCTURAL RISK CATEGORY = II
B. SEISMIC DESIGN CRITERIA = PER BLDG MFR
C. WIND LOADS (ASCE 7-16):
- BASIC WIND SPEED = 140 MPH (INTERPOLATED VALUE)
- WIND EXPOSURE CATEGORY = C
- ENCLOSURE CLASSIFICATION = UNENCLOSED
- INTERNAL PRESSURE COEFFICIENT = 0.18 +/-

Table with 3 columns: COMPONENT, ZONE, DESIGN PRESSURE (PSF). Rows include ROOF, OVERHANGS, and WALLS with various design pressures and wind speed values.



NOTE: VALUES SHOWN IN THE COMPONENTS AND CLADDING TABLE ARE LISTED IN ALLOWABLE STRESS DESIGN USING A LOAD FACTOR OF 0.6. NO FURTHER REDUCTIONS ARE ALLOWED.
WINDOW AND DOOR PRESSURES (ALLOWABLE STRESS DESIGN)
ALL COMPONENTS TO BE ZONE 4 UNLESS OTHERWISE SPECIFIED. MEASURED FROM THE EXTERIOR CORNERS OF THE BUILDING.

UNLESS OTHERWISE APPROVED, ALL EXTERIOR WINDOWS, CURTAIN WALLS, DOORS AND IMPACT PROTECTIVE SYSTEMS FOR THIS PROJECT SHALL MEET ASTM E-1996 'LARGE MISSILE' PROTECTION LEVEL 'D' FOR STRUCTURES WITH WIND EXPOSURE CATEGORIES 'B' AND 'D' AND 'MEDIUM MISSILE' PROTECTION LEVEL 'C' FOR STRUCTURES WITH WIND EXPOSURE CATEGORY 'E'. COMPONENT ASSEMBLIES LOCATED ON THE STRUCTURE AT ELEVATIONS HIGHER THAN 10' ABOVE THE FINISH GRADE SHALL MEET ASTM E-1996 'SMALL MISSILE' PROTECTION LEVEL 'A'.

FLOOR FINISH DATA: FLOOR ZONE = A, FINISH: ARCH, PANEL NO = 1213106850, EFF DATE = 12/20/2020

FOUNDATION DESIGN CRITERIA: MINIMUM BEARING CAPACITY = 2,000 PSF, SOIL RESIST = 115 PSF, COEFFICIENT OF FRICTION = 0.30, FROST DEPTH = N/A

20.00 FOOTINGS AND SLAB-ON-GRADE

- 20.01 THE DESIGN OF FOUNDATIONS AND SLAB-ON-GRADE IS BASED ON AN ASSUMED MINIMUM BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF QUESTIONABLE SOIL CONDITIONS ARE ENCOUNTERED.
20.02 A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBSURFACES, FILL AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, PILLS, INVERTS, ETC. SHOULD THE CONTRACTOR FIND UNDESIRABLE SOILS, HE SHALL STOP WORK AND IMMEDIATELY CONTACT THE ENGINEER OF RECORD.
20.03 ALL FOOTINGS SHALL REST EITHER ON UNDISTURBED SOIL OR A MANUALLY OPERATED VIBRATORY SLEED OR TAMPER SHOULD BE USED TO DENSIFY ANY SOILS IN THE BOTTOM OF THE FOOTING TRENCHES LOOSELY DURING THE EXCAVATION OPERATION.
20.04 THE AREA UNDER FOOTINGS, FOUNDATIONS, AND CONCRETE SLAB-ON-GRADE SHALL HAVE ALL VEGETATION, STAMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
20.05 SEES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.
20.06 THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATION SLOPES.
20.07 FILL MATERIALS SHOULD BE RELATIVELY CLEAN SANDS, SIMILAR TO THE EXISTING ON-SITE SOILS, WITH LESS THAN 12 PERCENT FINES (WATER PASSING) THE NO. 200 SIEVE, AND FREE OF NON-SOIL MATERIALS, CONSTRUCTION DEBRIS, ROCK FRAGMENTS LARGER THAN 3 INCHES IN DIMENSION AND ANY OTHER FOREIGN MATERIAL. FILL MATERIALS THAT CONTAIN ORGANIC DEBRIS ARE NOT SUITABLE FOR USE AS STRUCTURE FILL.
20.08 FILL SHOULD BE PLACED IN THIN HORIZONTAL LAYERS (MATERIALS 14-INCH) AND COMPACTED TO AT LEAST 95 PERCENT OF THE MOISTURE PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). FILL MATERIALS USED IN CONSTRUCTION AREAS SHOULD HAVE A TARGET MAXIMUM DRY DENSITY OF 90 PCF OR GREATER.
20.09 FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE.
20.10 THE CONTRACTOR SHALL INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING. ALL EXCAVATIONS NEAR THESE LINES SHALL BE CARRIED OUT WITH EXTREME CAUTION.
20.11 WHERE FOOTING SEES ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.
20.12 DEWATER TO AT LEAST TWO FEET BELOW BOTTOM OF LOWEST FOUNDATION IF GROUNDWATER IS ENCOUNTERED.
20.13 THE FOUNDATION SYSTEM HAS BEEN DESIGNED TO SUPPORT A PRE-ENGINEERED BUILDING BASED UPON A DESIGN ANALYSIS PERFORMED BY THE FOUNDATION ENGINEER. THE FOLLOWING CONSTRUCTION REQUIREMENTS FOR PRE-ENGINEERED BUILDING APPLY:
A. THE FOUNDATION MUST BE SQUARE AND LEVEL. OUT OF LEVEL TOLERANCE FOR TOP OF CONCRETE PIERS AND WALLS IS +/- 1/8" IN 20'-0" AND +/- 1/4" IN OVERALL LENGTH. TOLERANCE BETWEEN CENTRINES OF COLUMN ANCHOR BOLT CLUSTERS IS +/- 1/8" IN 20'-0" AND +/- 1/4" IN OVERALL.
B. ADJUST THE ELEVATION OF THE TOP OF PIERS IN ACCORDANCE WITH BUILDING MANUFACTURER'S STANDARD. TROWEL FINISH TOP OF CONCRETE AT COLUMN BASES TO PROVIDE A SMOOTH AND LEVEL BEARING SURFACE.
C. ADJUST DIMENSIONS OF CONCRETE PIERS GIVEN TO PROVIDE A MINIMUM 2" BEYOND ALL SEES OF COLUMN BASE PLATE. NOTE: PIER SIZE GIVEN IS MINIMUM, ANY REVISIONS TO PIER SIZES SHOWN ON THE DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW.
D. ANCHOR RODS MUST BE SET BY MEANS OF A TEMPLATE. (DO NOT HAND SET).
E. MISCELLANEOUS JAMB POSTS ARE TO BE ANCHORED TO FOUNDATION BY MEANS OF POST-INSTALLED ANCHORS AS PER BUILDING MANUFACTURER'S DRAWINGS.
F. ENTIRE SLAB ON GRADE MUST BE IN PLACE BEFORE ERECTION OF PRE-ENGINEERED METAL BUILDING FRAME.

30.00 CONCRETE AND REINFORCING STEEL

- 30.01 CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF ACI 318.
30.02 ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:
- FOUNDATIONS & SLAB-ON-GRADE: 3,000 PSI
- STRUCTURAL SLABS: 4,000 PSI
- CP BEAMS, COLUMNS & WALLS: 5,000 PSI
- EXTERIOR RETAINING WALLS: 5,000 PSI (OR 4,000 PSI MIN. 0.40 W/CM RATIO, 20-23% PLVX)
30.03 NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL NOT BE LARGER THAN 1/3 THE MINORSTION DIMENSION BETWEEN SEES OF FORMS, 1/3 THE DEPTH OF SLABS, NOR 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES.
30.04 ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE 4% -6% DRYHEAT AIR, U.N.O. CONCRETE MAY CONTAIN A PROPERLY DESIGNED SUPERPLASTICIZER FOR WORKABILITY.
30.05 CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4".
30.06 THE MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNERS TESTING LABORATORY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING THE REQUIRED DESIGN STRENGTH.
30.07 CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS ARE NOT PERMITTED TO BE USED IN CONCRETE.
30.08 CONCRETE (OTHER THAN HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50F (10C) AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 7 DAYS AFTER PLACEMENT, EXCEPT WHEN CURED IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1906.5.3 (SPECIFICATION ON ACCELERATED CURE).
30.09 ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND ALL REINFORCEMENT, FORMS, FILERS, AND GROUND IN WHICH CONCRETE IS TO COME INTO CONTACT DURING FREEZING OR NEAR-FREEZING WEATHER.
30.10 ALL REINFORCING STEEL PLACEMENT SHALL BE REVIEWED BY A REGISTERED STRUCTURAL ENGINEER OR BY A REPRESENTATIVE RESPONSIBLE TO HIM/HER (REF: ACI 318 PAR 1.3.1).
30.11 ALL REINFORCEMENT SHALL BE BENT COULD, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL EOR.
30.12 SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL IN WALL SLABS, CAST-IN-PLACE WALLS, AND STRUCTURAL SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
30.13 ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS FOR REINFORCED CONCRETE, 'ACI 318-20' AND THE 'MANUALS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES,' 40 315 (LATEST EDITION).
30.14 REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED.
30.15 WELDED WIRE FABRIC (WESH) SHALL CONFORM TO ASTM A185.
30.16 ALL WELDED WIRE FABRIC SHALL BE LAPPED WITH ONE FULL MESH PANEL 2' AT SEES AND ENDS AND SHALL BE WIRED TOGETHER WITH #3 OR #4 WELDED WIRE FABRIC.
30.17 ALL REINFORCING STEEL AND EMBEDMENTS SHALL BE SECURELY TIED AND SUFFICIENTLY SUPPORTED TO MAINTAIN THE POSITION WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. 'HOT STICKING' DOWNLAYS INTO CONCRETE IS NOT PERMITTED.
30.18 CONTINUOUS REINFORCEMENT SHALL BE PROVIDED WHEREVER POSSIBLE. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. 'STACKEE' SPLICES WHERE POSSIBLE USE FULL TENSION SPICES (CLASS 'B') UNLESS OTHERWISE NOTED. DOWNLAYS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPICES (CLASS 'B') UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.
30.19 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE CLEAR COVER (PER ACI 318-20 PAR 7.7.1):
- CONCRETE AGAINST DIRT FORMED: 3"
- FORMED CONCRETE EXPOSED TO WEATHER: 2" (#6 BARS & LARGER)
- 1-1/2" (#5 BARS & SMALLER)
- CONCRETE NOT EXPOSED TO WEATHER: 3/4" (SLABS)
- 1-1/2" (BEAM STIRRUPS & COLUMN TIES)
30.20 DO NOT PLACE JOINTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
30.21 REINFORCING STEEL SHALL NOT BE WELDED OR TACK WELDED UNLESS APPROVED BY THE STRUCTURAL EOR.
30.22 ALL STEEL REINFORCING AND WELD WIRE MESH USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.
30.23 LIVING GROUT TO BE NON-SHRINK, NON-METALLIC TYPE, FACTORY PREPARED IN ACCORDANCE WITH ASTM C 1107, HAVING A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 5,000 PSI. 6-8 FOR ADDITIONAL INFORMATION NOT COVERED IN THESE GENERAL NOTES, REFER TO THE PROJECT SPECIFICATIONS IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DRAWINGS; THE MOST STRINGENT REQUIREMENTS AS DETERMINED BY THE ENGINEER WILL GOVERN.
30.24 SLEEVES, INSERTS, MECHANICAL OPENINGS, CONDUTS, PIPES, RECESSES, DEPRESSIONS, CURBS AND OTHER EMBEDDED ITEMS TO BE PROVIDED FOR AS SHOWN ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND AS REQUIRED BY EQUIPMENT MANUFACTURERS. ISOLATION OF THESE ITEMS IS TO BE COORDINATED AND PROVIDED FOR PRIOR TO PLACING CONCRETE.
30.25 ANCHOR ROD LOCATIONS SHALL BE AS INDICATED ON THE PRE-ENGINEERED METAL BUILDING (PEMB) DRAWINGS (BY OTHERS), THE MINIMUM ANCHOR ROD EMBEDMENT SHALL BE AS INDICATED ON THESE STRUCTURAL DRAWINGS. CONFLICTS BETWEEN THE PEMB DRAWINGS AND THESE DRAWINGS IN REGARDS TO ANCHOR ROD LAYOUT AND/OR ANCHOR ROD DIAMETER SHOULD BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
30.26 ANCHOR RODS TO BE ASTM F1554 (70K-90K), GALVANIZED.
30.27 CONCRETE SLABS TO BE FINISHED BY METHOD COMPATIBLE WITH SPOFFED FLOOR FINISH, WHERE ACCEPTABLE USE A LIQUID MEMBRANE-CURING COMPOUND AT THE MANUFACTURERS RECOMMENDED COVERAGE.
30.28 SLOPE SURFACES OF SLABS-ON-GRADE TO DRAIN AS REQUIRED, MAINTAIN MINIMUM DESIGN THICKNESS INDICATED.
30.29 DIMPLE FLOOR SLABS-ON-GRADE INTO MEANS OF ISOLATION, CONCRETE AND CONSTRUCTION JOINTS AS INDICATED ON THE DRAWINGS. SAW JOINTS TO BE CUT AS SOON AS POSSIBLE WITHOUT DAMAGING THE SURFACE. POSITION OF CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
30.30 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCORRECT OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.
30.31 ALL SHOPPING SHOULD BE IN PLACE UNTIL CONCRETE IS ATAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHOPPING SHOULD BE LEFT 28 DAYS WITHOUT TESTING A CYLINDER TO CONFORM WITH WIND EXPOSURE CATEGORIES 'B' AND 'D' AND 'MEDIUM MISSILE' PROTECTION LEVEL 'C' FOR STRUCTURES WITH WIND EXPOSURE CATEGORY 'E'. COMPONENT ASSEMBLIES LOCATED ON THE STRUCTURE AT ELEVATIONS HIGHER THAN 10' ABOVE THE FINISH GRADE SHALL MEET ASTM E-1996 'SMALL MISSILE' PROTECTION LEVEL 'A'.

40.00 MASONRY

- 40.01 NOT ANTICIPATED TO BE REQUIRED FOR THE CONSTRUCTION ASSOCIATED WITH THE STRANBE BLDG SCOPE.
40.02 NOT ANTICIPATED TO BE REQUIRED FOR THE CONSTRUCTION ASSOCIATED WITH THE STRANBE BLDG SCOPE.

60.00 PRE-ENGINEERED HANDRAILS AND STAIRS

- 60.01 HANDRAILS AND QUARDRAILS, AS WELL AS THEIR CONNECTIONS, SHALL BE DESIGNED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA. HANDRAIL AND QUARDRAIL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR HANDRAIL LOCATIONS, CONFIGURATIONS AND MATERIALS.
60.02 SELF-SUPPORTING STAIRS AND STRUCTURAL STAIR ASSEMBLIES (SPRING, CANTILEVERED, FOUNDED, ETC.) AS WELL AS THEIR CONNECTIONS SHALL BE DESIGNED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER. SUBMITTALS SHALL INCLUDE AND REACTIONS FOR ALL CONNECTIONS TO THE STRUCTURE, FRAMEWORK, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS, CONFIGURATIONS AND MATERIALS.
60.03 CONCRETE FILLED METAL PAW STAIRS, AS WELL AS THEIR CONNECTIONS, SHALL BE DESIGNED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS, CONFIGURATIONS AND MATERIALS.

70.00 STRUCTURAL STEEL

- 70.01 STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND DRAWINGS RELATED TO OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC. WITH THE WORK OF OTHER TRADES. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE FRAMING AROUND OPENINGS IN FLOOR AND ROOF SLAB AS INDICATED IN THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
70.02 STRUCTURAL STEEL CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE WITH THE TOP OF CONCRETE ELEVATION. IN CASE OF CONFLICT, THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR MORE STRINGENT REQUIREMENTS.
70.03 ALL STRUCTURAL STEEL SHALL BE GALVANIZED UNLESS OTHERWISE NOTED ON PLANS AND APPROVED PRIOR TO FABRICATION.
70.04 WHEN APPROVED PRIOR TO FABRICATION, THE MINIMUM STEEL STANDARD SHOP OR FLAT SHALL BE A1662 ZINC CHROMATE PRIMER PER DESIGN SPECIFICATION 171-464 OR EQUIVALENT PROVIDED APPROVED PER MANUFACTURERS STANDARD. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ACTUAL PRODUCT SPECIFIC FINISH COAT RECOMMENDATIONS.
70.05 STEEL SURFACES SHALL BE CLEANED IN ACCORDANCE WITH SSPF-SP3, FOR PREPARATION PRIOR TO PRIMER PAINTING, UNLESS REQUIRED OTHERWISE BY PRIMER MANUFACTURER. ALL WELDED, BURST, OR OTHERWISE DAMAGED AREAS SHALL BE REPAIRED AND RECOATED IN ACCORDANCE WITH COATING MANUFACTURER'S RECOMMENDATIONS.
70.06 DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE OR RECEIVE SPRAYED FIREPROOFING, CONNECTIONS RECOATED AS SLP CRITICAL OR TO BE WELDED. STEEL SURFACES RECEIVING AUTOMATICALLY WELDED STEEL CONNECTIONS SHALL IN THE FIELD SHALL NOT BE PAINTED.
70.07 PLAN SPOFFED STAINLESS STEEL ELEMENTS SHALL NOT BE SUBSTITUTED FOR ANY OTHER MATERIAL, RIB BAGED ALLOY, OR FINISH UNLESS WRITTEN APPROVAL OF E.O.R. PRIOR TO FABRICATION.
70.08 PROVIDE TYPICAL CROSS SECTION OF STRUCTURAL FRAMING TO PROVIDE LATERAL SUPPORT UNTIL ALL PERMANENT BRACING MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (WHYBRINGS) ARE COMPLETELY INSTALLED.
70.09 SEE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL MISCELLANEOUS STEEL REQUIREMENTS.

COLD-FORMED STEEL JOISTS AND ACCESSORIES

- 70.01 SUBMITTALS REQUIRED: DELEGATED STRUCTURAL ENGINEER MUST SUBMIT DESIGN CALCULATIONS, LAYOUT, ERECTION AND CONSTRUCTION DETAILS TO E.O.R. FOR APPROVAL PRIOR TO INSTALLATION. ALL CONSTRUCTION DOCUMENT SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
70.02 ALL PRODUCTS TO BE MANUFACTURED BY THE CURRENT MANUFACTURER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SMA), THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
70.03 STRUCTURAL SUBMITTALS, DOCUMENTS SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
70.04 FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS:
A. AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
B. AMERICAN SOCIETY FOR TESTING AND MATERIALS ASTM A446 SPECIFICATION FOR STEEL SHEET, ZINC COATED (GALVANIZED) BY HOT DIP PROCESS.
C. AMERICAN WELDING SOCIETY (AWS) D1.1 CODE FOR WELDING IN BUILDING CONSTRUCTION AND AWS 240.1 SAFETY IN WELDING AND CUTTING.
70.05 ALL 16 GAGE AND HEAVIER GALVANIZED (> 54 MILS) STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF ASTM A-446, GRADE D (MINIMUM YIELD OF 50 KSI).
70.06 ALL 18 GAGE AND LIGHTER GALVANIZED (< 54 MILS) STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF ASTM A-446, GRADE D (MINIMUM YIELD OF 33 KSI).
70.07 ALL STUDS INDICATED SHALL BE 1-1/2" WIDE FLANGES WITH A 1/2" UP. ALL TRACK INDICATED SHALL HAVE MINIMUM 1-1/4" WIDE FLANGES.
70.08 ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR AT AN ANGLE TO FIT SQUARELY AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED. PRE-FABRICATED PANELS SHALL BE SQUARE. WIRE TING OF FRAMING COMPONENTS IN STRUCTURAL APPLICATIONS IS NOT PERMITTED.
70.09 PROVIDE LATERAL BRACING IN WALL, FLOOR AND ROOF SYSTEMS TO MANUFACTURERS SPECIFICATIONS OR RECOMMENDATIONS.
70.10 ALL LIGHT GAGE STEEL FRAMING SHALL BE ERECTED BY APPROVED METHODS USING EQUIPMENT OF ADEQUATE CAPACITY TO SAFELY PERFORM THE WORK. CONTRACTOR TO PROVIDE TEMPORARY BRACING AS NECESSARY.
70.11 FASTENING OF COMPONENTS SHALL BE BY SELF DRILLING SCREWS. FRAMING COMPONENTS SHALL BE SECURED WITH SCREWS AS DESIGNATED BY THE MANUFACTURER OR AT A MINIMUM USING THREE #10 SCREWS FOR CONNECTION UNLESS NOTED OTHERWISE.
70.12 WELDING MAY BE USED WHERE THE THICKNESS OF THE THINNEST MATERIAL CONNECTED IS 43 MILS OR GREATER. WELDS SHALL BE MADE WITH EPOXY ELECTRODES. AS A MINIMUM USE ONE INCH LONG FILLET OR FLARE GROVE WELD AT EACH SIDE OF THE CONNECTION UNLESS NOTED OTHERWISE. ALL WELDS OF GALVANIZED STEEL SHALL BE COVERED WITH ZINC-RICH PAINT.
70.13 GALVANIZED STEEL AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT MEETS THE MINIMUM REQUIREMENTS OF THE CURRENT A.S.S.I. SPECIFICATION WITH A MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE A MINIMUM PROTECTIVE COATING EQUAL TO ASTM A53.
70.14 WHEN REQUIRED, DETAILING CONNECTIONS SHALL ALLOW FOR POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB TO PROVIDE FRICITIONLESS LATERAL AND VERTICAL MOVEMENT.
70.15 DESIGN CONNECTIONS FOR ATTACHMENT OF METAL FRAMING TO METAL FRAMING AND TO THE PRIMARY STRUCTURE SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH A MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE A MINIMUM PROTECTIVE COATING EQUAL TO ASTM A53.
70.16 DESIGN BRACING CLIPS TO PROVIDE ATTACHMENT TO STUD WEB AND WRAPPING AROUND THE BRACING CHANNEL. BRACING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH A MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE A MINIMUM PROTECTIVE COATING EQUAL TO ASTM A53.
70.17 FRAMING OF WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS AS RECOMMENDED BY THE STUD MFR. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DOCUMENTS.
70.18 TRACK SHALL BE SECURELY ANCHORED TO FLOOR AND OVERHEAD STRUCTURE. ANVILY LOADED STUDS SHALL BE SEATED SQUARELY IN THE TRACK WITH THE STUD WEB AND FLANGE OVERHUNG THE TRACK WEB, AND ALL STUDS SHALL BE PLUMBED AND ALIGNED AND SECURELY ATTACHED TO THE FLANGES OR WEBS OF BOTH UPPER AND LOWER TRACKS.
70.19 MINIMUM CONNECTION REQUIREMENTS:
A. TRACK TO STEEL OPTIONS:
1. 0.145" DIA. PA.F.S @ 8" O.C. STAGGERED.
2. #12 MHF SELF TAPPING TEX SCREWS @ 8" O.C.
B. TRACK TO BLOCK W/ (2) 3/16" THICK SPIDER ANCHORS AT EA JOINT/STUD EMBED 15" MINIMUM INTO BLOCK/POUT.
C. TRACK TO CONCRETE OPTIONS:
1. 0.145" DIA. PA.F.S @ 8" O.C. STAGGERED EMBED 15" MIN.
2. 3/16" THICK SPIDER ANCHORS @ 8" O.C. EMBED 15" MIN.
D. STUD TO STUD OR JUST TO JOIST W/ (4) #10 MHF SELF TAPPING TEX SCREWS MIN.
E. STUD TO STEEL OPTIONS:
1. 0.145" DIA. PA.F.S
2. #12 MHF SELF TAPPING TEX SCREWS

METAL BUILDING SYSTEMS

- MES-1 DESIGN, FABRICATION AND ERECTION OF THE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE SUBJECT TO WITHSTAND LOADS FROM WIND, SNOW, GROUND, STRUCTURAL MOVEMENT AND SEISMIC ACTION WITHOUT EXCEEDING ALLOWABLE STRESSES AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES:
A. METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) 'METAL BUILDING SYSTEMS MANUAL' (LATEST EDITION).
B. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 'SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS' AND STEEL DESIGN GUIDE MEMBERS' (LATEST EDITION).
C. IRON AND STEEL INSTITUTE (ISI) 'NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS' (LATEST EDITION).
D. AMERICAN WELDING SOCIETY (AWS) 'STRUCTURAL WELDING CODE STEEL AND D1.1/D1.1M'.
70.21 DEFORMATIONS OF THE PRE-ENGINEERED BUILDING INCLUDING BUT NOT LIMITED TO LATERAL DRIFT, RACKING OF FRAMES, AND HORIZONTAL AND VERTICAL DEFLECTIONS OF STRUCTURAL ELEMENTS, CLADDING OR OTHER SUPPORTED ELEMENTS, IS TO BE LIMITED BY THE RECOMMENDATIONS SET FORTH IN AISC'S STEEL DESIGN GUIDE SERIES 3: 'SIGNIFICANTLY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS;' AND AS FOLLOWS:
70.22 DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE OR RECEIVE SPRAYED FIREPROOFING, CONNECTIONS RECOATED AS SLP CRITICAL OR TO BE WELDED. STEEL SURFACES RECEIVING AUTOMATICALLY WELDED STEEL CONNECTIONS SHALL IN THE FIELD SHALL NOT BE PAINTED.
70.23 PLAN SPOFFED STAINLESS STEEL ELEMENTS SHALL NOT BE SUBSTITUTED FOR ANY OTHER MATERIAL, RIB BAGED ALLOY, OR FINISH UNLESS WRITTEN APPROVAL OF E.O.R. PRIOR TO FABRICATION.
70.24 PROVIDE TYPICAL CROSS SECTION OF STRUCTURAL FRAMING TO PROVIDE LATERAL SUPPORT UNTIL ALL PERMANENT BRACING MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (WHYBRINGS) ARE COMPLETELY INSTALLED.
70.25 SEE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL MISCELLANEOUS STEEL REQUIREMENTS.

PRE-ENGINEERED METAL BUILDING NOTES

- MB-1 THE ENTIRE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE AND/OR STATE/LOCAL REQUIREMENTS, AND THE 'LOW-RISE BUILDING SYSTEMS MANUAL' AS PUBLISHED BY THE METAL BUILDING MANUFACTURER'S ASSOCIATION, WHERE THESE CRITERIA CONFLICT, THE MORE STRINGENT CRITERIA SHALL APPLY.
MB-2 IF THE PRE-ENGINEERED METAL BUILDING MANUFACTURER'S RESPONSIBILITY TO DESIGN THE COMPLETE BUILDING SYSTEM (STEEL FRAMING, ANCHOR BOLTS, PANELS, Girts, BRACING, CONNECTIONS, ROOFING, WALL PANELS, ETC.) IS TO BE COMPLETED BY THE METAL BUILDING SYSTEM MANUFACTURER, THE DESIGN SHALL BE SIGNED AND SEALED BY THE METAL BUILDING SYSTEM MANUFACTURER'S ASSOCIATION, WHERE THESE CRITERIA CONFLICT, THE MORE STRINGENT CRITERIA SHALL APPLY.
MB-3 THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL BE CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION CATEGORY 'MB'.
MB-4 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE ENTIRE METAL BUILDING SYSTEM FOR REVIEW. THE CONTRACTOR SHALL ALSO SUBMIT A COMPLETE STRUCTURAL DESIGN ANALYSIS OF THE BUILDING SYSTEM. THE SHOP DRAWING SUBMITTAL SHALL INCLUDE ALL ANCHOR BOLT REQUIREMENTS AND FOUNDATION REACTIONS. ALL SHOP DRAWING AND CALCULATION SUBMITTALS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER.
MB-5 DESIGN LOADS TO BE USED IN CONNECTION WITH THE METAL BUILDING DESIGN ARE PER THE 'DESIGN CRITERIA NOTES' IN ADDITION TO THE ACTUAL DESIGN LOAD. A NON-CORROSION COATING, ROOF FRAMING LOAD OF 10 PSF SHALL BE INCLUDED, COORDINATE ANY EQUIPMENT LOADS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
MB-6 CALCULATIONS FOR FRAME DEFLECTIONS SHALL BE DONE USING ONLY THE BASE FRAME METHOD. REDUCTIONS BASED ON ENGINEERING JUDGMENT USING THE ASSUMED COMPOSITE STIFFNESS OF THE BUILDING ENVELOPE SHALL NOT BE PERMITTED. DRIFT SHALL FOLLOW AISC'S 'SIGNIFICANTLY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS'. CALCULATIONS SHALL BE SUBMITTED VERIFYING THAT THE ACTUAL DRIFT UNDER CODE REQUIRED LOADINGS DOES NOT EXCEED THE ALLOWABLE.
MB-7 THE PRE-ENGINEERED MANUFACTURER SHALL PROVIDE ALL Girts, PURLINS, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. ALL WALL SYSTEMS, SUCH AS WELD STUDS, STOPROPS, ETC. SHALL BE PROPERLY SUPPORTED BY THE METAL BUILDING SYSTEM. ALLOWABLE DEFLECTIONS OF COMPONENTS SHALL BE IN ACCORDANCE WITH THE LATEST F.E. / E.C.
MB-8 THE FOUNDATION DESIGN IS BASED UPON UNIFORM STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORROSION OF ANY REVISIONS REQUIRED AS A RESULT OF A CHANGE IN THE BUILDING DESIGN ASSUMPTIONS, INCLUDING REDUCTION OF THE FOUNDATIONS.
MB-9 THE SIZE, NUMBER AND PLACEMENT PATTERN OF ALL ANCHOR BOLTS SHALL BE DETERMINED BY THE PRE-ENGINEERED BUILDING MANUFACTURER. MINIMUM ANCHOR BOLT EMBEDMENTS ARE INDICATED ON THE CONTRACTOR DRAWINGS.
MB-10 THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED BY THE MANUFACTURER TO RESIST LATERAL LOADS AS FOLLOWS: INTERIOR FRAME LINES - RIGID FRAMES (PAINED BASED) PERMITTER WALL LINES - BRACED BAYS OR PORTAL FRAMES.
MB-11 THE METAL BUILDING ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING.
MB-12 UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STEEL MEMBERS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH MANUFACTURER'S STANDARD PROCEDURES OR THE CONTRACT DOCUMENTS, WHICHEVER IS MORE STRINGENT.
MB-13 THE FOUNDATIONS HAVE BEEN DESIGNED FOR THE REACTIONS INDICATED. THESE ARE BASED ON PAINED COLUMN BASES. 'TIED BACK' COLUMNS ARE NOT PERMITTED WITHOUT THE ENGINEER'S WRITTEN APPROVAL.

WALTON COUNTY WIND LOAD STATEMENT

I CERTIFY THAT THE DESIGN PLANS AND SPECIFICATIONS FOR THIS CONSTRUCTION ARE IN COMPLIANCE WITH THE CRITERIA ESTABLISHED BY THE FLORIDA BUILDING CODE 7TH EDITION (2020) AND SECTION 4.02.06 OF THE WALTON COUNTY LAND DEVELOPMENT CODE. THIS BUILDING AND/OR STRUCTURE IS DESIGNED TO WITHSTAND A WIND VELOCITY OF 140 MPH (ASCE 7-16) AND CHAPTER 16 OF THE FLORIDA BUILDING CODE.
UPON COMPLETION OF THIS BUILDING AND/OR STRUCTURE, I WILL CERTIFY AT THAT TIME THE BUILDING AND/OR STRUCTURE HAS COMPLIED WITH THIS SPECIFIC BUILDING DESIGN. THIS MUST BE ON FILE AT THE WALTON COUNTY BUILDING DEPARTMENT BEFORE RECEIVING AN INSPECTION FOR POWER. I UNDERSTAND THAT ANY CHANGE IN DESIGN OR SPECIFICATION MUST BE SUBMITTED IN WRITING BY ME TO THE BUILDING DEPARTMENT. ALL DRAWINGS AND/OR CORRESPONDENCE SHALL BE SIGNED AND SEALED.

WALTON COUNTY FLOOD ZONE DESIGN CERTIFICATION

I CERTIFY, TO THE BEST OF MY KNOWLEDGE, THAT THE FOUNDATION AND STRUCTURE IS DESIGNED AS ADEQUATELY ANCHORED TO PREVENT FLOODING, COLLAPSE AND LATERAL MOVEMENT OF THE STRUCTURE RESULTING FROM HYDROSTATIC AND HYDROSTATIC LOADS, INCLUDING THE EFFECT OF BUOYANCY. THE DESIGN HAS TAKEN INTO ACCOUNT THE PROVISIONS OF (FBC 18322/FBC 1612/ASCE 24) AND THE FLOOD LOADS IMPOSED BY A BASE FLOOD EVENT OF A 100 YEAR FLOOD AS SHOWN ON THE CURRENT WALTON COUNTY FLOOD INSURANCE MAP.

REQUIRED SCHEDULE OF INSPECTIONS

- 1. FOUNDATION ELEMENTS:
- REVIEW OF GENERAL LAYOUT, ELEMENT SIZES, AND REINFORCING
- ALL VERT. DOWNL. REINF. MUST BE IN PLACE & TIED
GENERAL FRAMING/STRAPPING:
- WALL SYSTEM FRAMING W/ KING STUDS AND STUD PACKS WHERE SPECIFIED
- PLAN SPECIFIC STRUCTURAL ELEMENTS INCLUDING BEAMS, COLUMNS
- TYPICAL FRAMING PERMITTED TO BE APPROVED IF STRUCTURALLY IDENTICAL IS REQUIRED
- PLAN SPECIFIED CONNECTIONS, HOLDDOWS, STRAPPING & ANCHORING
- CAST IN PLACE CONCRETE ELEMENTS
- REINF. FOR WALLS & COLUMNS PRIOR TO CLOSING FORMWORK
- REINF. IN ALL C.P. BEAMS, & STRUCTURAL SLABS
ENGINEER: FINAL INSPECTION & COUNTY WIND LOAD CERTIFICATION:
- PRIOR TO FINAL CERT. THE EOR MUST PERFORM A FINAL WALK-THROUGH OF ALL PORTIONS OF THE STRUCTURE INCLUDING WITH EACH PERMIT NUMBER ASSOCIATED WITH THE PROJECT. THE BUILDING ENVELOPE MUST BE 100% STRUCTURALLY COMPLETE AT THE TIME OF THIS INSPECTION.

INSPECTION NOTES:

- A. THE E.O.R. CHECKPOINT INSPECTIONS LISTED ABOVE ARE SEPARATE FROM, AND IN NO WAY SUPPLANT THE COUNTY BUILDING INSPECTOR'S REQUIRED CONSTRUCTION INSPECTIONS.
B. THE CONTRACTOR SHOULD TAKE ACCURATE PICTURES OF ALL STRUCTURAL ELEMENTS DURING EACH AND ALL PHASES OF CONSTRUCTION TO PROVIDE VERIFICATION OF STRUCTURAL ELEMENTS AND CONSTRUCTION METHODS TO THE E.O.R. AT THE TIME OF EACH INSPECTION.
C. INSPECTIONS MUST BE SCHEDULED A MINIMUM OF 24 HOURS IN ADVANCE. ON SITE CANCELLATIONS WILL NOT BE ACCEPTED. SCHEDULING AND COORDINATING OF THESE INSPECTIONS IS THE CONTRACTOR'S RESPONSIBILITY.
D. RE-INSPECTIONS RESULTING FROM REQUIRED REMEDIAL ACTIONS, CONTRACTOR ERROR, OR SCHEDULING MISS-GUELIE ARE IN ADDITION TO THE SCHEDULED INSPECTION FREQUENCY.

REQUIRED STRUCTURAL SUBMITTALS

- 1. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED 'APPROVED' PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. NON-CONFORMING DRAWINGS SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
2. IN ADDITION TO ANY SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS OR ELSEWHERE IN THE COST DOCUMENTS, THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
A. PRE ENGINEERED METAL BUILDING & COMPONENTS (*)
B. LIGHT GAGE METAL FRAMING (*)
C. CONCRETE MIX DESIGNS
HANDRAILS AND METAL STAIRS (*)
E. GANTRY FRAMING (*)
3. ITEMS MARKED (S) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT RESIDES AND SHALL MEET THE FOLLOWING CRITERIA:
3.1. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PRODUCT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, CALCULATIONS, AND DRAWINGS NECESSARY FOR FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERAL PRODUCTS WILL NOT BE ACCEPTED.
3.2. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.
3.3. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED SIMULTANEOUSLY AND SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT RESIDES. COMPUTER PRINTOUTS ARE AN INDICATION THAT THE ENGINEER HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED SET FOR THEIR RECORDS.
3.4. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
3.5. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
(a) THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
(b) THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
(c) THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE).
(d) THAT THE CONTRIBUTION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).
3.6. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED.
4. ITEMS MARKED (F) SHALL BE SUBMITTED FOR ENGINEERS RECORD ONLY.
5. MANUFACTURER'S LITERATURE: SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
6. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
7. SHOP DRAWING SUBMITTALS SHALL INCLUDE ONE GOOD QUALITY REPRODUCIBLE AND THREE SETS OF BLUEPRINTS. ONE SET OF PRINTS WILL BE RETAINED BY THE ENGINEER OF RECORD, ONE BY THE ARCHITECT, ONE BY THE LOCAL BUILDING DEPARTMENT (WHERE REQUIRED) AND THE CONTRACTOR SHALL MAKE PRINTS FROM THE REPRODUCIBLE AS REQUIRED FOR DISTRIBUTION.
8. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
9. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER OF RECORD REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. THE CONTRACTOR IS RESPONSIBLE FOR COSTS CAUSED BY MULTIPLE RE-SUBMITTALS (MORE THAN ONE) AT ARCHITECT/ENGINEER'S CURRENT hourly RATES.
10. STRUCTURAL SUBMITTALS TO APEX ENGINEERING GROUP, P.L.L.C. WILL BE REVIEWED AND RETURNED WITHIN TEN (10) BUSINESS DAYS OF SUBMITTAL IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICES UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHOULD PLAN ACCORDINGLY TO PREVENT PRODUCT DELAYS.
11. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
12. DRAWINGS INTRODUCING ENGINEERING INPUT AND CALCULATIONS SHALL BE SEALED BY THE ENGINEER PREPARING SUCH WORK F.A.C. 61615-30.006 (3).
13. ANY DESIGN CHANGES MADE BY A 'VALUE, SPECIALTY OR DELEGATED ENGINEER' SHALL BE PERFORMED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. PRIOR TO FABRICATION ALL DESIGN CHANGES MUST BE SUPPORTED BY CALCULATIONS, SIGNED AND SEALED THEN SUBMITTED TO THE E.O.R. FOR APPROVAL.
14. REFER TO F.A.C. SECTION 61615-23.002, 30.002, 30.006 AND 31.002 FOR ADDITIONAL INFORMATION.

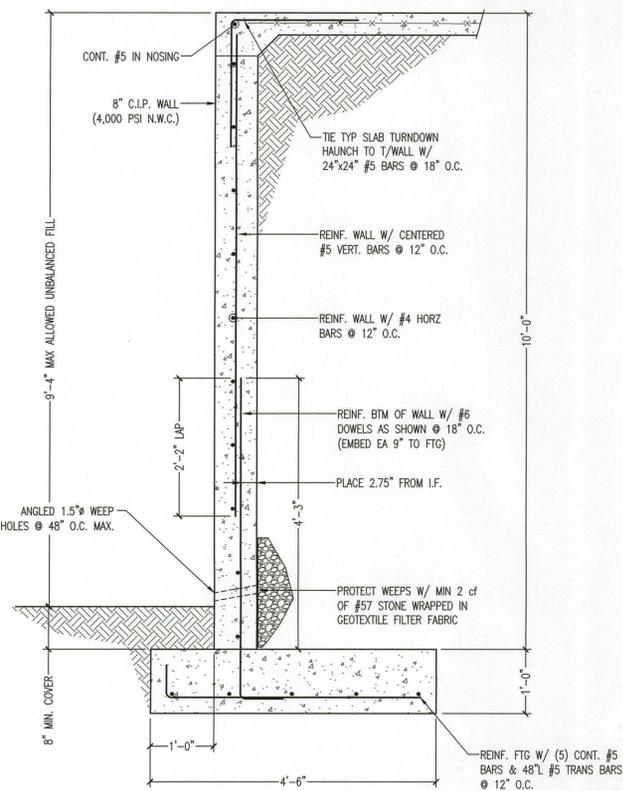


Not Valid without Original Signature.

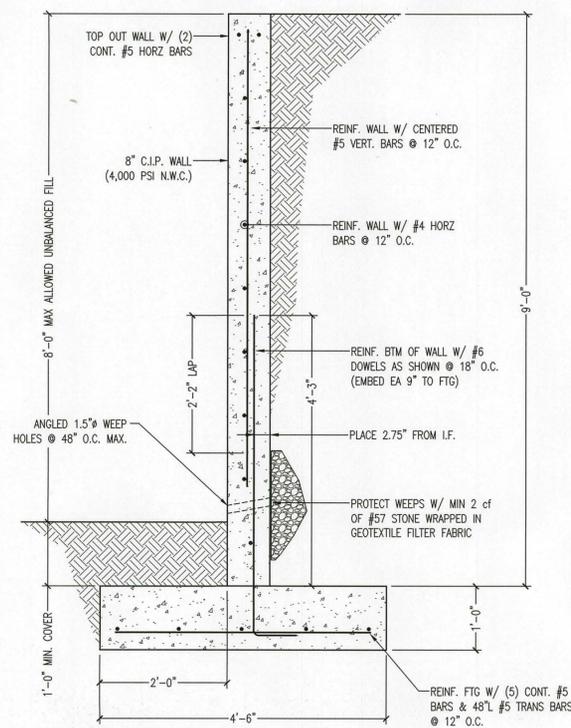
APEX ENGINEERING GROUP, P.L.L.C.
78-A Ricker Avenue, Santa Rosa Beach, Florida 32459
Florida Certificate of Authorization: # 32176
Phone: 850-231-4540. Email: info@apexengineeringgroup.net

GRAYTON BEACH TRANSIT FACILITY WALTON COUNTY, FLORIDA

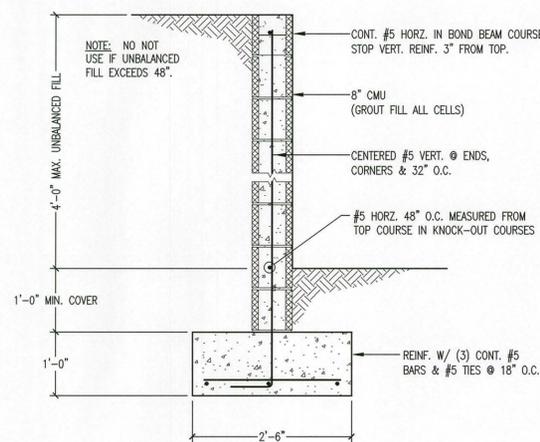
PROJECT NUMBER: 8307-2201
DESIGNED BY: DAB
REVIEWED BY: n/g



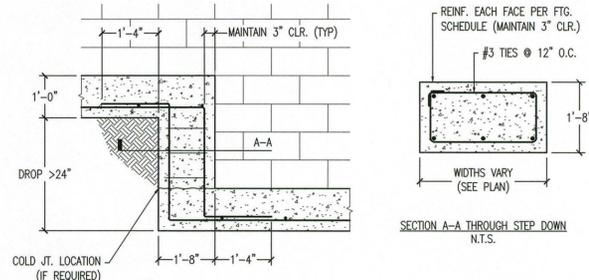
A BUILDING REAR RETAINING WALL SECTION
S-501 3/4" = 1'-0"



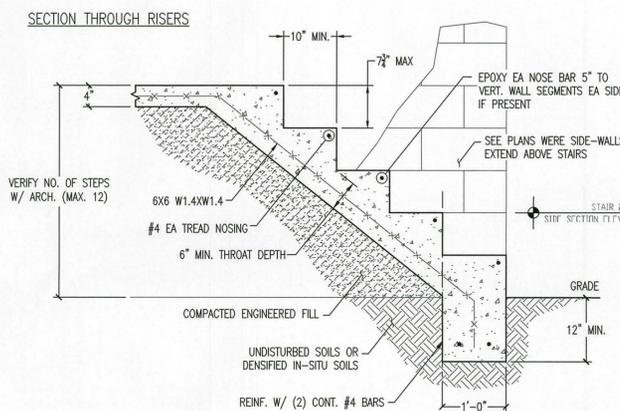
B 8' FREE STANDING RETAINING WALL
S-501 3/4" = 1'-0"



C 4' FREE STANDING RETAINING WALL
S-501 3/4" = 1'-0"



D TYP. FTG. REINF. @ CHANGE IN ELEV.
S-501 1/2" = 1'-0"



E SLAB CONTROL JOINTS
S-501 N.T.S.

CONSTRUCTION JOINTS
REQUIRED AT ALL LOCATIONS OF DISCONTINUOUS SLAB POURS

1/2" x 18" LONG SMOOTH UNBONDED DOWELS SPACED @ 24" O.C.

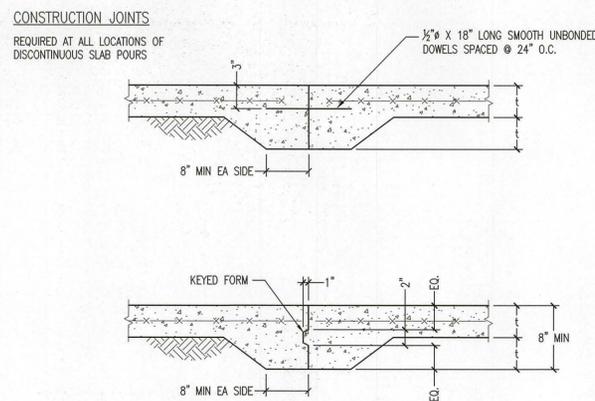
8" MIN EA SIDE

KEYED FORM

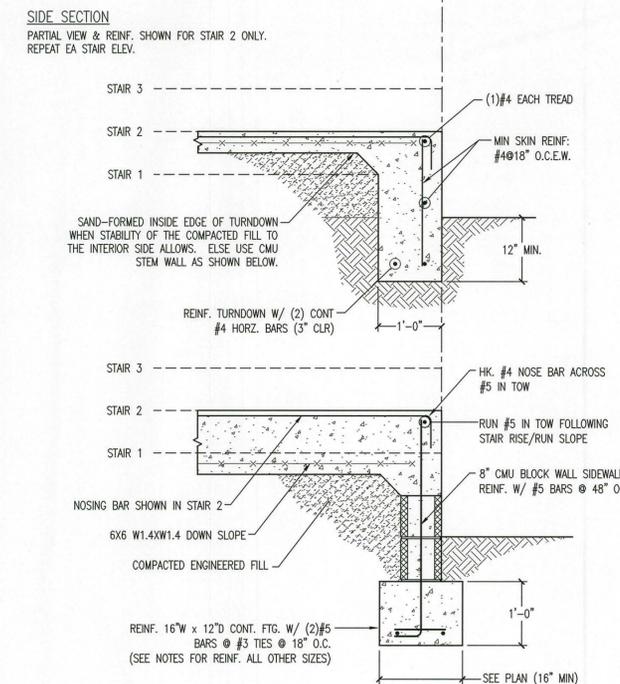
8" MIN EA SIDE

SLAB THICKNESS "t"	SLUMP 4" TO 6"		SLUMP LESS THAN 4"
	MAXIMUM SIZE AGGREGATE LESS THAN 3/4"	MAXIMUM SIZE AGGREGATE 3/4" & LARGER	
4"	8 FT	10 FT	12 FT

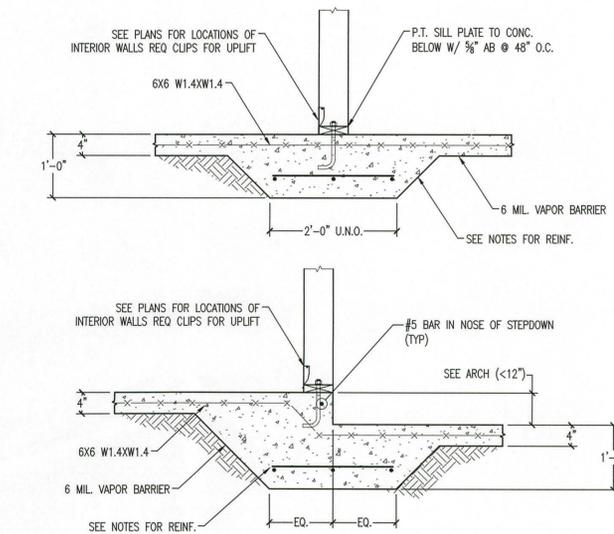
CONTROL JOINT NOTES:
 1. THE ACTUAL LOCATIONS OF ALL CONTROL JOINTS MUST BE FIELD LOCATED BY THE CONTRACTOR.
 2. PLAN IDENTIFIED CONTROL JOINTS ARE APPROXIMATE OR SHOWN FOR GENERAL INSTRUCTION ONLY. ACTUAL LOCATIONS SHALL BE VERIFIED TO LIMIT THE FREQUENCY AND WIDTH OF RANDOM CRACKS IN THE CONCRETE SLAB.
 3. LOCATION AND INSTALLATION OF ALL CONTROL JOINTS SHALL BE IN ACCORDANCE WITH ACI 308R "DESIGN OF SLABS ON GROUND" AND THE DETAILS THEREIN.
 4. MAXIMUM SPACING OF JOINTS SHALL BE PER THE TABLE IN THIS DETAIL UNLESS OTHERWISE APPROVED.
 5. SLAB SHALL BE SAWN AS SOON AS THE CONCRETE WILL SAFELY SUPPORT MEN AND EQUIPMENT AFTER HARDENING.
 6. KEYED FORM TO BE REMOVED BEFORE ADJACENT SLAB IS POURED.



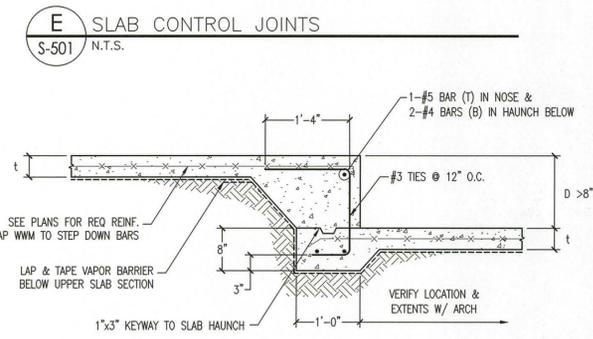
F TYP. CONC. FINISHING DETAILS
S-501 3/4" = 1'-0"



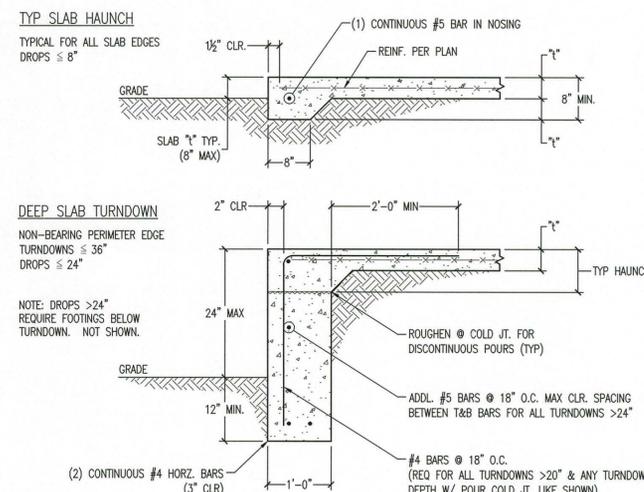
G FREE-STANDING S.O.G. STEPS
S-501 3/4" = 1'-0"



H THICKENED SLAB DETAIL
S-501 3/4" = 1'-0"



I TYP. NON-BEARING SLAB STEP DOWNS
S-501 3/4" = 1'-0"



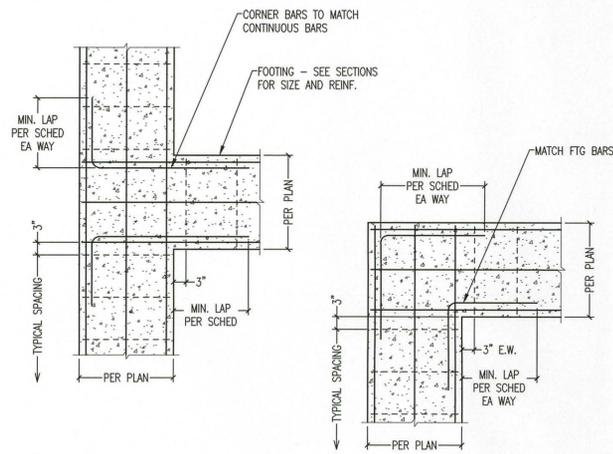
J TYPICAL SLAB PERIMETER CONDITIONS
S-501 3/4" = 1'-0"



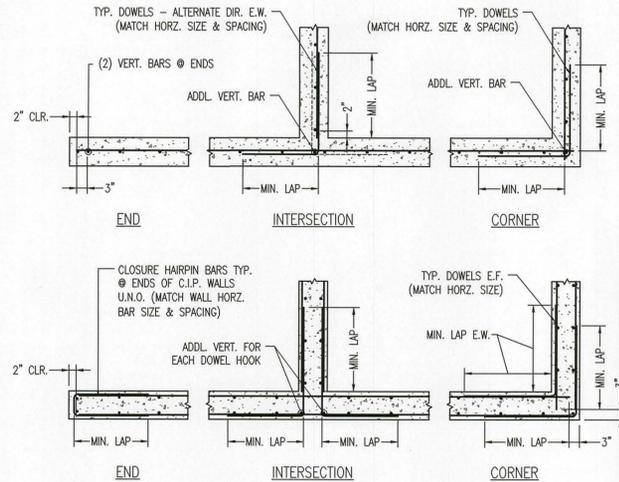
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 TRANSIT FACILITY
 WALTON COUNTY, FLORIDA**

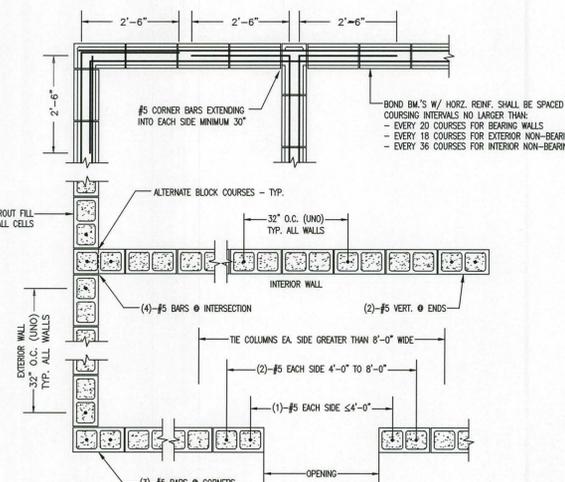
PROJECT NUMBER:	8307-2201
DESIGNED BY:	DAB
REVIEWED BY:	n/a
SHEET SCALE:	AS NOTED
RELEASE RECORD:	
ISSUED FOR BIDDING:	11-21-2022
PERMIT DOCUMENTS:	03-29-2023
CONST. DOCS/REV. 1:	02-26-2024
DRAWING TITLE:	
CONSTRUCTION DETAILS	
DRAWING NO.	
S-501	



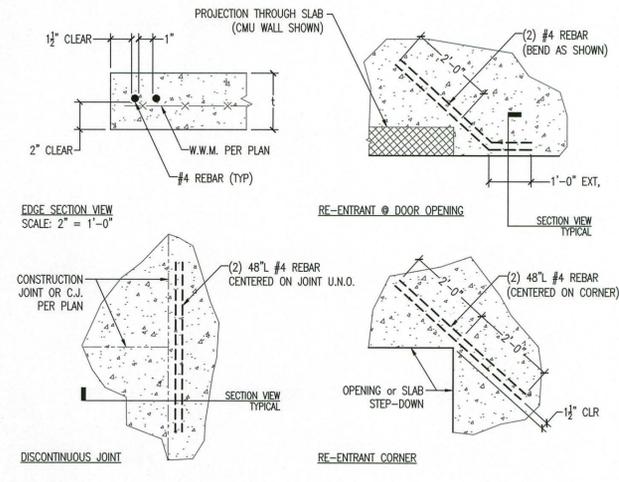
A TYPICAL FTG. REINF. @ INTERSECTIONS
S-502 N.T.S.



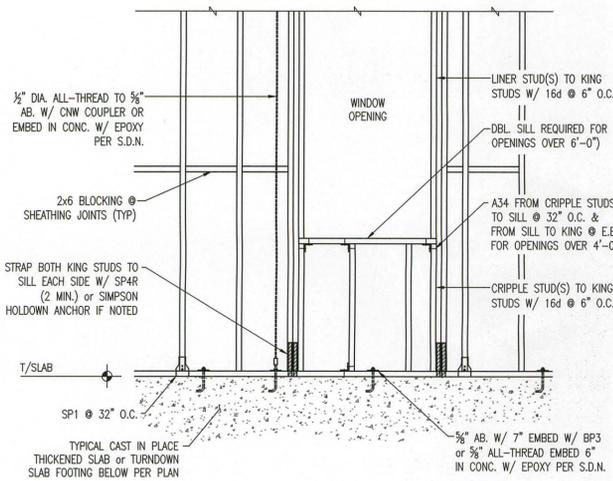
B TYP. C.I.P. WALL REINF.
S-502 1/2" = 1'-0"



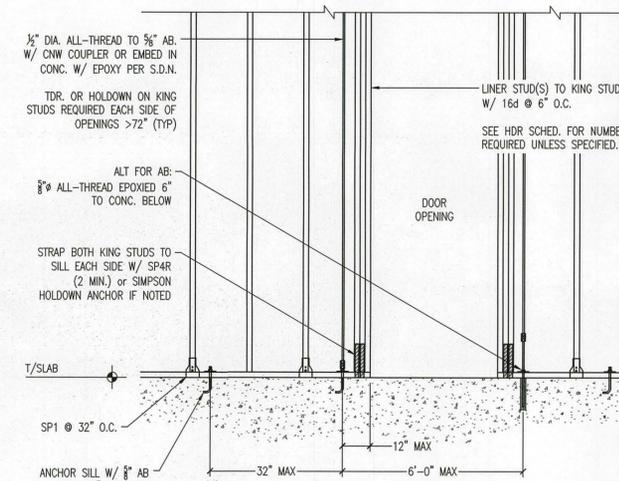
C TYP. CMU WALL REINFORCING
S-502 N.T.S.



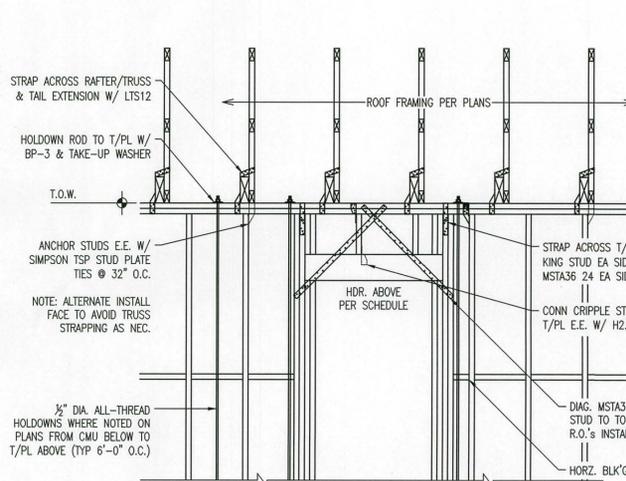
D SUPPLEMENTAL SLAB REINF.
S-502 1/2" = 1'-0"



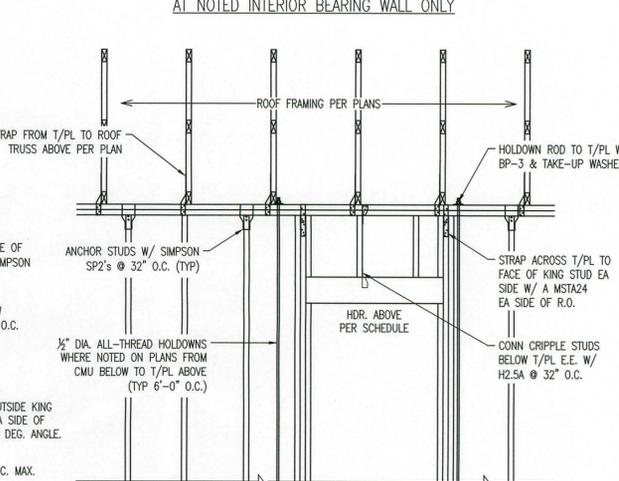
E TYP. WALL STRAPPING
S-502 1/2" = 1'-0"



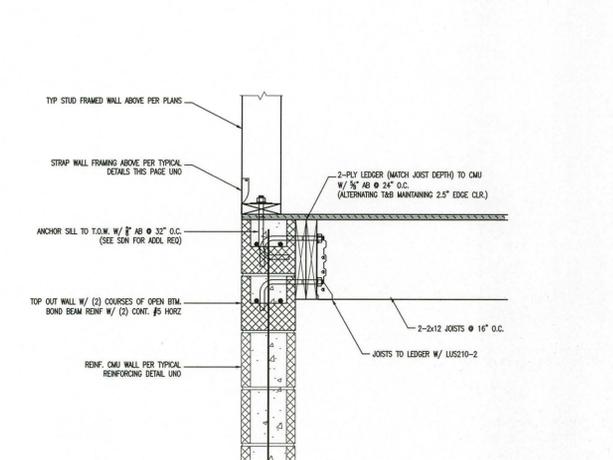
F TYP. WALL STRAPPING
S-502 1/2" = 1'-0"



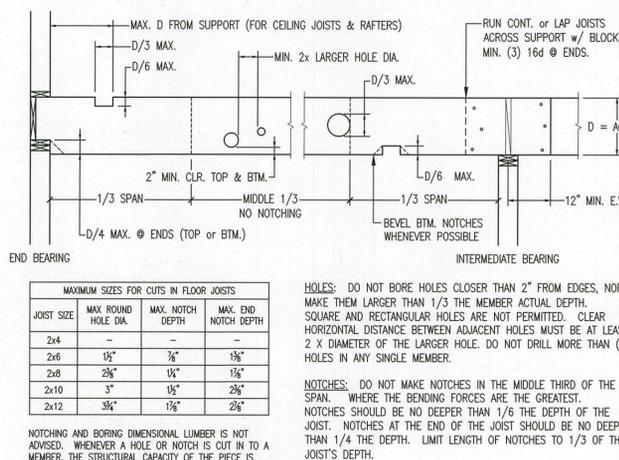
G EXTERIOR WALL STRAPPING @ ROOF
S-502 1/2" = 1'-0"



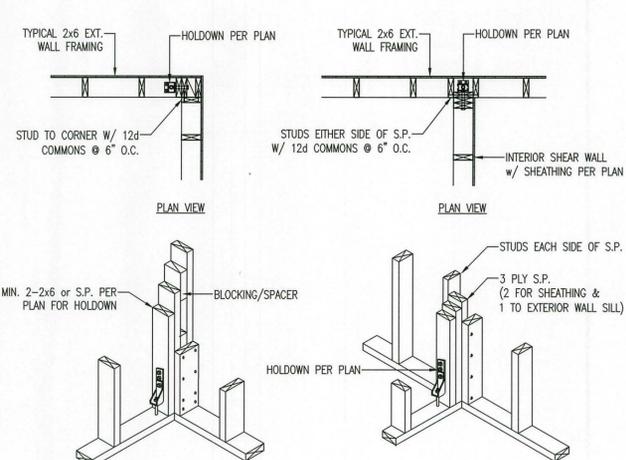
H ROOF BEARING WALL STRAPPING
S-502 1/2" = 1'-0"



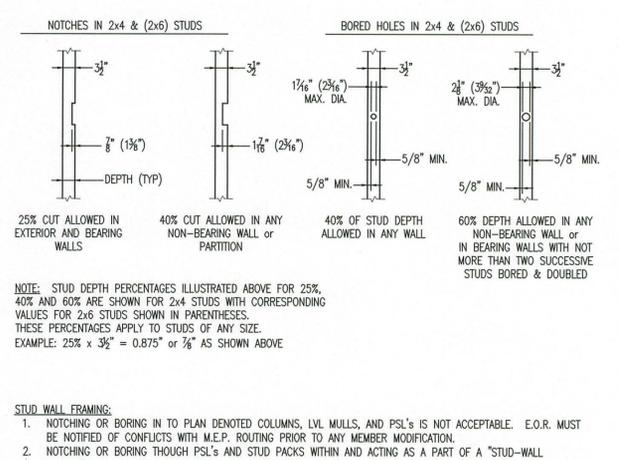
I SECTION @ TOP OF WALL
S-502 1" = 1'-0"



J PLACEMENT OF CUTS IN FLOOR JOISTS
S-502 N.T.S.



K STRUCTURAL CORNER FRAMING
S-502 1/2" = 1'-0"



L PLACEMENT OF CUTS IN WALL STUDS
S-502 N.T.S.



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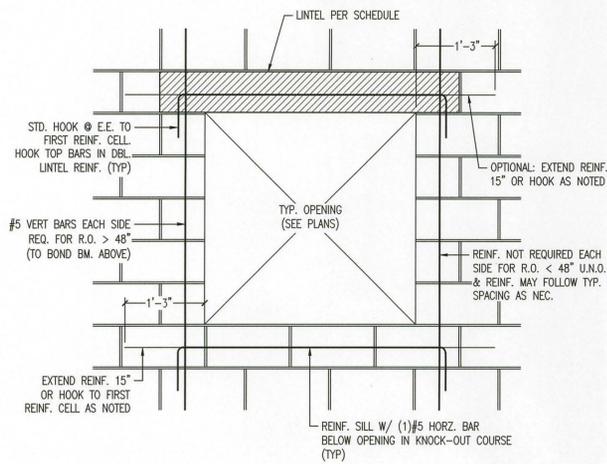
**GRAYTON BEACH
TRANSIT FACILITY
WALTON COUNTY, FLORIDA**

PROJECT NUMBER: 8307-2201
DESIGNED BY: DAB
REVIEWED BY: n/a
SHEET SCALE: AS NOTED

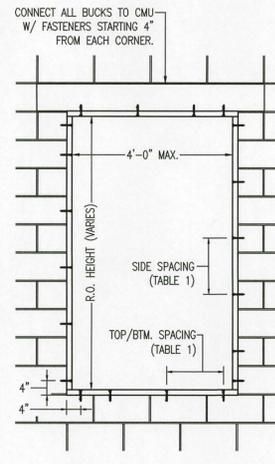
RELEASE RECORD:
ISSUED FOR BIDDING: 11-21-2022
PERMIT DOCUMENTS: 03-29-2023
CONST. DOCS/REV. 1: 02-26-2024

DRAWING TITLE:
**CONSTRUCTION
DETAILS**

DRAWING NO.
S-502



A TYP. CMU WALL OPENING REINF.
S-503 3/4" = 1'-0"

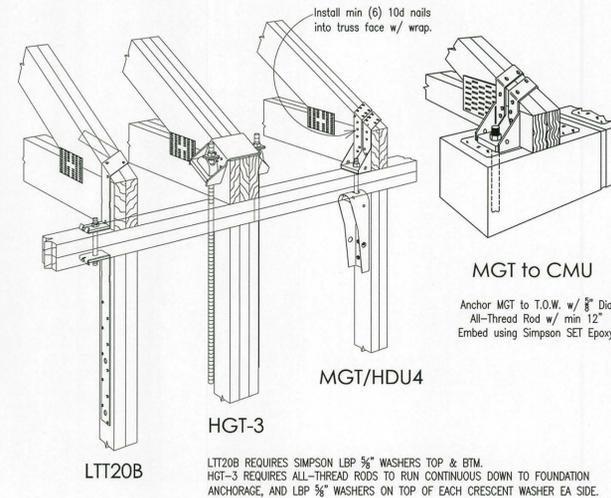


B SINGLE R.O. BUCKING CONNECTION
S-503 1/2" = 1'-0"

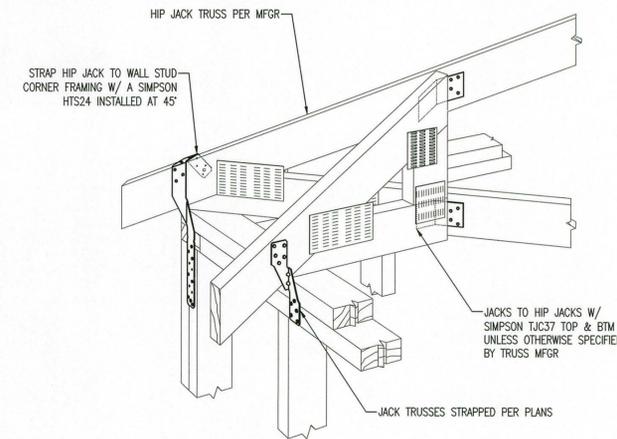
TABLE 1: TYPICAL SINGLE R.O. BUCK FASTENER SCHEDULE

TYPE	MAX. SPACING O.C.		EDGE CLEARANCE	EMBED DEPTH
	SIDES	TOP/BTM.		
1/4" SCREWS	16"	24"	1.5"	1"
1/4" S.S. TITEN	11"	23"	1.5"	1"
3/8" TITEN HD	18"	24"	4"	1.5"

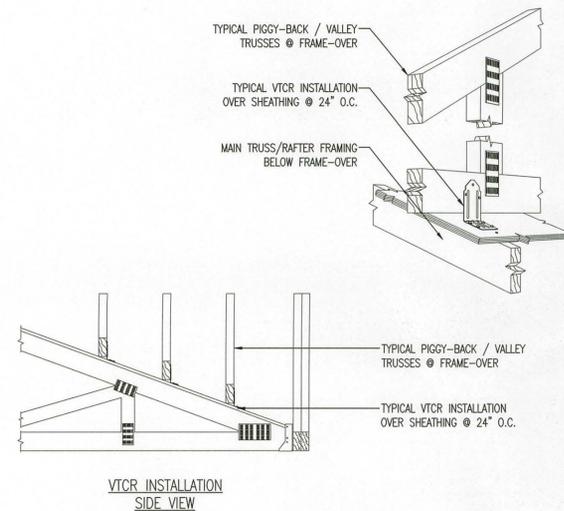
- R.O. BUCKING NOTES:
- TABLE 1 SHALL APPLY TO SINGULAR ROUGH OPENINGS ONLY UNLESS NOTED OTHERWISE. SEE TABLE 2 & ASSOCIATED DETAILS FOR FIELD MULLED MULTIPLE COMPONENT BUCK & MULL FASTENING REQUIREMENTS.
 - TABLE 2 SHALL APPLY TO ANY FACTORY "TIGHT MULLED" COMPONENTS WITHIN A SINGLE ROUGH OPENING WITH A WIDTH DIMENSION GREATER THAN 4'-0" & HEIGHT ≤ 8'-0".
 - ALL BUCKING MEMBERS MUST BE SOLID NOMINAL 2BY MATERIAL (1.5" ACTUAL) RUNNING CONTINUOUS FROM CORNER TO CORNER.
 - ALL BUCKING MEMBER DEPTH DIMENSION SIZE MUST BE ADEQUATE TO PROVIDE THE FASTENER EDGE CLEARANCES BOTH CMU AND WOOD FOR THE RESPECTIVE FASTENER TYPE CHOSEN FOR EACH APPLICATION.
 - FASTENER MAXIMUM SPACING SHALL BE LIMITED TO 16" O.C. FOR 2x4 BUCKS. NO FASTENER SPACING SHALL EXCEED 24".
 - MINIMUM FASTENER PENETRATION IS MEASURED FROM THE O.F. CMU FASTENER HEADS MAY BE COUNTERSUNK & RECESSED IN THE BUCKS A MAXIMUM 1/4" PROVIDED THE WOOD EDGE CLEARANCE IS OBSERVED.
 - IT IS NOT RECOMMENDED TO COUNTERSINK ANY FASTENER MORE THAN IS NECESSARY TO PROVIDE FRAME/JAMB MINIMUM INSTALLATION CLEARANCE.
 - USE PHILLIPS FLAT HEAD SCREWS IN PLACE OF HEX-HEADS FOR FLUSH FIT WITHOUT COUNTERSINKING WHEN USING 1/4" TITEN OR TAPCON SCREWS.
 - PROJECT SPECIFIC BUCK FASTENING SHALL BE REQUIRED FOR ANY SINGLE R.O. WITH A WIDTH (OR MULLED R.O. WITH AVERAGE WIDTH) DIMENSION GREATER THAN 4'-0" AS NOTED.
 - THE AVERAGE WIDTH = OVERALL WIDTH / # OF CLEAR OPENINGS



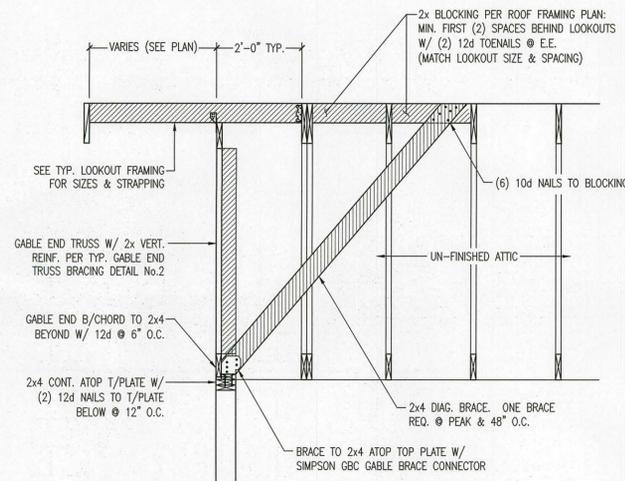
C TYPICAL ROOF GIRDER TRUSS HOLD-DOWNS
S-503 N.T.S.



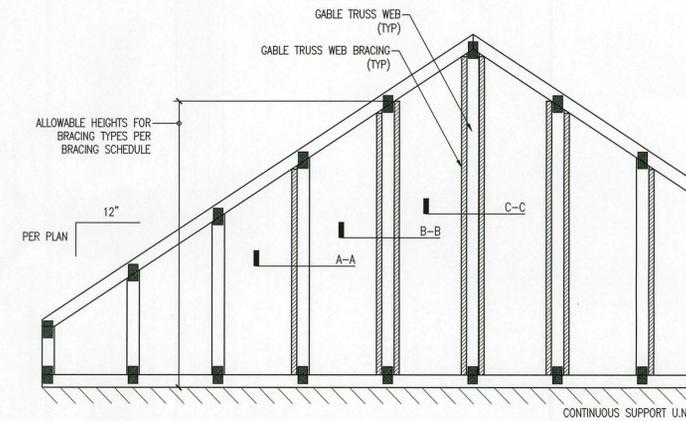
D TYP. HIP JACK STRAPPING
S-503 1-1/2" = 1'-0"



E TYP. TRUSS OVER-FRAMING DETAIL
S-503 N.T.S.



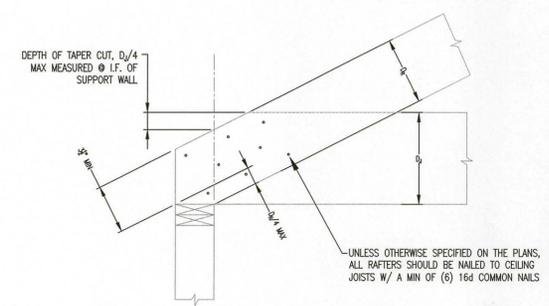
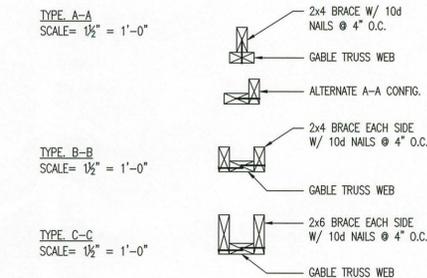
F TYP. DIAG. GABLE END TRUSS BRACING
S-503 1/2" = 1'-0"



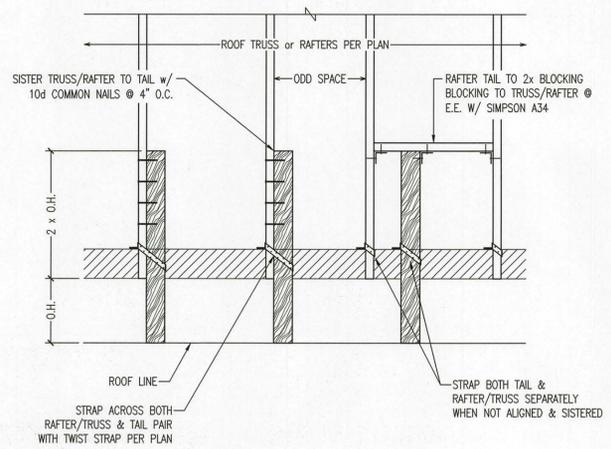
G TYP. GABLE END TRUSS BRACING DETAIL
S-503 1/2" = 1'-0"

GABLE END TRUSS BRACING SCHEDULE

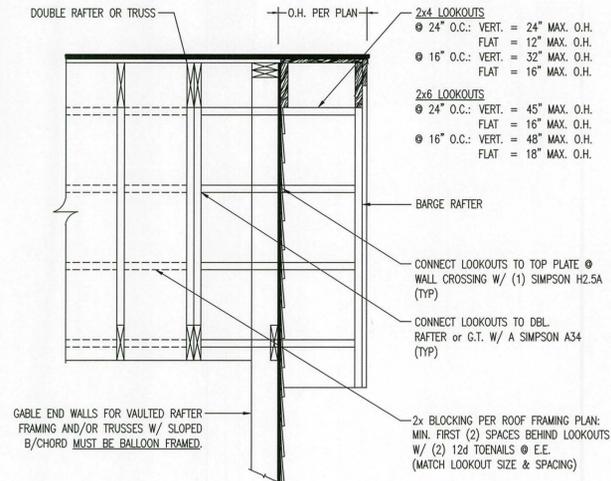
VERT. SPACING	NO BRACING	TYPE A-A (1) 2x4	TYPE B-B (2) 2x4	TYPE C-C (2) 2x6
16" O.C.	0'-0" to 4'-0"	H ≤ 8'-0"	H ≤ 11'-0"	H ≤ 15'-6"
24" O.C.	0'-0" to 4'-0"	H ≤ 6'-6"	H ≤ 8'-6"	H ≤ 12'-6"



I TYP. RAFTER & JOIST CUTS
S-503 N.T.S.



J TYP. RAFTER TAIL APPLICATION DETAIL
S-503 3/4" = 1'-0"



K TYP. LOOKOUT FRAMING
S-503 1/2" = 1'-0"



APEX ENGINEERING GROUP, PLLC
78-A Ricker Avenue, Santa Rosa Beach, Florida 32459
Florida Certificate of Authorization: # 32176
Phone: 850-231-4540. Email: info@apexengineeringgroup.net

GRAYTON BEACH TRANSIT FACILITY WALTON COUNTY, FLORIDA

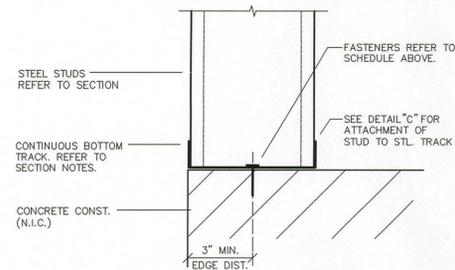
PROJECT NUMBER: 8307-2201
DESIGNED BY: DAB
REVIEWED BY: n/c
SHEET SCALE: AS NOTED

RELEASE RECORD:
ISSUED FOR BIDDING: 11-21-2022
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DRAWING TITLE:
CONSTRUCTION DETAILS
DRAWING NO.:
S-503

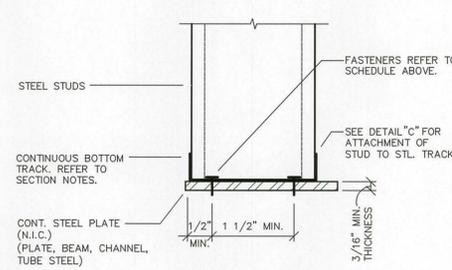
LOCATION	NUMBER OF FASTENERS REQUIRED
TYPICAL FRAMING	(1) 0.157" P.D.F. @ 8" O.C.
JAMB STUDS	(2) 0.157" P.D.F.'S @ EACH JAMB

- 1" MIN. EMBED. REQ'D FOR ALL P.D.F.'S.
- MAINTAIN 4" MIN. FASTENER SPACING FOR ALL FASTENERS

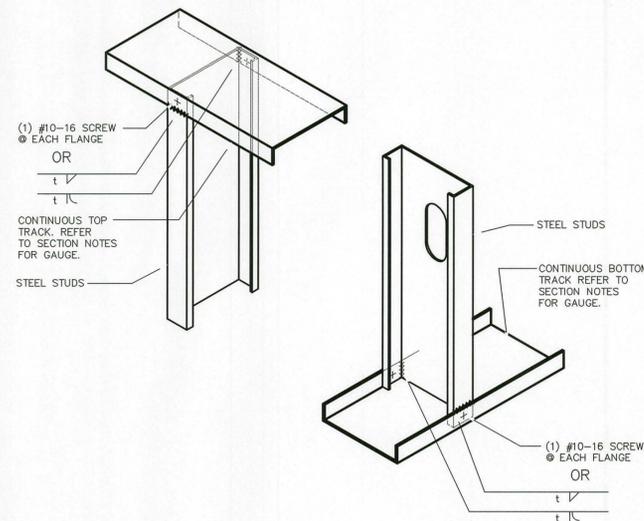


A TYPICAL TRACK CONNECTION TO CONC
S-504 N.T.S.

LOCATION	NUMBER OF FASTENERS REQUIRED
TYPICAL FRAMING	(2) 0.157" P.D.F.'S @ EACH STUD
JAMB STUDS	(4) 0.157" P.D.F.'S @ EACH JAMB



B TYPICAL TRACK CONNECTION TO STEEL
S-504 N.T.S.

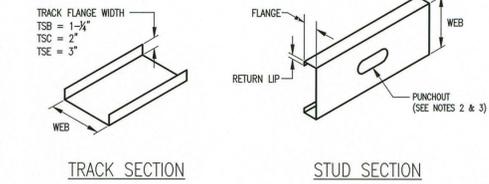


C TYP STUD TO STL. TRACK CONNECTION
S-504 N.T.S.

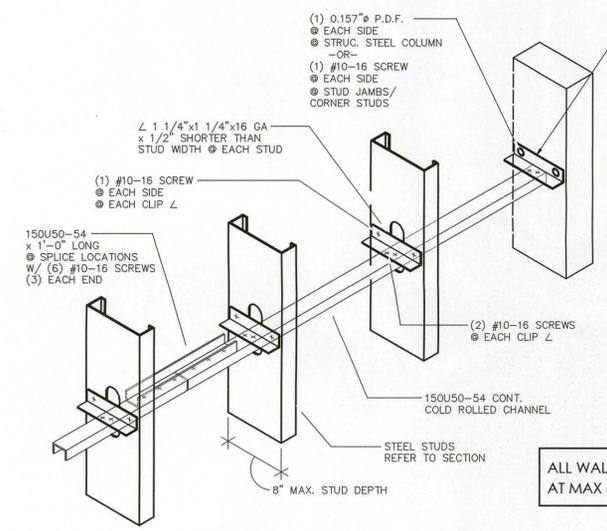
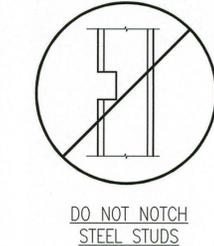
COLD-FORMED STEEL MEMBER DESIGNATION

WEB DEPTH OF MEMBER	MEMBER TYPE	YIELD STRENGTH (33 KSI U.S.O.)
250 = 2-1/2"	S = STUD or JOIST (FES = Non-Struct Drywall Stud) (PFI = Non-Struct Drywall Track)	600S162-54 (50 KSI)
350 = 3-1/2"	T = TRACK	
362 = 3-5/8"	U = CRC or U-Channel	
400 = 4"	F = Furring Channel or Hat Channel	
550 = 5-1/2"	HBS = HEAVY DUTY STUD	
600 = 6"		
800 = 8"		
1000 = 10"		
1200 = 12"		

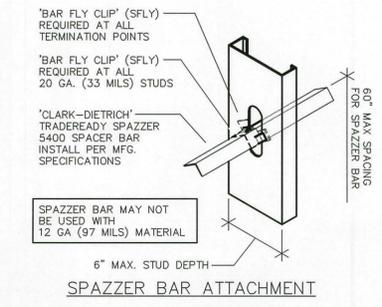
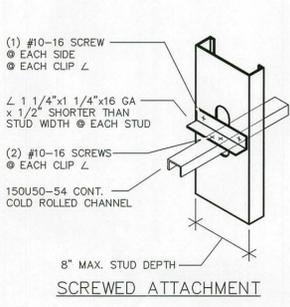
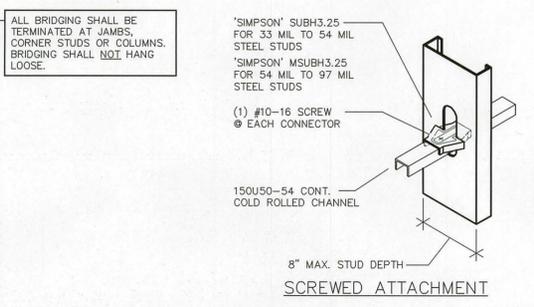
FLANGE WIDTH OF MEMBER	STUD DESIGNATION	MILS TO GAUGE CONVERSION
137 = 1-3/8"	CWN	33 MILS = 20 GA
162 = 1-3/8"	CSJ	43 MILS = 18 GA
200 = 2"	CSW	54 MILS = 16 GA
250 = 2-1/2"	CSE	68 MILS = 14 GA
300 = 3"	CSS & HDS	97 MILS = 12 GA



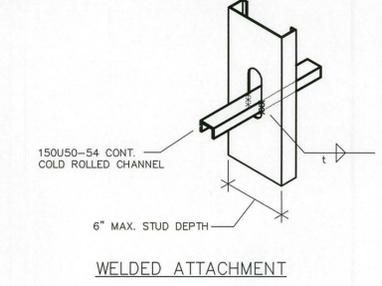
- ADDITIONAL NOTES:**
- Unless Otherwise Specified, the Member Designation on these documents follows The American Iron and Steel Institute (AISI) system. Coding of each member is ordered in four parts:
 - A number which identifies the web depth of the member to two decimal places. Ex: 362= 3.625" & 1000= 10.00", etc.
 - A letter that tells you the type of member. Ex: S= Stud
 - A number that defines the flange dimension in inches to two decimal places. Ex: 162= 1.625" & 200= 2.00", etc.
 - A number following a hyphen denotes the minimum thickness in MILS. 33 MILS = 33/1000 inches or approximately = 0.0329" See conversions above for MILS to Gauge (GA)
 - All Members used to frame rough openings (R.O.) including Headers and Head/Sill Tracks must be continuous and Un-punched. Splicing of R.O. tracks is not allowed.
 - Typical wall stud framing and R.O. Jamb Studs may be punched unless otherwise noted.



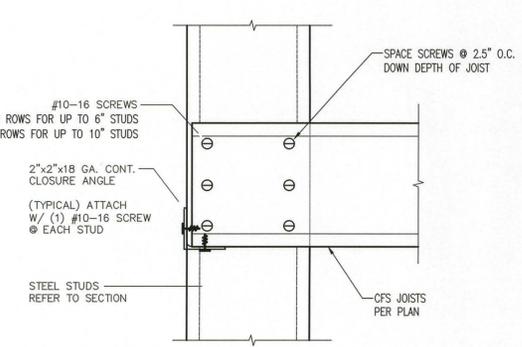
D BRIDGING: TYPICAL FRAMING & CONNECTIONS
S-504 N.T.S.



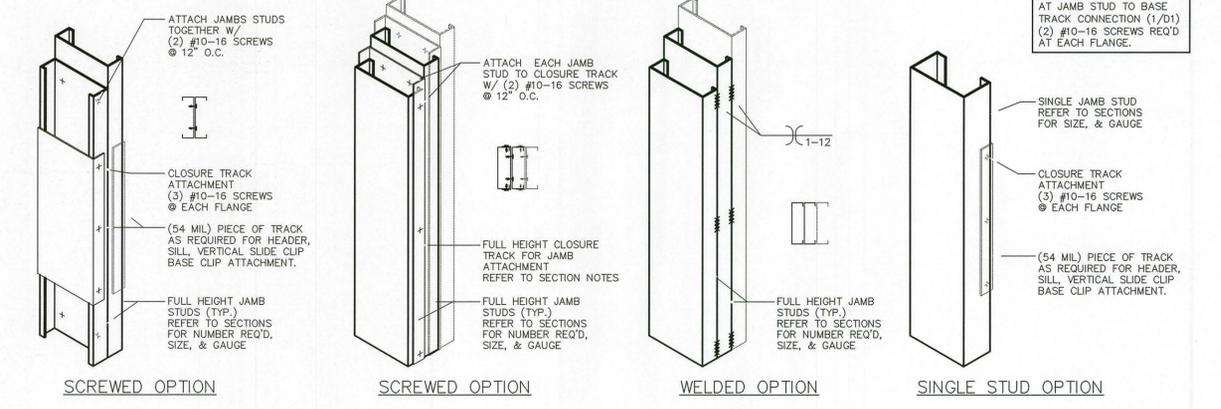
WELD THICKNESS	
STEEL STUD THICKNESS IN MILS	WELD THICKNESS (t)
33 MILS	NO WELDING
43 MILS	1/8"
54 MILS	1/8"
68 MILS	1/8"
97 MILS	5/32"



D BRIDGING: TYPICAL FRAMING & CONNECTIONS
S-504 N.T.S.



E TYP JOIST TO STUD LAP CONNECTION
S-504 N.T.S.



F JAMB ATTACHMENT OPTIONS
S-504 N.T.S.



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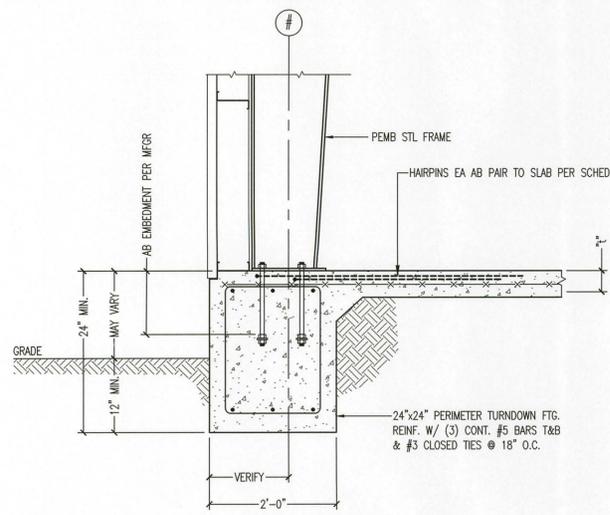
**GRAYTON BEACH
TRANSIT FACILITY
WALTON COUNTY, FLORIDA**

PROJECT NUMBER:	8307-2201
DESIGNED BY:	DAB
REVIEWED BY:	n/a
SHEET SCALE:	AS NOTED

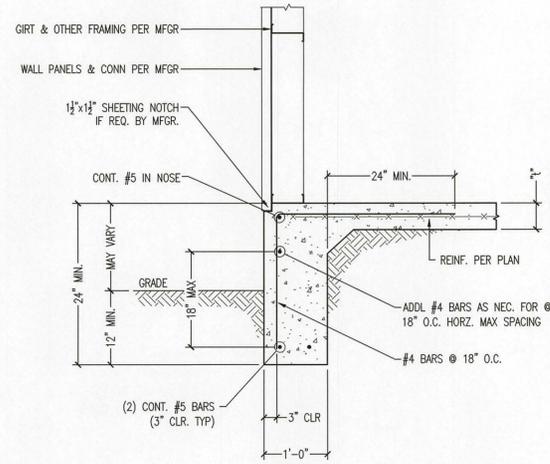
RELEASE RECORD:	
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DRAWING TITLE:
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DETAILS**

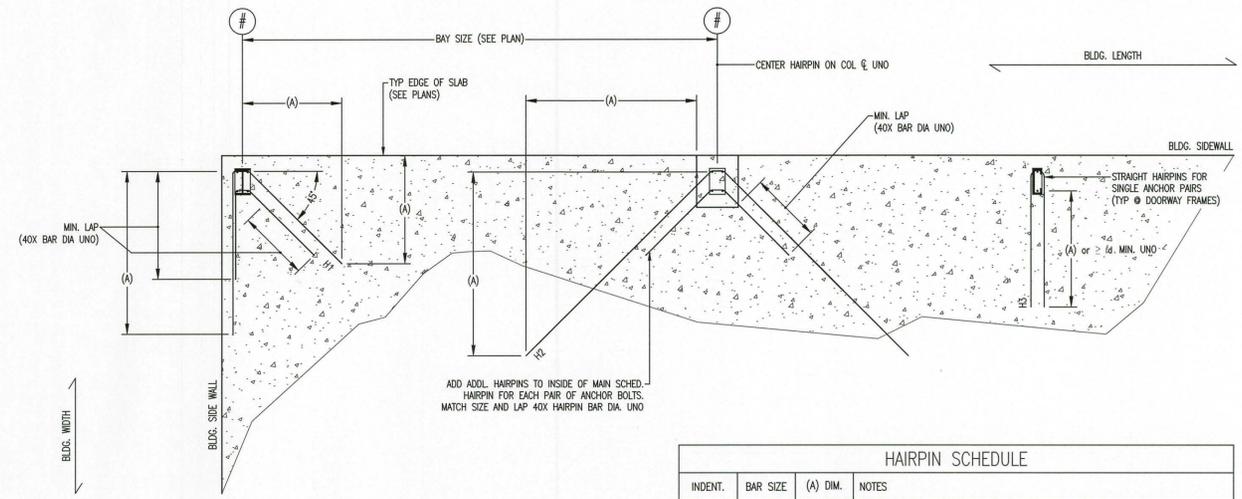
DRAWING NO.
S-504



A PEMB MAIN FRAME TURNDOWN FTG
S-505 3/4" = 1'-0"



B PEMB SIDE WALL TURNDOWN FTG
S-505 3/4" = 1'-0"



C TYP. SLAB HAIRPIN LAYOUTS
S-505 N.T.S.

HAIRPIN SCHEDULE			
IDENT.	BAR SIZE	(A) DIM.	NOTES
H1	#4	5'-3"	1. USE HAIRPIN H1 FOR ALL P.E.M.B. FRAMES UNLESS OTHERWISE NOTED. 2. IF MORE THAN (2) ANCHOR BOLTS ARE USED, USE (1) HAIRPIN FOR EACH BOLT PAIR. 3. HAIRPINS MUST HAVE A MIN. 3/4" CLEARANCE TO TOP OF SLAB. 4. SLAB W/M REINFORCING MUST RUN CONT. THROUGH ALL SLAB JOINTS. 5. ALL HAIRPINS MUST CONFORM TO ASTM A615.



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**GRAYTON BEACH
TRANSIT FACILITY
WALTON COUNTY, FLORIDA**

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REVIEWED BY:	n/a
SHEET SCALE:	AS NOTED

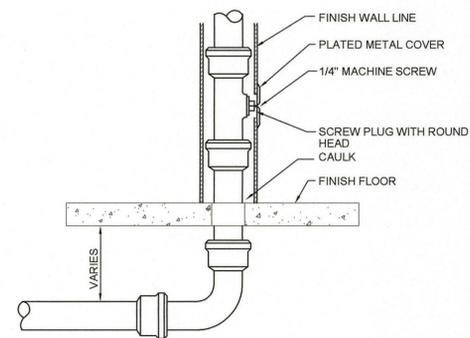
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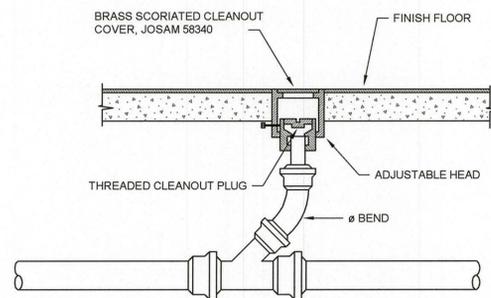
CONSTRUCTION
DETAILS

DRAWING NO.

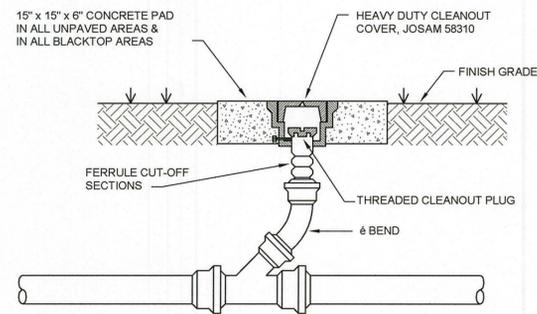
S-505



1 FINISH WALL DETAIL
P100 SCALE: NONE

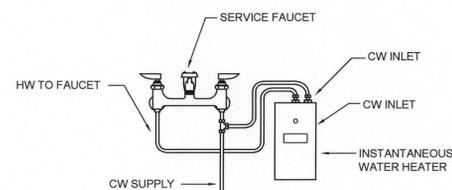
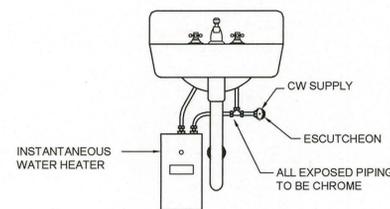


2 FINISH FLOOR DETAIL
P100 SCALE: NONE



3 FINISH GRADE DETAIL
P100 SCALE: NONE

PLUMBING LEGEND	
—SS—	SANITARY SEWER
—S—	SOIL OR WASTE PIPING (W)
----	VENT PIPING
----	COLD WATER PIPING (CW)
----	HOT WATER PIPING (HW)
F.W.C.O.	FINISH WALL CLEANOUT
F.F.C.O.	FINISH FLOOR CLEANOUT
F.G.C.O.	FINISH GRADE CLEANOUT
VTR	VENT THRU ROOF
ABV.	ABOVE
CLG.	CEILING
CONC.	CONCRETE
FIN.	FINISH
O.C.	ON CENTER
⊘	GATE VALVE (G.V.)
⊙	BALL VALVE (B.V.)
(TYP.)	TYPICAL
BLDG	BUILDING
AFF.	ABOVE FINISH FLOOR



4 INSTANTANEOUS WATER HEATER
P100 SCALE: NONE

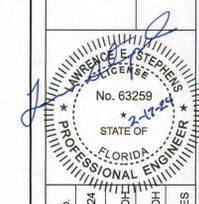
WATER HAMMER ARRESTOR SCHEDULE		
SIZE	FIXTURE UNITS	PDI STANDARD
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1-1/2"	61-113	D
1-3/4"	114-154	E
2"	155-330	F

PLUMBING FIXTURE SCHEDULE							
FIXTURE	MARK	TRAP	WASTE	VENT	CW	HW	REMARKS
WATER CLOSET	WC-1	-	4"	4"	1"	-	TANK TYPE FLOOR MOUNTED
WATER CLOSET	WC-2	-	4"	4"	1"	-	TANK TYPE FLOOR MOUNTED - ADA COMPLIANT
URINAL	UR-1	-	3"	2"	3/4"	-	FLUSH VALVE WALL MOUNTED
URINAL	UR-2	-	3"	2"	3/4"	-	FLUSH VALVE WALL MOUNTED - ADA COMPLIANT
LAVATORY	L-1	1/4"	2"	1 1/2"	3/4"	1/2"	WALL HUNG
LAVATORY	L-2	1/4"	2"	1 1/2"	3/4"	1/2"	WALL HUNG - ADA COMPLIANT
WATER HEATER	WH-1	-	-	-	3/4"	3/4"	SEE WH SCHEDULE
HOSE BIBB	HB-1	-	-	-	3/4"	3/4"	BOX MOUNTED, FREEZE PROOF, VACUUM BREAKER
FLOOR DRAIN	FD-1	3"	3"	2"	-	-	TYPE A - STRAINER
FLOOR DRAIN	FD-2	3"	3"	2"	1/2"	-	TYPE A - STRAINER, W/ TRAP PRIMER

NOTES:

WATER HEATER SCHEDULE													
MARK	LOCATION	MIN. STORAGE	MIN. RECOVERY	TEMP. SETTING	TEMP. RISE	ELECTRICAL				NATURAL GAS			REMARKS
						VOLT.	PHASE	INPUT	ELEMENTS	INPUT	GAS PRESSURE	FLUE SIZE	
		GAL	GPH	F	F	V	Ø	KW	#	BTU	IN. WC	IN.	
WH-1-4	RESTROOMS	-	-	100	60	120	3	3	1	-	-	-	STIEBEL ELTRON DHC 3-1
WH-5-7	STORAGE	-	-	100	60	120	3	3	1	-	-	-	STIEBEL ELTRON DHC 3-1

NOTES:



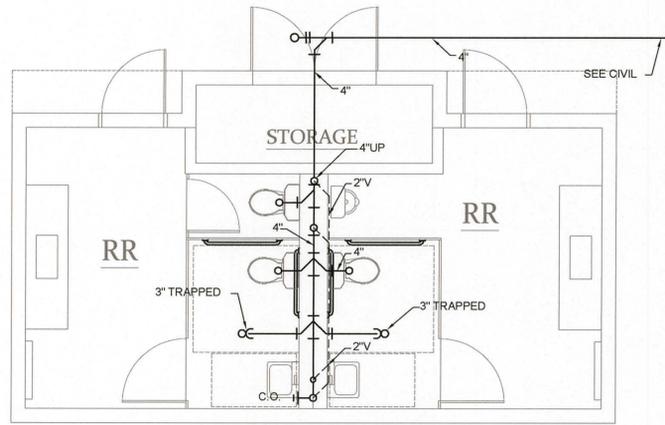
JOB NO.	02.17.2024	MCH	MCH	LES
DATE:	DRAWN BY:	DESIGNED BY:	CHECKED BY:	
SHEET NUMBER				
P100				
SHEET COUNT				
1 OF 4				

STEPHENS
MECHANICAL ENGINEERING LLC.

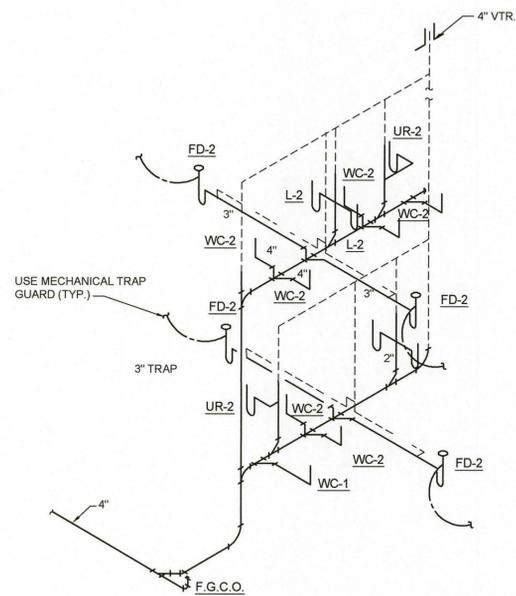
925 TOMMY MUNRO DR.,
SUITE B
BILOXI, MS 39532

FLCA: 30951
LAWRENCE STEPHENS
P.E.
FL PE: 63259

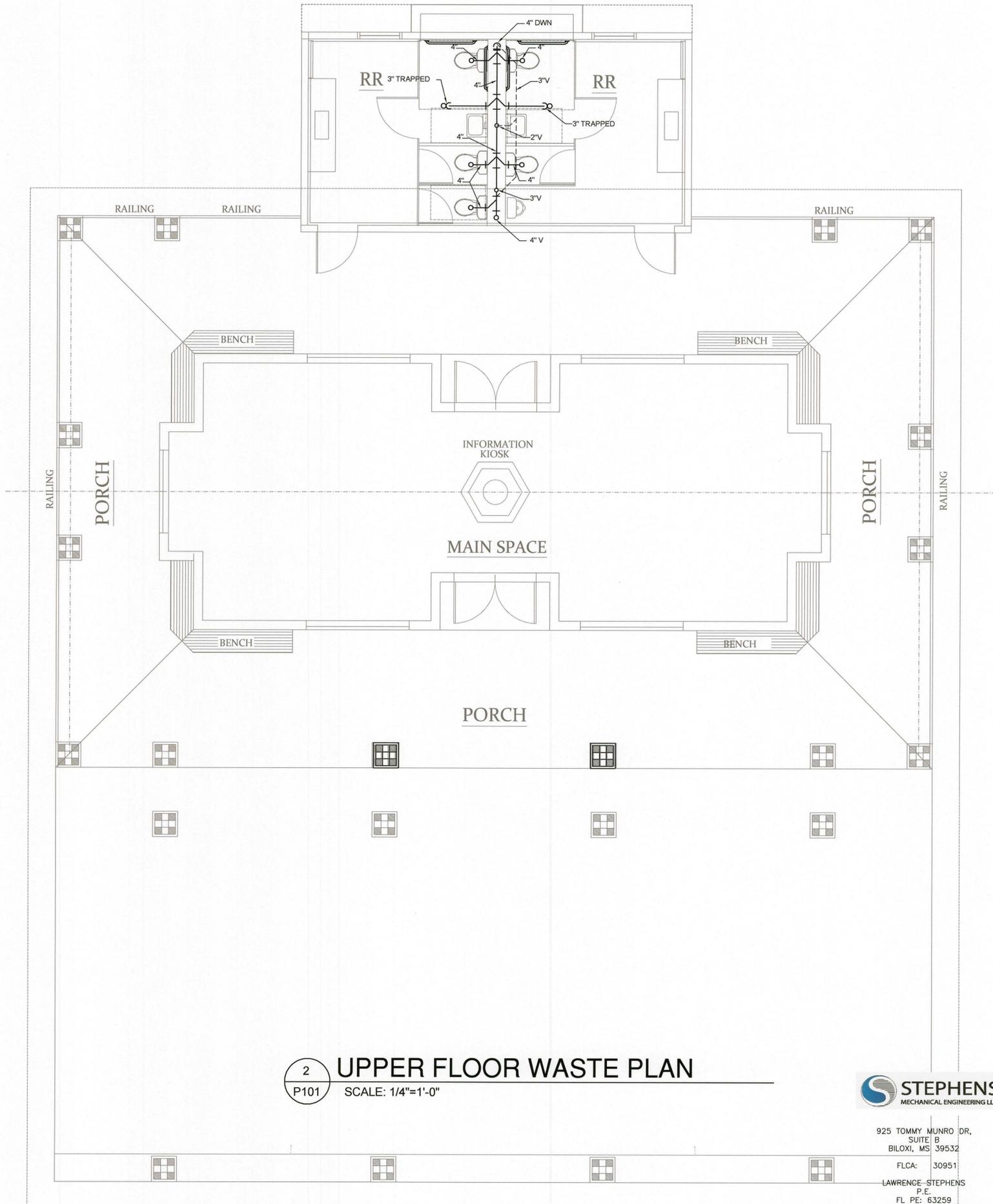
WORK SHALL COMPLY WITH THE 2023 FBC



1 LOWER FLOOR WASTE PLAN
 P101 SCALE: 1/4"=1'-0"



3 WASTE RISER
 P101 SCALE: NONE



2 UPPER FLOOR WASTE PLAN
 P101 SCALE: 1/4"=1'-0"



925 TOMMY MUNRO DR.,
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 FLCA: 30951
 LAWRENCE-STEPHENS
 P.E.
 FL PE: 63259

WORK SHALL COMPLY WITH THE 2023 FBC



STEPHENS
 MECHANICAL ENGINEERING LLC.

925 TOMMY MUNRO DR., SUITE B
 BILOXI, MISSISSIPPI, 39532
 228 207 3322 OFFICE
 207 3346 FAX
 LES@STEPHENSMECHENG.COM

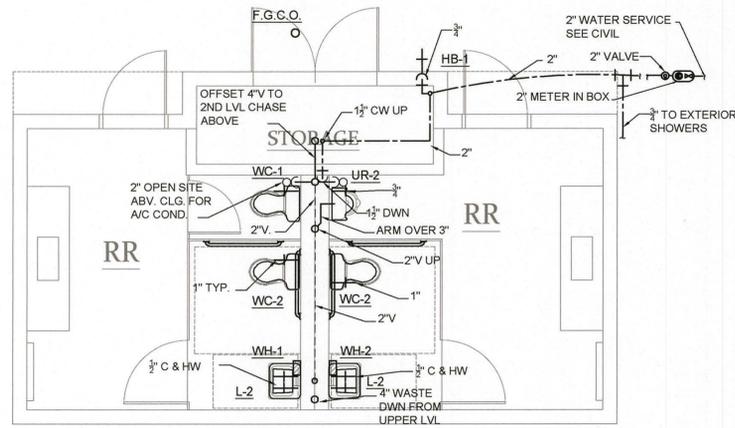
GRAYTON BEACH
 TRANSIT AUTHORITY
 WALTON COUNTY FLORIDA
 PLUMBING WASTE PLANS
 TRANSIT BUILDING



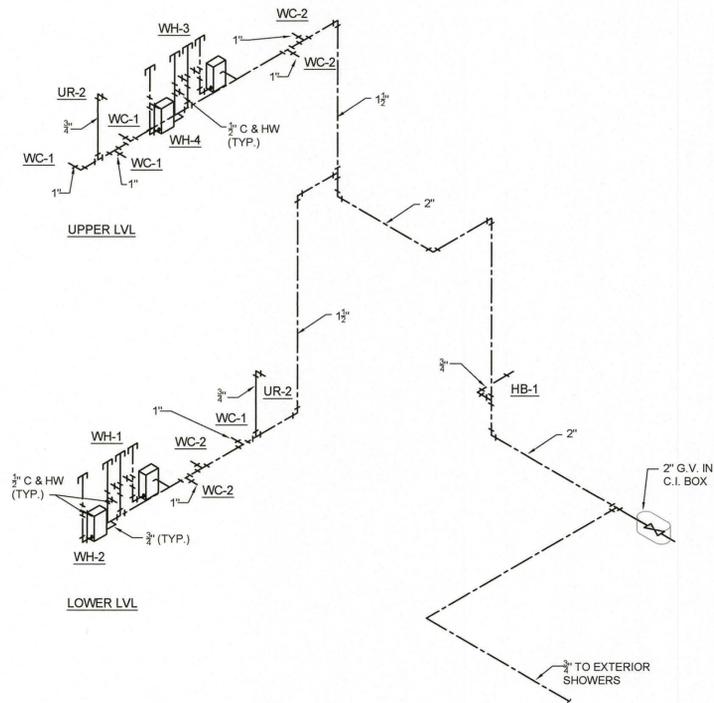
JOB NO.	02.17.2024	DATE:	MDH	MDH	LES
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SHEET NUMBER					

P101

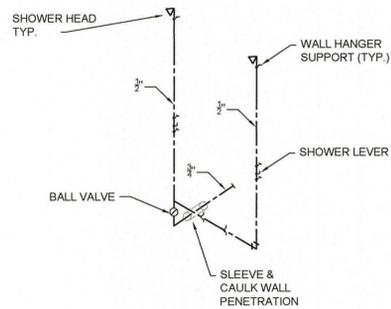
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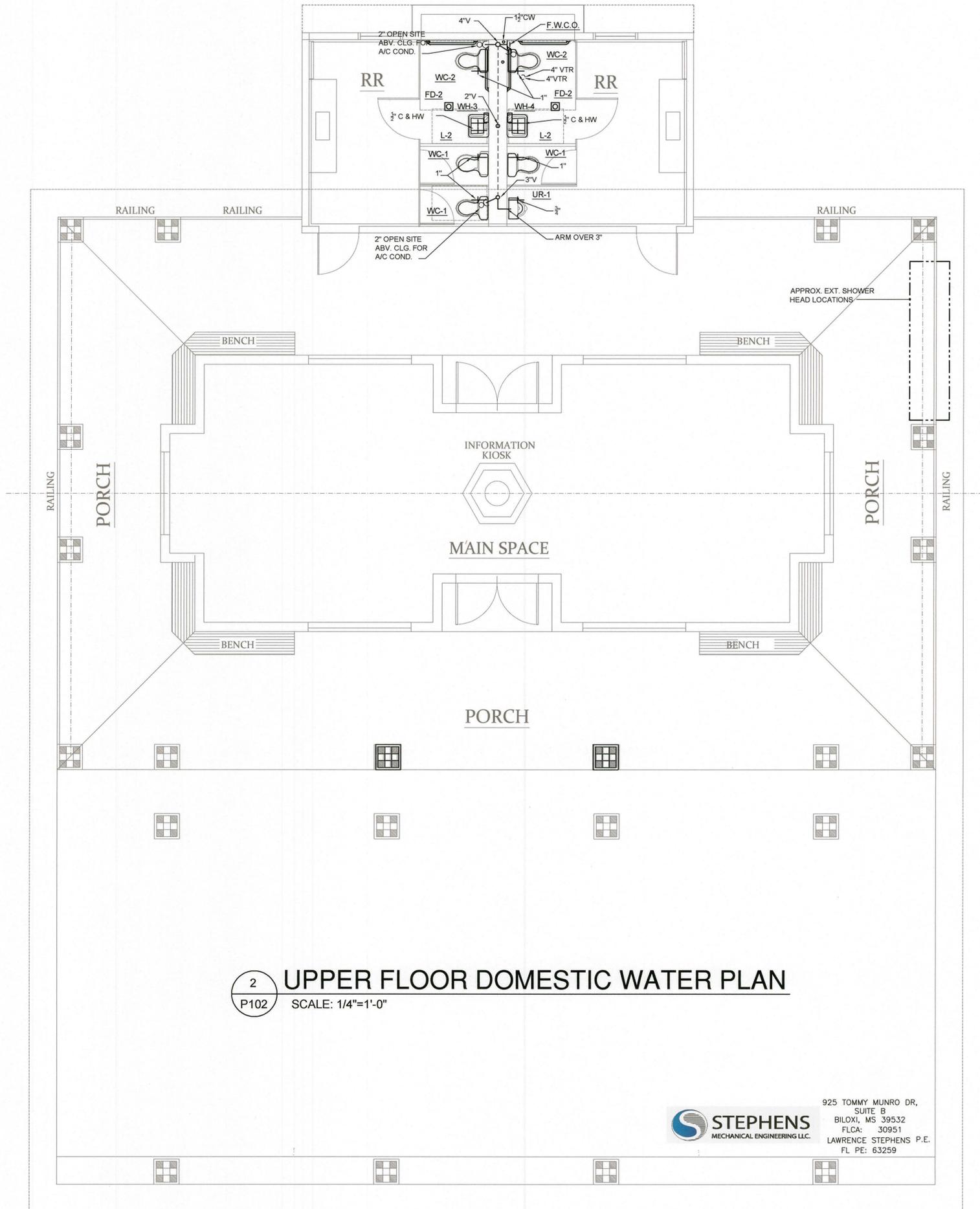
1 LOWER FLOOR DOMESTIC WATER PLAN
P102 SCALE: NONE



3 DOMESTIC WATER RISER
P102 SCALE: NONE



4 DOMESTIC WATER RISER (SHOWERS)
P102 SCALE: NONE



2 UPPER FLOOR DOMESTIC WATER PLAN
P102 SCALE: 1/4"=1'-0"



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GRAYTON BEACH
TRANSIT AUTHORITY
WALTON COUNTY FLORIDA
DOMESTIC WATER PLANS
TRANSIT BUILDING

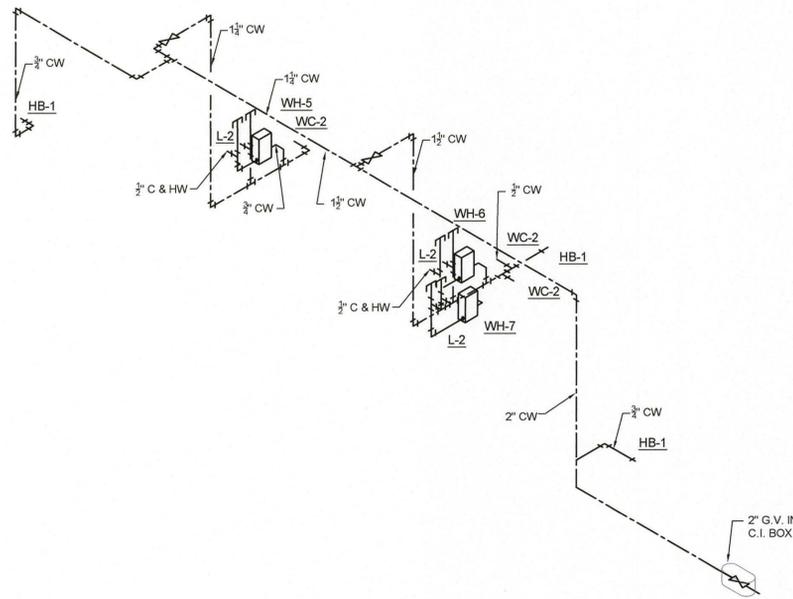


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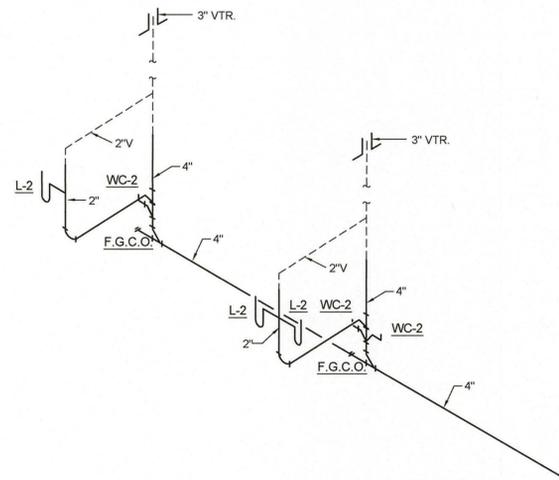
P102

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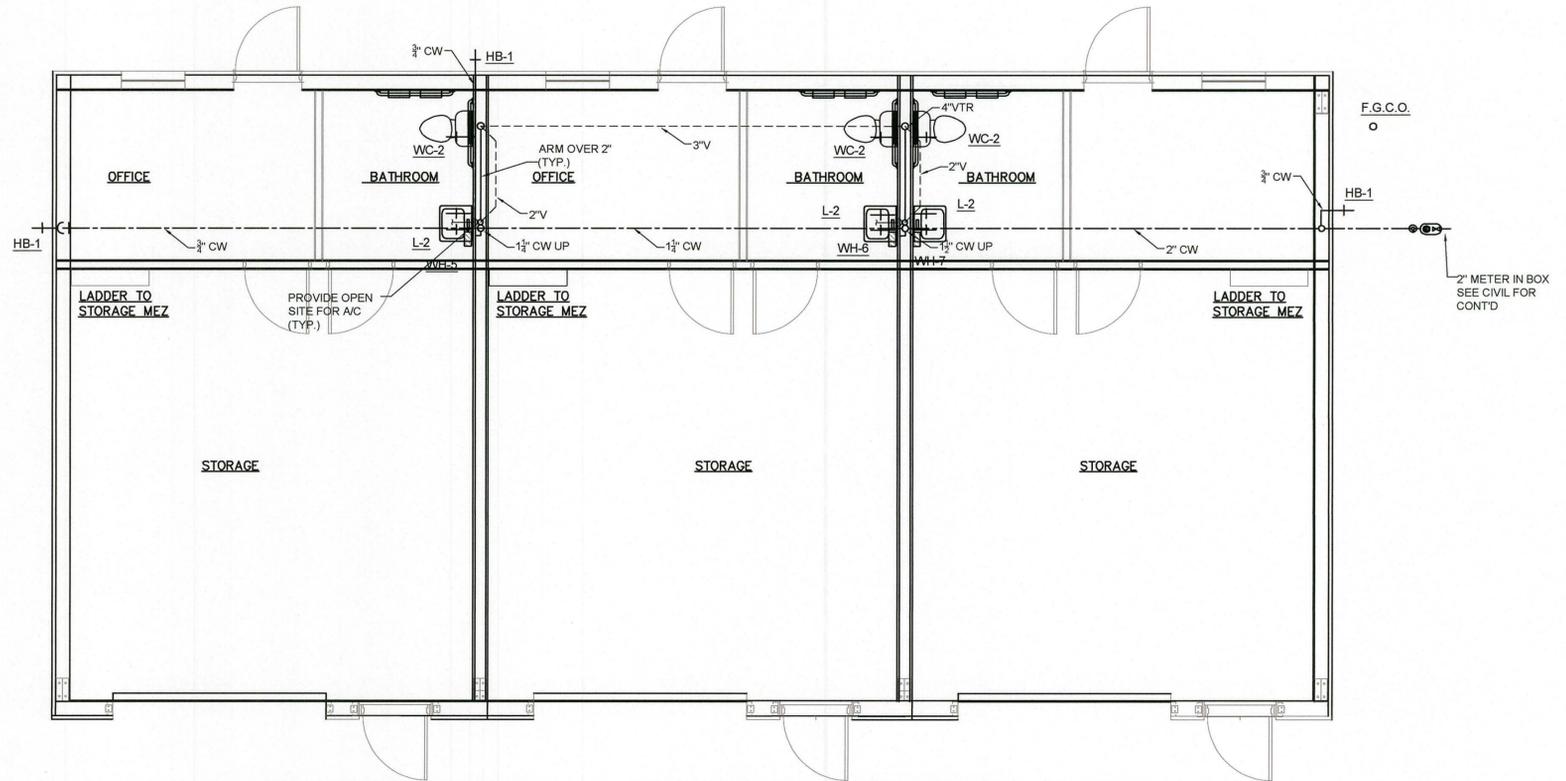
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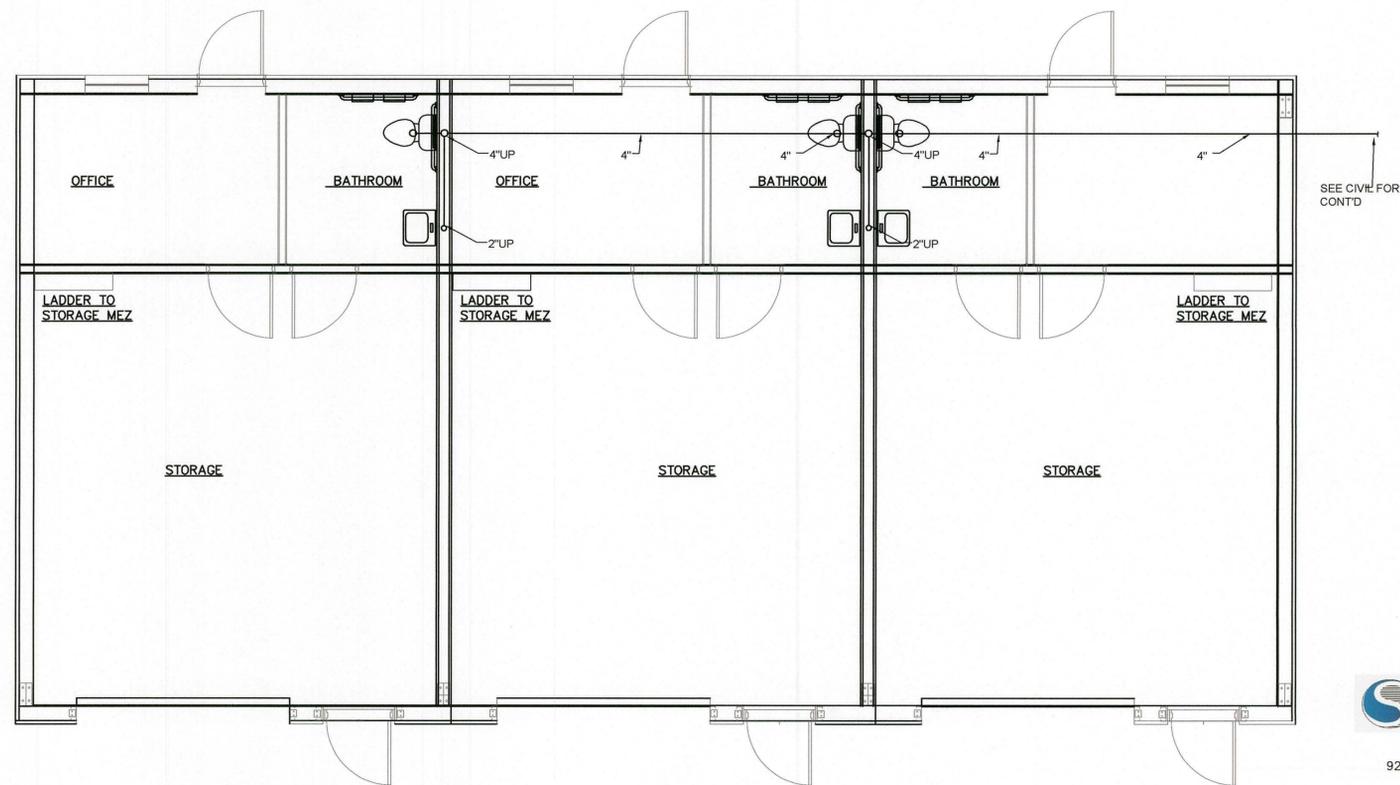
3 STORAGE BLDG. - DOMESTIC WATER RISER
 P103 SCALE: NONE



4 STORAGE BLDG. - WASTE RISER
 P103 SCALE: NONE



2 STORAGE BLDG. - ABOVE FLOOR PLUMBING PLAN
 P103 SCALE: 1/4"=1'-0"



1 STORAGE BLDG. - BELOW FLOOR PLUMBING PLAN
 P103 SCALE: 1/4"=1'-0"



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 BILOXI, MS 39532
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 FL PE: 63259

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DATE:		DRAWN BY:	DESIGNED BY:	CHECKED BY:

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P103

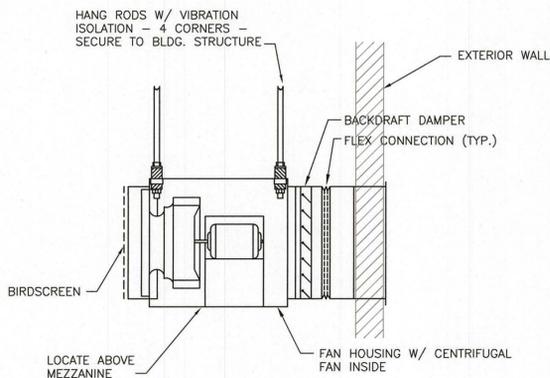
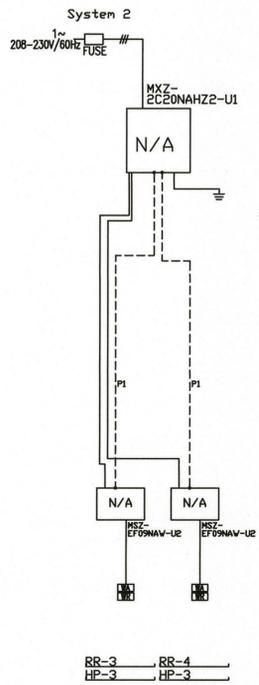
SHEET COUNT
 4 OF 4

GRAYTON BEACH TRANSIT	CONTING	PAGE
DIAGRAM	SYMBOL	LEGEND
DISPLAY	DESCRIPTION	
---	POWER WIRE	
---	CONTROL WIRE	
---	REF. PIPE	

CITY MULTI SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
 1.25mm(16 AWG) : 1.25mm(16 AWG) or more. 0.75mm(20 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).

PIPING AND CONTROLS	SYMBOL	DESCRIPTION
---	PIPE	
---	VALVE	
---	WIRE	
---	WIRE	
---	WIRE	
---	WIRE	



4 EF-8,9,10 SCHEMATIC
SCALE: NONE

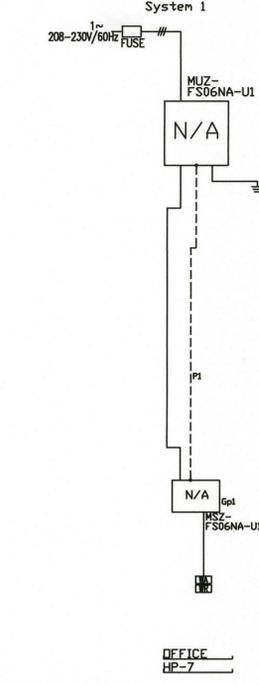
2 HP-3,4,5,6 SCHEMATIC
SCALE: NONE

GRAYTON BEACH STORAGE	CONTING	PAGE
DIAGRAM	SYMBOL	LEGEND
DISPLAY	DESCRIPTION	
---	POWER WIRE	
---	CONTROL WIRE	
---	REF. PIPE	

CITY MULTI SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
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PIPING AND CONTROLS	SYMBOL	DESCRIPTION
---	PIPE	
---	VALVE	
---	WIRE	
---	WIRE	
---	WIRE	
---	WIRE	



3 HP-7,8 & 9
SCALE: NONE

MULTIZONE OUTDOOR UNIT HEAT PUMPS															
MARK	TYPE	INDOOR UNIT - DX						OUTDOOR UNIT - AIR COOLED							
		VOLT	Ø	MCA	CL CAPACITY	HT CAPACITY	MODEL	MARK	MCA	MOCP	VOLT	Ø	CL CAPACITY	HT CAPACITY	MODEL
HP-1,2	WALL-MOUNTED	208	1	1	12,000 CLG	14,400 HTG	MITSUBISHI PKA-A12LA	OU-1	17.0	27	208	1	24,000	28,000	MITSUBISHI PUZ-HA24NH-A1
HP-3,4,5,6	WALL-MOUNTED	208	1	1	9,000 CLG	10,000 HTG	MITSUBISHI MSZ-EF09NAW-U2	OU-2,3	17.2	20	208	1	20,000	25,000	MITSUBISHI MUZ-FS06NA
HP-7,8,9	WALL-MOUNTED	208	1	1	6,000 CLG	11,700 HTG	MITSUBISHI MSZ-FS06NA-U1	OU-4,5,6	10	15	208	1	6,000	6,000	MITSUBISHI MUZ-FS06NA

ACCESSORIES: FILTER, CONDENSATE PUMP, OUTDOOR UNIT COIL GUARD, REMOTE WIRELESS CONTROLLER, SINGLE POINT ELECTRICAL CONN. AT OUTDOOR UNIT FOR BOTH INDOOR & OUTDOOR POWER SOUND CRITERIA NOT TO EXCEED dbA 47 HIGH SPEED INDOOR UNIT, MARINE COATING ON CONDENSING UNIT

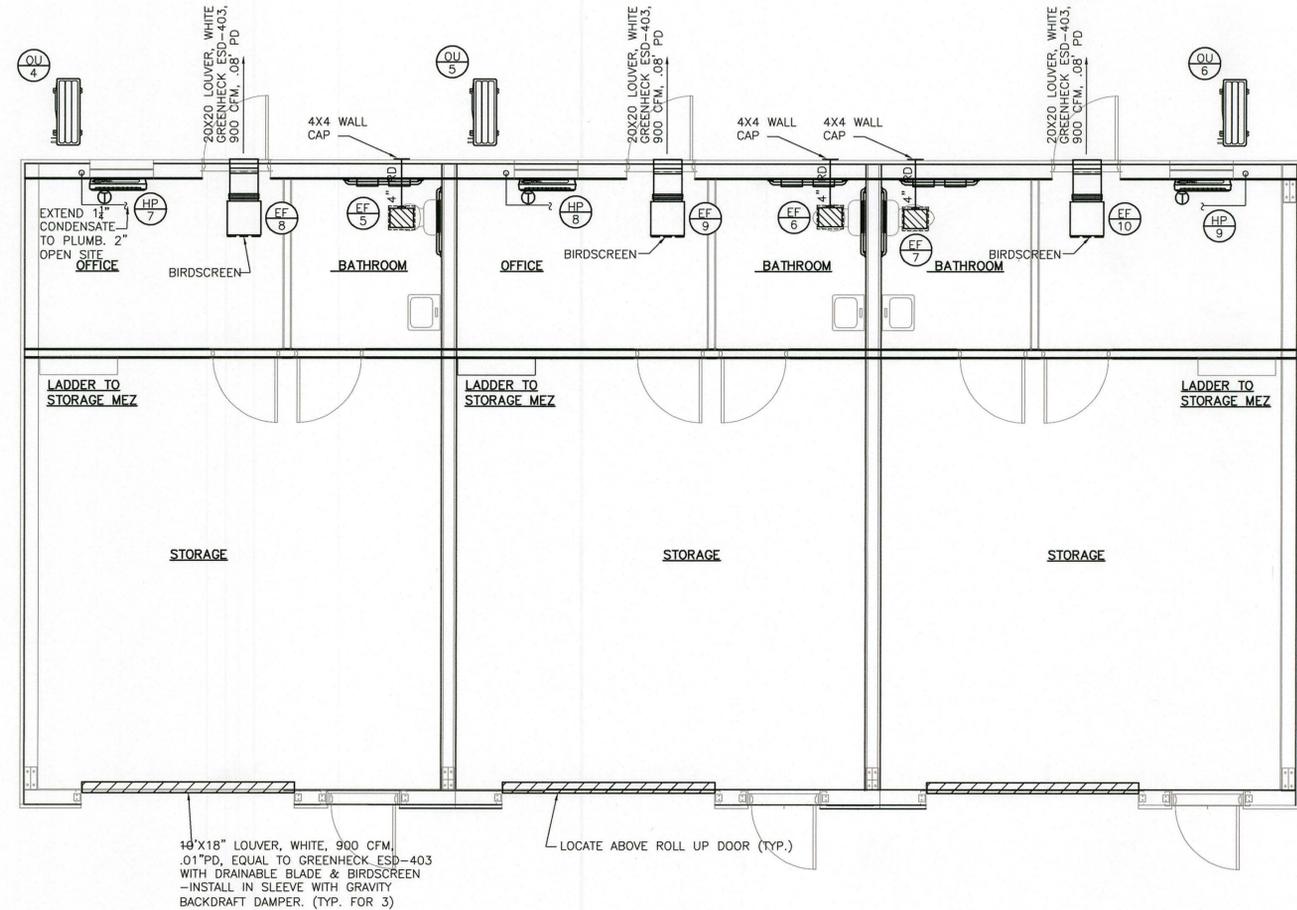
NOTES: 1) UNITS SHALL USE R-410A 2) MIN. SEER ON THESE UNITS SHALL BE 13 3) LOW AMBIENT COOLING TO 0 DEG FAHRENHEIT

EQUALS: LG, DIAKIN, SANYO

EXHAUST FAN SCHEDULE												
MARK	SERVICE	CFM	SP	TYPE	OPENING	OUTLET	INTERLOCKED	ACCES.	MOTO R HP	VOLT	Ø	MODEL
EF-1,2,3,4	BATHROOM	100	0.18"	CEILING	13-3/4" x 10-3/8"	8x6	SWITCH SEE ELECTRICAL	2,6	FRAC	115	1	GREENHECK SP-A110
EF-5,6,7	BATHROOM	50	0.1"	CEILING	13-3/4" x 10-3/8"	6"Ø	SWITCH SEE ELECTRICAL	2,6	FRAC	115	1	GREENHECK SP-A50
EF-8,9,10	MEZZANINE	800	0.458"	INLINE	10" X 12"	6"Ø	SWITCH SEE ELECTRICAL	1,2,3	1/2	115	1	GREENHECK SQ-120

ACCESSORIES: 1) BACKDRAFT DAMPER 2) DISCONNECT 3) BIRDSCREEN 4) PRE FAB ROOF CURB 5) MOTORIZED DAMPER 6) CEILING GRILLE 7) DOOR MICRO SWITCH

EQUALS: ACME, PENN, COOK, CARNES



1 STORAGE BLDG. - HVAC PLAN
SCALE: 1/4" = 1'-0"

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 228 207 3322 OFFICE
 207 3346 FAX
 LES@STEPHENSMECHENG.COM

STEPHENS
 MECHANICAL ENGINEERING LLC.

GRAYTON BEACH
 TRANSIT AUTHORITY
 WALTON COUNTY FLORIDA
 HVAC PLAN AND SCHEDULES



JOB NO.	02.17.24	MDH	MDH	LES
DATE:		DRAWN BY:	DESIGNED BY:	CHECKED BY:

SHEET NUMBER	M100
SHEET COUNT	1 OF 2

STEPHENS
 MECHANICAL ENGINEERING LLC.

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 LAWRENCE STEPHENS P.E.
 FL PE: 63259

WORK SHALL COMPLY WITH THE 2023 FBC

ELECTRICAL LEGEND	
<p>LIGHTING</p> <p>—○— SURFACE MOUNT, STRIP FIXTURE</p> <p>—○— SURFACE MOUNT, WRAP FIXTURE</p> <p>○ RECESSED CEILING FIXTURE</p> <p>○ RECESSED CEILING FIXTURE - WALL WASH</p> <p>⚡ BATTERY BACKUP EMERGENCY/EGRESS FIXTURE</p> <p>EXIT BATTERY BACKUP EMERGENCY/EXIT FIXTURE</p> <p>EXIT BATTERY BACKUP COMBO EMERGENCY/EXIT FIXTURE</p> <p>—○— WALL MOUNTED FIXTURE</p> <p>—○— WALL MOUNTED FIXTURE</p> <p>—○— POLE AND POLE MOUNTED FIXTURE</p> <p>⊗ CEILING FAN</p>	<p>CONDUIT AND WIRE</p> <p>— FLEXIBLE CONDUIT, SEALITE AT WET LOCATIONS</p> <p>— CONDUIT CONCEALED IN WALL OR ABOVE CEILING</p> <p>— CONDUIT BELOW FLOOR OR CONCEALED IN WALL</p> <p>— CONDUIT EXPOSED</p> <p>— CIRCUIT CONDUCTORS IN CONDUIT</p> <p>— MULTIPLE CIRCUIT CONDUCTORS IN CONDUIT WITH NEUTRALS</p> <p>— GROUND CONDUCTORS IN CONDUIT</p> <p>— CONDUIT UP</p> <p>— CONDUIT DOWN</p> <p>XX-XX CIRCUIT HOMERUN TO PANEL BOARD. XX-XX DENOTES PANEL NAME AND CIRCUIT NUMBER</p> <p>— CONTINUATION OF CONDUIT RUN</p>
<p>SWITCHES</p> <p>Ⓢ SINGLE POLE SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED</p> <p>Ⓢ THREE WAY SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED</p> <p>Ⓢ DIMMER SWITCH +48" AFF, UNLESS NOTED</p> <p>Ⓢ 2-POLE SWITCH, MOUNT NEXT TO EQUIPMENT SERVED, UNLESS NOTED</p> <p>Ⓢ SINGLE POLE FAN SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED</p> <p>☒ PHOTO ELECTRIC CONTROL, MOUNT AT BUILDING FACADE, UNLESS NOTED</p> <p>Ⓢ MOTION SENSOR SWITCH, WALL MOUNT 48" AFF</p> <p>SB SWITCHBANK. SEE DETAIL.</p>	<p>COMMUNICATIONS</p> <p>◁ DATA OUTLET - ROUGH-IN +18" AFF, UNLESS NOTED</p> <p>◁ COMBO DATA/TELEPHONE OUTLET - ROUGH-IN +18" AFF, UNLESS NOTED</p>
<p>SWITCHGEAR</p> <p>○ JUNCTION BOX</p> <p>□ NON FUSED SAFETY SWITCH NEMA 3R AT WET LOCATIONS</p> <p>□ FUSED SAFETY SWITCH NEMA 3R AT WET LOCATIONS</p> <p>— LIGHT AND POWER PANELBOARD</p> <p>⊞ TRANSFORMER</p> <p>⊞ METER</p> <p>⊞ MULTI-POLE CONTACTOR</p> <p>⊞ TIME CLOCK</p> <p>⊞ SPECIAL ELECTRICAL CONNECTION</p> <p>⊞^{WH} WATER HEATER ELECTRICAL CONNECTION</p> <p>⊞^{EF} EX. FAN ELECTRICAL CONNECTION</p> <p>⊞^{AC} AIR-HANDLER UNIT ELECTRICAL CONNECTION</p> <p>⊞^{CU} CONDENSING UNIT ELECTRICAL CONNECTION</p>	<p>DEVICES</p> <p>⊞ SINGLE RECEPTACLE - 20A, 120V</p> <p>⊞ DUPLEX RECEPTACLE - 20A, 120V</p> <p>⊞ QUADRUPLEX RECEPTACLE - 20A, 120V</p> <p>⊞ GFI DUPLEX RECEPTACLE - 20A, 120V</p> <p>⊞^{WR} GFI WEATHER RESISTANT DUPLEX RECEPTACLE - 20A, 120V WITH IN-USE WEATHERPROOF COVER</p> <p>⊞³⁰ SINGLE RECEPTACLE - 30A, 120V</p> <p>MOUNT ALL DEVICES AT +18" AFF, UNLESS NOTED OTHERWISE.</p> <p>* - DEVICES MOUNTED ABOVE COUNTER HEIGHTS SHALL BE 6" ABOVE BACKSPLASH.</p> <p>COORDINATE WITH PLUMBING FOR INSTALLATION OF DEVICES AT INSTANT WATER HEATERS. INSTALL TO BE CONCEALED BY GUARD OR MILLWORK BELOW SINKS.</p>

LUMINAIRE SCHEDULE					
MARK	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER	EQUALS
C1	LED	RECESSED CEILING	LED, 4" RECESSED DOWNLIGHT, BLACK FINISH	GOTHAM EVO4-35/15-AR-LSS-MWD-MVOLT-GZ10-TRBL	OR APPROVED EQUAL
C1E	LED	RECESSED CEILING	LED, 4" RECESSED DOWNLIGHT, BLACK FINISH, W/ EMERGENCY	GOTHAM EVO4-35/15-AR-LSS-MWD-MVOLT-GZ10-ELSD-TRBL	OR APPROVED EQUAL
C2	LED	RECESSED CEILING	LED, 4" RECESSED DOWNLIGHT, WALL WASH, DIMMABLE, BLACK FINISH	GOTHAM EVO4WW-35/15-AR-LSS-MVOLT-GZ1-TRBL	OR APPROVED EQUAL
CF1		PENDANT, VERIFY HEIGHT	60" INTERIOR CEILING FAN, BLACK FINISH	BIG ASS FANS MK-E562-052306-A786-IXX	OR APPROVED EQUAL
D1	LED	SURFACE CEILING	LED, 14" SQUARE SURFACE MOUNT DOWNLIGHT, WET LOCATION RATED, BLACK FINISH	JUNO JSFSQ-14IN 18LM-35K-90CRI-MVOLT ZT-BL	OR APPROVED EQUAL
D1E	LED	SURFACE CEILING	LED, 14" SQUARE SURFACE MOUNT DOWNLIGHT, WET LOCATION RATED, BLACK FINISH, W/ EMERGENCY	JUNO JSFSQ-14IN 18LM-35K-90CRI-MVOLT ZT-BL-E10WVCP	OR APPROVED EQUAL
EWP	LED	WALL; ABOVE DOOR	EMERGENCY/EGRESS FIXTURE, EXTERIOR, BLACK FINISH	ISOLITE OWL-EM-BZ-MB	OR APPROVED EQUAL
L1	LED	SURFACE CEILING	LED, 4" LINEAR SURFACE WRAP, POLYCARBONATE LENS	KENALL LMHA5-48-R-MB-PP-1-45L35K-DCC-1-DV	OR APPROVED EQUAL
L1E	LED	SURFACE CEILING	LED, 4" LINEAR SURFACE WRAP, POLYCARBONATE LENS, W/ EMERGENCY	KENALL LMHA5-48-R-MB-PP-1-45L35K-DCC-1-DV-LEL	OR APPROVED EQUAL
L2	LED	SURFACE CEILING	LED, 4" VOLUMETRIC SURFACE WRAP, ACRYLIC LENS	LITHONIA STL4-48L-GZ10-LP835	OR APPROVED EQUAL
L2E	LED	SURFACE CEILING	LED, 4" VOLUMETRIC SURFACE WRAP, ACRYLIC LENS, W/ EMERGENCY	LITHONIA STL4-48L-GZ10-LP835-E10WVCP	OR APPROVED EQUAL
S1	LED	SURFACE/STRUCTURE	LED, 4" STRIP FIXTURE	LITHONIA ZL1D-L48-SMR-3000LM-FST-MVOLT-35K-80CRI-WH	OR APPROVED EQUAL
S1E	LED	SURFACE/STRUCTURE	LED, 4" STRIP FIXTURE, W/ EMERGENCY	LITHONIA ZL1D-L48-SMR-3000LM-FST-MVOLT-35K-80CRI-E7W-WH	OR APPROVED EQUAL
V1	LED	WALL; ABOVE MIRROR	LED, 4" VANITY FIXTURE	LITHONIA WL4-40L-EZ1-LP835	OR APPROVED EQUAL
W1	LED	WALL; TOP OF COLUMN	LED, EXTERIOR WALL MOUNTED CYLINDER; MOUNTED AT TOP OF COLUMN, BLACK FINISH	GOTHAM EVO6WCWW-35/25-AR-LSS-MVOLT-TZ10-JBXCC-DN-WL-DBL	OR APPROVED EQUAL
W2	LED	WALL; VERIFY HEIGHT	LED, WALL MOUNTED UP/DOWN CYLINDER; MOUNTED AT CLERESTORY, BLACK FINISH	GOTHAM ICO4UDWC-35/25-AR-LSS-30D-U15LM-U30D-MVOLT-TZ10-JBX-DBL	OR APPROVED EQUAL
W3E	LED	WALL; ABOVE DOOR	LED, EXTERIOR WALL PACK, BLACK FINISH, W/ EMERGENCY	LITHONIA WDG2E-LED-P4-35K-90CRI-VW-MVOLT-E1-WH	OR APPROVED EQUAL
XE	RED LED	WALL/CEILING	COMBO EXIT/EMERGENCY EGRESS - 1 SIDE - BLACK HOUSING	ISOLITE RLP-R-U-BK-MTEB-SD	OR APPROVED EQUAL

NOTE: LUMINAIRES WITH "E" DESIGNATION SHALL HAVE INTEGRAL EMERGENCY BALLAST. CONNECT EMERGENCY BALLAST ONLY AHEAD OF ANY SWITCHING. NORMAL BALLAST TO BE SWITCHED AS INDICATED, UNLESS NOTED OTHERWISE.

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Project Name and Address
**GRAYTON BEACH
 TRANSIT AUTHORITY
 WALTON COUNTY, FLORIDA**

Sheet Title
**ELECTRICAL LEGEND, NOTES, AND
 LUMINAIRE SCHEDULE**

No.	Date	Revision



Project No.	22-SM-06
Date	3/8/2024
Drawn By	JWH
Checked By	GPW
Scale	AS SHOWN

Drawing No.
EB000
 1 of 7 Sheets

ELECTRICAL GENERAL NOTES AND SPECIFICATIONS

BASIC ELECTRICAL REQUIREMENTS

- ALL ELECTRICAL WORK TO CONFORM TO CURRENT EDITIONS OF ALL FLORIDA BUILDING CODES.
- ALL WORK PERFORMED UNDER THIS DIVISION SHALL BE INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING WORK. NO ADDITIONAL SCOPE WILL BE AUTHORIZED DUE TO LACKING OF UNDERSTANDING ON EXISTING CONDITIONS.
- CONTRACTOR SHALL VERIFY WITH UTILITY COMPANIES FOR SERVICE ENTRANCE REQUIREMENTS TO THE BUILDING/FACILITY. SERVICE ENTRANCES TO BE INSTALLED PER RESPECTIVE UTILITY COMPANY REQUIREMENTS.
- PROVIDE FOR ALL PERMITTING AND INSPECTIONS. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES APPLICABLE TO THE WORK IN THIS DIVISION.
- PROVIDE ONE YEAR WARRANTY, RECORD (AS-BUILT) DRAWINGS, AND OPERATION/MAINTENANCE MANUALS ON ALL ELECTRICAL EQUIPMENT AND LIGHTING.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL EXERCISE CARE AND TAKE APPROPRIATE PRECAUTIONARY MEASURES TO PREVENT ANY DAMAGE TO THE EXISTING STRUCTURES, SIDEWALKS, UTILITIES, COMMUNICATIONS, ETC. DURING THE PROJECT. THE CONTRACTOR SHALL CORRECT ALL DAMAGE CAUSED BY OR DURING THE PROJECT. CONTRACTOR SHALL PROVIDE NOT LESS THAN (2) AND NOT MORE THAN (10) WORKING DAYS ADVANCE WRITTEN, ELECTRONIC, OR TELEPHONIC NOTICE OF THE COMMENCEMENT, EXTENT, LOCATION AND DURATION OF THE EXCAVATION WORK TO FLORIDA ONE-CALL SYSTEM AND ANY NONMEMBERS OPERATOR(S) OF ANY UNDERGROUND UTILITY LINES OR UNDERGROUND FACILITIES IN AND NEAR THE EXCAVATION AREA, SO THAT THE ONE-CALL SYSTEM, INC OPERATOR(S) AND ANY NON-MEMBER OPERATOR(S) MAY LOCATE AND MARK THE LOCATION OF UNDERGROUND UTILITY LINES AND UNDERGROUND FACILITIES IN THE EXCAVATION AREA.
- PROVIDE FOR AND INSTALL TEMPORARY LIGHTING AND POWER. COORDINATE WITH OWNER OR UTILITY COMPANY FOR CONNECTIONS. ALL TEMPORARY LIGHTING AND POWER SHALL CONFORM TO OSHA STANDARDS AND ALL CODE REQUIREMENTS.
- WORKERS POSSESSING THE SKILLS AND EXPERIENCE OBTAINED IN PERFORMING WORK OF SIMILAR SCOPE AND COMPLEXITY SHALL PERFORM THE WORK OF THIS DIVISION.
- FOR PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. VERIFY CONDITIONS, DIMENSIONS, INDICATED EQUIPMENT SIZES, AND MANUFACTURER'S DATA AND INFORMATION AS NECESSARY TO INSTALL THE WORK OF THIS DIVISION. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK.
- DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF CONDUITS, NUMBER AND SIZE OF CONDUCTORS, AND DIAGRAMMATIC ROUTING OF CONDUIT. INSTALL CONDUITS WITH MINIMUM NUMBER OF BENDS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP OPENINGS AND PASSAGEWAYS CLEAR, AND COMPLY WITH APPLICABLE CODE REQUIREMENTS.
- OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEMENTS PRIOR TO START OF CONSTRUCTION. LOCATIONS INDICATED ON THE DRAWINGS MAY BE DISTORTED FOR CLARITY. WHERE INSTALLED AT MILLWORK, OUTLETS SHALL BE LOCATED IN KNEE SPACE OR ABOVE COUNTERTOP.
- COORDINATE ELECTRICAL WORK WITH ALL OTHER WORK.
- THE SCOPE OF THE ELECTRICAL WORK INCLUDES FURNISHING, INSTALLING TESTING AND WARRANTY OF ALL ELECTRICAL WORK AND COMPLETE ELECTRICAL SYSTEMS SHOWN ON THE ELECTRICAL DRAWINGS AND SPECIFIED HEREIN.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL SYSTEMS TO PROVIDE A COMPLETE PACKAGE AS INDICATED BY THE CONTRACT DOCUMENTS. THE DOCUMENTS ARE INTENDED TO PROVIDE AN OUTLINE FOR THE REQUIRED INSTALLATIONS. THE CONTRACTOR SHALL ULTIMATELY PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AT THE CONCLUSION OF THE PROJECT.
- DETAILS ARE PROVIDED AS THEY RELATE TO THE INSTALLATION. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS COMPONENTS, PARTS, MATERIALS, FASTENERS, SPLICES, AND ANY OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- ELECTRICAL CONNECTIONS INDICATED ON DRAWINGS SHALL INCLUDE WIRING, INSTALLATION, CONNECTION AND ADJUSTMENT. REQUIRED ELECTRICAL CONNECTIONS SHALL BE PERFORMED FOR SUCH EQUIPMENT AND APPLIANCES. WORK SHALL INCLUDE FURNISHING AND INSTALLING SUITABLE OUTLETS, DISCONNECTING DEVICES, STARTERS, PUSH-BUTTON STATIONS, SELECTOR SWITCHES, CONDUIT, JUNCTION BOXES, AND WIRING NECESSARY FOR A COMPLETE ELECTRICAL INSTALLATION.
- PROTECT MATERIALS AND EQUIPMENT FROM DAMAGE AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING PROGRESS OF THE WORK. DAMAGED MATERIALS AND/OR EQUIPMENT SHALL BE REPLACED. REMOVE RUBBISH, DEBRIS, AND WASTE MATERIALS AND LEGALLY DISPOSE OF OFF THE PROJECT SITE.
- REMOVE GREASE AND OIL SPOTS WITH SOLVENT, SUCH SURFACES SHALL BE WIPED AND CORNERS AND CRACKS SCRAPPED OUT. EXPOSED ROUGH METAL SHALL BE SMOOTH, FREE OF SHARP EDGES, CAREFULLY STEEL BRUSHED TO REMOVE RUST AND OTHER SPOTS, AND LEFT IN PROPER CONDITION TO RECEIVE FINISH PAINTING.
- ADVISE THE GENERAL CONTRACTOR OR ARCHITECT BEFORE STARTING THE WORK OF THIS DIVISION.
- EXPOSED CONDUITS SHALL BE PAINTED TO MATCH THE SURFACES ADJACENT TO INSTALLATION. REFER TO PAINTING AND COATING SECTION OF SPECIFICATIONS.
- VERIFY ALL DIMENSIONS AND CLEARANCES WITH ARCHITECT AND OWNER.
- SEAL ALL WALL PENETRATIONS WITH AN APPROVED CAULK COMPOUND EQUAL TO 3M FIRE BARRIER CAULK.
- COORDINATE PHASING OF WORK WITH ARCHITECTURAL DRAWINGS AND OTHER TRADES / DISCIPLINES FOR ELECTRICAL INSTALLATIONS.
- NOTIFY THE ENGINEER IMMEDIATELY OF ANY PLAN DISCREPANCIES PRIOR TO PROCEEDING WITH ROUGH-IN OR TRIM OUT.

BASIC ELECTRICAL MATERIALS, BOXES, CONDUIT, WIRING, AND GROUNDING

- BOXES INSTALLED IN CONCEALED WORK SHALL BE GALVANIZED STEEL, PRESSED, OR WELDED TYPE, WITH KNOCKOUTS.
- BOXES SHALL BE 4-INCH OCTAGON, 4-INCH SQUARE, 2-1/8 INCHES DEEP OR LARGER, DEPENDING UPON NUMBER OF CONDUCTORS OR CONDUITS THEREIN, UNLESS NOTED OTHERWISE. PLASTER OR TILE RINGS SHALL BE FURNISHED FOR SUITABLE MOUNTING OF LIGHT FIXTURE. PROVIDE SUITABLE COVERS FOR ALL BOXES.
- JUNCTION AND PULL BOXES, IN ADDITION TO THOSE INDICATED, SHALL ONLY BE USED IN COMPLIANCE WITH CODES, RECOGNIZED STANDARDS, AND CONTRACT DOCUMENTS. PROVIDE NEMA 3R WHERE INSTALLED OUTDOORS OR SUBJECT TO MOISTURE. PROVIDE POLYMER CONCRETE PULL BOXES AS REQUIRED WHERE INSTALLED AT EXTERIOR AND AT GRADE LEVEL. PROVIDE SUITABLE COVERS FOR ALL BOXES.
- ALL CONDUIT IN SLAB AND UNDERGROUND TO BE PVC SCH. 40.
- ALL INTERIOR CONDUITS CONCEALED IN WALLS, ABOVE CEILINGS, OR IN EXPOSED STRUCTURE SHALL BE EMT WITH COMPRESSION FITTINGS FOR CONDUITS 1" AND SMALLER, CONDUITS 1-1/4" AND ABOVE SHALL HAVE STEEL SET-SCREW FITTINGS. METAL-CLAD (MC) CABLE MAY ONLY BE USED FOR FLEX CONNECTIONS TO LIGHT FIXTURES WHERE INSTALLED ABOVE LAY-IN ACOUSTICAL CEILINGS OR WHERE INSTALLED CONCEALED WITHIN BUILDING PURLING AT ROOF.
- ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID TO 10 FEET ABOVE FINISHED FLOOR WHEN INSTALLED IN AREAS SUSCEPTIBLE TO DAMAGE.
- ALL CONDUITS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. DO NOT INSTALL CONDUITS AT "ANGLED" / "STRAIGHT-RUNS" BETWEEN BOXES.
- FEEDER CONDUITS SHALL BE PVC BELOW GRADE, GRC ELBOWS AND RISERS UP TO PANELS FROM BELOW GRADE, OR EMT WHERE INSTALLED OVERHEAD AND COMPLETELY INDOORS, UNLESS NOTED OTHERWISE.
- ALL WIRING SHALL BE COPPER.
- ALL WIRING SHALL BE #12 AWG MINIMUM, THHN/THWN, UNLESS NOTED OTHERWISE.
- ALL WIRING SHALL BE CONDUCTOR TYPE THHN OR THWN INSULATED WITH POLYVINYL CHLORIDE AND COVERED WITH A PROTECTIVE SHEATH OF NYLON, RATED AT 600 VOLTS. WIRES SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) FOR INSTALLATION IN ACCORDANCE WITH ARTICLE 310 OF THE NATIONAL ELECTRICAL CODE (NEC). CONDUCTORS MAY BE SOLID OR STRANDED COPPER FOR 12 AWG AND SMALLER CONDUCTORS, AND STRANDED COPPER FOR 10 AWG AND LARGER CONDUCTORS. CONDUCTORS SHALL BE INSULATED WITH PVC AND SHALTED WITH NYLON.
- GROUNDINGS SHALL BE INSTALLED PER NEC SECTION 250.
- METALLO OBJECTS ON THE PROJECT SITE THAT ENCLOSE ELECTRICAL CONDUCTORS, OR THAT ARE LIKELY TO BE ENERGIZED BY ELECTRICAL CURRENTS, SHALL BE EFFECTIVELY GROUNDED.
- METAL EQUIPMENT PARTS, SUCH AS ENCLOSURES, RACEWAYS, AND EQUIPMENT GROUNDING CONDUCTORS, AND EARTH GROUNDING ELECTRODES SHALL BE SOLIDLY JOINED TOGETHER INTO A CONTINUOUS ELECTRICAL CONDUCTIVE SYSTEM.
- METALLIC SYSTEMS SHALL BE EFFECTIVELY BONDED TO THE MAIN GROUNDING ELECTRODE SYSTEM.
- ELECTRICAL CONTINUITY TO GROUND METAL RACEWAYS AND ENCLOSURES, ISOLATED FROM EQUIPMENT GROUND BY INSTALLATION OF NON-METALLIC CONDUIT OR FITTINGS, SHALL BE PROVIDED BY A GREEN INSULATED GROUNDING CONDUCTOR OF REQUIRED SIZE WITHIN EACH RACEWAY CONNECTED TO ISOLATED METALLIC RACEWAYS, OR ENCLOSURES AT EACH END. EACH FLEXIBLE CONDUIT OVER 6 FEET IN LENGTH SHALL BE PROVIDED WITH A GREEN INSULATED GROUNDING CONDUCTOR OF REQUIRED SIZE.
- COLD WATER, OR OTHER UTILITY PIPING SYSTEMS, SHALL NOT BE UTILIZED AS GROUNDING ELECTRODES DUE TO THE INSTALLATION OF INSULATING COUPLINGS AND NON-METALLIC PIPE IN SUCH INSTALLATIONS.
- NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, PANELS, EQUIPMENT CABINETS, AND METAL FRAMES OF BUILDINGS SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED. PROVIDE A #6 SIZED GROUNDING CONDUCTOR IN EVERY RACEWAY.
- NEUTRAL OF SERVICE CONDUCTORS SHALL BE GROUND AS FOLLOWS: NEUTRAL SHALL BE GROUND AT THE SERVICE PANELBOARD, OR MAIN SWITCH, EQUIPMENT AND CONDUIT GROUNDING CONDUCTORS SHALL BE BONDED TO THAT GROUNDING POINT, FEEDER NEUTRALS SHALL BE BONDED AT SERVICE ENTRANCE POINT ONLY, NEUTRALS OF SEPARATELY DERIVED SYSTEMS SHALL BE BONDED AT THE SOURCE ONLY.
- WITHIN EVERY BUILDING, THE MAIN PANELBOARD, SHALL BE BONDED TO THE COLD WATER LINE. METALLIC PIPING SYSTEMS SUCH AS GAS, FIRE SPRINKLER, OR OTHER SYSTEMS SHALL BE BONDED TO THE COLD WATER LINE.
- GROUNDING ELECTRODES SHALL BE COPPER-CLAD STEEL GROUND RODS, MINIMUM 3/4 INCH DIAMETER BY 10 FEET LONG. INSTALL ADDITIONAL ELECTRODES WHERE GROUND REMAINS HIGHER THAN 25 OHMS. INSTALL GROUNDING ELECTRODES AS NOTED ON DRAWINGS.
- GROUNDING CONDUCTORS SHALL BE COPPER, #12 MINIMUM WITH GREEN INSULATION, UNLESS NOTED OTHERWISE.
- GROUND TAILS SHALL BE COPPER, #12 MINIMUM WITH GREEN INSULATION, INSTALLED IN ALL METALLIC JUNCTION BOXES WHERE DEVICES ARE BEING INSTALLED. BRANCH CIRCUIT GROUND, JUNCTION BOX, AND DEVICES SHALL BE BONDED AT EACH JUNCTION BOX.

WIRING DEVICES

- RECEPTACLES SHALL COMPLY WITH NEMA WD 1, NEMA WD 6, AND UL 498.
- SWITCHES SHALL COMPLY WITH NEMA WD 1 AND UL 20.
- DUPLEX RECEPTACLES SHALL BE HEAVY-DUTY SPECIFICATION GRADE, GROUNDING TYPE. TERMINAL SCREWS SHALL BE BACK AND SIDE WIRED WITH INTERNAL SCREW PRESSURE PLATES. MOUNTING STRAP SHALL FEATURE HEAVY-DUTY BRASS CONSTRUCTION. RECEPTACLE BACK BODY SHALL BE PVC. RECEPTACLE FACE SHALL BE IMPACT RESISTANT NYLON. RECEPTACLES SHALL HAVE TRIPLE WIFE BRASS POWER CONTACTS.
- PROVIDE SPECIFICATION GRADE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES IN ACCORDANCE WITH UL STANDARDS. GFCI RECEPTACLES SHALL HAVE A TRIP INDICATION LIGHT. RECEPTACLE TERMINAL SCREWS SHALL BE BACK AND SIDE WIRE WITH INTERNAL SCREW PRESSURE PLATES. TEST AND RESET BUTTONS SHALL MATCH DEVICE BODY IN COLOR. GFCI RECEPTACLES SHALL BE MANUFACTURED IN STANDARD CONFIGURATION FOR INSTALLATION WITH STAINLESS STEEL SMOOTH PLATES. EXTERIOR MOUNTED RECEPTACLES SHALL BE MOUNTED INSIDE WEATHERPROOF ENCLOSURE.
- FOR EQUIPMENT RECEPTACLES, PROVIDE 2-WIRE OR 3-WIRE, GROUNDING TYPE, RATED 30 OR 50 AMPS AT 125/250 VOLTS, NEMA RATING AS NOTED ON DRAWINGS OR AS REQUIRED FOR EQUIPMENT, WITH 2-GANG STAINLESS STEEL PLATES.
- PROVIDE LOCAL SWITCHES, HIGH STRENGTH THERMOPLASTIC TOGGLE, SPECIFICATION GRADE, RATED 20 AMPS AT 120-277 VOLTS AC ONLY, WITH PLASTER EARS, EXTERNAL SCREW PRESSURE PLATE BACK AND SIDE WIRED, AND STANDARD SIZE COMPOSITION CUPS WHICH FULLY ENCLOSE MECHANISM. SWITCHES SHALL BE APPROVED FOR INSTALLATION AT CURRENTS UP TO FULL RATING ON RESISTIVE, INDUCTIVE, TUNGSTEN FILAMENT LAMP AND FLUORESCENT LAMP LOADS, AND FOR UP TO 80 PERCENT OF RATING FOR MOTOR LOADS. SWITCHES SHALL HAVE OVERSIZED SILVER ALLOY CONTACTS FOR LONG LIFE AND BETTER HEAT DISSIPATION. PROVIDE SWITCHES AS SINGLE POLE, DOUBLE POLE, 3-WAY, 4-WAY, NON-LOCK TYPE.
- PROVIDE DIMMER SWITCHES, SPECIFICATION GRADE, SLIDE TYPE DIMMER TO BE COMPLETELY COMPATIBLE WITH LIGHTING LOAD BEING SERVED. 1000 WATT MINIMUM RATING.
- WHERE NOTED, PROVIDE OCCUPANCY SENSOR SWITCHES (CEILING OR WALL MOUNT). SWITCHES SHALL BE DUAL TECHNOLOGY WITH INPUT VOLTAGE AND LOAD CHARACTERISTICS SUITABLE FOR LOADS BEING SERVED.
- PROVIDE STAINLESS STEEL FACEPLATE ON ALL DEVICES.
- WHERE DEVICES ARE TO BE INSTALLED AT MILLWORK OR ABOVE COUNTERS, COORDINATE WITH ARCHITECT FOR DEVICE HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. INSTALL OUTLETS TO BE IN KNEE SPACE AREA OR IN AREA THAT WILL BE ACCESSIBLE AFTER MILLWORK IS COMPLETED.

PANELBOARDS AND SAFETY SWITCHES

- PROVIDE ENGRAVED NAMEPLATE LABEL FOR ALL PANELBOARDS, SWITCHES (WHERE NOTED), DISCONNECTS, STARTERS, AND ANY EQUIPMENT NOTED OR REQUIRING NAMEPLATE IDENTIFICATION.
- ALL ELECTRICAL PANELS SHALL BE COPPER BUSSING, PANELBOARDS AND CONSTRUCTED TO NATIONAL ELECTRIC CODE, ARTICLE 408, UL 67, PANELBOARDS; UL 50, CABINETS AND BOXES; UL 943, GFCI; UL 489, MOLDED CASE CIRCUIT BREAKERS; NEMA PB1; AND FEDERAL SPECIFICATIONS W-P-115C AND WC-375B. LOAD CENTERS NOT ALLOWED UNLESS NOTED OTHERWISE.
- PANELBOARDS SHALL BE WALL-MOUNTED, ENCLOSED SAFETY TYPE WITH 120/240 VOLT, 3-WIRE SOLID NEUTRAL MAINS AS INDICATED ON DRAWINGS OR SPECIFIED. FIRST PANELBOARD OF EACH BUILDING SHALL BE PROVIDED WITH MAIN OR SUB-FEEDER CIRCUIT BREAKERS WHERE INDICATED. PROVIDE NEMA 3R PANEL ENCLOSURES WHERE INSTALLED OUTDOORS OR WHERE SUBJECT TO MOISTURE OR WHERE NOTED ON DRAWINGS.
- SURGE SUPPRESSORS SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS, PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSORS AS SEPARATELY INSTALLED OF PANELBOARDS. PANELBOARDS SHALL BE COMPLETE WITH FULLY RATED COPPER NEUTRAL BUS, GROUND BUS AND ISOLATED GROUND BUS. SURGE SUPPRESSORS SHALL BE AS FOLLOWS: SURGE CAPACITY: SERVICE ENTRANCE SPDOS SHALL BE ANSI/UL LISTED TYPE 1 SPD WITH A 160 KA SURGE RATING PER MODE. WITH FIELD REPLACEABLE SURGE MODULES. DISTRIBUTION OR BRANCH PANELS SHALL BE UL LISTED TYPE 1 SPD WITH A 80 KA SURGE RATING PER MODE. SURGE SUPPRESSION UNITS SHALL MEET UL 1449 3RD EDITION SUPPRESSED VOLTAGE RATING. MOVES SHALL BE THERMALLY PROTECTED FOR LOW CURRENT FAULTS AND SHALL BE FUSED WITH SURGE-RATED FUSES. THE SURGE-RATED SURGE CURRENT PASSES AND CLEARS THE CIRCUIT SAFELY IF THE SURGE CAPACITY IS EXCEEDED. ENHANCED DIAGNOSTICS SHALL CONTINUOUSLY MONITOR THE UNIT'S STATUS AND SHALL INCLUDE LEDS TO SIGNAL A REDUCTION IN SURGE CAPACITY OR THE LOSS OF A SUPPRESSION CIRCUIT. AN AUDIBLE ALARM, WITH TEST AND SILENCE FEATURES, SHALL BE FURNISHED IN DIAGNOSTIC PACKAGE.
- SINGLE POLE BRANCHES SHALL BE MOLDED CASE, THERMAL MAGNETIC CIRCUIT BREAKERS WITH INVERSE TIME DELAY, TRIP FREE, QUICK-MAKE, QUICK-BREAK MECHANISM AND SILVER ALLOY CONTACTS. CIRCUIT BREAKERS SHALL BE FULLY RATED, WITH AMPERE RATING MARKED ON HANDLE AND SHALL INDICATE ON/OFF AND TRIPPED POSITIONS. GROUND FAULT INTERRUPTERS SHALL BE INCORPORATED INTO CIRCUIT BREAKERS WHERE INDICATED. THEY SHALL BE LISTED BY UL, OR OTHER NRTL AS GROUND FAULT DEVICES. PROVIDE APPROPRIATE LUG KIT OF SUFFICIENT SIZE TO ACCOMMODATE THE FEEDERS.
- TWO-POLE BRANCHES SHALL BE UL, OR OTHER NRTL AS THERMAL MAGNETIC CIRCUIT BREAKERS WITH INVERSE TIME DELAY, TAMPER-PROOF, AMBIENT COMPENSATED, SINGLE HANDLE, INTERNAL COMMON TRIP, AND QUICK-MAKE, QUICK-BREAK MECHANISM WITH SILVER ALLOY CONTACTS. CIRCUIT BREAKERS SHALL BE FULLY RATED OR AS OTHERWISE INDICATED ON THE DRAWINGS.
- MAIN AND SUBFEEDER CIRCUIT BREAKERS SHALL BE ENCLOSED, THERMAL MAGNETIC TYPE WITH INVERSE TIME DELAY, SINGLE HANDLE COMMON TRIP, QUICK-MAKE, QUICK-BREAK MECHANISM, CORROSION-RESISTANT BEARINGS AND SILVER ALLOY CONTACTS. AMPERE FRAME SIZE AND TRIP RATING SHALL BE AS INDICATED ON DRAWINGS. VOLTAGE RATING SHALL BE AS INDICATED ON DRAWINGS. BRANCH MOUNTED MAINS ARE NOT ACCEPTABLE.
- CIRCUIT BREAKERS SHALL BE FULLY RATED AND OF ONE-PIECE, BOLT-ON TYPE AND SHALL MEET SHORT-CIRCUIT INTERRUPTING CAPACITY REQUIREMENTS INDICATED ON DRAWINGS.
- INTERNAL PHASE AND GROUND BUSS SHALL BE COPPER.
- PROVIDE A NEATLY TYPED WRITTEN PANELBOARD SCHEDULE WITH NUMBER OR NAME OF ROOM OR AREA, OR LOAD SERVED BY EACH PANELBOARD CIRCUIT. SCHEDULE SHALL ALSO INDICATE PANEL DESIGNATION, VOLTAGE AND PHASE, BUILDING AND DISTRIBUTION PANEL OR SWITCHBOARD FROM WHICH IT IS FED. SCHEDULE SHALL BE INSTALLED IN A FRAME UNDER TRANSPARENT PLASTIC ON INSIDE OF EACH PANELBOARD DOOR.
- ALL ELECTRICAL DISCONNECTS SHALL BE HEAVY DUTY AND RATED FOR VOLTAGE AND AMPACITY OF EQUIPMENT BEING SERVED, UNLESS NOTED OTHERWISE. PROVIDE FUSES BASED ON EQUIPMENT RATINGS WHERE NOTED. PROVIDE NEMA 3R ENCLOSURES WHERE INSTALLED OUTDOORS OR WHERE SUBJECT TO MOISTURE OR WHERE NOTED ON DRAWINGS.
- INSTALL ALL ELECTRICAL EQUIPMENT WITH CODE REQUIRED CLEARANCES.

LIGHTING

- LIGHT FIXTURES MODEL NUMBERS WERE DETERMINED AT THE TIME THIS SPECIFICATION WAS WRITTEN; MODEL NUMBERS MAY NEED TO BE MODIFIED, OR MAY REQUIRE THE ADDITION OR DELETION OF OPTIONS TO FULLY MEET SPECIFICATION REQUIREMENTS.
- DESIGN OF LIGHTING FIXTURES, ACCESSORIES, SUPPORTS, AND METHOD OF FIXTURE INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF CEILING TYPE WHICH FIXTURE IS INSTALLED.
- PROVIDE SUSPENSION POINTS AT NO MORE THAN 2 FEET FROM FIXTURE ENDS. SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
- FOR FIXTURES MOUNTED IN GRID CEILING, PROVIDE FIXTURE SUPPORTS AT ALL (4) CORNERS OF THE FIXTURE INDEPENDENT OF CEILING GRID SYSTEM, OR MANUFACTURER'S APPROVED CEILING SUPPORT SYSTEM.
- PROVIDE ALL NECESSARY COMPONENTS TO INSTALL FIXTURES IN CEILING TYPES BEING INSTALLED. SURFACE MOUNT FIXTURES SHALL BE ATTACHED TO STRUCTURE. TOGGLE BOLTS ARE NOT PERMITTED. PROVIDE BACKING WHERE REQUIRED.
- WHERE SITE LIGHTING IS SHOWN, INSTALL FIXTURES LEVEL AND PLUMB ON CONCRETE BASE AS NOTED.
- COMPONENTS AND FIXTURES SHALL BE LISTED AND APPROVED FOR THE INTENDED APPLICATION BY UNDERWRITER'S LABORATORIES (UL), OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
- LIGHTING FIXTURES SHALL BE THE TYPE INDICATED ON DRAWINGS AND AS SPECIFIED. FIXTURES OF SAME TYPE SHALL BE OF ONE MANUFACTURER.
- FIXTURES SHALL BE OF THE TYPES AND MANUFACTURERS DESCRIBED IN THE LUMINAIRE SCHEDULE OF THE DRAWINGS, WITH LAMPS, WATTAGE AND VOLTAGE AS INDICATED OR APPROVED EQUAL. SUBMIT TO ENGINEER FOR ANY SUBSTITUTION APPROVALS PRIOR TO PURCHASE AND INSTALLATION.
- ALL FIXTURE SHALL BE HIGH EFFICIENCY, HAVE SUITABLE BALLASTS OR DRIVERS TO MATCH LAMP TYPES, AND BE RATED FOR VOLTAGE BEING SUPPLIED.
- ALL LAMPS SHALL BE AS NOTED ON DRAWINGS. PROVIDE LAMPS FOR ALL FIXTURES AS NOTED.
- WHERE EMERGENCY BATTERY PACKS ARE INSTALLED, PROVIDE CONSTANT HOT FOR EMERGENCY FIXTURES. UNLESS NOTED OTHERWISE, WHEN POWERING UNIT INVERTER POWER PACKS, USE THE SAME CIRCUIT THAT POWERS THE SWITCHED BALLAST TO POWER THE INVERTER.
- WHERE EMERGENCY BALLAST(S) ARE SPECIFIED WITHIN THE FIXTURE, PROVIDE CONSTANT HOT FOR THE BALLAST(S). NONEMERGENCY BALLASTS WITHIN THE SAME FIXTURE SHALL BE SWITCHED AS INDICATED, UNLESS NOTED OTHERWISE.
- CHECK AND ADJUST FIXTURES FOR REQUIRED ILLUMINATION. REPLACE DEFECTIVE LAMPS AND BALLASTS. TEST AND ADJUST LIGHTING CONTROL EQUIPMENT FOR PROPER OPERATION.

COMMUNICATIONS

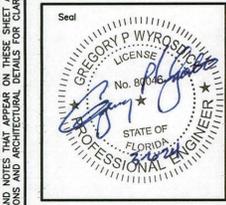
- COMMUNICATIONS DEVICES AND SYSTEMS SHALL BE INSTALLED COMPLETE WITH 4" SQUARE DEEP BOX WITH APPROPRIATE EXTENSION RING. STUB (1) 1" MINIMUM CONDUIT FOR DATA/TEL DEVICES TO ABOVE CEILING UNLESS NOTED OTHERWISE.
- ALL COMMUNICATIONS CONDUITS AT COMMUNICATIONS DEVICES LOCATIONS AND FUTURE TELECOM SERVICE FEEDER CONDUITS SHALL BE TERMINATED WITH PLASTIC BUSHING ON ENDS OF CONDUITS.
- PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- INSTALL (1) 4" BELOW GRADE FROM PROPERTY EDGE TO THE TELECOM TERMINAL LOCATION AT MAIN BUILDING AND (1) 2" BELOW GRADE FROM MAIN BUILDING TO STORAGE BUILDING. STUB UP AT SERVICE LOCATIONS AS REQUIRED.
- COORDINATE WITH OWNER AND UTILITIES FOR INSTALLATION REQUIREMENTS.



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Sheet Title
ELECTRICAL SPECIFICATIONS

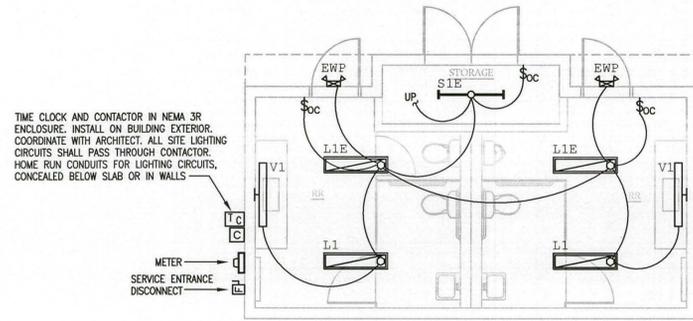
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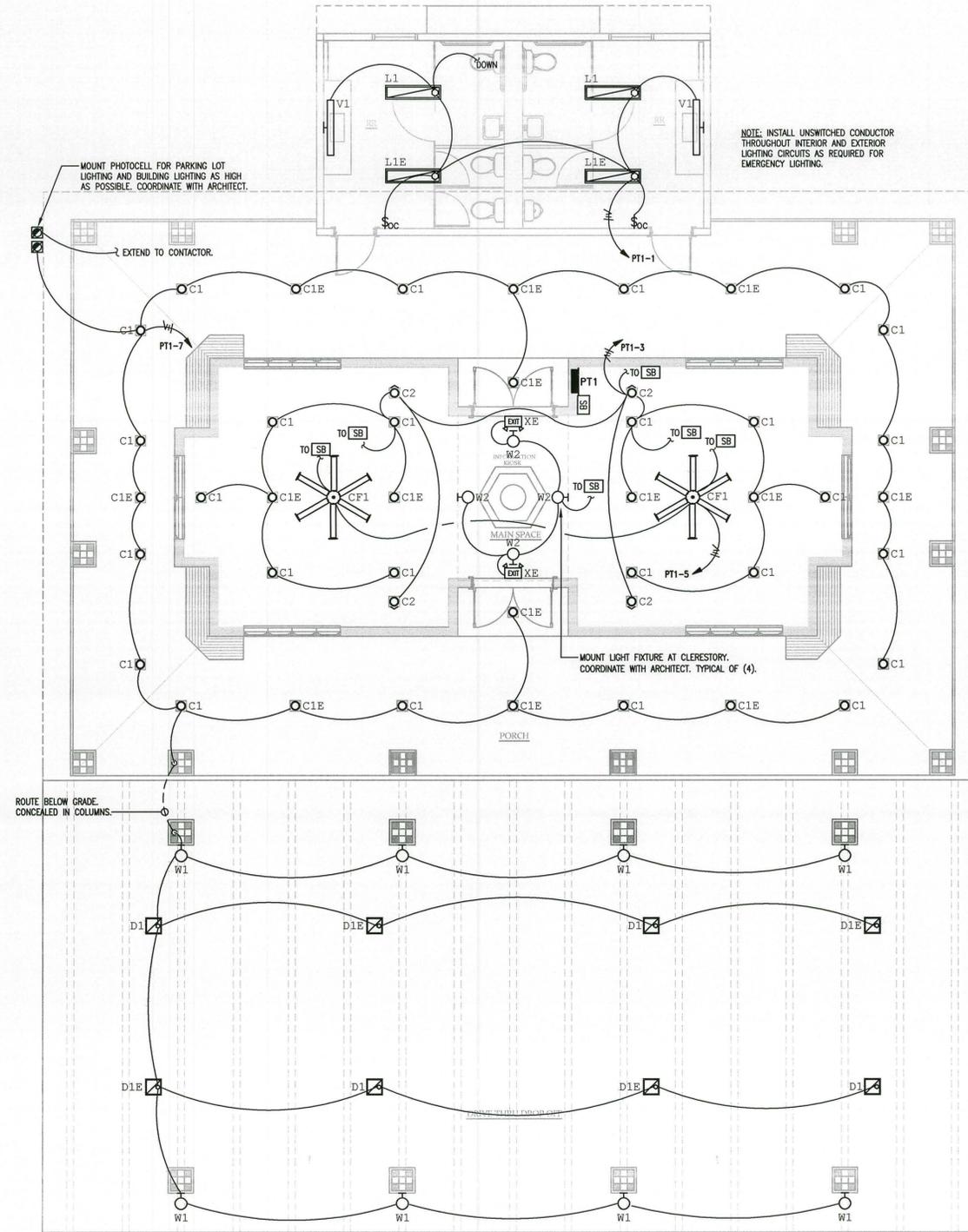
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2 LIGHTING PLAN - LOWER LEVEL (TRANSIT BUILDING)
EB201 SCALE: 3/16" = 1'-0"



1 LIGHTING PLAN - UPPER LEVEL (TRANSIT BUILDING)
EB201 SCALE: 3/16" = 1'-0"



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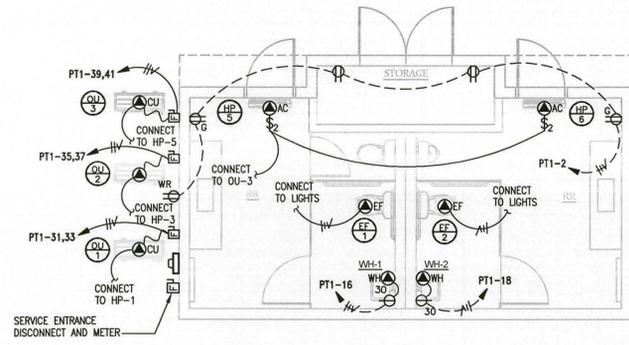
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TRANSIT BUILDING

No.	Date	Revision

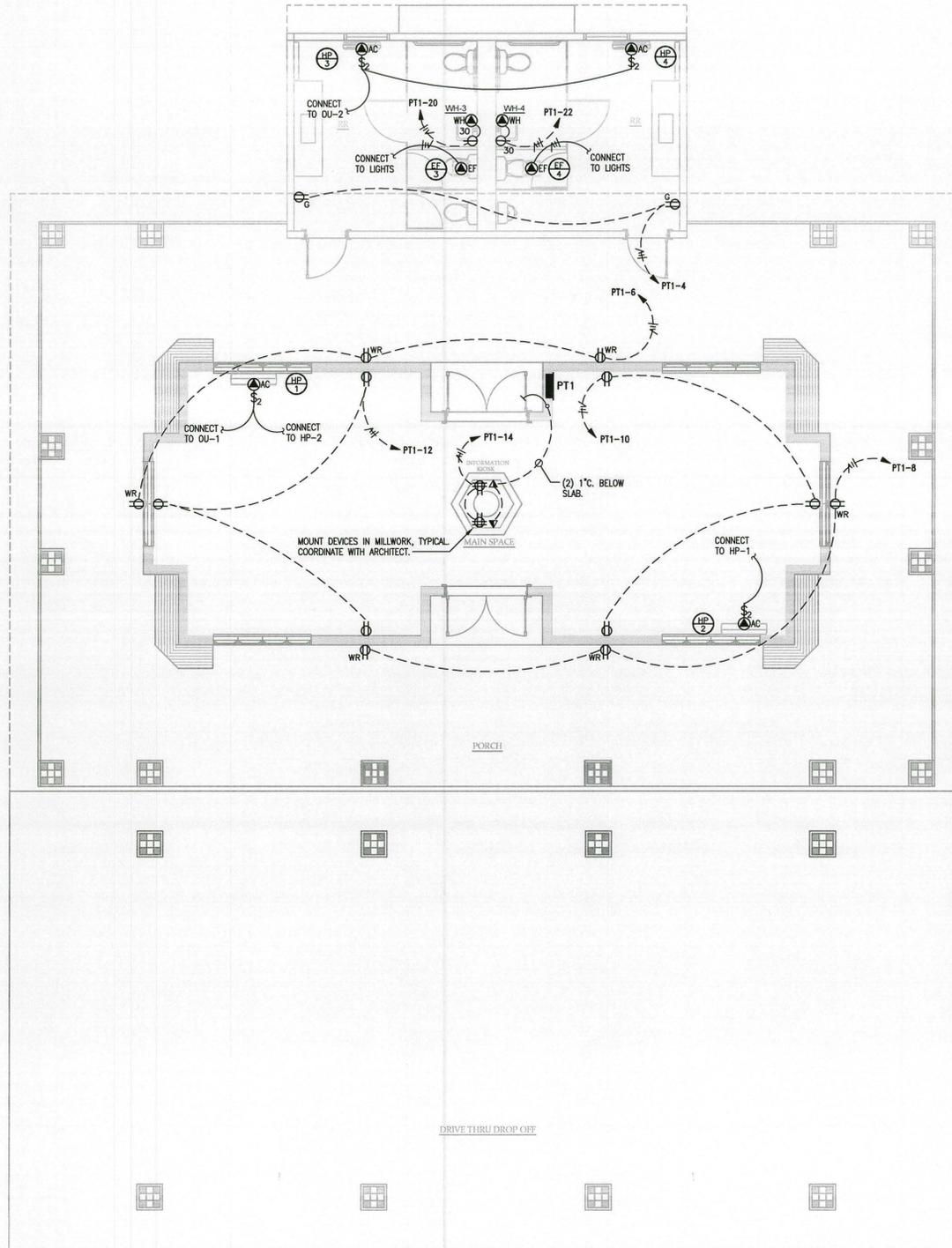
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EB201
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2 POWER, COMM. & MECH. SYSTEMS PLAN - LOWER LEVEL (TRANSIT BUILDING)
 EB202 SCALE: 3/16" = 1'-0"



1 POWER, COMMUNICATIONS, & MECHANICAL SYSTEMS PLAN - UPPER LEVEL (TRANSIT BUILDING)
 EB202 SCALE: 3/16" = 1'-0"



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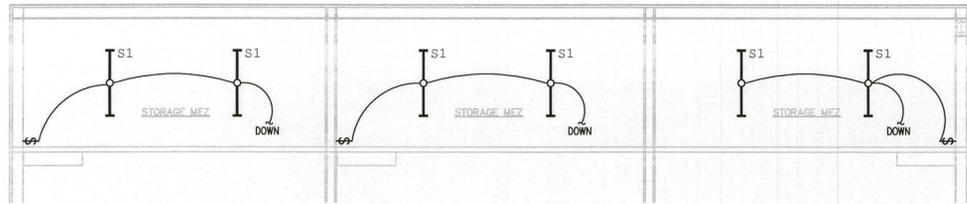
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**POWER, COMMUNICATIONS, AND
 MECHANICAL SYSTEMS PLAN
 TRANSIT BUILDING**

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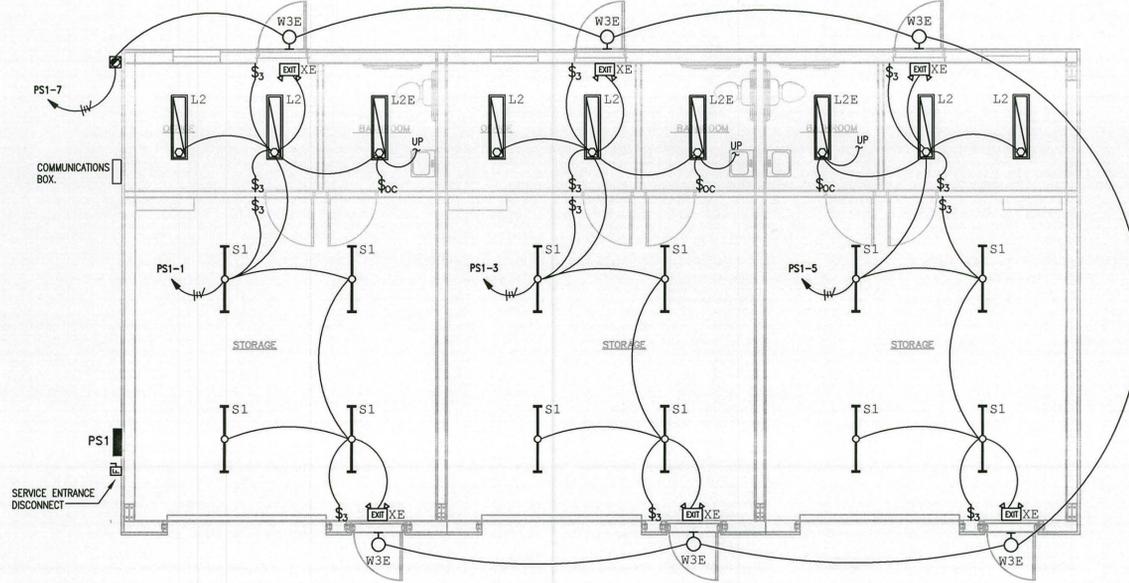
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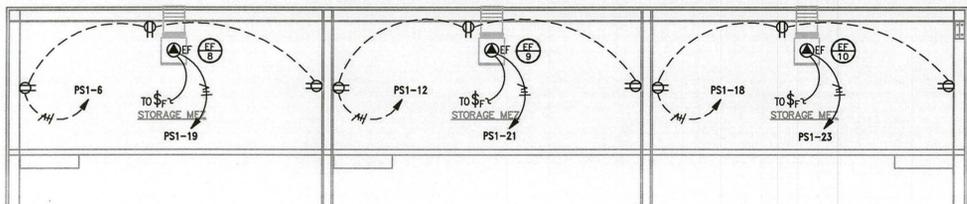
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EB202
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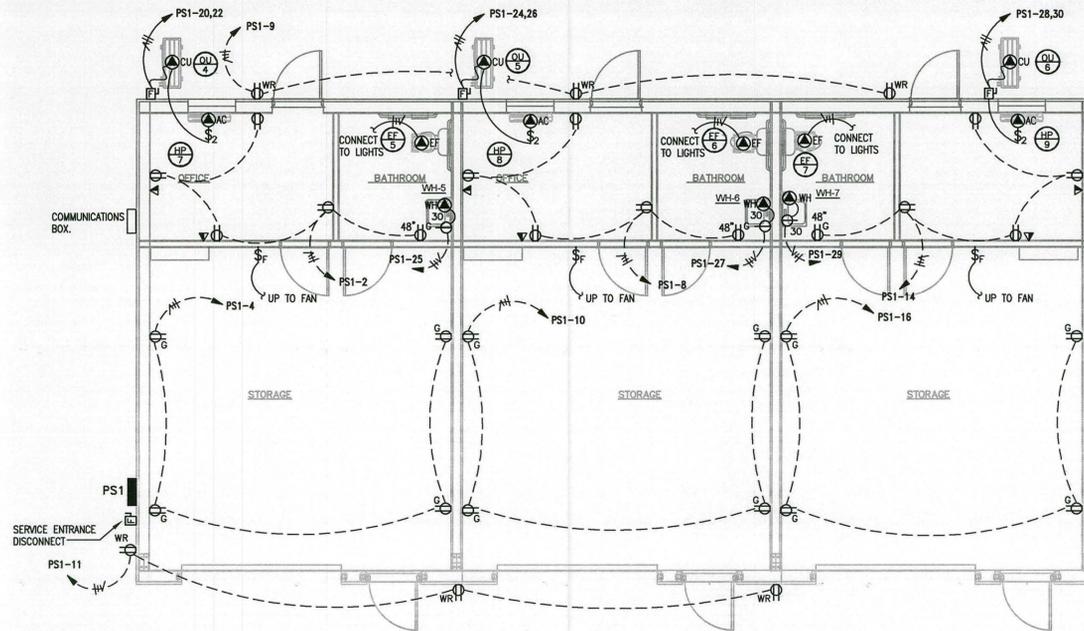
2 LIGHTING PLAN - MEZZANINE (STORAGE BUILDING)
EB301 SCALE: 3/16" = 1'-0"



1 LIGHTING PLAN - GROUND LEVEL (STORAGE BUILDING)
EB301 SCALE: 3/16" = 1'-0"



4 POWER & MECHANICAL SYSTEMS PLAN - MEZZANINE (STORAGE BUILDING)
EB301 SCALE: 3/16" = 1'-0"



3 POWER, COMMUNICATIONS, & MECHANICAL SYSTEMS PLAN - GROUND LEVEL (STORAGE BUILDING)
EB301 SCALE: 3/16" = 1'-0"



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**LIGHTING, POWER, COMMUNICATIONS,
AND MECHANICAL SYSTEMS PLAN
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