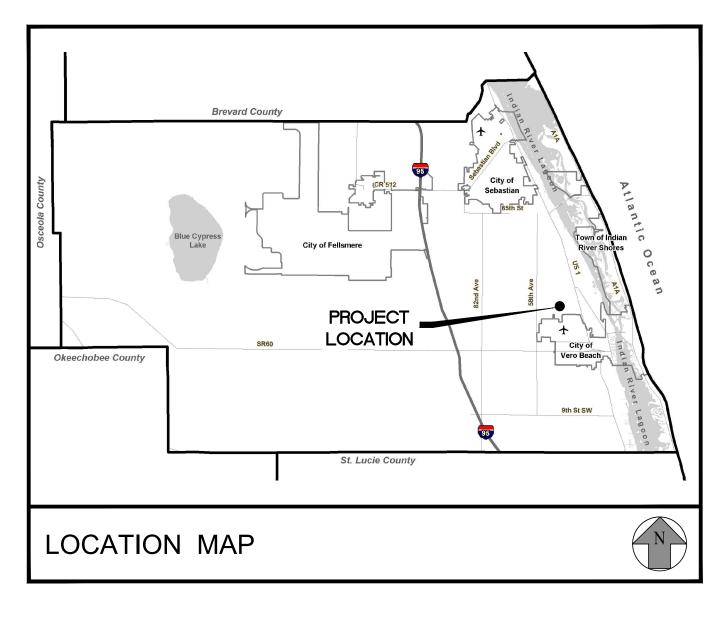
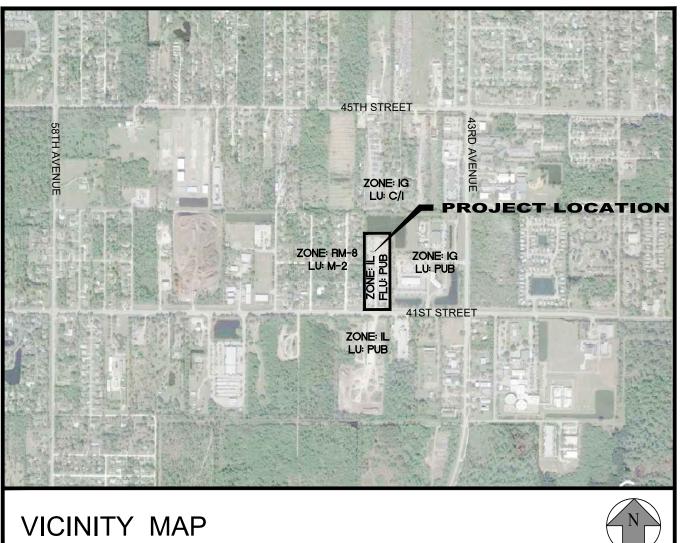
NEW TRAFFIC OPERATIONS FACILITY FOR INDIAN RIVER COUNTY







SECTION 28, TOWNSHIP 32S, RANGE 39E

INDIAN RIVER COUNTY, FLORIDA

TRC SUBMISSION - NOVEMBER 2021 2ND SUBMISSION - FEBRUARY 2022 3RD SUBMISSION - APRIL 2022

OWNER / APPLICANT



Indian River County **Board of County Commissioners** ircgov.com

BOARD OF COUNTY COMMISSIONERS

JOE EARMAN - CHAIRMAN SUSAN ADAMS - VICE-CHAIRMAN JOE FLESCHER - COMMISSIONER **DERYL LOAR - COMMISSIONER** LAURA MOSS - COMMISSIONER JOHN TITKANICH - COUNTY ADMINISTRATOR RICHARD B. SZPYRKA, P.E. - PUBLIC WORKS DIRECTOR

> 1801 27TH STREET VERO BEACH, FL 32960 PH: (772) 226-1283

ENGINEER



CIVIL . STRUCTURAL . SURVEYING . ENVIRONMENTAL 1835 20TH STREET VERO BEACH, FL 32960 PH: (772) 569-0035 MELBOURNE, FL - PH: (321) 253-1510 FT. PIERCE, FL - PH: (772) 468-9055

SURVEYOR

IRC PUBLIC WORKS DEPARTMENT,

ENGINEERING DIVISON

1801 27TH STREET VERO BEACH, FLORIDA 32960 PHONE (772) 567-8000

ARCHITECT

DONADIO & ASSOCIATES,

ARCHITECTS, P.A.

2001 9th AVENUE, SUITE 308 VERO BEACH, FL 32960 PH: (772) 794-2929

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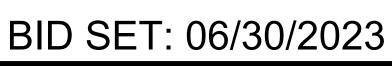
INDEX OF DRAWINGS

- COVER SHEET C1
- C2 GENERAL NOTES AND SUMMARY OF QUANTITIES
- C3 **EXISTING CONDITIONS**
- **DEMOLITION/ EROSION CONTROL PLAN PHASE 1** C4a
- C4b **DEMOLITION/ EROSION CONTROL PLAN - PHASE 2**
- SITE PLAN C5
- PAVING, GRADING AND DRAINAGE PLAN C6
- C7 **CROSS SECTIONS**
- UTILITY PLAN **C**8
- UTILITY DETAILS **C**9
- C10 GENERAL DETAILS
- C11 **EROSION CONTROL DETAILS**
- C12 LANDSCAPE PLAN
- C13 LANDSCAPE DETAILS
- C14 LANDSCAPE SPECIFICATIONS
- C15 EXISTING LANDSCAPE BUFFER PHOTO DOCUMENTATION
- C16 FIRE TRUCK ACCESS PLAN

AARON G. STANTON FL. P.E. #72460
DATE: 6/30/2023
PROJECT: 21-0082
SHEET
C1

This item has been digitally signed & sealed by Aaron Stanton, P.E. on

Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.



PRE-CONSTRUCTION REQUIREMENTS:

- 1. THE CONTRACTOR IS REQUIRED TO PERFORM HIS WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE VARIOUS PERMITS WHICH WILL BE OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE (SEQUENCE OF OPERATIONS) PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 3. CONTRACTOR WILL ATTEND A PRE-CONSTRUCTION MEETING WITH THE DESIGN ENGINEER, MUNICIPALITY AND/ OR OWNER PRIOR TO LAND DISTURBANCE.
- 4. SHOP DRAWINGS SHALL BE SUBMITTED BEFORE ORDERING MATERIAL FOR PLANNED PROJECT. CORRESPONDING SHALL BE BETWEEN THE DESIGN ENGINEER AND THE LOCAL GOVERNING AGENCY AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION NOTES

- THE CONTRACTOR IS ADVISED TO THOROUGHLY REVIEW THIS PLAN PACKAGE SO AS TO BE TOTALLY PREPARED TO PRESENT HIS BID PRICES IN THE CONTRACT DOCUMENTS. THE PLAN PACKAGE SUFFICIENTLY DELINEATES THE SCOPE AND INTENT OF THE WORK TO BE ACCOMPLISHED. IT WILL, THEREFORE, BE INCUMBENT ON THE CONTRACTOR TO ADJUST HIS FEE DOLLARS TO REFLECT ANY AND ALL ITEMS WHICH MAY NOT BE CLEARLY OUTLINED OR THOSE ITEMS WHICH MAY NOT BE INDICATED BUT WHICH ARE NECESSARY FOR THE SUCCESSFUL COMPLETION OF THIS PROJECT WITHOUT ADDITIONAL COSTS TO THE OWNER.Z
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDIAN RIVER COUNTY AND FDOT STANDARDS AND SPECIFICATIONS.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR THE COORDINATION OF UTILITY RELOCATION.
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN THE FIELD WITH UTILITY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. UTILITY PROVIDERS
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION, AS REQUIRED BY THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT. NOTIFY SUNSHINE AT 811.
- CONTRACTOR SHALL TAKE EXTREME CAUTION WHEN EXCAVATING NEARBY EXISTING UTILITIES.

CONTRACTOR SHALL INFORM ENGINEER OF ANY CONFLICT BEFORE ANY FURTHER WORK IS COMPLETED

- UTILITIES ARE TO BE ADJUSTED BY UTILITY OWNER OR AS DIRECTED BY THE ENGINEER.
- SURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND IS TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
- 10. CONTRACTOR SHALL NOTIFY THE ENGINEER IF SOIL OR SUBSURFACE CONDITIONS UNSUITABLE FOR CONSTRUCTION ARE ENCOUNTERED. 11. ALL EXCAVATED SOILS DEEMED SUITABLE AS FILL MATERIAL AS DETERMINED BY THE ENGINEER SHALL BE UTILIZED ON SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. THE EXACT LOCATION OF DELIVERY ON SITE SHALL BE DETERMINED BY THE ENGINEER. ALL EXCAVATED SOILS DEEMED UNSUITABLE SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE
- 12. ITEM IN CONFLICT WITH DESIGN SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES, PAVEMENT AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT HIS **OWN EXPENSE**
- 13. CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
- 14. IT SHOULD BE NOTED THAT THE OCCUPATIONAL SAFETY AND HEALTH ACT PROHIBITS THE OPERATING OF EQUIPMENT OR MACHINES CLOSER THAN TEN (10) FEET TO ENERGIZED ELECTRIC LINES RATES AT FIFTY KILOVOLTS OR BELOW. ALSO, NO EXCAVATION IS PERMITTED WITHIN FIVE (5) FEET OF POWER POLE FACILITIES.
- 15. ALL IRONS AND MONUMENTS (P.R.M.'S) SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
- 16. ANY PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR WILL NOTIFY THE ENGINEER.
- 17. ALL EXISTING TREES WITHIN THE RIGHT OF WAY ARE TO BE REMOVED AS CLEARING AND GRUBBING UNLESS OTHERWISE NOTED.
- 18. WHEN REFERENCED TO, FDOT REFERS TO FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, CURRENT EDITION.
- 19. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THAT WHICH IS NOW EXISTING.
- 20. BACKFILL, GRADE AND SOD AS REQUIRED AROUND ALL NEW CONSTRUCTION AND ALL DEVELOPED LOTS TO PREVENT EROSION. SEED AND MULCH WILL ONLY BE ALLOWED TO RESTORE UNDEVELOPED LOTS AFFECTED BY CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 21. SODDING TO BE USED AT LOCATIONS AS DIRECTED BY THE ENGINEER. SOD ALL DISTURBED AREAS UPON COMPLETION.
- 22. ALL EXCESS CONSTRUCTION MATERIAL AND WASTE TO BE HAULED OFF-SITE AND DISPOSED OF PROPERLY AT CONTRACTOR'S EXPENSE.
- 23. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH FDOT STANDARDS FOR TRAFFIC CONTROL THROUGH WORK ZONES AND MUTCD (PART
- 24. PROPERTY OWNERS AND BUSINESSES WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY AT ALL TIMES DURING
- 25. ALL MAILBOXES SHALL BE RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE U.S. POSTAL MAIL CARRIER.
- 26. THE CONTRACTOR SHALL REMOVE, COVER OR OBLITERATE EXISTING ROADWAY SIGN AND PAVEMENT MARKINGS THAT CONFLICT WITH THE CONSTRUCTION TRAFFIC CONTROL PLANS
- 27. CONTRACTOR TO PROTECT ALL SPRINKLER HEADS NOT IN CONFLICT WITH DESIGN AND RELOCATE ALL THOSE WHICH ARE IN CONFLICT TO A LOCATION DETERMINED IN FIELD.
- 28. SOD TWO (2) FEET MINIMUM ALONG SIDE PROPOSED EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY DRAINAGE MEASURES AS REQUIRED TO ADEQUATELY DRAIN THE PROJECT AND ANY TEMPORARILY TRAVELED ROADWAYS, TEMPORARY DRAINAGE DESIGN, CONSTRUCTION AND MAINTENANCE IS THE CONTRACTOR'S RESPONSIBILITY: HOWEVER, ALL SUCH MEASURES MUST BE APPROVED BY THE ENGINEER.
- 30. THE EXISTING SIDEWALK SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED.
- 31. GRADES SHOWN ARE FINISHED GRADES.
- 32. SAWCUT CONCRETE OR ASPHALT DRIVEWAYS AS REQUIRED FOR REPLACEMENT.
- ALL ABANDONED UTILITIES (INCLUDING PIPES, CABLES AND STRUCTURES) FOUND IN THE RIGHT OF WAY AND NOT SHOWN ON THE PLANS, ARE TO BE REMOVED AND PROPERLY DISPOSED OF AT THE EXPENSE OF THE CONTRACTOR. THIS INCLUDES ALL EXOTIC PIPES LIKE ASBESTOS-CEMENT PIPE. COST TO BE INCLUDED IN CLEARING AND GRUBBING ITEM.
- 34. DRIVEWAY LOCATIONS AND WIDTHS ARE APPROXIMATE AND ARE TO BE ADJUSTED AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- 35. BENCHMARK DATUM IN NAVD 88

MODIFICATIONS

AT HIS OWN EXPENSE

- 36. BACKFILL AND SOD AS REQUIRED BEYOND RIGHT OF WAY LINES ON INDIVIDUAL LOTS TO MAINTAIN POSITIVE DRAINAGE FLOW INTO CURB AND GUTTER.
- 37. GRADE AND SOD SWALES TEN (10) FEET FROM PROPOSED DITCH BOTTOM INLETS AND MITERED END SECTIONS ON SIDE STREETS, AS REQUIRED.
- 38. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN B (BASELINE) AND 4 (CENTERLINE) CONSTRUCTION THROUGHOUT THE PROJECT.
- 39. THE CONTRACTOR SHALL REMOVE DRIVEWAY APRONS AND DRIVEWAY CULVERTS AND SHALL MAINTAIN ROUGH GRADE FOR UTILITY
- 40. ALL EXISTING SWALES SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE TO THE SWALE LINE SHALL BE CORRECTED BY THE CONTRACTOR
- 41. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT PRICES FOR BID ITEMS.
- 42. MAINTAIN A MINIMUM OF ONE (1) FOOT CLEARANCE BETWEEN POWER POLE AND EDGE OF SIDEWALK.
- 43. WHEN ALL OTHER PERMANENT CONSTRUCTION IS COMPLETE, THE FINAL SURFACE COURSE SHALL BE PLACED.
- 44. CONSTRUCTION OPERATIONS FOR PLACEMENT OF THE FINAL SURFACE COURSE SHALL BE LIMITED TO A DISTANCE, AS DIRECTED BY THE ENGINEER, THE CONTRACTOR CAN COMPLETE IN ONE (1) DAY.
- 45. THE CONTRACTOR SHALL IMPLEMENT TEMPORARY PAVEMENT MARKINGS UNTIL THE FINAL SURFACE COURSE HAS CURED (MINIMUM THIRTY (30) DAYS AFTER FINAL SURFACE COURSE PLACEMENT). ANY TEMPORARY PAINTED MARKINGS PLACED ON THE FINAL. 46. PAVEMENT TRANSITION SHALL BE MADE IN ACCORDANCE WITH PAVEMENT TRANSITION DETAIL.
- 47. ALL APPROVED PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO FDOT, FDEP AND INDIAN RIVER COUNTY, SHALL BE MET BY CONTRACTOR PRIOR TO CERTIFICATION OF COMPLETION BY ENGINEER.



PRIMARY BENCHMARK: THIS EXHIBIT WAS TIED TO INDIAN RIVER COUNTY BENCHMARK'S, "BM065031" (EL.=23.15') AND "BM576003" (EL.=23.98'). ELEVATIONS SHOWN HEREON HAVE A RELATIVE POSITION ACCURACY OF 0.3 FOOT, MORE OR LESS FOR GROUND SHOTS AND 0.1 FEET, MORE OR LESS FOR HARD SURFACES.

ROADWAY SPECIFICATIONS <u>GENERAL</u>

IF WITHIN THAT PARTICULAR SECTION ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE A PART OF THE STANDARD SPECIFICATIONS ALSO.

THE CONTRACTOR SHALL GIVE THE ENGINEER 48 HOURS NOTICE PRIOR TO REQUESTING INSPECTIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO PROPERLY TEST AND INSPECT THE COMPLETED WORK THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF TWO YEARS FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIALS SHALL BE CORRECTED AT

THE CONTRACTOR'S EXPENSE.

GRADING

TYPICAL SECTIONS.

ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS.

<u>STAKING</u>

<u>STABILIZING</u>

STABILIZED SUBGRADE SHALL BE CONSTRUCTED TO THE FLORIDA BEARING VALUE AS PER PLAN FOR THE DEPTH AND LIMITS SHOWN ON THE PLAN, AND IN ACCORDANCE WITH SECTION 160 OF THE STANDARD SPECIFICATIONS. (TYPE C STABILIZATION). ALL STABILIZED AREAS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

BASE COURSE

THE BASE SHALL BE CONSTRUCTED OF EITHER LIMEROCK MATERIAL IN ACCORDANCE WITH SECTION 911 OR CEMENTED COQUINA SHELL MATERIAL IN ACCORDANCE WITH SECTION 915 OF THE STANDARD SPECIFICATIONS. LIMEROCK BASE AND CEMENTED COQUINA SHELL BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ROCK PIT CERTIFICATION FOR CEMENTED COQUINA SHELL MATERIAL. BASE SHALL BE COMPACTED BY AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. BASE SHALL BE APPROVED PRIOR TO PRIME COAT.

PRIME AND TACK COAT

SPECIFICATIONS.

TYPE SP-9.5 ACSC SHALL BE CONSTRUCTED FOR THE DEPTH AND LIMITS SHOWN ON THE PLAN, IN ACCORDANCE WITH SECTIONS 320, AND 330 OF THE STANDARD SPECIFICATIONS.

<u>TESTING</u>

THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN APPROVED INDEPENDENT TESTING LABORATORY TO CONDUCT ALL REQUIRED TESTS ON SUBGRADE, BASE AND SURFACE COURSE MATERIALS. TEST RESULTS MUST BE SUBMITTED PRIOR TO ANY REQUEST FOR PAYMENT ON THE ABOVE ITEMS.

THE SCHEDULE FOR TESTING OF THE ROAD CONSTRUCTION SHALL BE AS FOLLOWS: A. SUBGRADE:

- 2. DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 200 FEET OR CLOSER AS MIGHT BE
- NECESSARY. B. BASE:

NECESSARY.

SPECIFICATIONS ARE MET.

CONTRACTOR CLEAN-UF

1. OPEN ROAD CUTS REQUIRES PRIOR APPROVAL OF THE CITY, COUNTY, STATE OR ANY OTHER AGENCY WHICH MAY HAVE JURISDICTION.

- OF TRANSPORTATION SPECIFICATIONS AND STANDARDS.

6. TRAFFIC CONTROL ON ALL COUNTY AND STATE HIGHWAY RIGHT-OF-WAYS SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION.

DRAINAGE SPECIFICATIONS

CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 3000 PSI.

ALL REINFORCING STEEL TO BE ASTM A 615-72 GRADE 40, FYP = 40,000 PSI, AND SHALL BE HANDLED AND PLACED IN ACCORDANCE WITH ACI 318-71 PRECAST CONCRETE MANHOLES AND STORM INLETS MAY BE USED UPON THE ENGINEER'S APPROVAL OF THE MANUFACTURER'S SHOP DRAWINGS.

STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 430 AND RELATED SECTIONS OF THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION.

CONCRETE

CULVERT PIPES

SPECIFICATIONS.

ALL PRECAST CONCRETE DRAINAGE PRODUCTS (INCLUDING BUT NOT LIMITED TO ROUND CONC. PIPE. ELLIPTICAL CONC. PIPE, UNDERDRAINS, MANHOLES, INLETS, ENDWALLS, JUNCTION BOXES, THREE SIDED CONC. CULVERTS, AND CONC. BOX CULVERTS) SHALL BE IN ACCORDANCE WITH SECTION 449 OF THE STANDARD SPECIFICATIONS.

GROUNDWATER

IT IS INTENDED THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" MOST CURRENT EDITION BE USED WHERE APPLICABLE FOR VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL. SUCH WORDING IS INTENDED TO BE REPLACED WITH THAT WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY, THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT.

THE CONTRACTOR SHALL PERFORM ALL GRADING NECESSARY TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING

CONSTRUCTION STAKING WILL BE PERFORMED BY THE CONTRACTOR.

PRIME AND TACK COAT FOR THE BASE SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD

ASPHALTIC CONCRETE SURFACE COURSE (A.C.S.C.)

1. FLORIDA BEARING VALUE TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 200 FEET, OR CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN SUBSOIL CONDITIONS.

1. DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET OR CLOSER AS MIGHT BE

ALL TESTING SHALL BE TAKEN IN A STAGGERED SAMPLING PATTERN FROM A POINT 1 1/2 INCHES INSIDE THE LEFT EDGE, TO THE CENTER, TO A POINT 12 INCHES INSIDE THE RIGHT EDGE OF THE ITEM TESTED.

IF ANY TEST INDICATES THAT THE WORK DOES NOT MEET THE SPECIFICATIONS, THE SUBSTANDARD AREA SHALL BE REWORKED OR CORRECTED AND RETESTED, AT THE CONTRACTOR'S EXPENSE, UNTIL THE PROVISIONS OF THESE

ALL PASSING TESTS SHALL BE PAID FOR BY THE OWNER. ALL FAILING TESTS SHALL BE PAID FOR BY THE

THE CONTRACTOR MUST PROVIDE CLEAN-UP OF EXCESS CONSTRUCTION MATERIAL UPON COMPLETION OF THE PROJECT. THE SITE MUST BE LEFT IN A NEAT. CLEAN. GRADED CONDITION.

CONSTRUCTION IN STREETS AND ROAD RIGHT-OF-WAYS

2. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT

3. ALL AREAS IN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL RECEIVE SOLID SOD.

4. STREET RESTORATION TO BE DONE AS PER INDIAN RIVER COUNTY STANDARDS.

5. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE STATE, COUNTY AND CITY AUTHORITIES REGARDING CLOSING OR RESTRICTING THE USE OF PUBLIC STREETS OR HIGHWAYS.

STORM INLETS AND MANHOLES SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH SECTION 425 OF THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION.

UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA.

REINFORCED CONCRETE PIPE (R.C.P.) SHALL BE IN ACCORDANCE WITH SECTION 449 OF THE STANDARD

PRECAST CONCRETE DRAINAGE PRODUCTS

GROUNDWATER MAY BE ENCOUNTERED ON THIS SITE. THE CONTRACTOR IS TO PLAN ACCORDINGLY.

DRAINAGE SPECIFICATIONS CONT

RECORD DRAWINGS

CONTRACTOR SHALL KEEP AND MAINTAIN RECORD DRAWINGS ON THE PROJECT SITE AT ALL TIMES WHICH SHALL BE ANNOTATED BY THE CONTRACTOR DEPICTING ANY CHANGES MADE IN THE FIELD WHICH DIFFER FROM THE CONTRACT DRAWINGS. RECORD DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, INVERT AND TOP ELEVATIONS OF CULVERTS AND INLET STRUCTURES. CONTRACTOR SHALL SUBMIT COMPLETE AND FINAL RECORD DRAWINGS TO ENGINEER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL INSPECTION AND FINAL PAYMENT. INSPECTION

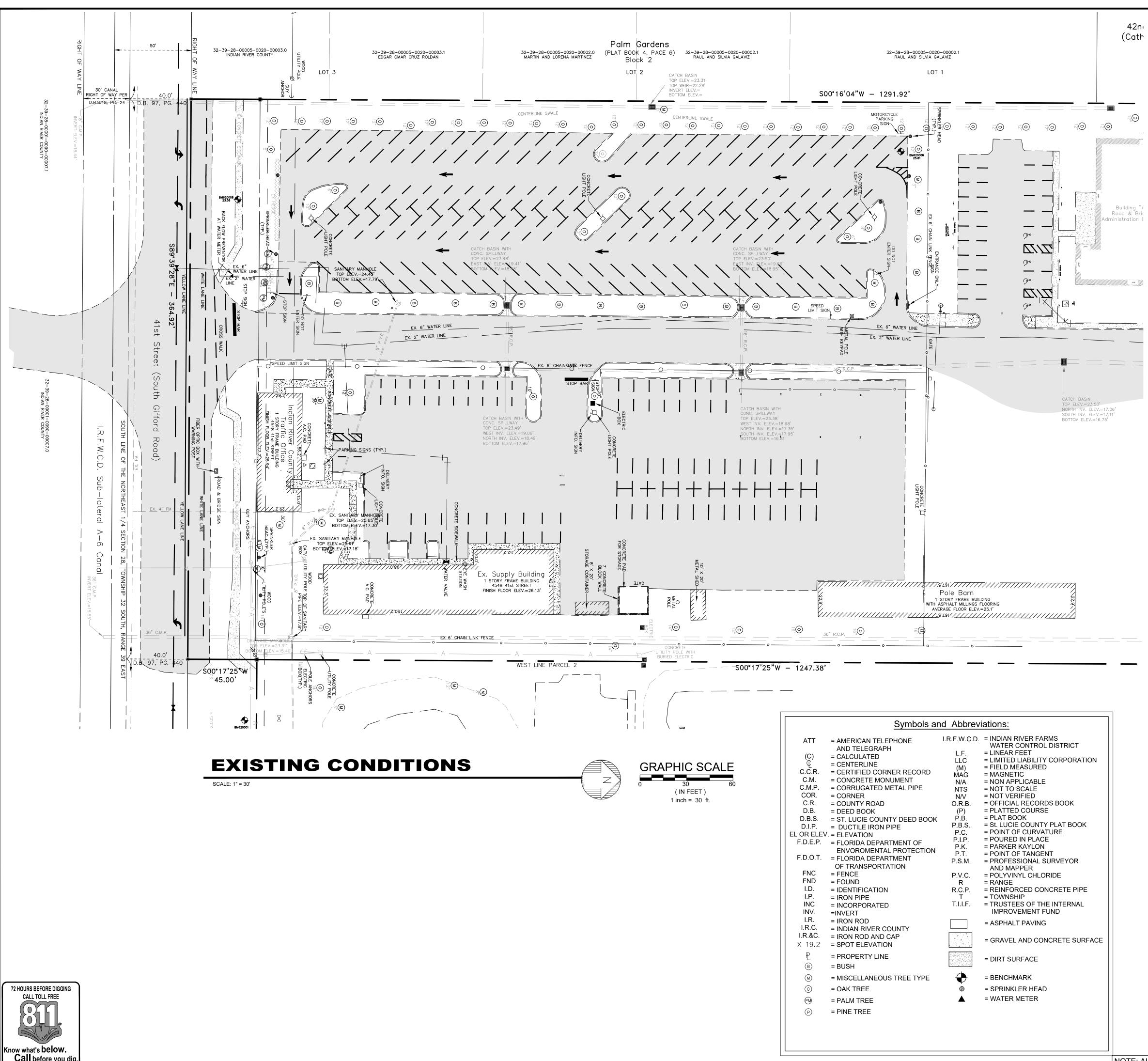
MINIMUM CONSTRUCTION INSPECTION CHECKPOINTS

- THE ENGINEER SHALL BE NOTIFIED 1. PRIOR TO ANY MAJOR DEVIATION FROM THE APPROVED PLANS.
- 2. PRIOR TO BACKFILLING ANY PIPE TRENCHES.
- 3. UPON COMPLETION OF SUBGRADE GRADING AND COMPACTION.
- 4. UPON BEGINNING OF SPREADING OF ROCK BASE MATERIAL
- 5. UPON COMPLETION OF GRADING AND COMPACTION OF THE BASE MATERIAL AND PRIOR TO PRIMING.
- 6. IMMEDIATELY PRIOR TO AND UPON APPLICATION OF A.C.S.C.
- 7. UPON COMPLETION OF CONSTRUCTION.

GENERAL NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION. 2. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE
- COMMENCING WORK. 3. ALL WORK SHALL BE IN WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR
- OBTAINING ALL PERMITS AND LICENSES REQUIRED TO BEGIN WORK. 4. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH REQUIREMENTS OF
- THE INDIAN RIVER COUNTY, WATER MANAGEMENT DISTRICT, FDEP AND THESE PLANS AND SPECIFICATIONS. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL
- CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE FOR CONSTRUCTION OPERATIONS.
- 6. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER. 7. CONTRACTOR SHALL SUPPLY DENSITY TESTS TO ENGINEER ON ALL SUB-GRADE AND BASE. TESTS SHALL BE PREPARED PER AASHTO T-180 METHOD.
- 8. SLOPE GRADES FROM ELEVATIONS SHOWN TO EXISTING GRADE AT PROPERTY LINE. MAXIMUM SLOPE 4:1.
- 9. ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR ANY INSPECTION.
- 10. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH M.U.T.C.D. STANDARDS, INDIAN RIVER COUNTY AND F.D.O.T.
- 11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
- 12. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE. WHEN GROUNDWATER IS ENCOUNTERED THE CONTRACTOR SHALL PLAN ACCORDINGLY.
- 13. ALL INLETS SHALL HAVE A 6" MIN. SUMP BELOW LOWEST INVERT.
- 14. EROSION CONTROL FENCING MUST BE IN PLACE PRIOR TO GRADING.
- 15. PIPE LENGTHS AND SLOPES SHOWN ARE APPROXIMATE.
- 16. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- 17. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT
- 18. CONTRACTOR SHALL ADJUST INLET/STRUCTURE OR CONNECTION LOCATION AS REQUIRED TO ENSURE PROPOSED STRUCTURES AND PIPES ARE IN PROPER ALIGNMENT AND MATCH SLOPE OF EXISTING PIPES OR CONNECTIONS.
- 19. THIS PLAN CONTEMPLATES ACCESS CONNECTIONS TO ADJACENT ROADS AS SHOWN.
- 20. FILL MATERIAL MAY NOT BE STOCKPILED HIGHER THAN TWENTY FIVE (25) VERTICAL FEET ONSITE PER INDIAN RIVER COUNTY CODE.
- 21. DIMENSIONS SHOWN ARE TO EDGE OF GUTTER OR PAVEMENT. RADII SHOWN ARE TO FACE OF CURB.
- 22. ALL SIGNS SHALL BE PER M.U.T.C.D. STANDARDS.
- 23. ALL PAVEMENT MARKINGS, EXCEPT PARKING STALL STRIPING, SHALL BE THERMOPLASTIC PER INDIAN RIVER COUNTY REQUIREMENTS
- 24. THE USES PROPOSED AS PART OF THIS PLAN DO NOT REQUIRE A SUBMITTAL OF A RISK MANAGEMENT PLAN PURSUANT TO U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS AND SHALL NOT EXCEED THE EPA'S RMP THRESHOLD QUANTITIES OF LISTED SUBSTANCES.
- 25. WATER FOR FIRE FIGHTING PURPOSES SHALL BE INDICATED WITH A BLUE ROADWAY REFLECTOR. PLACE ONE FOOT OFF OF THE CENTERLINE OF THE ROAD FACING THE FIRE HYDRANT. THIS INCLUDES NEW AND EXISTING SOURCES.
- 26. REGARDLESS OF PRIVATE OR PUBLIC DEDICATIONS, THERE SHALL BE NO UTILITY CONNECTIONS, METER BOXES OR VALVE BOXES IN EXISTING OR PROPOSED SIDEWALK OR DRIVEWAY AREAS.
- 27. CONTRACTOR SHALL ADJUST INLET/STRUCTURE OR CONNECTION LOCATION AS REQUIRED TO ENSURE PROPOSED STRUCTURES AND PIPES ARE IN PROPER ALIGNMENT AND MATCH SLOPE OF EXISTING PIPES OR CONNECTIONS.
- 28. ANY STATE AND FEDERAL PERMITS THAT MAY BE REQUIRED AS A RESULT OF LAND CLEARING AND LANDSCAPING ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 29. CONTRACTOR IS RESPONSIBLE TO PROTECT AND/OR REPLACE ALL SURVEY MONUMENTATION BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA.
- 30. ALL PARKING SPACES WITH EXCEPTION OF THE HANDICAPPED PARKING SPACES SHALL BE STRIPED IN WHITE, TRAFFIC PAINT AND BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR FOR ROAD & BRIDGE CONSTRUCTION, SECTION 710, LATEST EDITION.
- 31. ALL HANDICAPPED PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FDOT STANDARD INDEX 711-001, LATEST EDITION.
- 32. BUILDINGS USING VERTICAL OR HORIZONTAL LIGHT-FRAME CONSTRUCTION IN ANY PORTION OF THE STRUCTURE SHALL BE MARKED WITH A SIGN AS REQUIRED BY FLORIDA STATE STATUTE 633-027 AND THE SIGN SHALL BE REQUIRED TO COMPLY WITH THE FLORIDA ADMINISTRATIVE CODE 69A-3.012 AND/OR 69A-60.0081. REQUIRED SIGN MUST BE 8 INCHES BY 8 INCHES.
- 33. THERMOPLASTIC PAVEMENT MARKINGS SHALL BE REQUIRED ON EXISTING / PROPOSED DRIVEWAYS THAT CONNECT TO THE COUNTY RIGHT-OF-WAY (ROW) AND PROPOSED PAVEMENT MARKINGS WITHIN 25' OF EDGE OF PAVEMENT
- 34. ALL SUBDIVISION CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE INDIAN RIVER COUNTY ORDINANCES
- 35. ALL NUISANCE EXOTIC VEGETATION EXISTING WITHIN DEVELOPMENT PROJECT SITE PROPERTY MUST BE REMOVED IN CONJUNCTION WITH SITE DEVELOPMENT.

Y ITEM NO.	DESCRIPTION	UNIT	QUANTITY				04-11-2022	01-06-2022	Ш
101-1	ROADWAY PAY ITEMS	LS	1]	1 1	1	04-11	01-06	DATI
102-1	MAINTENANCE OF TRAFFIC	LS	1	_					
104-10-3 110-1-1	SEDIMENT BARRIER CLEARING AND GRUBBING	LF AC	761 2.05	-					S
110-23 110-4-10	TREES TO BE REMOVED (OAKS: 10" - 40") REMOVAL OF EXISTING CONCRETE (SIDEWALKS)	EA SY	9 226	_					ŇO
120-1	REGULAR EXCAVATION	CY	1,150	-			ENTS		REVISION
160-4A 160-4B	TYPE B STABILIZATION (CAR PARKING, SIDEWALKS AND SERVICE YARD AREAS), 6" THICK TYPE B STABILIZATION - (HEAVY DUTY CONCRETE AREAS), 12" THICK	SY SY	4,727 413	-			COMMENTS		REV
285-704	OPTIONAL BASE, GROUP 04 (CAR PARKING AREAS)	SY	456	-				IRC COMMENTS	
285-709 334-1-13	OPTIONAL BASE, GROUP 06 (SERVICE YARD) SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 9.5, 1.5") (CAR PARKING AREAS)	SY TN	3,200 37.7	- ∞	- <u>9</u>	ທ 4			
334-1-13 334-1-13	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 12.5, 1.5"- 1st LIFT) (SERVICE YARD)	TN TN	260.5 173.7	82	표	SS	2021	AS	23
400-2-10	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 9.5, 1"-2nd LIFT) (SERVICE YARD) CONCRETE CLASS II, APPROACH SLABS, 7" THICKNESS, REINFORCED, 4,000 PSI	CY	413	21-0082					3/30/2023
425-1-54 425-2-41	INLET, DITCH BOTTOM, TYPE F MANHOLE, P-7, <10'	EA EA	7	_			NOVEMBER		6/
430-175-112	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 12" S/CD (SCH 80 PVC)	LF	30	_			NO		
430-175-115 430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD (RCP) PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD (RCP)	LF LF	142 259	-					0
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD (RCP)	LF	129		ED			- Cl	DATE ISSUED
430-964-6 430-964-7	PVC PIPE FOR NON-STANDARD DRAINAGE, 8" SCH 80 PVC PIPE FOR NON-STANDARD DRAINAGE, 6" SCH 80 (ROOF LEADERS)	LF LF	52 70	JOB NO.	DESIGNED	DRAWN	DATE	CHECKED	ATE IS
507-70 515-1-2	ALUMINUM SIDEWALK FLOOR PIPE HANDRAIL - GUARDRAIL, ALUMINUM	SF LF	35 12	٩ ٩	DE	D	DA	5	DA
520-1-10	CONCRETE CURB AND GUTTER, TYPE F	LF	51			_		J	510 55
520-2-4 522-2	CONCRETE CURB, TYPE D CONCERTE SIDEWALK AND DRIVEWAYS (FIBER REINFORCE) (6" THICK)	LF SY	1,520 658			⊾ (3728	PH (321) 253-151 - PH (772) 468-9055
527-2	DETECTABLE WARNINGS (YELLOW)	SF	120						PH (32 - PH (772
550-60-236 570-1-2	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 24'-30' OPENING PERFORMANCE TURF, SOD (MATCH EXISTING)	EA SY	2 3,200		Y		ב ¢ כ	3	Melbourne, FL - FT. Pierce, FL - F
580-4343	LANDSCAPE- PALMS, SABAL PALMETTO, 9'-12- CLEAR TRUNK	EA	11					N C	MELBO FT. PIE
580-5223 580-5-242	LANDSCAPE- TREES, LIVE & LAUREL OAK, QUERCUS VIRGIANIANA & LAURIFOLIA, 11'-14' OVERALL HEIGHT LANDSCAPE- TREES, NATCHEZ CREPE MYRTLE & SILVER BUTTONWOOD, 6' OVERALL HEIGHT	EA EA	13						
580-5-242 580-5783	LANDSCAPE- TREES, TAXODIUM ASCENDENS, POND CYPRESS, 11'-14' OVERALL HEIGHT	EA	2	"		⊸ L ▶ L			
580-5-67 590-1	LANDSCAPE- SMALL SHRUB, SPECIFIED, 7 GALLON LANDSCAPE- IRRIGATION SYSTEM, MODIFICATION	EA LS	125) 10 10	2960 35 17
700-1-11	SINGLE SIGN POST, UP TO 12 SF	AS	10				<u>א</u> כ כ	IL TIN TH STRE	CH, FL 3) 569-00) 778-36
710-90 710-90	PAINTED PAVEMENT MARKINGS (808 LF 4" PARKING STALL STRIPES) PAINTED PAVEMENT MARKINGS (50 LF 6" DOUBLE YELLOW STRIPES)	LS LS	1			Z		ONSU 1835 - 201	RO BEAG PH. (772) FX. (772)
711-11-123	THERMOPLASTIC, PAVEMENT MARKINGS, STANDARD SOLID WHITE, 12"	LF	253						<pre>Ket</pre>
711-11-125 711-11-160	THERMOPLASTIC, PAVEMENT MARKINGS STANDARD, SOLID WHITE, 24" THERMOPLASTIC, PAVEMENT MARKINGS, SYMBOL	LF EA	84	-					
711-11-170 715-4-70	THERMOPLASTIC, PAVEMENT MARKINGS, ARROW LIGHT POLE AND ELECTRIC BOX COMPLETE, REMOVAL	EA EA	6 2	_					
1050-31202	UTILITY PIPE-POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER, 2"	LF	240	_		\sim	S Ш		
1050-31206	UTILITY PIPE-POLY VINYL CHLORIDE, FURNISH & INSTALL, SEWER, 6"	LF	55	-		AND	UANTITI		
1060-11211 1080-21102	UTILITY STRUCTURE, BELOW GROUND, FURNISH & INSTALL, STORM, 0-6' (500 GAL OIL/WATER INTERCEPTOR) UTILITY FIXTURE - VALVE, FURNISH & INSTALL, 2"	EA EA	1	-		A W	Z		
1080-23102	UTILITY FIXTURE - TAPPING SADDLE, FURNISH & INSTALL,2"	EA	1	_		S Ш	A U		
1080-23106	UTILITY FIXTURE - TAPPING SADDLE/SLEEVE, FURNISH & INSTALL,6" WITH 2" CORP STOP UNDERGROUND UTILITY - MISC., EXISTING 4" FM ABANDONED IN PLACE	EA LF	1 122	_		NO	Д Д		
an off no 102-1 Ma cu for ea do	SUMMARY OF PAY ITEMS obilization: The lump sum price paid includes, but is not limited, to, all costs associated with insurance, bonds, required permits and fees, prepara d submittal of FDEP Notice of Intent (NOI) and Notice of Termination (NOT), Shop Drawings and Submittals, moving onto the job (mobilization), mo the job (demobilization), project phasing, supervision, coordination of concurrent work with other contractors, meetings, surveying, resetting su numents, videotaping site prior to start of work, potholing, "as-built" plans, and clean up of work indicated in the contract documents. aintenance of Traffic: Includes, but is not limited to, barrier walls, vertical panels, attenuators, temporary striping, including temporary striping for 30 ree period, construction signs, business signs, message boards, barricades, permanent relocation of signs and all other traffic incidental items requ the maintenance of traffic on a 24 hour / 7 day basis. Variable changing message sign shall be in place 2 weeks prior to all road closings, all cost ch phase of work and the overall project shall be included. Cost shall include any drainage elements beyond what is specified in the con cuments, and all items necessary to meet the maintenance of traffic requirements of the Florida Department of Transportation as prescribed in server 2-1 of the FDOT Standard Plans. Included MOT plans prepared for each phase of work and the overall project.	oving irvey day uired s for tract				GENERA	SUMMARY		
dra pip exi Sa for	earing and Grubbing: The lump sum price paid included but not limited to vegetation, topsoil & shrubs removal, saw cut and/or removal of exist ainage structures, piping, flexible pavement, curb, the removal of existing guardrail and chain link fencing, poles, fence and the removal of exist wes, headwalls and/or structures. Work also includes relocation of existing drainage structures, if applicable. Where existing pipes are removed and sting structure remains, the resulting hole shall be formed and repaired with concrete. The contractor shall comply with the State of Florida Tru- fety Act. Clearing and grubbing does not include the removal of the existing trees or sidewalks. Contractor is to refer to pay item 110-23 and 110- tree and sidewalk removal. Clearing and grubbing does not include demolition of buildings. Refer to architectural plans and documents for buil molition quantities, and information.	sting d the ench 4-10		\vdash					FLORIDA
pla uti	e unit price paid per cubic yard includes all costs for excavation shown on the plans, protection and relocation of substructures (if applicble), acing excavated fill on site in applicable areas. This quantity represents the net balance of cut/fill for the site and assumes all excavated material ca lized for fill areas on site, but shall be verified by the selected geotechincal consultant. Any excess fill shall be removed from the site at contrac pense.	n be				S FAC	COUNTY		
160-4 B Inc	cludes 6" thick stabilization for car parking areas, sidewalks and service yard areas. Sludes 12" thick stabilization for washrack and building approach apron areas. 7" concrete shall be fiber reinforced and minimum 4,000 psi strength. Includes washrack and building approach slab.					LION			
	6" concrete shall be fiber reinforced and minimum 3,000 psi strength. Includes on-site and off-site sidewalks, and lay-down area.					A	RIVER		
fro 590-1 Civ	ist to include, sod, fertilizer, mowing, watering, tools, equipment, pegging, labor and all incidental items necessary. Sod to be placed at 2' thick m edge of trails and driveway and over disturbed areas. /il plans do not reflect Irrigation plan for any modifications needed for the project, but advise contractor that modifications to the existing irriga stem will be required and shall coordinate with a licensed irrigation consultant for this service. Bid shall include costs for this service.					RAFFIC OPERATIONS FACI	INDIAN RI		COUNTY
						NEW T	FOR		INDIAN RIVER
					PROCESSION G.E. #72	ر کر C No. ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵	E <i>NS</i> 7246 * TE OF RIDA AL E	0	
	BID SET 06/30/2023					C	;2	•	
re: All B	ELEVATIONS IN N.A.V.D. 1988					21-	0082		





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Legal Description

BEING A PARCEL OF LAND LYING IN TRACT 8, SECTION 28, TOWNSHIP 32 SOUTH, RANGE 39 EAST, ACCORDING TO THE LAST GENERAL PLAT OF LANDS OF THE INDIAN RIVER FARMS COMPANY SUBDIVISION, AS RECORDED IN PLAT BOOK 2, PAGE (S) 25, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, SAID LANDS NOW LYING AND BEING IN INDIAN RIVER COUNTY, FLORIDA. SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST ONE QUARTER CORNER OF SAID SECTION 28, SAID CORNER ALSO BEING THE SOUTHEAST CORNER OF SAID TRACT 8, THENCE NORTH 89°39'28" WEST, ALONG THE SOUTH LINE OF SAID NORTHEAST ONE QUARTER AND TRACT 8, A DISTANCE OF 980.40 FEET TO THE SOUTHWEST CORNER OF THE EAST 30.0 ACRES OF SAID TRACT 8; THENCE DEPARTING SAID SOUTH LINE, NORTH 00°18'46" EAST, ALONG THE WEST LINE OF SAID EAST 30.0 ACRES, A DISTANCE OF 40.00 FEET TO A POINT IN THE NORTH RIGHT OF WAY LINE OF 41st STREET (SOUTH GIFFORD ROAD) PER DEED BOOK 97, PAGE 440, PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA, SAID POINT BEING POINT OF BEGINNING OF THE FOLLOWING DESCRIBED PARCEL:

THENCE NORTH 89°39'28" WEST, ALONG SAID NORTH RIGHT OF WAY LINE (SAID LINE BEING 40.0 FEET NORTH OF, AS MEASURED AT RIGHT ANGLES TO, THE SOUTH LINE OF SAID NORTHEAST ONE QUARTER) A DISTANCE OF 365.63 FEET TO THE WEST LINE OF SAID TRACT 8 (SAID LINE ALSO BEING THE EAST LINE OF THE PLAT OF PALM GARDENS, AS RECORDED IN PLAT BOOK 4, PAGE 6, OF THE PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA); THENCE NORTH 00°19'52" EAST, ALONG THE WEST LINE OF SAID TRACT 8 AND EAST LINE OF SAID PLAT OF PALM GARDENS, A DISTANCE OF 1291.72 FEET TO THE NORTHWEST CORNER OF SAID TRACT 8 (SAID CORNER ALSO BEING THE NORTHEAST CORNER OF SAID PLAT OF PALM GARDENS) THENCE SOUTH 89°44'18" EAST, ALONG THE NORTH LINE OF SAID TRACT 8, A DISTANCE OF 365.21 FEET TO THE NORTHWEST CORNER OF THE EAST 30.0 ACRES OF SAID TRACT 8; THENCE SOUTH 00°18'46" WEST, ALONG THE WEST LINE OF SAID EAST 30.0 ACRES, A DISTANCE OF 1292.24 FEET TO THE NORTH RIGHT OF WAY LINE OF SAID 41st STREET (SOUTH GIFFORD ROAD) AND THE POINT OF BEGINNING.

CONTAINING 472,113.94 SQUARE FEET (10.84 ACRES±)

Surveyors Notes

- 1. THIS BOUNDARY AND TOPOGRAPHIC SURVEY WAS PREPARED FOR THE PURPOSE OF ADDING NEW BUILDINGS WITHIN THE TRAFFIC OPERATIONS FACILITY AT THE INDIAN RIVER COUNTY MUNICIPAL COMPLEX.
 - 2. THE BEARINGS SHOWN HEREON ARE BASED ON THE 1983 NORTH AMERICAN DATUM, 2011 ADJUSTMENT, AND PROJECTED IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE. THIS SURVEY WAS TIED TO THE FLORIDA PERMANENT REFERENCE NETWORK (MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION'S SURVEY DEPARTMENT) DERIVING A GRID BEARING OF N89°39'28"W ALONG THE SOUTH LINE OF THE NORTHEAST ONE QUARTER SECTION 28, TOWNSHIP 32 SOUTH, RANGE 39 EAST, OF THE LAST GENERAL PLAT OF THE LANDS OF THE INDIAN RIVER FARMS COMPANY (I.R.F.C. LAST GENERAL PLAT), AS RECORDED IN PLAT BOOK 2, PAGE 25, OF THE PUBLIC RECORDS OF St. LUCIE COUNTY, FLORIDA.
 - 3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE POLICY. THEREFORE THERE MAY BE EASEMENTS, RESTRICTIONS AND/OR RESERVATIONS NOT SHOWN HEREON, BUT FOUND IN THE PUBLIC RECORDS.
 - 4. SYMBOLS SHOWN HEREON DEPICT THE HORIZONTAL POSITION OF THAT SPECIFIC IMPROVEMENT. THE SYMBOLS (FOR GRAPHICAL PURPOSE) ARE NOT DRAWN TO SCALE. PARKING STALLS AS SHOWN WERE DIGITIZED FROM AN AERIAL PHOTOGRAPH.
 - 5. THE FIELD WORK FOR THIS SURVEY WAS COMPLETED BY INDIAN RIVER COUNTY PERSONNEL ON THE DATE OF JUNE 23, 2021. ONLY THOSE TOPOGRAPHIC FEATURES AND IMPROVEMENTS SHOWN HEREON WERE LOCATED PER THE SCOPE OF THIS SURVEY.
 - 6. THIS SURVEY MEETS AND/OR EXCEEDS THE ACCURACY REQUIREMENTS PER CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE. THE HORIZONTAL CONTROL POINTS USED TO CREATE THIS SURVEY WERE VERIFIED BY MULTIPLE OBSERVATIONS.
 - 7. THE MEASUREMENTS FOR THIS SURVEY WERE MADE UTILIZING CONVENTIONAL AND REAL TIME KINEMATIC SURVEYING METHODS WITH THE FOLLOWING EQUIPMENT: LEICA VIVA GLOBAL POSITIONING SYSTEM, A LEICA NA AUTOMATIC LEVEL AND A TOPCON GTS 500 ROBOTIC TOTAL STATION WITH MAGNET SOFTWARE.
 - 10. ALL DISTANCES SHOWN HEREON ARE EXPRESSED IN U.S. SURVEY FEET.
 - 11. SHEET 2 OF THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"=50' OR SMALLER. SHEET 3 IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"=30' OR SMALLER.
 - 12. THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE INDIAN RIVER COUNTY VERTICAL CONTROL NETWORK (I.R.C.V.C.N.) AND ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88). ALL BENCHMARKS IN THE I.R.C.V.C.N. MEET OR EXCEED THE ACCURACY REQUIRED PER CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE. THIS EXHIBIT WAS TIED TO INDIAN RIVER COUNTY BENCHMARK'S, "BM065031" (EL.=23.15') AND "BM576003" (EL.=23.98'). ELEVATIONS SHOWN HEREON HAVE A RELATIVE POSITION ACCURACY OF 0.3 FOOT, MORE OR LESS FOR GROUND SHOTS AND 0.1 FEET, MORE OR LESS FOR HARD SURFACES.
 - 13. THE BURIED WATERMAIN AND WATER SERVICE LINES SHOWN HEREON WERE PLOTTED UTILIZING AN ENGINEERING ESIGN PLAN ENTITLED "PAVING. DRAINAGE AND UTILITY PLAN FOR INDIAN RIVER COUNTY ROAD AND BRIDGE AND TRAFFIC ENGINEERING MAINTENANCE COMPLEX" AND WATER VALVES AND WATER METERS LOCATED BY INDIAN RIVER COUNTY PERSONNEL, WHICH ARE SHOWN ON THE PLANS, THE DESIGN PLANS WERE CREATED BY MASTELLER & MOLER, INCORPORATED, ON THE DATE OF JUNE 25, 2002.
 - 14. THE FOUNDATIONS OF ALL EXISTING BUILDINGS SHOWN HEREON, WERE NOT LOCATED.

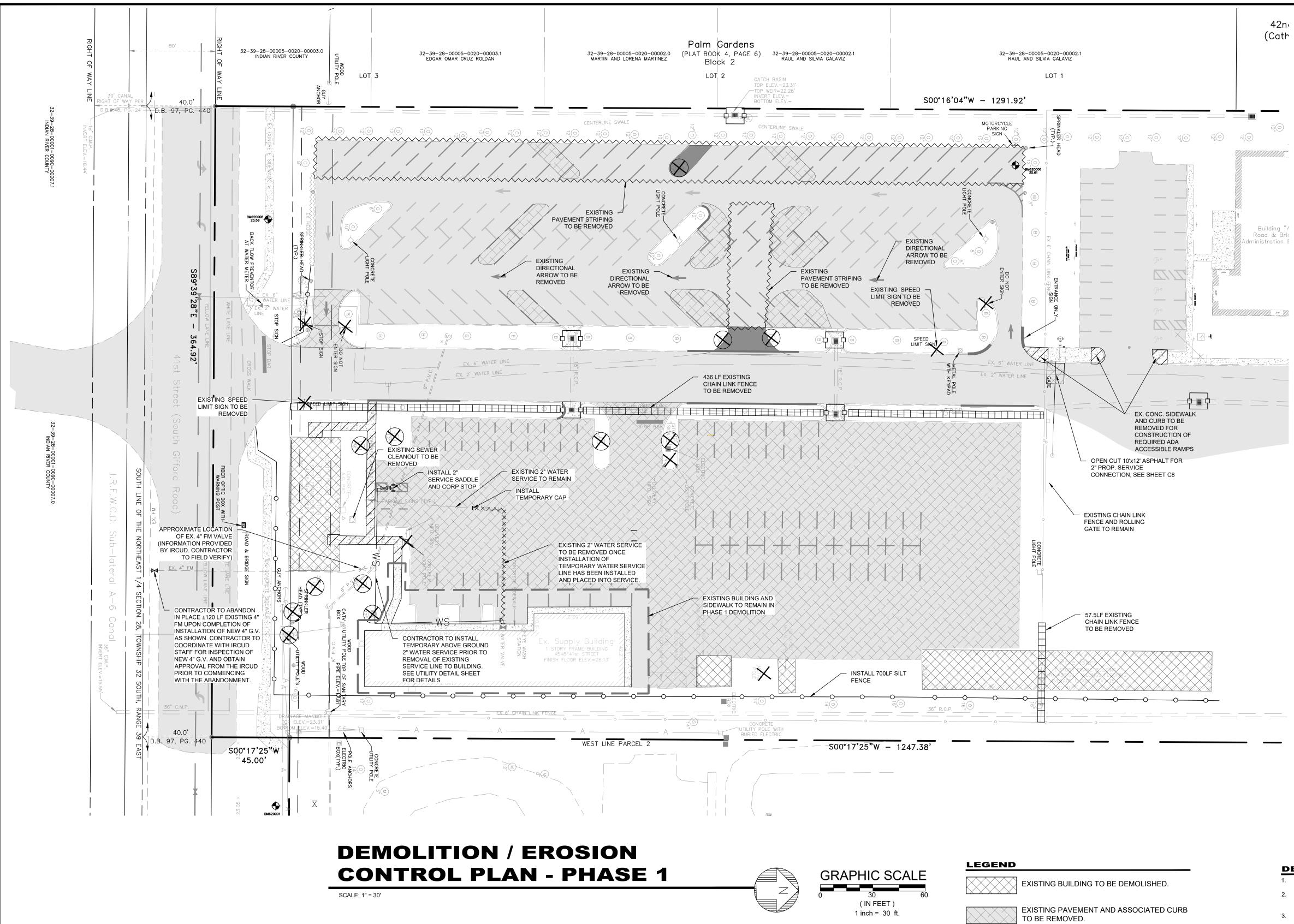
03-10 SJR IRC -10.04001H | SS S 0 \cap ()DNI' S $\overline{\mathbf{X}}$ 111 E FACI Ζ OPERATIONS F AN RIVER COUN TRAFFIC FOR INDIA ≥ ∭

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21-0082

BID SET 06/30/2023

NOTE: ALL ELEVATIONS IN N.A.V.D. 1988





LEGEND	
	EXISTING BUILDING TO BE DEMOLISHED.
	EXISTING PAVEMENT AND ASSOCIATED CURE TO BE REMOVED.
	EXISTING CONCRETE TO BE REMOVED.
	EXISTING LANDSCAPE TO BE PAVED.
\bigotimes	EXISTING TREE TO BE REMOVED.
\times	EXISTING LIGHTING AND PULL BOX TO BE REMOVED ALONG WITH ALL ASSOCIATED CONDUIT AND WIRING, SIGNAGE AND FLAG POLE TO BE REMOVED.
-0	PROPOSED SILT FENCE
	PROPOSED INLET PROTECTION
	ADDITIONAL CURB TO BE REMOVED

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inistration [

SEE NOTE NO. 4 BELOW UNDER THE DEMOLITION NOTES FOR SPECIAL INSTRUCTIONS FOR ROPOSED DEMOLITION AREAS THAT WILL RECEIVE EITHER SOD OR LANDSCAPING POST DEMOLITION

DEMOLITION NOTES: 1. ALL DEMOLISHED MATERIALS (I.E. SIGNS, CONCRETE, ASPHALT, ETC...) TO

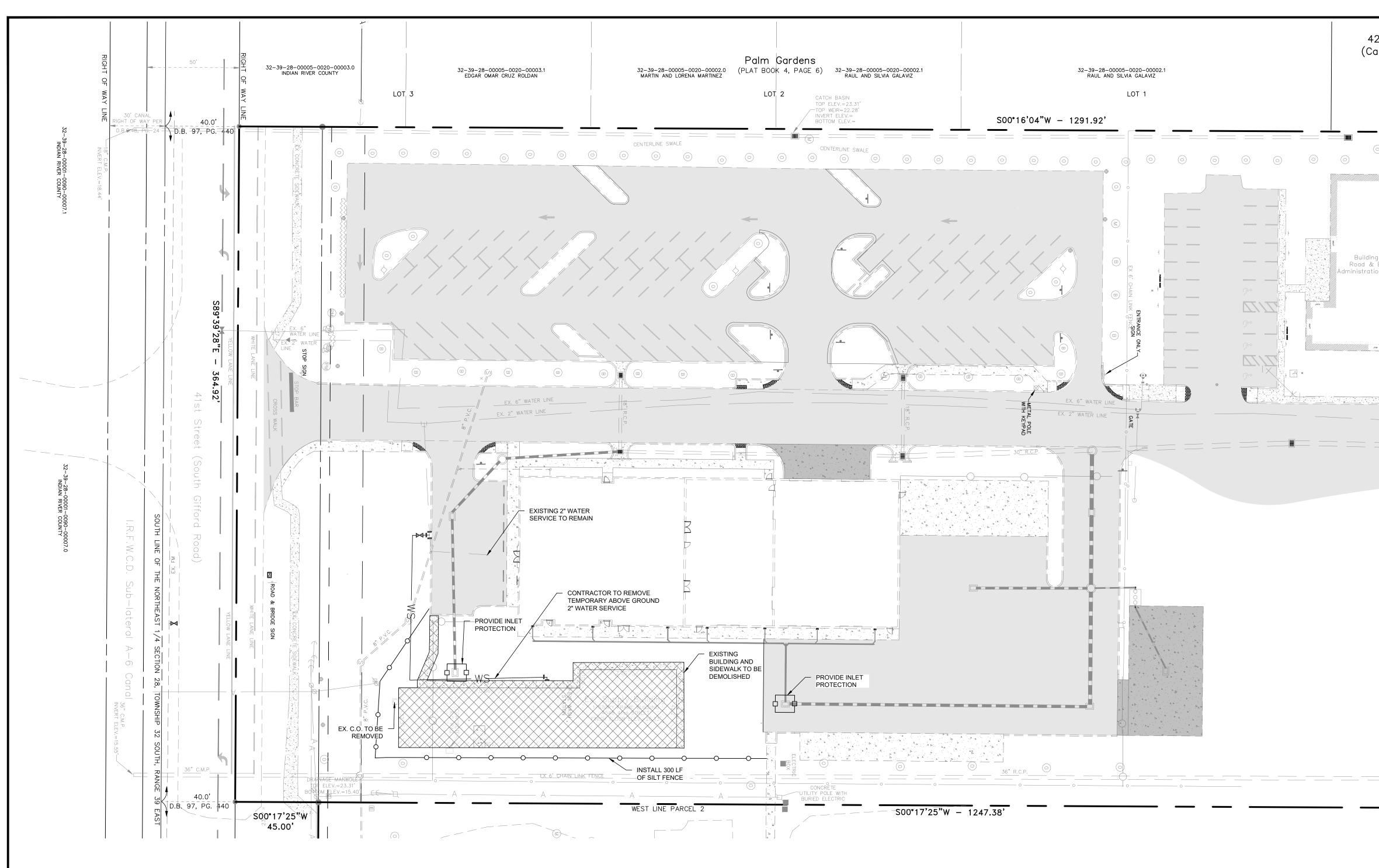
- BE REMOVED AND DISPOSED OF IN A LEGAL MANNER. 2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL
- UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, BY CALLING SUNSHINE ONE AT 811. 3. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR THE
- FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE INDIAN RIVER COUNTY MUNICIPAL CODE, WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.
- 4. IN ADDITION TO DEMOLITION OF BUILDINGS, CONCRETE AND ASPHALT AS SHOWN, CONTRACTOR SHALL EXCAVATE AND REMOVE 2 FT OF THE SOIL UNDERNEATH THOSE DEMOLISHED AREAS THAT WILL NO LONGER SUPPORT IMPERVIOUS SURFACE AND WILL BE CONVERTED TO EITHER SOD OR LANDSCAPED AREAS. CONTRACTOR TO REPLACE EXCAVATED AREAS TO IN SITU SOIL CONDITION REPRESENTATIVE OF THE SURROUNDING AREA AND SOD/LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE PLAN.

BID SET 06/30/2023

NOTE: ALL ELEVATIONS IN N.A.V.D. 1988

I	1 1	1 1	04-11-2022	03-28-2022	01-06-2022	DATE
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21-0082	H_	SS	NOVEMBER 2021		AS	6/30/2023
JOB NO.	DESIGNED	DRAWN	DATE		CHECKED	DATE ISSUED
			ジャニ・クァニとココトニクトコ	MOIA BOWLES VILLAMIZAR & ASSOCIATES	CONSULTING ENGINEERING CA #5728 1835-20TH STREET	VERO BEACH, FL 32960 PH. (772) 569-0035 F.X. (772) 778-3617 FT. PIERCE, FL - PH (772) 468-9055
				PI AN - PHASF 1		
		NEW TRAFFIC OPERATIONS FACILITY	FOR INDIAN RIVER COLINTY			IDIAN RIVER COUNTY
AARO FL. P	PRO 1000000000000000000000000000000000000	STA <i>FLO</i> <i>S/ON</i> STANT 2460	EN EN 724 ★ TE RID AL	۲۲ 60 OF	000	
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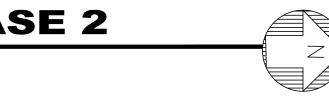
21-0082



DEMOLITION / EROSION CONTROL PLAN - PHASE 2

SCALE: 1" = 30'

72 HOURS BEFORE DIGGING CALL TOLL FREE Know what's **below**. Call before you dig.



	GR/	APHI	C SC	ALE
\nearrow				
A	0	3	0	60
		(IN	FEET)	
		1 inch	n = 30 ft	

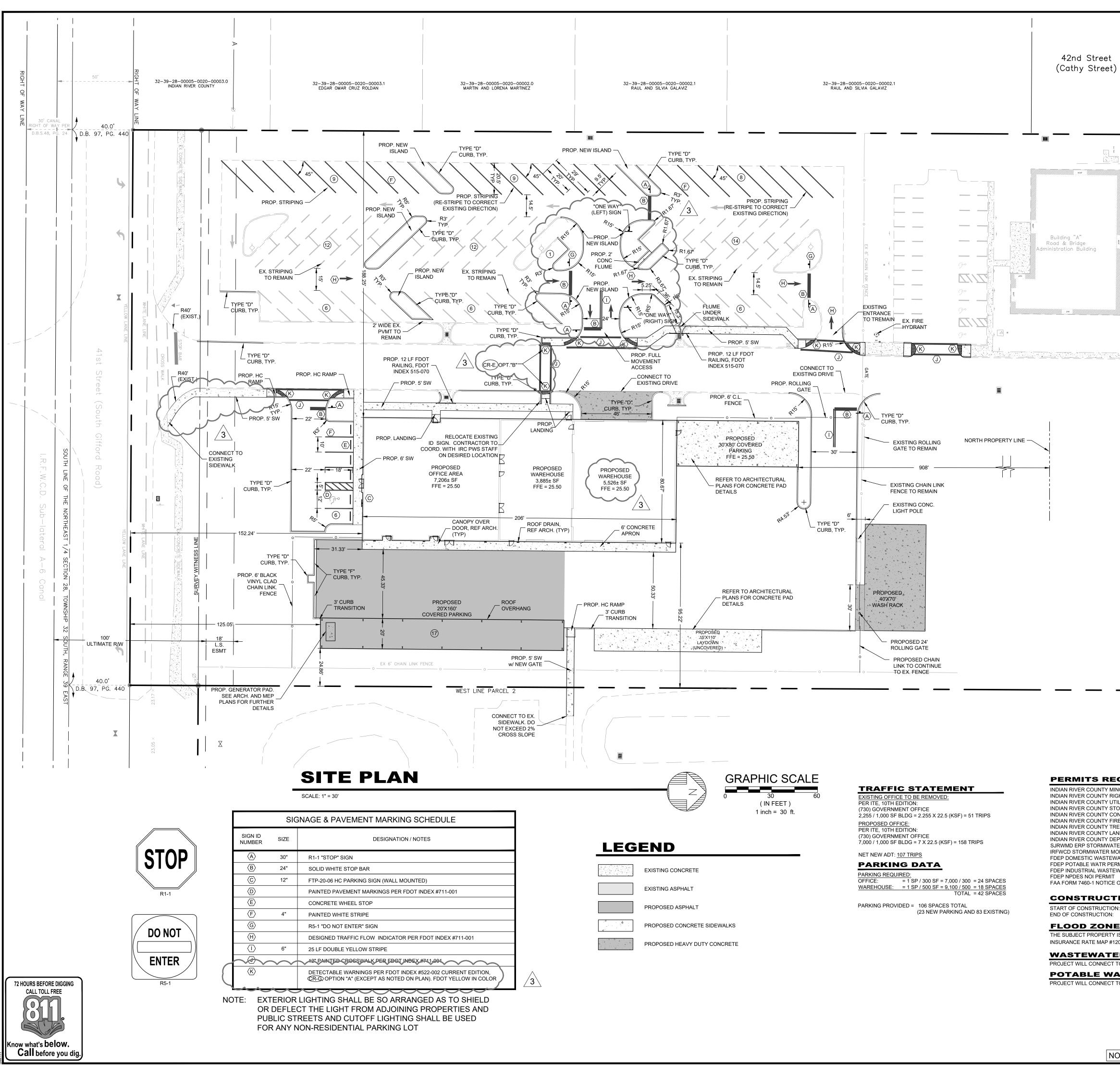
LEGEND

	EXISTING BUILDING TO BE DEMOLISHED.
-0	PROPOSED SILT FENCE
	PROPOSED INLET PROTECTION

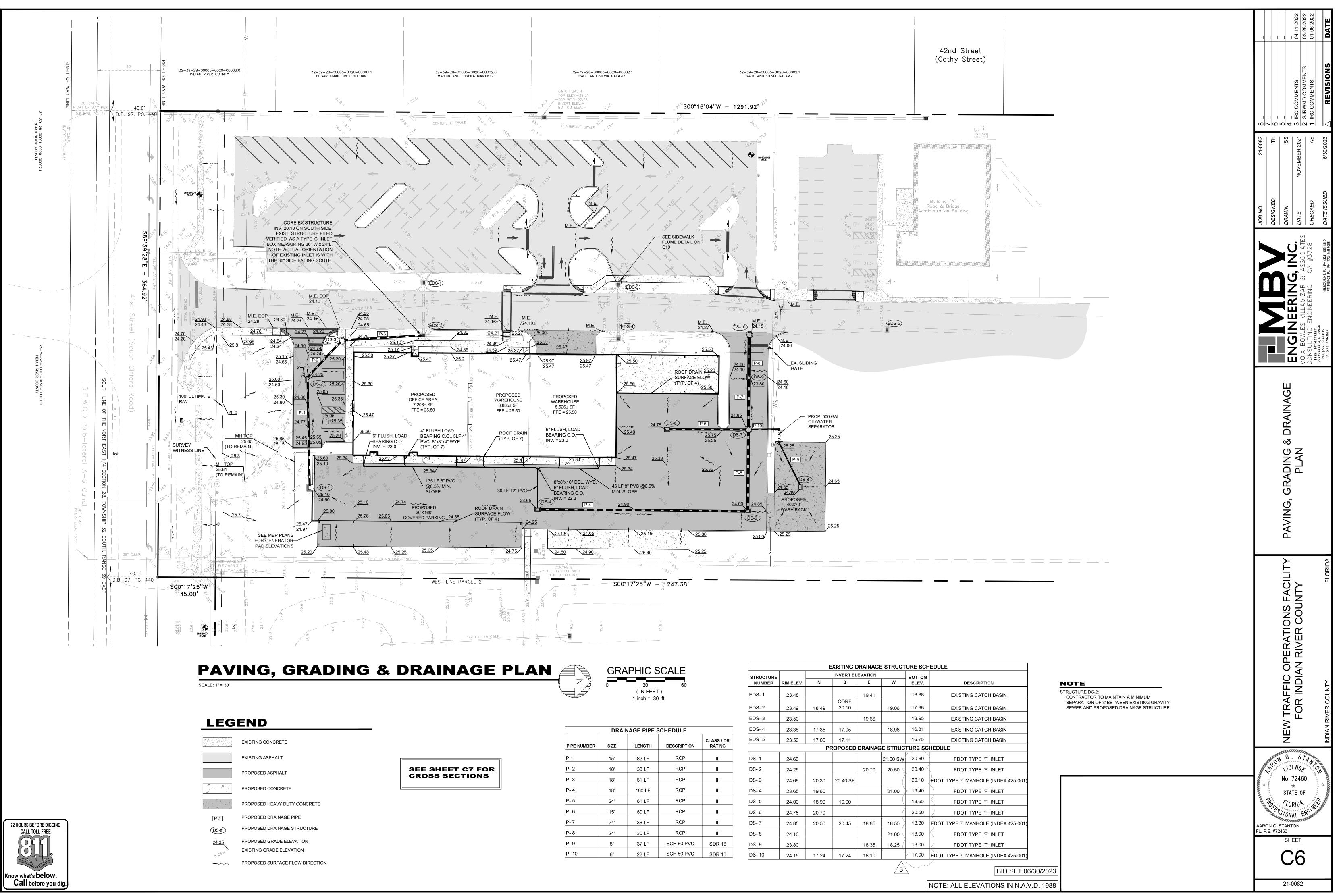
DEMOLITION NOTES:

- 1. ALL DEMOLISHED MATERIALS (I.E. SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER.
- 2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, BY CALLING
- SUNSHINE ONE AT 811. 3. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE INDIAN RIVER COUNTY MUNICIPAL CODE, WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.
- 4. IN ADDITION TO DEMOLITION OF BUILDINGS, CONCRETE AND ASPHALT AS SHOWN, CONTRACTOR SHALL EXCAVATE AND REMOVE 2 FT OF THE SOIL UNDERNEATH THOSE DEMOLISHED AREAS THAT WILL NO LONGER SUPPORT IMPERVIOUS SURFACE AND WILL BE CONVERTED TO EITHER SOD OR LANDSCAPED AREAS. CONTRACTOR TO REPLACE EXCAVATED AREAS TO IN SITU SOIL CONDITION REPRESENTATIVE OF THE SURROUNDING AREA AND SOD/LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE PLAN.

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ng "A" : Bridge ion Building	JOB NO. 21-0082	DESIGNED TH	DRAWN SS	NOVEMBER 2		DATE ISSUED 6/30/2023
SEE NOTE NO. 4 BELOW UNDER THE DEMOLITION NOTES FOR SPECIAL INSTRUCTIONS FOR ROPOSED DEMOLITION AREAS THAT WILL RECEIVE EITHER SOD OR LANDSCAPING POST DEMOLITION				A BOWLES VILLAMIZAR & ASSOCIATES	CA #3/20	PH. (772) 569-0035 MELBOURNE, FL - PH (321) 253-1510 DA FT. PIERCE, FL - PH (772) 468-9055
CONTRACTOR TO REFER TO CIVIL PLANS C5-C14 FOR BUILD-OUT UPON COMPLETION OF PHASE 2 DEMOLITION AREA				PLAN - PHASE 2		
			NEW TRAFFIC OPERATIONS FACILITY			INDIAN RIVER COUNTY FLORIDA
		P.E. #72	No. 5 STA STA S/ON/ STANT 2460 SHI	EET		
BID SET 06/30/2023 E: ALL ELEVATIONS IN N.A.V.D. 1988		(4b)	



	PROJECT INFORM	ATION			022)22)22	
reet	4548 41ST STREET II VERO BEACH, FL 32967 1	OWNER/APPLICA NDIAN RIVER COUNTY PUBLIC WOR 801 27TH STREET /ERO BEACH, FL 32960		1 1 1	- - 04-11-2022 03-28-2022 01-06-2022	DATE
reet)	MBV ENGINEERING, INC. I 1835 20TH STREET S VERO BEACH, FL 32960	ARCHITECT DONADIO & ASSOCIATES, INC. 2001 9TH AVENUE, SUITE 308 VERO BEACH, FL 32960 PH: 772-794-2929			- - IRC COMMENTS SJRWMD COMMENTS IRC COMMENTS	REVISIONS
λε νθ 	ENGINEERING DIVISION 1801 27TH STREET VERO BEACH, FL 32960			8 9	5 - 3 IRC 2 SJR 1 IRC	
	PH: 772-567-8000 TAX PARCEL I.D. N 32-39-28-00001-0080-00001.0 ZONING IL LATITUDE 27°38'8.3688" B0°23'21.6096"	JSE		21-0082 TH	SS NOVEMBER 2021 AS	6/30/2023
	PROJECT DESCRIP THIS PROJECT IS TO SUPPORT THE IN DEPARTMENT LOCATED AT 4548 41 ST DEMOLITION OF THE EXISTING TRAFFI SUPPLY WAREHOUSE AND CONSTRUC BUILDING AND SUPPLY / WAREHOUSE	DIAN RIVER COUNTY TRAFFIC OPEN STREET. THE PROJECT PROPOSES C OPERATIONS OFFICE BUILDING A CTION OF A NEW OPERATIONS OFFI	S ND	JOB NO. DESIGNED	DRAWN DATE CHECKED	DATE ISSUED
	SITE DATA) 253-1510 468-9055
	TOTAL PARCEL SITE AREA EXISTING ROAD & BRIDGE OFFICE EXISTING ROAD & BRIDGE SUPPLY BLD EXISTING ROAD & BRIDGE COVERED PL EXISTING TRAFFIC OPS OFFICE EXISTING TRAFFIC OPS SUPPLY BLDG. EXISTING TRAFFIC OPS POLE BARN EXISTING ASPHALT EXISTING CONCRETE EXISTING STABILIZED PARKING		% 100.00 % 1.37 % 0.72 % 0.99 % 0.48 % 1.14 % 0.81 % 35.28 % 1.03 % 12.47 %	N B N	EERING, IN VILLAMIZAR & ASSO INGINEERING CA #3	MELBOURNE, FL - PH (321) 253-1510 FT, PIERCE, FL - PH (772) 468-9055
	TOTAL IMPERVIOUS AREA TOTAL PERVIOUS AREA TOTAL WET POND (AT CONTROL) PROPOSED SITE DATA	256,363 SF 5.88 AC 126,889 SF 2.92 AC 88,862 SF 2.04 AC	54.29 % 26.89 % 18.82 %		ENGIN MOIA BOWLES CONSULTING E	833 - 2017 - 2017 - 2017 - 2016 ERO BEACH, FL 32960 PH. (772) 569-0035 FX. (772) 778-3617
	TOTAL PARCEL SITE AREA <u>IMPERVIOUS DEMOLITION:</u> EXISTING TRAFFIC OPS OFFICE EXISTING TRAFFIC OPS SUPPLY BLDG. EXISTING TRAFFIC OPS POLE BARN EXISTING ASPHALT EXISTING CONCRETE EXISTING STABILIZED PARKING TOT	SF AC 472,114 SF 10.84 AC (-) 2,255 SF 0.05 AC (-) 5,375 SF 0.12 AC (-) 3,835 SF 0.09 AC (-) 50,055 SF 1.15 AC (-) 2,253 SF 0.05 AC (-) 2,070 SF 0.05 AC (-) 2,070 SF 0.05 AC (-) 2,853 SF 0.06 AC AL (-) 66,443 SF (-)1.52 AC	% 100.00 % 0.48 % 1.14 % 0.81 % 10.60 % 0.44 % 0.60 % 14.07%			- E
	EXISTING IMPERVIOUS TO REMAIN: EXISTING ROAD & BRIDGE OFFICE EXISTING ROAD & BRIDGE SUPPLY BLD EXISTING ROAD & BRIDGE COVERED PL EXISTING ASPHALT EXISTING CONCRETE EXISTING STABILIZED PARKING TOT PROPOSED IMPERVIOUS:	RKG. 4,690 SF 0.11 AC 116,713SF 2.67 AC 2,815 SF 0.06 AC 56,032 SF 1.29 AC AL 190,106 SF 4.36 AC	1.37 % 0.72 % 0.99 % 24.68 % 0.60 % <u>11.87 %</u> 40.23 %		re plan	
	NEW TRAFFIC OPS OFFICE NEW TRAFFIC OPS SUPPLY BLDG. NEW TRAFFIC OPS COVERED PRKG. NEW ASPHALT NEW CONCRETE FUTURE ROAD & BRIDGE POLE BARN TOT	7,206 SF 0.17 AC 9,411 SF 0.22 AC 5,600 SF 0.13 AC 32,812 SF 0.74 AC 8,681 SF 0.20 AC <u>3,853 SF 0.09 AC</u> AL 67,563 SF 1.55 AC	1.53 % 1.99 % 1.19 % 6.95 % 1.84 % <u>0.82 %</u> 14.31 %		S.	
	TOTAL PERVIOUS AREA TOTAL WET POND (AT CONTROL) NET NEW IMPERVIOUS	125,583 SF 2.89 AC 88,862 SF 2.04 AC 472,114 SF 10.84 AC (+) 1,306 SF (+) 0.03 AC	26.68 % <u>18.82 %</u> 100% 0.27 %			
	ZONING DATA				Σ	FLORIDA
	LOT SIZE15,0LOT WIDTH100BUILDING SETBACKS**100FRONT (SOUTH)2SIDE (EAST)1SIDE (WEST)1REAR (NORTH)2BUILDING COVERAGE40%OPEN SPACE15%BUILDING HEIGHT35' I	OO SF (MIN) 472,190 SF NO C 0' MIN. 365.63' NO C 25' 44.2' 12 0' 29.8' 24 0' 191.3' 18 20' 714.46' 9 MIN. 5.51% (26,001SF) 8.6 MIN. 29.06% 28 MAX. 35' MAX. 35	POSED HANGE HANGE 25.05' 8.86' 18.25' 08' 50% (40,616 SF) .74% MAX. .06 RE WALL TO		ERATIONS FACIL RIVER COUNTY	FLO
JNTY MINOR SITE PLAN APPROVAL JNTY RIGHT-OF WAY PERMIT JNTY UTILITIES PERMIT	DRAINAGE STATE				11	
JNTY STORMWATER PERMIT JNTY CONCURRENCY APPROVAL (INITIAL / FINAL) JNTY FIRE REVIEW JNTY TREE REMOVAL PERMIT JNTY LAND CLEARING PERMIT JNTY DEPARTMENT OF HEALTH (WASHRACK O/W SEPARATOR DRMWATER MODIFICATION ATER MODIFICATION VASTEWATER PERMIT ATR PERMIT WASTEWATER PERMIT (WASHRACK O/W SEPARATOR) PERMIT NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION	MASTER STORMWATER SYSTEM. STO WILL BE ROUTED TO THE EXISTING DF OPERATIONS SITE AND WILL BE ROUT DETENTION SYSTEM. THE PROPOSED IMPERVIOUS AREA BY 1,306 SF (0.27%)	RMWATER ASSOCIATED WITH THIS RAINAGE PIPING SYSTEM INTERIOR ED TO THE EXISTING ON-SITE WET PROJECT WILL INCREASE THE PAR). THIS MINOR INCREASE IS CONSII SIONS TO THE EXISTING WET DETE RE REQUIRED. DRAINAGE BASIN: 24.1 A: 14.9 THIS PROJECT: 10.3	PROJECT TO THE CEL'S DERED NTION 8 AC 0 AC 6 AC		NEW TRAFFIC OF FOR INDIAN	INDIAN RIVER COUNTY
UCTION SCHEDULERUCTION:MAY 2022CTION:MAY 2023				Marrie ARON	G.STAN (CENSS	
DPERTY IS LOCATED IN FLOOD ZONE 'X' PER FLOOD MAP #12061C0241 H, DATED DEC. 4, 2012. ATER SOURCE NNECT TO THE EXISTING ON-SITE IRCUD GRAVITY SEWER M/ E WATER SOURCE NNECT TO THE EXISTING ON-SITE IRCUD WATERMAIN	NN			AARON G. S FL. P.E. #72	No. 72460 STATE OF ZORIDA S/ONAL ENGIN	
					C5	
BID SET 06/30/202	23					



LEG	END	
	EXISTING CONCRETE	
	EXISTING ASPHALT	[
	PROPOSED ASPHALT	SEE SHEE CROSS SE
4 	PROPOSED CONCRETE	
алан (Б ² алан) Балан (Балан) Балан (Балан) Салан (Балан)	PROPOSED HEAVY DUTY CONCRETE	
P-#	PROPOSED DRAINAGE PIPE	
DS-#	PROPOSED DRAINAGE STRUCTURE	
<u>24.35</u>	PROPOSED GRADE ELEVATION	
× 25.4	EXISTING GRADE ELEVATION	
	PROPOSED SURFACE FLOW DIRECTION	

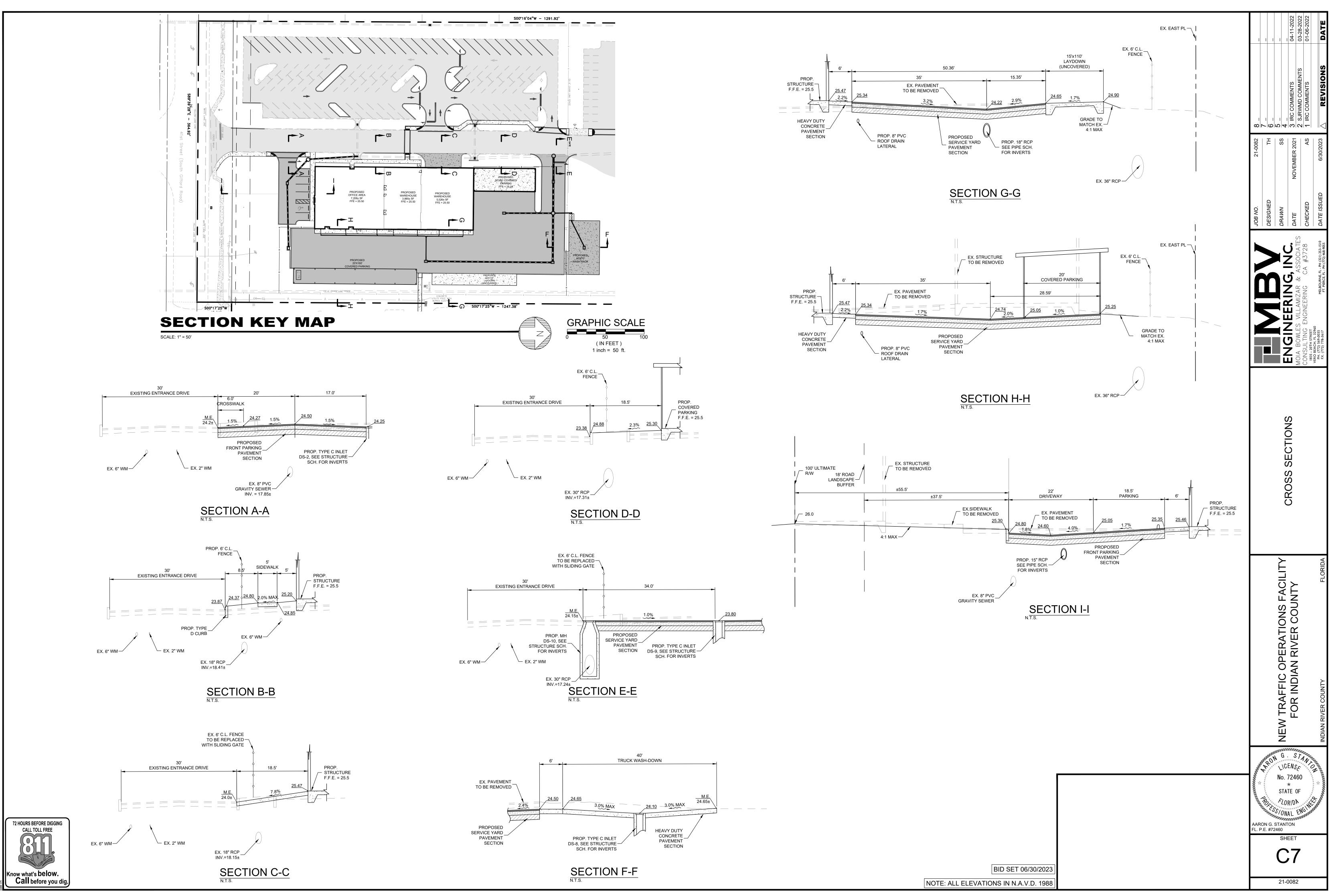


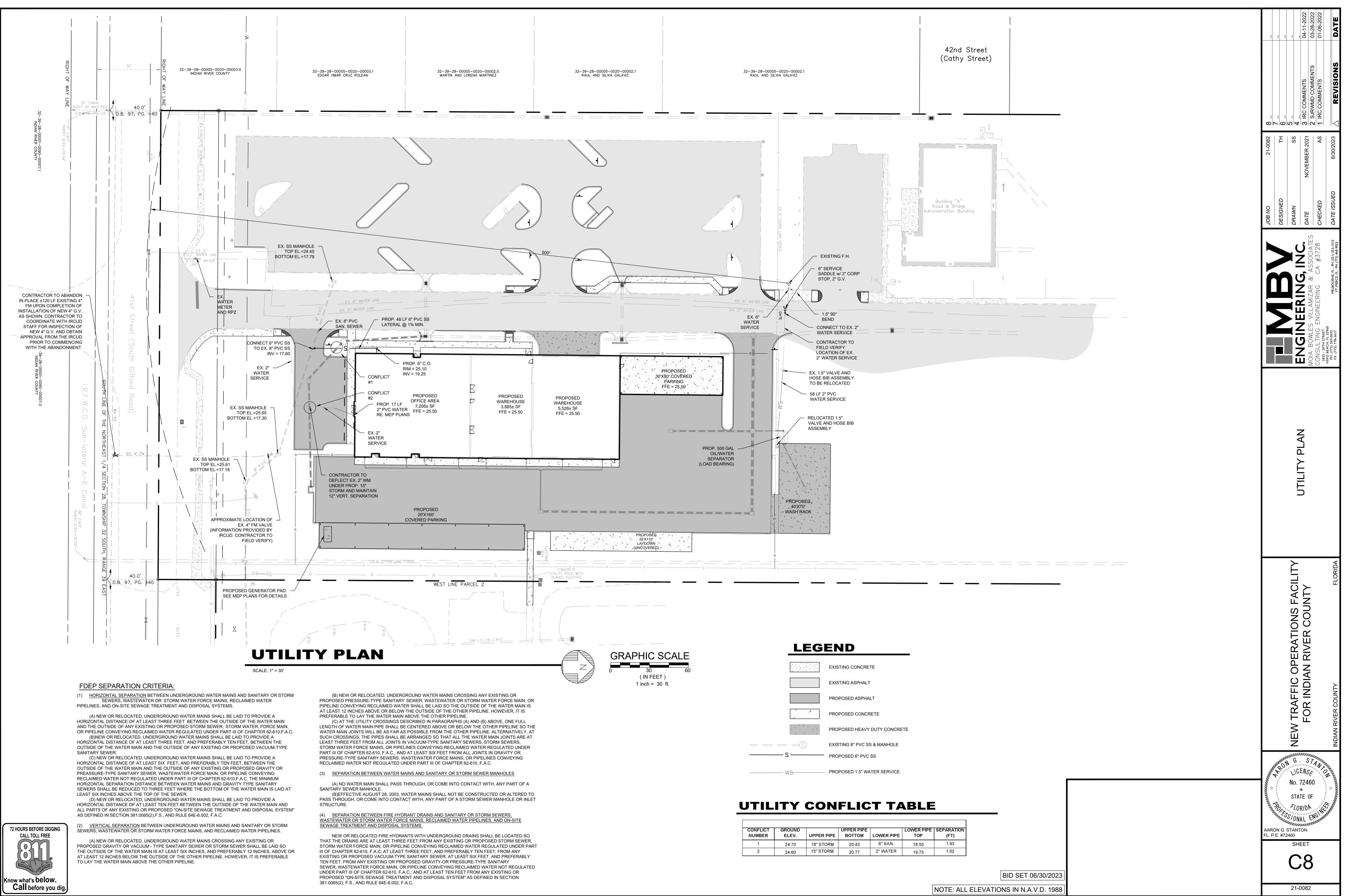


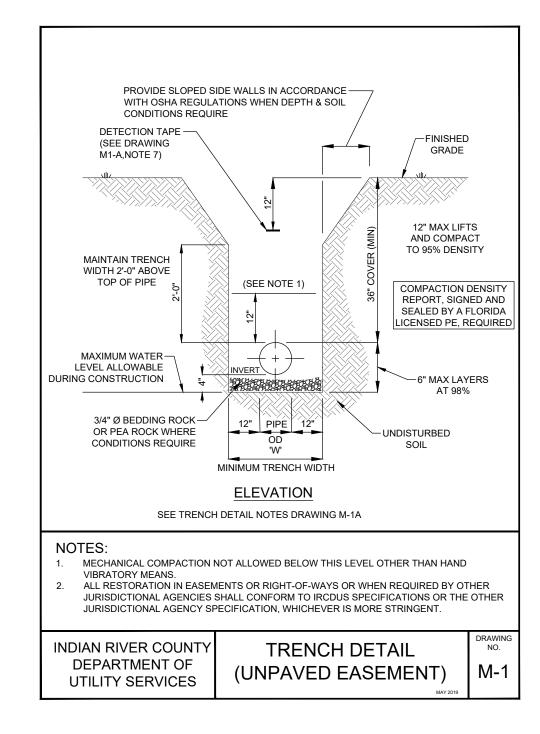


DRAINAGE PIPE SCHEDULE				
PIPE NUMBER	SIZE	LENGTH	DESCRIPTION	CLASS / DR RATING
1	15''	82 LF	RCP	ш
- 2	18''	38 LF	RCP	
- 3	18''	61 LF	RCP	
- 4	18''	160 LF	RCP	111
- 5	24''	61 LF	RCP	
- 6	15''	60 LF	RCP	
- 7	24''	38 LF	RCP	
- 8	24''	30 LF	RCP	
- 9	8"	37 LF	SCH 80 PVC	SDR 16
- 10	8"	22 LF	SCH 80 PVC	SDR 16

		E	XISTING D	RAINAG	E STRUCT	URE SCH	EDU
STRUCTURE			INVERT ELEVATION			воттом	
NUMBER	RIM ELEV.	N	S	E	w	ELEV.	
EDS- 1	23.48			19.41		18.88	
EDS-2	23.49	18.49	CORE 20.10		19.06	17.96	
EDS- 3	23.50			19.66		18.95	
EDS- 4	23.38	17.35	17.95		18.98	16.81	
EDS- 5	23.50	17.06	17.11			16.75	
PROPOSED DRAINAGE STRUCTURE SCHED							
DS- 1	24.60				21.00 SW	20.80	
DS- 2	24.25			20.70	20.60	20.40 <	
DS- 3	24.68	20.30	20.40 SE		(20.10	FDC
DS- 4	23.65	19.60			21.00	> 19.40	
DS- 5	24.00	18.90	19.00			18.65	<
DS- 6	24.75	20.70				20.50	
DS- 7	24.85	20.50	20.45	18.65	18.55	18.30	FDC
DS- 8	24.10				21.00	18.90	K
DS- 9	23.80			18.35	18.25	18.00	
DS- 10	24.15	17.24	17.24	18.10		17.00	FDC
					3		









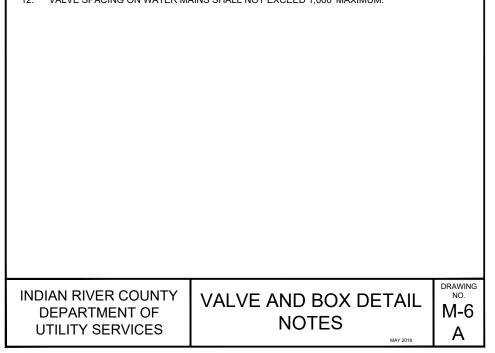
- OF CONSTRUCTION TO IRCDUS FOR APPROVAL.
- REGULATIONS.
- METHOD

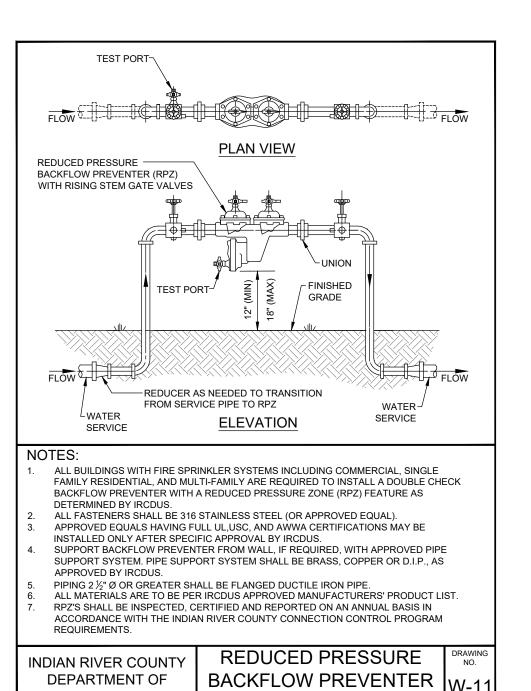
- MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	TRENCH DETAII NOTES

NOTES:

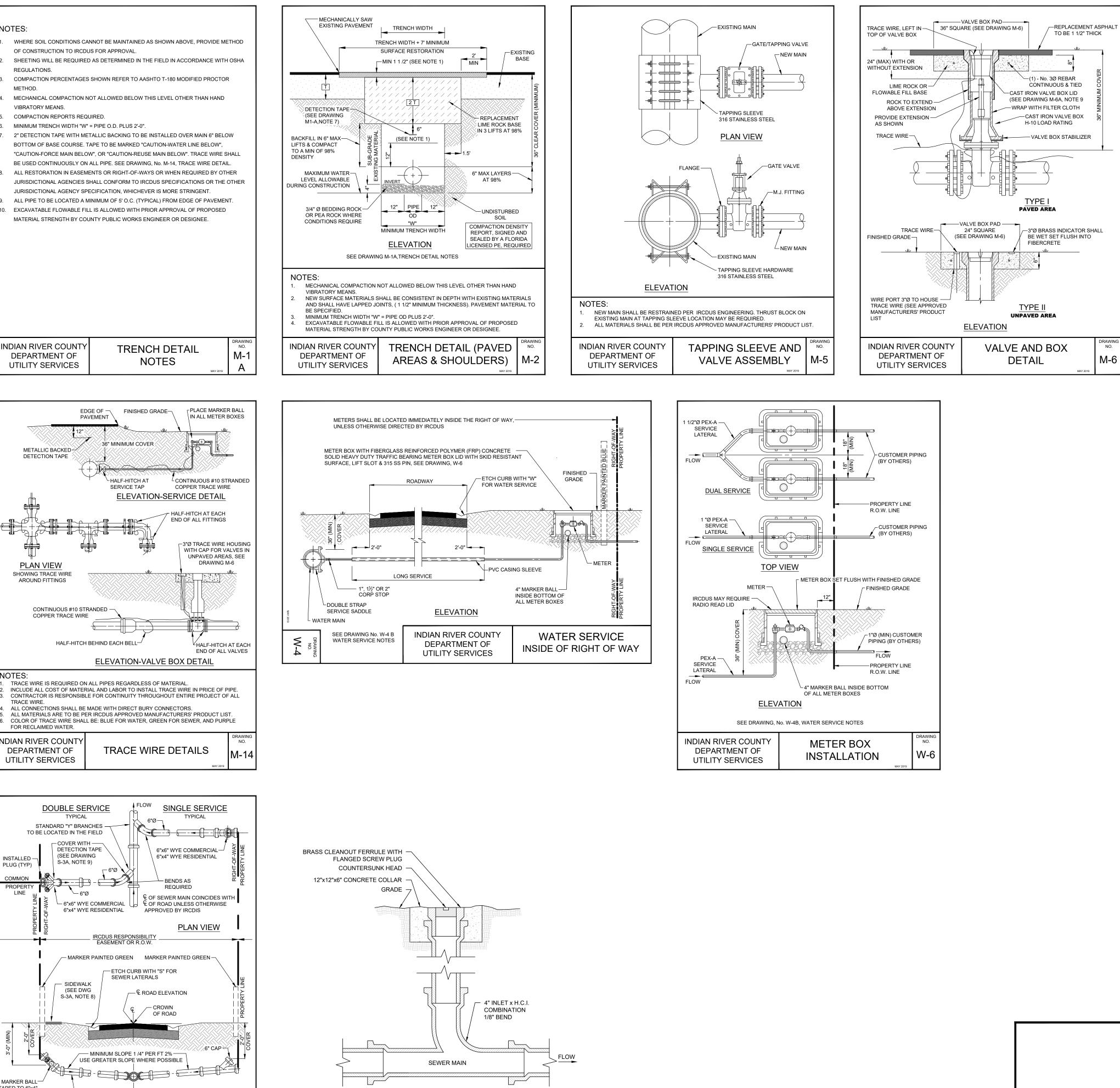
- 1. VALVE BOXES SHALL BE CONSTRUCTED PER MANUFACTURERS' SPECIFICATION. 2. ALL VALVE BOXES SHALL BE SHAFT/SCREW TYPE AND CANNOT REST ON THE VALVE.
- 3. ALL VALVE BOLTS SHALL BE STAINLESS STEEL WITH BRASS NUTS.
- 4. VALVE MARKERS ARE TO BE INSTALLED ADJACENT TO ALL VALVES IN UNPAVED AREAS AS DIRECTED BY IRCDUS. (SEE DRAWING, No. M-10, VALVE MARKER)
- ALL VALVES REQUIRE STATE PLANE COORDINATES.
- TRACE WIRE IS REQUIRED. (SEE DRAWING, No. M-14, TRACE WIRE DETAILS)
- BLUE REFLECTIVE MARKERS (RPM'S)ARE TO BE LOCATED IN MID-LANE OF ROADWAY FOR ALL HYDRANT VALVES. (SEE DRAWING, No. W-1, FIRE HYDRANTS & VALVE LOCATIONS)
- 8. REFLECTIVE MARKERS SHALL NOT BE PLACED IN BIKE LANES. 9. VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT.
- 10. VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
- 11. VALVE EXTENSIONS OVER 36" REQUIRE IRCDUS ENGINEERING APPROVAL. 12. VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1,000' MAXIMUM.

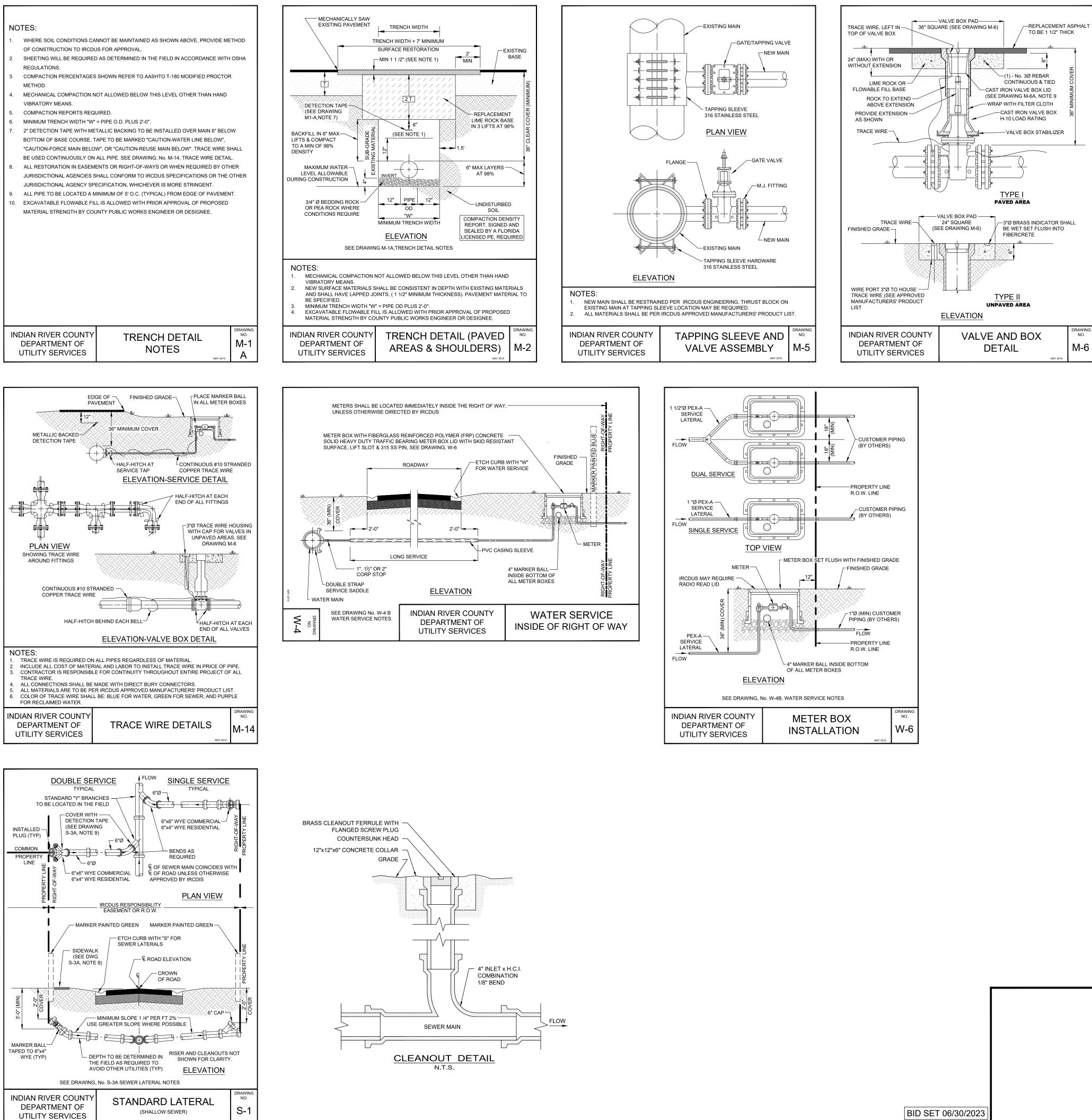




RPZ

UTILITY SERVICES



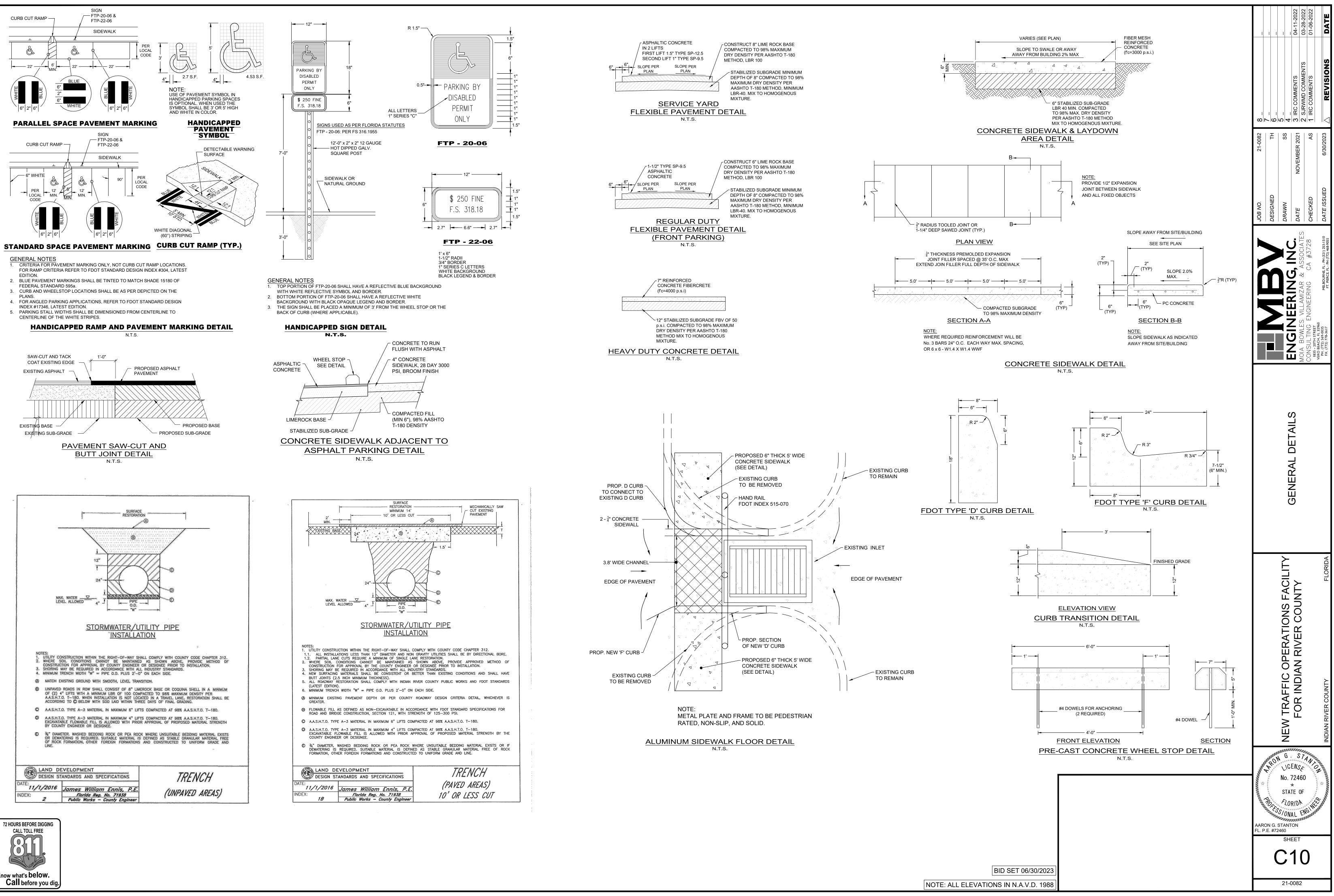




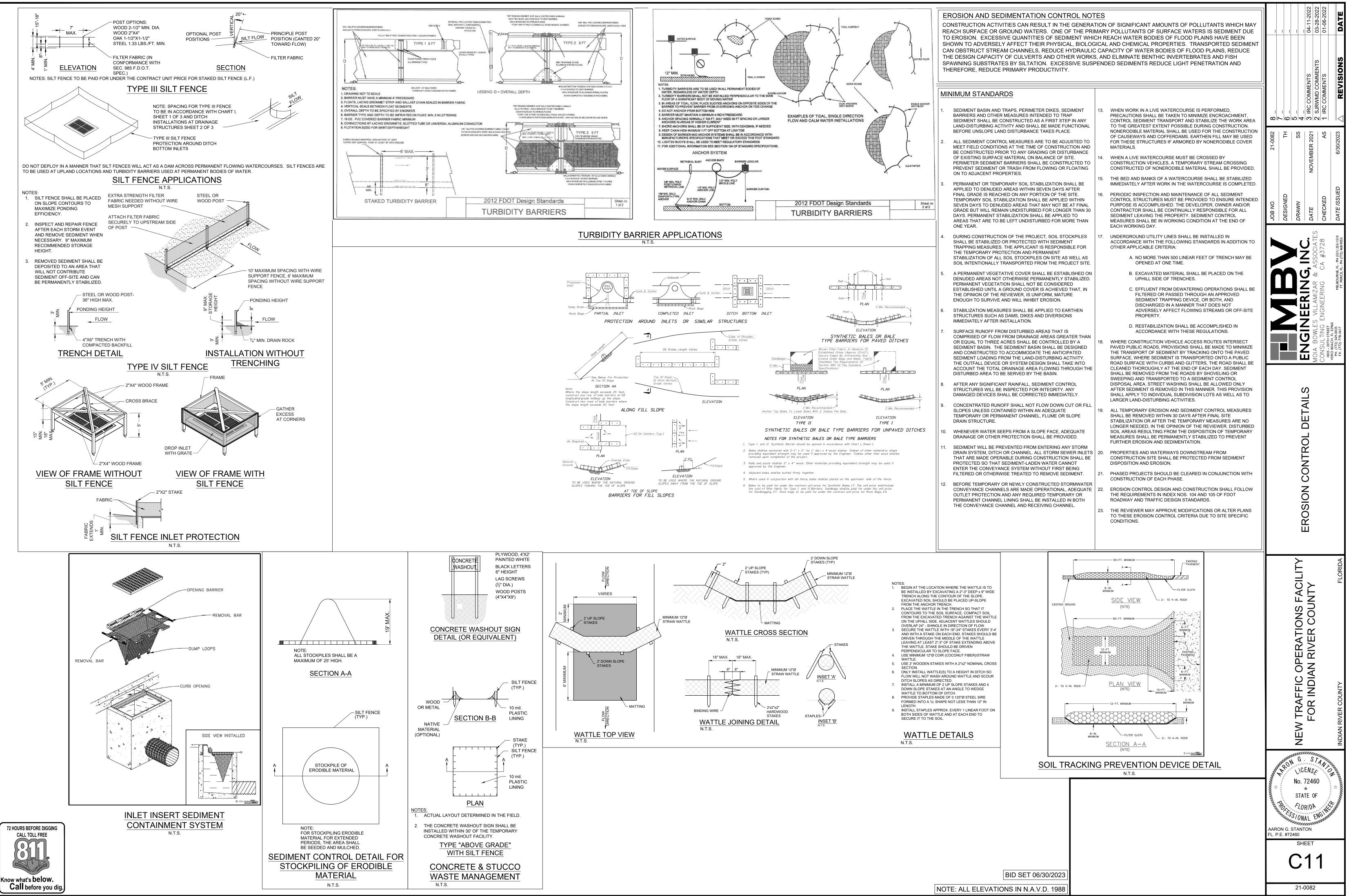
8 _	7 - 6 -	Δ 	3 IRC COMMENTS	1 IRC COMMENTS	
21-0082	H	SS	NOVEMBER 2021	AS	6/30/2023
JOB NO.	DESIGNED	DRAWN	DATE	CHECKED	DATE ISSUED
			MOIA BOWLES VILLAMIZAR & ASSOCIATES	ENGINEERING	VERO BEACH, FL 32960 PH. (772) 569-0035 FX. (772) 778-3617 FT. PIERCE, FL - PH (772) 468-9055
		NEW TRAFFIC OPERATIONS FACILITY	FOR INDIAN RIVER COUNTY		INDIAN RIVER COUNTY
AAR	00 N G	No. STA FLO S/ON STANT 2460	72460 * TE OF RIDA AL E)	
		21-(082		

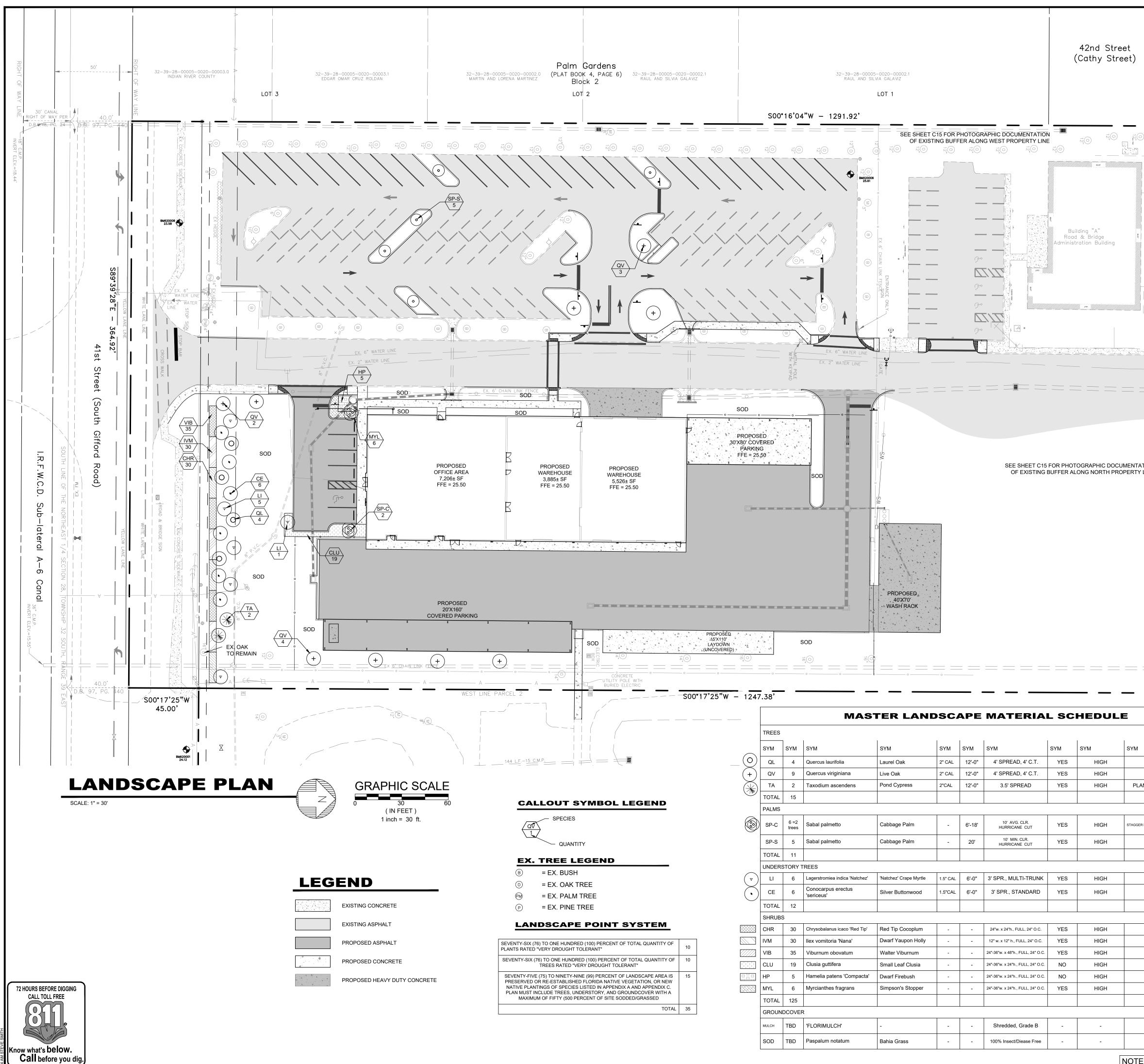
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NOTE: ALL ELEVATIONS IN N.A.V.D. 1988

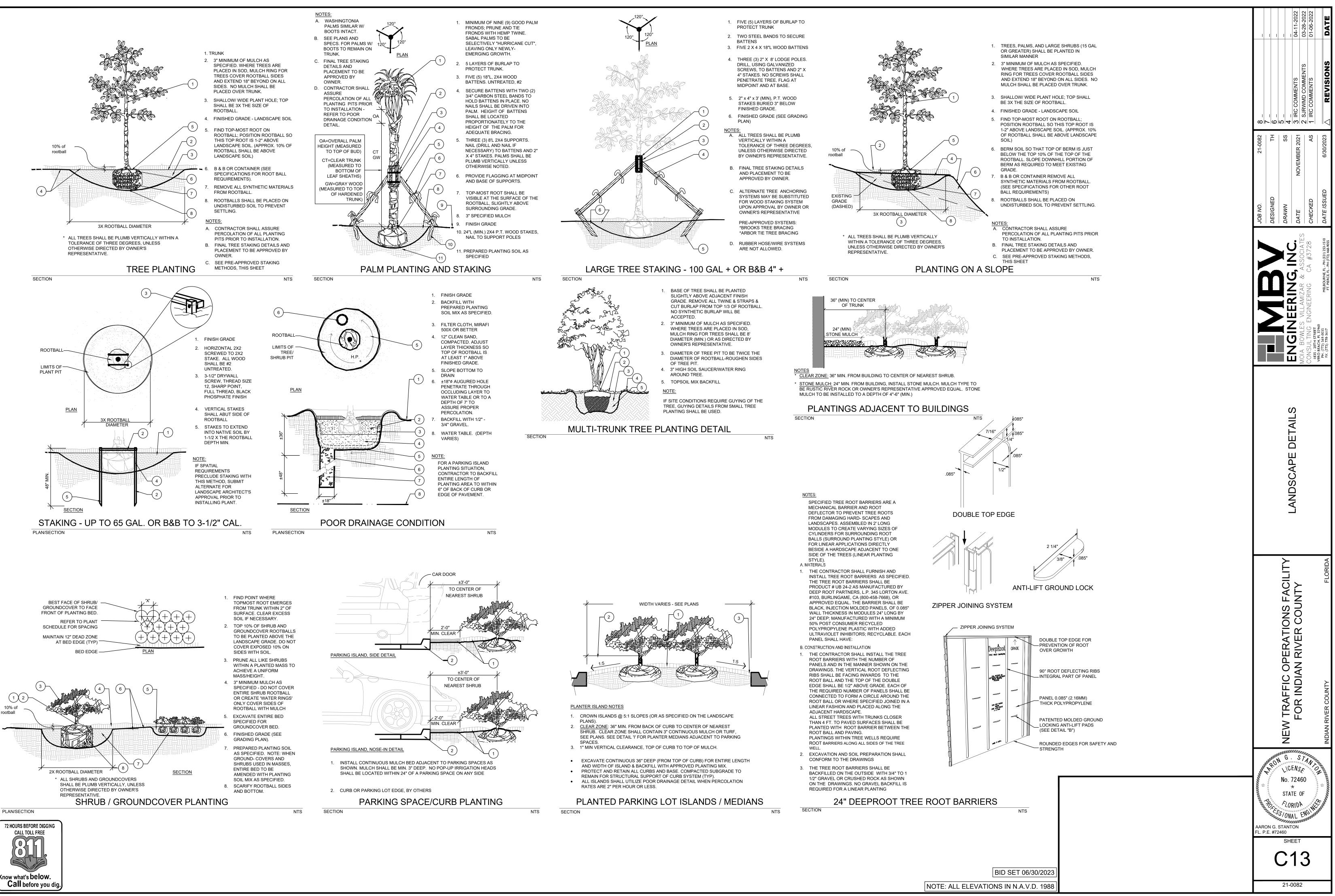


Know what's below.





	LANDSCAPE CALCUL	ATIONS	022
	* LANDSCAPE CALCULATIONS REFLECT TAB BUILDING AREA ONLY AS THIS IS THE ON .	ULATIONS FOR THE TRAFFIC OPERATIONS	- - - - 04-11-2022 03-28-2022 01-06-2022 01-06-2022
	1. <u>BUFFERS:</u> NORTH PROPERTY LINE - NO IMPROVEME SOUTH PROPERTY LINE - ADJACENT 41ST	ENTS REQUIRED. EXISTING LANDSCAPE TO REMAIN	
	NOTE: LANDSCAPE BUFFER CALCULATION OPERATIONS BUILDING SIDE ONLY (REQUIRED:	NS REFLECT THE PROPOSED TRAFFIC 185 LF EAST OF EXISTING DRIVEWAY	S S S S S S S S S S S S S S S S S S S
	15' WIDE BUFFER ALONG LOCAL ROAD - L 185 LF OF FRONTAGE EXCLUDING THE DR 185 LF / 100 = 1.85 x 4.5 CANOPY TRE	IVEWAY AND SIDEWALK. ES = 8.32 or 9 TREES	LECCOMMENTS SJRWMD COMMENTS IRC COMMENTS IRC COMMENTS REVISIONS
 	185 LF / 100 = 1.85 x 5.5 UNDER STOF 185 LF / 100 = 1.85 x 50 SHRUBS = 92. <u>REQUIRED:</u>		
	CANOPY TREES: UNDERSTORY TREES: SHRUBS	9 CANOPY TREES11 UNDERSTORY TREES93 SHRUBS	82 88 82 88 221 33 44 66 223 123 123 123 123 123 123 123 123 123
	<u>PROVIDED:</u> CANOPY TREES: UNDERSTORY TREES: SHRUBS	 9 CANOPY TREES (1 EXISTING) 11 UNDERSTORY TREES 95 SHRUBS 	<u>5</u> 0 50 00
	EAST PROPERTY LINE - ADJACENT TO EX <u>REQUIRED:</u>	= 95 SHRUBS	21- NOVEMBER
	0' WIDE BUFFER ALONG EAST P.L. WEST PROPERTY LINE - NO IMPROVEMEN	ITS REQUIRED. EXISTING LANDSCAPE TO REMAIN.) JED
	2. PARKING AREA INTERIOR LANDSO <u>REQUIRED:</u> 12% OF PAVED AREA SHALL BE PROVIDED WITH 1 CANOPY TREE PER 300 SF 25,840 SF OF PAVED AREA x 12% = 3,100 S 3,100 SF/ 300 SF = 11 CANOPY TREES REQ 1 CANOPY TREE PER NEW END ISLAND (W) WITH INTERIOR LANDSCAPE F UIRED	ES DESIGNED DRAWN DATE CHECKED DATE ISSUED
	<u>PROVIDED</u> : 9,210 SF OF LANDSCAPE AREA ALONG EA		ACCIATION 48-9055
« 	CANOPY TREES (1 / 40 LF): CANOPY TREE (END ISLAND)	= 11 CANOPY TREES (7 EXISTING)= 3 CANOPY TREES (WEST PARKING LOT)	& ASS CA j CA j RNLE, FL - PH (7
	3. FOUNDATION PLANTING AREA ALONG SOUTHERN FACADE ONLY		TZAR & CRING
	<u>REQUIRED:</u> 40% OF BUILDING'S SOUTHERN FACADE L 74 LF X 40% = 29.6 LF	ENGTH EXCLUDING ENTRANCE DOOR	VILLAMI
	29.6 LF X 10' AVG. DEPTH = 296 SF FOUND 1 CANOPY TREE PER 150 SF 1 UNDERSTORY TREE PER 300 SF	= 2 CANOPY TREES	WLES WLES MLES S-3617 S-3656
	1 UNDERSTORY TREE PER 300 SF 1.5 SHRUBS PER 10 SF PROVIDED:	= 1 UNDERSTORY TREES = 30 SHRUBS	
	565 SF FOUNDATION PLANTING AREA CANOPY TREES UNDERSTORY TREES: SHRUBS	2 CANOPY TREES1 UNDERSTORY TREES30 SHRUBS	
ATION Y LINE	 NON-VEHICULAR OPEN SPACE (N' <u>REQUIRED:</u> 1 CANOPY TREE PER 2,000 SF OF NVOS NVOS = 8,700 SF NVOS = 8,700 SF / 2,000 SF 	VOS): = 5 CANOPY TREES	
	PROVIDED: CANOPY TREES	= 5 CANOPY TREES	LAN
		(TO BE LOCATED IN WEST EXISTING PARKING LOT)	Е Р
	TOTAL REQUIRED (ALL SECTIONS)CANOPY TREES30UNDERSTORY TREES12SHRUBS123		SCAF
	TOTAL PROVIDED (ALL SECTIONS) CANOPY TREES 30 (22 PROPOSE UNDERSTORY TREES 12 PROPOSED SHRUBS 125 PROPOSED	ED, 8 EXISTING)	ANDS
		OVED	
	COUNTSIZESPECIES212" DBHOAK210" DBHOAK1±12' CTPALM		
	5 6"-30" DBH CARROTWOOD 4 ±6' HT BUSH * SEE DEMOLITION PLANS 4a AND 4b FOR TREES	S TO	
	BE REMOVED.		
	1. EXISTING IRRIGATION SYSTEM TO BE RE IRRIGATION TO PROPOSED LANDSCAPE	AREAS.	
	(A) ALL NATIVE UPLAND VEGETATION CONT STABILIZATION OF BANKS OR EXISTING O OR NATURAL WATERCOURSES SHALL BE	RIBUTING TO THE CANALS, DITCHES	
	 (B) ALL NUISANCE EXOTIC VEGETATION EXIS SHALL BE REMOVED IN CONJUNCTION W DEVELOPMENT. (C) ANY ABANDONED FLOW WELLS EXISTING 	ITH ANY SITE	ATION ER C
LANTED AT LEAST 15' O.C.	PLUGGED IN CONJUNCTION WITH SITE D	EVELOPMENT. DTES	OPERATIONS AN RIVER COL
	 (A) ALL TREES RETAINED ON A SITE SHALL E BEFORE AND DURING CONSTRUCTION A (B) UNDERGROUND UTILITY LINES SHALL BE EXISTING TREES TO THE OUTSIDE OF TH 	CTIVITIES. EROUTED AROUND	
SER HEIGHTS IN GROUPS OF 3 OR MORE.	ABLE. (C) INSTALLATION OF FENCES AND WALL SH CONSIDERATION THE ROOT SYSTEMS OI (D) FENCE/ BARRICADE SHALL BE INSTALLED	F EXISTING TREES.	
	OF ALL TREES OR GROUPS OF TREES TO FENCE SHALL BE MAINTAINED DURING C		V TRA FOR
			RON (CENS) (CENS
			STATE OF
			ZORIDA SS/ONAL ENGINEERING
			AARON G. STANTON FL. P.E. #72460
			SHEET
BID SET 06/30/	2023		C12
E: ALL ELEVATIONS IN N.A.V.D.	1988		21-0082



LANDSCAPE MATERIAL STANDARDS + NOTES 1. QUALITY PLANT MATERIALS USED SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN THE MOST CURRENT EDITION OF "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I AND PART II, STATE OF FLORIDA. 2. DROUGHT TOLERANCE REQUIREMENTS. A MINIMUM OF 76% TO 100% OF TOTAL CUMULATIVE LANDSCAPE PLANT MATERIAL USED TO MEET THE PROVISIONS OF THE I.R.C. L.D.R., CHAPTER 926, SHALL BE "HIGH DROUGHT TOLERANT," AS CLASSIFIED AND LISTED IN THE MOST RECENT EDITION OF THE "WATERWISE - FLORIDA LANDSCAPES -LANDSCAPING TO PROMOTE WATER CONSERVATION USING PRINCIPLES OF XERISCAPE" - FROM FLORIDA'S WATER MANAGEMENT DISTRICTS. TREES: a. CANOPY TREES SHALL BE SPECIES HAVING AN AVERAGE MATURE SPREAD OF CROWN GREATER THAN FIFTEEN (15) FEET IN DIAMETER AND HAVING A TRUNK WITH OVER FIVE (5) FEET OF CLEAR WOOD b. CANOPY TREES SHALL HAVE A 2" DIAMETER AT 0.5' ABOVE GRADE AND BE A MIN. 12' IN HEIGHT WITH A MINIMUM CROWN SPREAD OF 4.5' AT TIME OF PI ANTING c. PALMS SHALL BE CONSIDERED 1/3 OF A TREE AND, IF USED, THEY SHALL CONSIST OF NO MORE THAN ONE-THIRD OF THE TOTAL NEW TREE REQUIREMENT. ADDITIONALLY, 3 PALMS = 1 CANOPY TREE.SINGLE DATE PALMS (NOT PYGMY DATE PALMS) MAY BE SUBSTITUTED FOR A CANOPY TREE d. AT LEAST 50% OF ALL NEW REQUIRED TREES SHALL BE OF A NATIVE SPECIES. AND AT LEAST 76% - 100% OF ALL TREES SHALL BE RATED "DROUGHT TOLERANT." e. REQUIRED UNDERSTORY TREES SHALL BE A MINIMUM OF SIX (6) FEET OVERALL IN HEIGHT AND ONE- AND ONE-HALF (1.5) INCHES DIAMETER AT ONE-HALF (0.5) FEET ABOVE GRADE AT THE TIME OF PLANTING. MULTI-TRUNK TREES SHALL HAVE A COMBINED ONE- AND ONE-HALF-INCH CALIPER FOR ALL TRUNKS AT SIX (6) INCHES ABOVE GRADE. PALM TREES USED AS UNDERSTORY TREES SHALL HAVE A MINIMUM OVERALL HEIGHT OF SIX (6) FEET AND SHALL NOT COMPRISE MORE THAN ONE-THIRD (1/3) OF THE TOTAL UNDERSTORY TREE REQUIREMENT f. WHEN A TREE IS LOCATED IN PROXIMITY TO PAVING, BUILDING, OR UNDERGROUND UTILITY A ROOT BARRIER IS TO BE USED. REFER TO SHEET C13 FOR DETAIL 4. SHRUBS/ HEDGES: a. SHRUBS SHALL BE A MINIMUM OF EIGHTEEN (18) INCHES IN HEIGHT WHEN MEASURED IMMEDIATELY AFTER PLANTING, EXCEPT THAT SHRUBS OF NON-NATIVE VIBURNUM AND LIGUSTRUM SPECIES SHALL BE A MINIMUM OF TWENTY-FOUR (24) INCHES IN HEIGHT IMMEDIATELY AFTER PLANTING. b. SHRUBS, WHERE REQUIRED, SHALL BE PLANTED IN AN OFFSET DOUBLE ROW AND MAINTAINED SO AS TO FORM A CONTINUOUS, UNBROKEN, SOLID SCREEN. WHERE REQUIRED TO FORM A CONTINUOUS SCREEN TO SATISFY A BUFFER OR OPAQUE FEATURE REQUIREMENT, SHRUBS SHALL BE PLANTED ON TWENTY-FOUR (24)-TO-THIRTY (30) INCH CENTERS, UNLESS A GREATER SPACING IS NECESSARY TO ACCOMMODATE LARGER SHRUBS AND IS APPROVED BY PLANNING DIVISION STAFF. c. EXCLUDING SHRUBS USED IN OPAQUE FEATURES, AT LEAST 50% OF THE REQUIRED NUMBER OF SHRUBS SHALL BE OF NATIVE SPECIES. 5 MULCH AND GROUND COVERS THE USE OF CYPRESS MULCH IS PROHIBITED. MULCH THAT IS NOT CYPRESS MAY BE USED, GROUND COVERS (NOT INCLUDING SOD GRASS) SHALL BE PLANTED IN SUCH A MANNER AS TO PRESENT A FINISHED APPEARANCE AND REASONABLY COMPLETE COVERAGE WITHIN ONE YEAR AFTER PLANTING. AT LEAST 50% OF THE AREA COVERED BY LIVING MATERIAL SHALL BE OF NATIVE SPECIES. REFER TO IRC LDC FOR A LIST OF NATIVE GROUND COVERS AND FLOWERS. THE COMPLETE COVERAGE OF AN AREA BY GROUND COVERS PRECLUDES THE USE OF MULCH THEREAFTER. TURF GRASS. TURF GRASS AREAS SHALL BE IDENTIFIED ON THE LANDSCAPE PLAN AND SHALL BE LIMITED TO A MAXIMUM OF 50% OF THE TOTAL IRRIGATED, LANDSCAPED AND VEGETATED PROJECT AREA, EXCLUDING RIGHTS-OF-WAY, ACTIVE RECREATION AREAS (E.G. PLAYEIELDS) AND SLOPES WITHIN DRY RETENTION AREAS. TURE GRASS SHALL BE PLACED SO THAT IT CAN BE IRRIGATED IN A SEPARATE ZONE. PREFERRED TURF GRASSES ARE THOSE QUALIFYING AS NATIVE. 7. IRRIGATION USAGE ZONES SHALL BE AS FOLLOWS: a. GRASS AREA SHALL BE IN HIGH USAGE ZONES. TREES & SHRUBS SHALL BE IN LOW USAGE ZONES.

- 8. THERE SHALL BE 6 DIFFERENT SPECIES OF TREES USED, AND 9 DIFFERENT
- SPECIES OF SHRUBS WITH 6 BEING NATIVE PER I.R.C. ORDINANCE, CHAPT.926. 9. THE CONTRACTOR SHALL ATTEMPT TO PRESERVE AS MANY EXISTING TREES
- AS POSSIBLE AND FEASIBLE TREES THAT ARE PRESERVED MAY BE CREDITED TOWARDS THE SITE TREE REQUIREMENT IF THEY MEET THE SPECIFICATIONS. 10. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF TREES, SIGNS AND LIGHTS SUCH THAT ALL SIGNAGE IS EASILY SEEN AND LIGHTING WORKS FOR ITS INTENDED PURPOSE. TREE PLACEMENT MAY VARY FROM THIS PLAN
- TO ACHIEVE THIS REQUIREMENT. 11. LANDSCAPE ISLANDS SHALL BE BACKFILLED AT LEAST TO TOP OF CURB, AND MAY BE BERMED TO A MAXIMUM HEIGHT OF 24" ABOVE ADJACENT PARKING LOT GRADE. 12. ALL LANDSCAPE MATERIAL IN SHOCK WILL BE REPLACED PRIOR TO ISSUANCE
- OF CERTIFICATE OF OCCUPANCY.
- 13. THE IRRIGATION SYSTEM SHALL COMPLY WITH SECTION 926.11 OF THE IRC CODE AND ABIDE BY THE RESTRICTIONS FOR IRRIGATION USE AS SPECIFIED BY THE SJRWMD. 14. ROOT BARRIERS SHALL BE PROVIDED FOR CANOPY TREES WITHIN 6' OF SIDEWALK, PARKING LOT, OR DRIVEWAY

IRRIGATION NOTES

- 1. ALL LANDSCAPE AREAS ARE TO RECEIVE IRRIGATION FROM AN AUTOMATIC SOURCE THAT PROVIDE 100% COVERAGE
- 2. A WIRELESS RAINSWITCH MUST BE INCLUDED WITH THE IRRIGATION SYSTEM, PROPERLY INSTALL (AT BUILDING EAVE, WITH NO OVERHEAD OBSTRUCTIONS)
- 3. THE IRRIGATION CONTRACTOR SHALL PROVIDE A PLAN INDICATING IRRIGATION SYSTEM LAYOUT AND WATER USAGE ZONES (HIGH USE = SOD, LOW USE = TREES, SHRUBS, AND GROUND COVER).
- 4. THE IRRIGATION CONTRACTOR MUST VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PREFORMING ANY WORK ON THE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES
- AND TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION. 5. THE IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL PERMITS REQUIRED FOR THE WORK PRIOR TO COMMENCEMENT OF WORK.COPIES OF PERMITS SHALL BE SENT TO THE OWNER/ GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND OR STATE JURISDICTION.
- 6. THE IRRIGATION SYSTEM SHALL COMPLY WITH INDIAN RIVER COUNTY LAND DEVELOPMENT REGULATION 926.11.

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

- 1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS AS INCLUDED IN THE PLANT LIST AND AS HEREIN SPECIFIED. 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.
- B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS 1. GENERAL

- MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON SAMPLES' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE. SAMPLE SIZE ONE (1) CUBIC FOOT MATERIAL
- TOPSOIL MIX ONE (1) CUBIC FOOT PI ANTS ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)
- 2 PLANT MATERIALS a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE ELORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES ALL PLANTS SHALL BE ELORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST. THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE
- b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT
- c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS. OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.
- E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX) 1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE
- PART SAND, AS DESCRIBED BELOW 2. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, ND OF A LOAMY CHARACTER: REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER: FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS
- FOR APPROVAL. 3. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE
- 4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE -AT WHICH POINT THE CONTRACTOR SHALL CONTACT ENGINEER TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING
- 5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL. NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER. *WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE, SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED. APPLICATION IS TO BE IN ACCORDANCE WITH FLORIDA GREEN INDUSTRIES BEST MANAGEMENT PRACTICES. *FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). SEE PLANT LIST FOR TYPE OF MATERIAL ("FLORIMULCH," EUCALYPTUS MULCH, OR PINE STRAW) AND GRADE.

- . DIGGING AND HANDLING
- 1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTI-TRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
- 2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
- 3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, COMPLYING WITH FLORIE GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING. 4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE
- CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL 5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE
- AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.



- J. CONTAINER GROWN STOCK
- 1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION FLORIDA #1 OR BETTER 2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN
- THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
- 3 PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE 4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE. THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

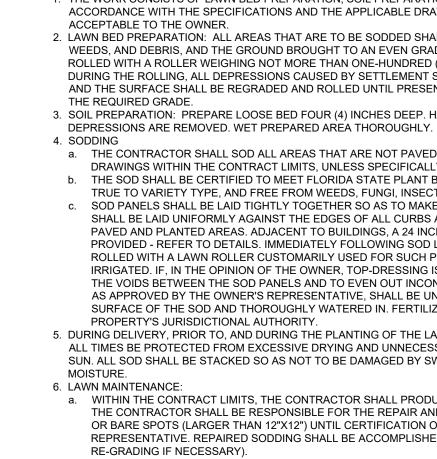
QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE ENGINEER OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

- 1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED. 2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO
- FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-FND I OADER FOR TRANSPORTING SOIL WITHIN THE SITE
- 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

- 1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR. CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES
- THE RESPONSIBILITY OF THE CONTRACTOR. 2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO
- LOCATE UTILITIES. 3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKELL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE
- CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.
- 4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE. 5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING
- LANDSCAPE MATERIALS AND WORK, CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE , PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED
- 6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS. 7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD
- FOR NURSERY STOCK 260.1. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IE POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAG CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS
- AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED 8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES. 9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
- 10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
- 11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION
- 12 FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES. STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
- 13. PRUNING: TREES SHALL BE PRUNED. AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE. TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
- 14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
- 15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE ENGINEER IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE ENGINEER IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
- 16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT 17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY).



Q. CLEANUP

U. WARRANTY

- REPRESENTATIVE.
- REPRESENTATIVE.

- ACCEPTANCE.
- V. SUBMITTALS

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN

2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO 3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND

a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGI, INSECTS AND DISEASES OF ANY KIND. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING. THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND. AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY

5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND

a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED. SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING

b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL

OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE ENGINEER OR OWNER IN WRITING) BEGINNING WITH THE TIME OF RÉPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

1. THE LIFE AND SATISFACTORY CONDITION OF ALL 7 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S

2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S

3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER, WARRANTY IS TO EXCLUDE DAMAGE CAUSED BY FLOODS, LIGHTING STRIKES, FREEZING, WINDS OVER 45 MPH, FIRE, VANDALISM, HERBIVORE ANIMALS, DISEASE, INSECTS, WATER RESTRICTIONS, GOVERNMENT ACTIONS OR ACTS OF NEGLIGENCE BY THE OWNER OR OTHERS.

4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF

1. FOR ALL LANDSCAPE INSTALLATIONS, THE CONTRACTOR SHALL SUBMIT PRODUCT DATA IN THE FORM OF MANUFACTURERS' CUT SHEETS AND CATALOG DATA FOR ALL PRODUCTS, MATERIAL AND EQUIPMENT CLEARLY INDICATING THE SPECIFIC PART OR PRODUCT CATALOG NUMBER(S) FOR APPROVAL AND SUBMIT A MATERIALS LIST INDICATING ALL PLANT SPECIES, QUALITY AND SIZE. 2. SUBMIT 6 COPIES OF REQUESTED INFORMATION, NEATLY BOUND AND INDEXED PER CATEGORY. 3. THE CONTRACTOR SHALL SUBMIT A LANDSCAPE COORDINATION DRAWING, INDICATING CONTRACTOR'S PROPOSED LOCATION OF TREES, SHRUBS, GROUNDCOVERS AND MULCH.THIS DRAWING SHOULD BE PREPARED ON A COPY OF THE LANDSCAPE PLAN PROVIDED IN THESE DRAWINGS AND SHALL CLEARLY DEPICT ADJUSTMENTS OR CHANGES THE CONTRACTOR

PROPOSES TO THE PLANT SPECIES, SIZE OR LOCATION. THE DRAWINGS SHALL INDICATE ALL PROPOSED SUBSTITUTIONS OF SIZE, AND/OR MATERIAL 4. ALLOW TWO WEEKS FOR THE ENGINEER TO COMPLETE REVIEW AND APPROVAL OF PRODUCT DATA, AND COORDINATION DRAWINGS. ENGINEER WILL NOT BE RESPONSIBLE FOR PROJECT DELAYS RELATED TO DELIVERY AND TRANSMISSION OF THE INFORMATION AND

DOCUMENTATION ONCE INFORMATION HAS LEFT ENGINEER'S OFFICE. ITEMS REQUIRING A LONG LEAD TIME SHOULD BE SUBMITTED AS SOON AS POSSIBLE. 5. WARRANTY: CONTRACTOR SHALL SUBMIT A WARRANTY LETTER TO OWNER, INDICATING THE WARRANTY PERIOD, WARRANTY REQUIREMENTS (AS SPECIFIED IN THESE DRAWING AND SPECIFICATIONS), AND

DATES OF WARRANTY PERIOD, WHICH SHALL BEGIN AT THE DATE OF ISSUANCE OF PROJECT CERTIFICATE OF OCCUPANCY, AND END TWELVE (12) MONTHS AFTER. 6. CERTIFICATION: CONTRACTOR SHALL SUBMIT CERTIFICATION STATING THAT: PLANT SPECIES AND SIZE CONFORM TO THOSE INDICATED ON THE DRAWINGS: ALL NURSERY STOCK IS IN ACCORDANCE WITH GRADES

AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES; ALL PLANTS ARE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY; ALL PLANTS ARE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND HAVE ADEQUATE ROOT SYSTEMS; TREES FOR PLANTING IN ROWS ARE UNIFORM IN SIZE AND SHAPE. THIS CERTIFICATION IS NECESSARY PRIOR TO ACCEPTANCE OF WORK BY THE OWNER.

BID SET 06/30/2023

NOTE: ALL ELEVATIONS IN N.A.V.D. 1988

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LANDSCAPE SPECIFICATIONS					
		NEW TRAFFIC OPERATIONS FACILITY	FOR INDIAN RIVER COUNTY		INDIAN RIVER COUNTY FLORIDA
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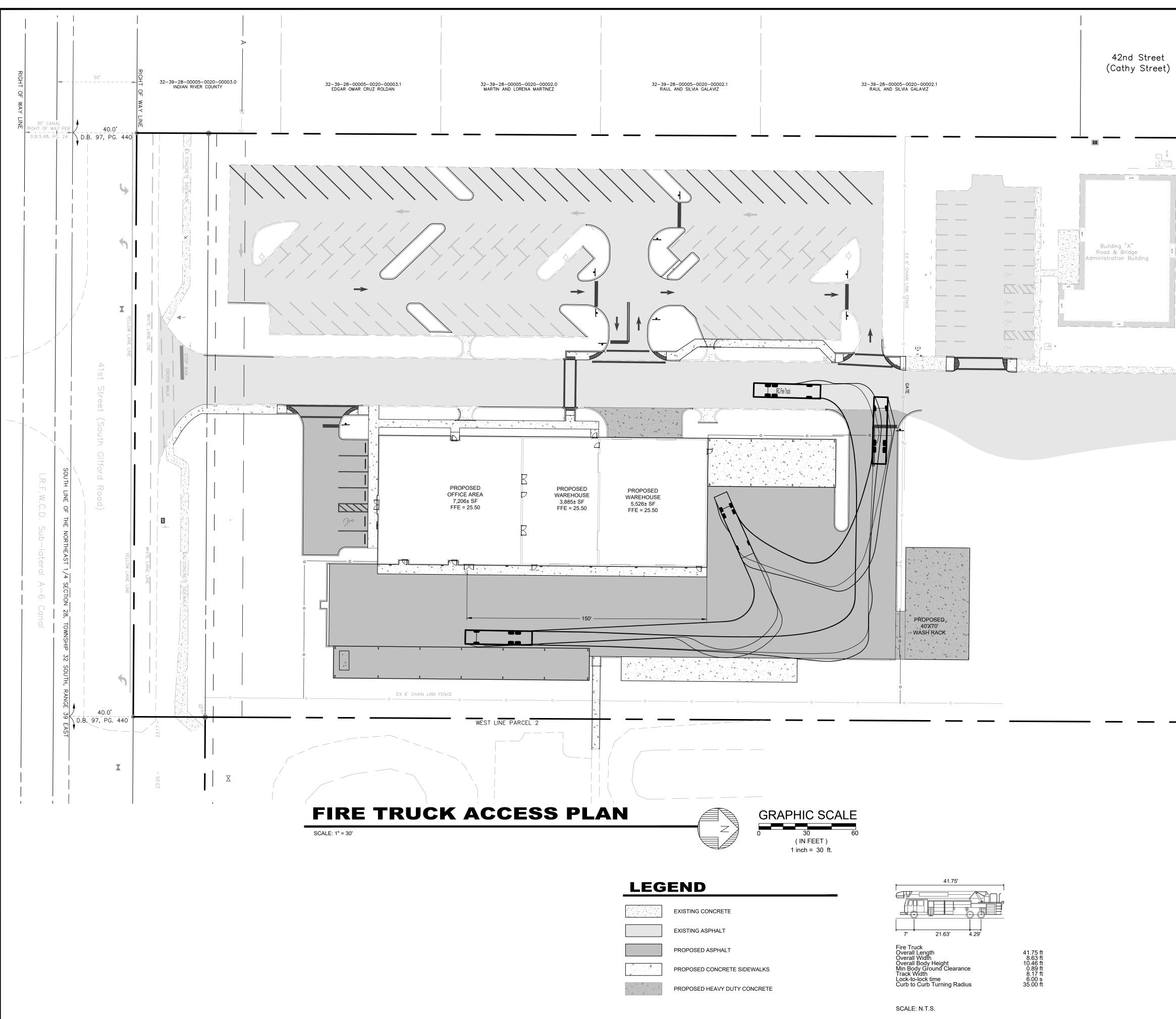




EXISTING NORTH LANDSCAPE BUFFER

EXISTING WEST LANDSCAPE BUFFER

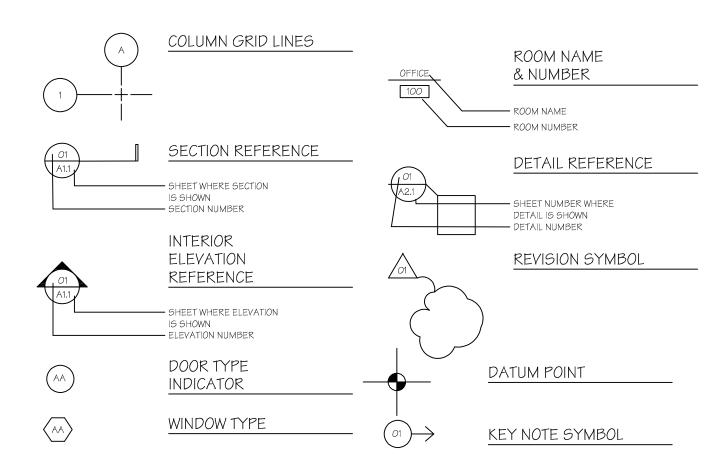
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BID SET 06/30/2023 TE: ALL ELEVATIONS IN N.A.V.D. 1988	21-0082

ARCHITECTURAL SYMBOLS



CIVIL ENGINEER MBV ENGINEERING, INC.

2455 14th Ave.. Vero Beach, Florida 32960 Tel.: 772-569-0035 Fax.: 772-778-3617

NEW TRAFFIC OPERATIONS FACILITY FOR

INDIAN RIVER COUNTY



4548 41st ST VERO BEACH, FLORIDA

JUNE 30, 2023 BID SET



2001 9th Ave, Suite 308 Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 www.donadio-arch.com License No. AA0002238

STRUCTURAL ENGINEER

M L ENGINEERING INC.

2030 37th Avenue Vero Beach, Florida 32960 Tel.: 772/569-1257 Fax.: 772/569-4041

MECHANICAL & ELECTRICAL ENGINEER KAMM CONSULTING, INC.

1408 Orange Ave Ft. Pierce, FL 34950 Tel.: 772/595-1744 Fax.: 772/595-1745

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ELECTRICAL DRAWINGS

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PLUMBING DRAWINGS I/O Dwg. No Drawing Name **⊠** PO.1 ⊠ P2.1 **⊠** P3.1 **⊠** P5.1

INDEX OF DRAWINGS

- Drawing Name
- Cover Sheet

Index of Drawings/ General Notes

IDSCAPE DRAWINGS

Drawing Name	Issue Date	Re-issue Date
Geometric Site Plan	03/21/22	
	03/21/22	

FURAL DRAWINGS

RAL DRAWINGS		•	<u>^</u>	^
Drawing Name	Issue Date	Re-issue Date / 🗌	Re-issue Date 🖉	Re-issue Date $\boxed{3}$
Life Safety Plan/ UL Design Details	03/21/22	06/04/22		07/18/22
Code Review	03/21/22	06/04/22		07/18/22
Floor Plan - Building	03/21/22	06/04/22	06/30/22	07/18/22
Floor Plans- Covered Parking	03/21/22			
Roof Plan - Building	03/21/22		06/30/22	07/18/22
Roof Plans- Covered Parking	03/21/22			
Roof Details	03/21/22		06/30/22	07/18/22
Enlarged Floor Plan	03/21/22		06/30/22	07/18/22
Reflected Ceiling Plan	03/21/22			07/18/22
Building Elevations	03/21/22		06/30/22	07/18/22
Covered Parking Elevations - A	03/21/22	06/04/22		
Covered Parking Elevations - B	03/21/22	06/04/22		
Building Sections	03/21/22		06/30/22	07/18/22
Wall Sections	03/21/22		06/30/22	07/18/22
Interior Elevations/ ADA Details	03/21/22			07/18/22
Schedules/ Door & Window Types	03/21/22		06/30/22	07/18/22
Schedule/ Room Finishes	03/21/22		06/30/22	07/18/22
Door Details	03/21/22			07/18/22
Window Details	03/21/22			07/18/22
Door Details	03/21/22			07/18/22
L DRAWINGS				
Drawing Name	Issue Date	Re-issue Date		Re-issue Date
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Building 1 Foundation Plan	03/21/22	07/18/22		07/05/22
Roof Framing Plan	03/21/22			07/05/22
Building Sections & Details	03/21/22			
Building Sections & Details	03/21/22			07/05/22
Schedules & General Notes	03/21/22			
Covered Parking Foundation Plans	03/21/22			

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Drawing Name	Issue Date	Re- issue Date	Re-issue Date
Mechanical Notes	03/21/22		06/22/22
Floor Plan	03/21/22		06/22/22
Mechanical Schedules	03/21/22		06/22/22

Plumbing Notes & Schedule

Sanitary Stack and Risers

Domestic Water Plan

Sanitary Plan

Drawing Name
Electrical Notes, Legend
Site Lighting Plan
Site Power Plan
Lighting Floor Plan
Lighting Control Plan
Power Plan
Electrical Panel & Riser Diagrams

Issue Date Re- issue Date

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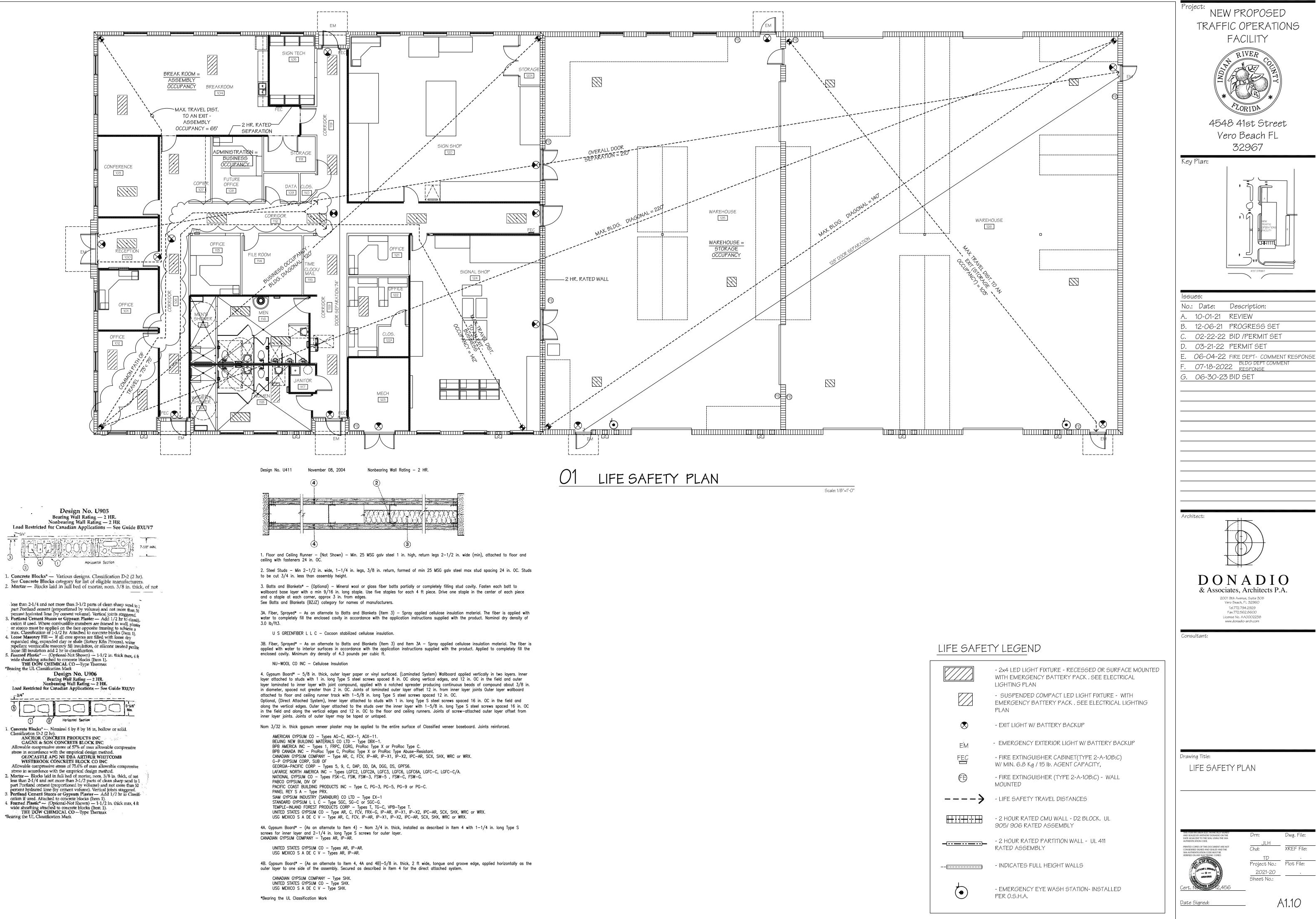
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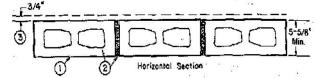
Design No. U905 Bearing Wall Rating - 2 HR. Nonbearing Wall Rating - 2 HR Load Restricted for Canadian Applications - See Guide BXUV7

- Concrete Blocks* Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.
 Mortar Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not

- Loose masority rin it all cole spaces are miled with mose ary expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masorry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.
 Foamed Plastic* (Optional-Net Shown) 1-1/2 in: thick max, 4 ft
- wide sheathing attached to concrete blocks (Item 1), THE DOW CHEMICAL CO -- Type Thermax *Bearing the UL Classification Mark

Design No. U906

Load Restricted for Canadian Applications - See Guide BXUV7



- 1. Concrete Blocks* Nominal 6 by 8 by 16 in, hollow or solid. Classification D-2 (2 hr). ANCHOR CONCRETE PRODUCTS INC GAGNE & SON CONCRETE BLOCK INC Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method. OLDCASTLE APG NE DBA ARTHUR WHITCOMB WESTBROOK CONCRETE BLOCK CO INC
- Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.
 Mortar — Blocks laid in full bed of mortar, nom, 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50
- Portland Cement Stucco or Gypsum Plaster Add 1/2 hr in Classification if used. Attached to concrete blocks (Item 1).
 Foarned Plastic^{*} (Optional-Not Shown) 1-1/2 in. thick max, 4 it
- wide sheathing attached to concrete blocks (Item 1). THE DOW CHEMICAL CO --- Type Thermax *Bearing the UL Classification Mark

Dwg. File:

XRFF File:

CODE REVIEW FOR NEW TRAFFIC OPERATIONS FACILITY FOR INDIAN RIVER COUTY LOCATED AT 4548 41ST STREET VERO BEACH, FLORIDA 32967 ARCHITECTS PROJECT #2021-20 / 2.0

SCOPE OF WORK

The Proposed Building is a Single Story Structure with a total area of 16, 617 sq. ft. The building will be divided into an office/shop component with an area of 7,206 sq.ft. The balance of the floor area, 9,411 sq.ft. will be devoted to Warehouse Space.

The Office / shop area will consist of a Reception Area, Offices, Conference Room, Break Room, Storage, Data Closet, File Room, Signal Shop, Sign Shop and Male / Female Toilet Rooms.

The balance of the building will be devoted to Two (2) Warehouses; one being 3,782 sq.ft. in area and the other 5,315 sq.ft.

The Proposed Building Construction is 8" concrete masonry unit walls (CMU), concrete floor slab and a modified Bitumen Roofing system on nailable substrate on 3" (min.) rigid insulation (R-20), mechanically attached to 1 1/2" galvanized metal deck on steel bar joists. All interior partitions will be galvanized metal studs, gypsum board both sides and acoustical batts sound insulation.

Basic Lighting, Power, HVAC and Plumbing will be provided.

New Handicapped parking for the Facility will be located adjacent to the main entrance on the South side of the building. Overflow parking currently exists on the West side of the proposed building.

REFERENCE CODES:

Florida Building Code – Building 2020- 7th Edition Florida Building Code – Plumbing – 2020 – 7th Edition Florida Building Code – Accessibility – 2020 – 7th Edition Florida Fire Prevention Code - 7th Edition

CODE REVIEW

1) BUILDING USE AND OCCUPANCY CLASSIFICATION FBC CH. 3; FBC CH. 304; Business Group B; FBC 311; FBC 311.3; Low- Hazard Storage S-2; NFPA 101; Ch. 38; New Business Occupancy ; NFPA 101; Ch. 42; Storage Occupancy.

This Building is a Mixed Use Facility.

2) SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE FBC Ch. 4

N/A

iii) <u>E</u>

3) GENERAL BUILDING HEIGHTS AND AREAS FBC Ch. 5

- Building Height and number of Stories:
- FBC 504; FBC Table 504.3a Construction Type; Type II-B; Non-Sprinklered a) Business Occupancy Maximum Building Height Permitted 55' = 18' Actual Building Height = b) Storage Occupancy Maximum Building Height Permitted 55' = 22' Actual Building Height = ii) Allowable Number of Stories Above Grade Plane FBC Table 504.4 a) Business Occupancy Maximum Number of Stories Permitted = Actual Number of Stories = b) Storage Occupancy Maximum Number of Stories Permitted = 3

Actual Number of Stories	=	3 1.
<u>Building Area</u> FBC 506; FBC Table 506.2		
a) <u>Business Occupancy</u> Allowable Building Area Actual Building Area	= =	23,000 sq.ft. 7,206 sq.ft.
b) <u>Storage Occupancy</u> Allowable Building Area Actual Building Area	=	26,000 sq.ft. 9,411 sq.ft.

4) <u>TYPE OF CONSTRUCTION</u> FBC CH.6; FBC 602.2; NFPA 101; 38.1.

Construction Type: Type II-B; Non- Sprinklered

- i) Fire Resistance Rating Requirement
- a) Primary Structural Frame
- b) Bearing Walls, Exterior/ Interior
- c) Non-Bearing Interior Walls d) Floor Construction / Roof Construct
- ii) Fire Resistance Rating for Exterior Walls Based on Fire Separation Distance FBC Table 602

North, South, East & West

5) FIRE AND SMOKE PROTECTION FEATURES FBC Ch. 7.

Exterior Walls FBC 705; 705.2. There are no Eave Projections at the Exterior Walls.

ii) Maximum Area of Exterior Wall Openings Based on Fire Separation **Distance and Degree of Opening Protection** FBC 705.8 North, South, East & West

iii) Fire Partitions **FBC 708**

The 2 Hr. Rated Separation Between the Business Occupancy and the Storage Occupancy will be Achieved using Type D-2 CMU Constructed Full Height from Floor to Underside of the Metal Deck and Fire Caulked.

The 2 Hr. Rated Separation Between the Business Occupancy and the Assembly Occupancy (Break Room- 104) will be Achieved Using U.L. Design No. 411 Partition Type Constructed Full Height from Floor to Underside of Metal Deck and Fire Caulked.

iv) Opening Protectives

FBC 716; FBC Table 716.5. All Opening Protectives (Doors) Located in the Two Hour (2 Hr.) Occupancy Separation CMU Wall will be 1 1/2 Hr. Rated with a Maximum Vision Panel of 100 Sq. Inches.

Concealed Spaces

FBC 718; FBC 718.2 Fire Blocking in Concealed Spaces is not Required as All Construction will be Non-Combustible.

FBC Cn. 8; FBC Table 803.11; NFPA 101; 38.3.3; 42.3.3

All Interior Wall and Ceiling Finishes will Conform to the FollowingTable:

Interior Exit Stairways and Ramps & Exit Passageways	Corridors & Enclosures for Exit Access Stairways and Ramps	Rooms & Enclosed Spaces
477: 66%-	В	С

Interior Exit Stairway and Ramps & Exit Passageways	s Corridors & Enclosures for Exit Access Stairways and Ramps	Rooms & Enclosed Spaces
	В	С
		50.5
	Flame Spread Index	26-75
	Flame Spread Index Smoke Developed Index	26-75 0-450

Class Class C Interior Finish: Flame Spread Index

Smoke Developed Index 0-450 i) Interior Floor Finish FBC 804, FBC 804.4.2; NFPA 101; 38.3.3.3; 42.3.3.3

The Minimum Critical Flux for All Interior Floor Finishes will be Class II.

7) FIRE PROTECTION SYSTEM FBC CH. 9

i) Automatic Sprinkler Systems FBC Ch. 9; FBC 903.2; FBC 903.2.1.2; FBC 903.2.1.0

An Automatic Fire Sprinkler System is not Required per the Above.

- i) Portable Fire Extinguishers FBC 906; FBC 906.1; NFPA 101; 38.3.5; 42.3.5. Provide Type 2-A-10BC (Min. 6.8 kg/ 15 lb.) Agent Capacity. Portable for Locations.
- iii) Fire Alarm & Detection Systems FBC 907; FBC 907.2.1; FBC 907.2.2; NFPA 101; 9.6; NFPA 101; 38.3.4.1: NFPA 101: 42.3.4.1.2 A Fire Alarm System is not required per the Above.

CODE REVIEW

.6; 42.1.6	.6;	42	1	.6
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	=	0
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> 30' = 0 Rating

= No Limit

Fire Extinguishers, Spaced Not to Exceed 75' Apart. See Life Safety Plan

8) MEANS OF EGRESS REQUIREMENTS FBC Ch 10; NFPA 101; 38.2; NFPA 101 42.2.2.

i) General Means of Egress BC Ch. 10 a) Ceiling Height: FBC 1003.2

Means of Egress Ceiling Height:

b)	Occupant Load: FBC 1004; FBC	Table 1004.5; NFPA 1	01; 38	3.1.7; 42.1.7.
	Office / Shop:	7,206 sq.ft.÷ 150	=	48 Persons
	Warehouse:	9,411 sq.ft. ÷ 500	=	19 Persons
	То	tal Occupant Load	=	67 Persons

9'-0" > 7'-6" = OK.

ii) Means of Egress Sizing BC 1005; FBC 1005.3.2; NFPA 101; 38.2.3; 42.2.3.

a)	Office / Shop	48 x 0.2"	=	9.6"
b)	Egress Capacity Provided:	5 x 36"	=	180"
c)	Warehouse / Storage	19 x 0.2"	=	3.8"
d)	Egress Capacity Provided	4 x 36"	=	144"

iii) Number of Exits And Exit Access Doorways

FBC 1006				
a) Min. number of Exits o	r Access to Ex	its pe	r Story	6
FBC 1006.3.2; NFPA 10				
Occupant Load – 1-500			=	2 Exits
Number of Exits Propose	22 10		=	7 Exits
Number of Exits 1 Topose	50		1.000	/ LARS
in) Full and Full Assess Deserve				
iv) Exit and Exit Access Doorwa	y Configuratio	n		
FBC. 1007; FBC 1007.1.1.				
a) Complete Building				
Building Diagonal		=	220'	
Door Separation		=	210'	
2	210' > 110'	=	OK.	

			210' > 110'	=	OK.
b)	Office / Shop:				
0.00	Building Diagonal			=	120'
	Door Separation			=	80'
		•	80' > 60'		OK.
c)	Storage Area				
	Building Diagonal			=	140'
	Door Separation			=	136'
			136' > 70'	=	OK.

v) Means of Egress Illumination

FBC 1008; NFPA 101; 7.8

- a) Illumination Required FBC 1008.2; 42.2.8; 42.2.10
- The Means of Egress, including Exit Discharge, will be
- illuminated at all times during Building Occupancy.
- c) Illumination Level Under Normal Power FBC 1008.2.1
- The Means of Egress Illumination Level shall not be less than 1 Footcandle (11 LUX) at the walking surface.
- d) Emergency Power for Illumination
- FBC 1008.3; NFPA 101; 42.2.9

An Emergency Power Supply will be provided to illuminate all Means of Egress components. The Emergency supply will provide power for a minimum of 90 minutes and will consist of storage batteries, Unit equipment or an on-site Generator.

Accessible Means of Egress vi)

FBC 1009; FBC 2020 - Accessibility

a) Accessible Routes FBC 206; FBC 206.2.1; FBC Ch. 4.

An Accessible Route will Exist From the Accessible Parking to the Accessible Building Entrance.

b) Accessible Means of Egress

FBC 207 Various Accessible Means of Egress are Provided from the Building.

c) Parking Spaces FBC 208; FBC Table 208.2

An Accessible Parking Space is Provided Adjacent to the Main Entrance to the Building.

d) Drinking Fountains

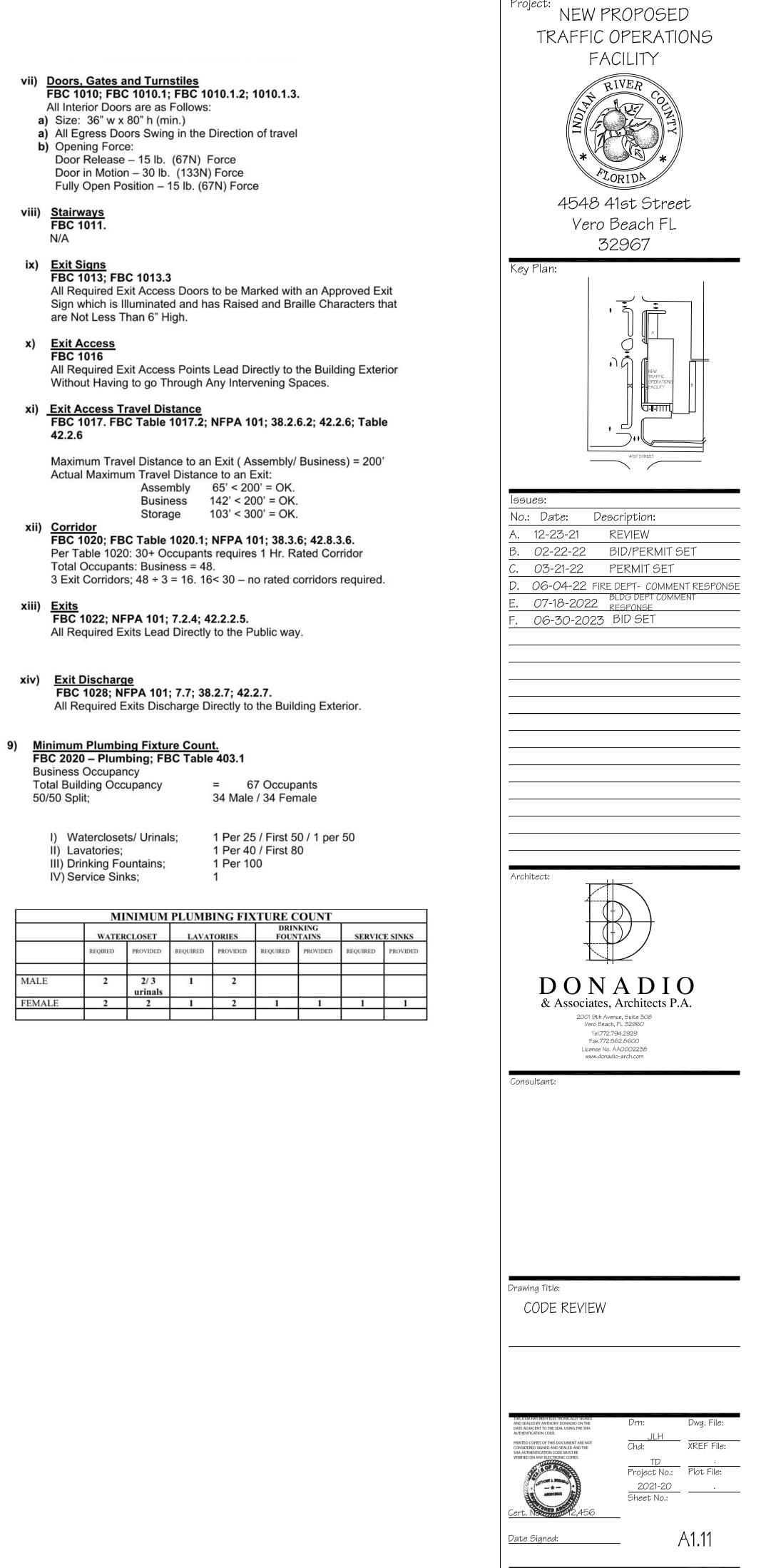
FBC 211; FBC 602.1 through 602.6 One (1) "Hi-Low" Drinking Fountain Provided, Located Adjacent to the Male / Female Toilet Rooms.

e) Kitchens, Kitchenettes and Sinks FBC 212; FBC 804

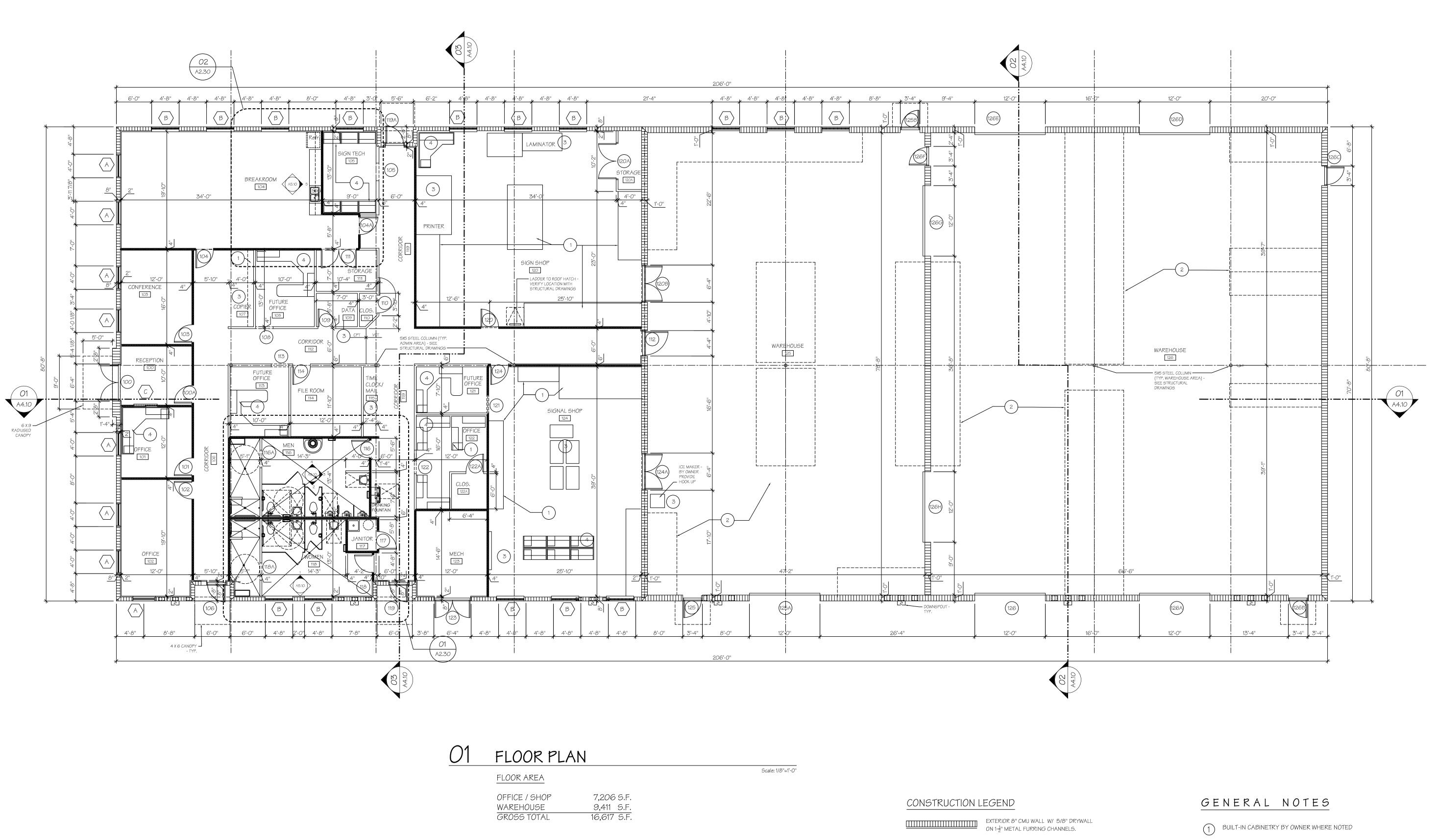
The Sink Surface to be Mounted No Higher than 34" Above the Finished Floor.

f) Toilet Facilities and Bathing Facilities

FBC 213; FBC 804; FBC 603 The Male & Female Toilet Rooms Contain an Accessible Toilet Stall Which Meets all of the Fixture Floor Space Requirements and Turning Circles. Both Toilet Stall Doors Open Outwards.



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HOP	7,206 5.
Έ	9,411 S.
-AL	16,617 5

	EXTERIOR 8" CMU WALL W/ 5/8" DRYWALL ON 1- $\frac{1}{2}$ " METAL FURRING CHANNELS.
NON-RATED 2 HR. RATED	12" CMU WALL W/ TOOLED JOINTS - 2 HR. RATED TYPE D-2 - WHERE SHOWN. FULL HEIGHT AND FIRE STOPPED. SEE PLANS FOR LOCATION!
-	TWO (2) HOUR RATED ASSEMBLY: U 411- $3\frac{5}{8}$ " GALV. METAL STUDS 20 GAUGE @ 24" O.C. WITH 2 LAYERS $\frac{5}{8}$ " DRYWALL BOTH SIDES AND SOUND BATTS INSULATION; CONSTRUCT FULL HEIGHT W/ FIRESTOPPING AS REQUIRED
	ONE HOUR RATED ASSEMBLY : U 465 - $3\frac{5}{8}$ " (6" WHERE NOTED) GALV. METAL STUDS 20 GAUGE @ 24" O.C. WITH $\frac{5}{8}$ " DRYWALL BOTH SIDES AND SOUND BATTS INSULATION; CONSTRUCT FULL HEIGHT W/ FIRESTOPPPING.
	$3\frac{5}{8}$ " (6" WHERE NOTED) GALV. METAL STUDS 20 GAUGE @ 24" O.C. WITH $\frac{5}{8}$ " DRYWALL BOTH SIDES AND SOUND BATTS INSULATION CONSTRUCT FULL HEIGHT

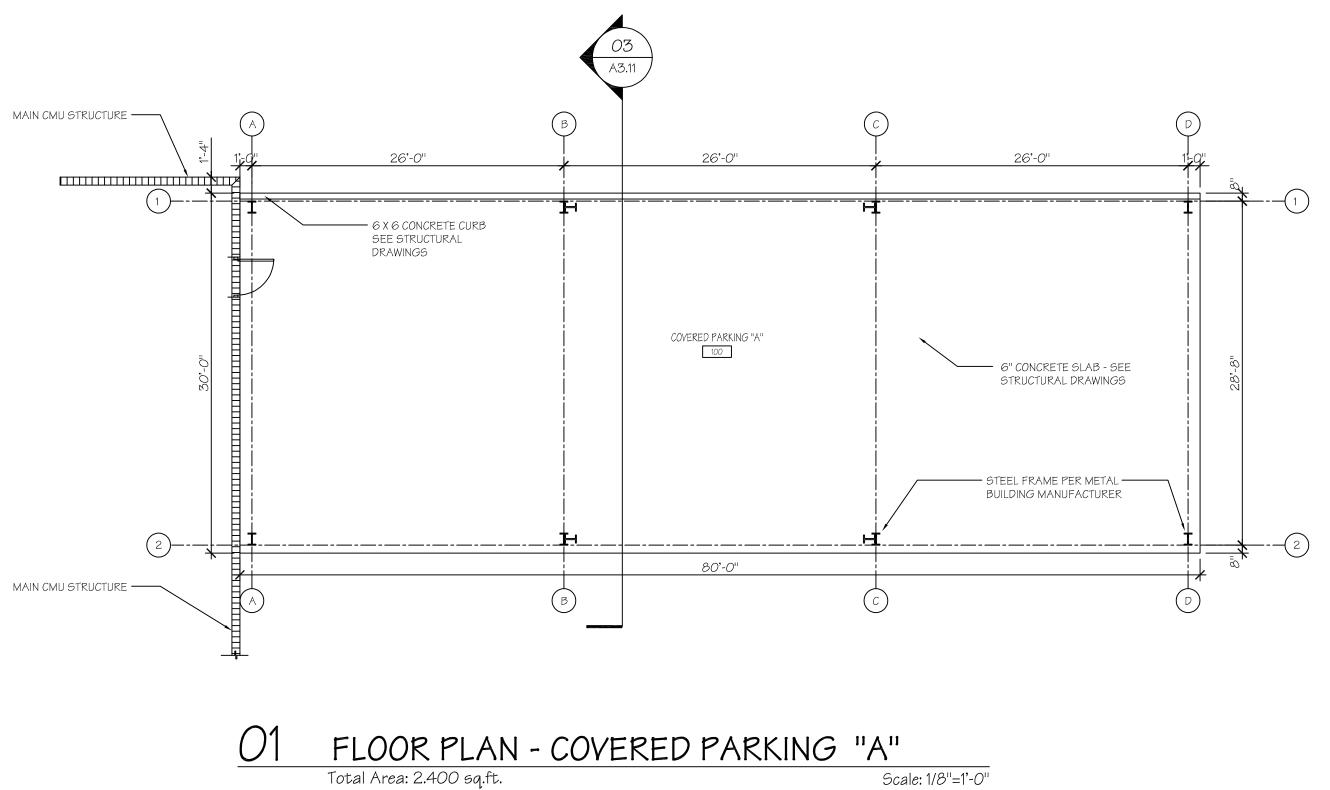
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	E PLAN RE-SUBMISSION
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-	AWING UPDATES
	DG DEPT COMMENT
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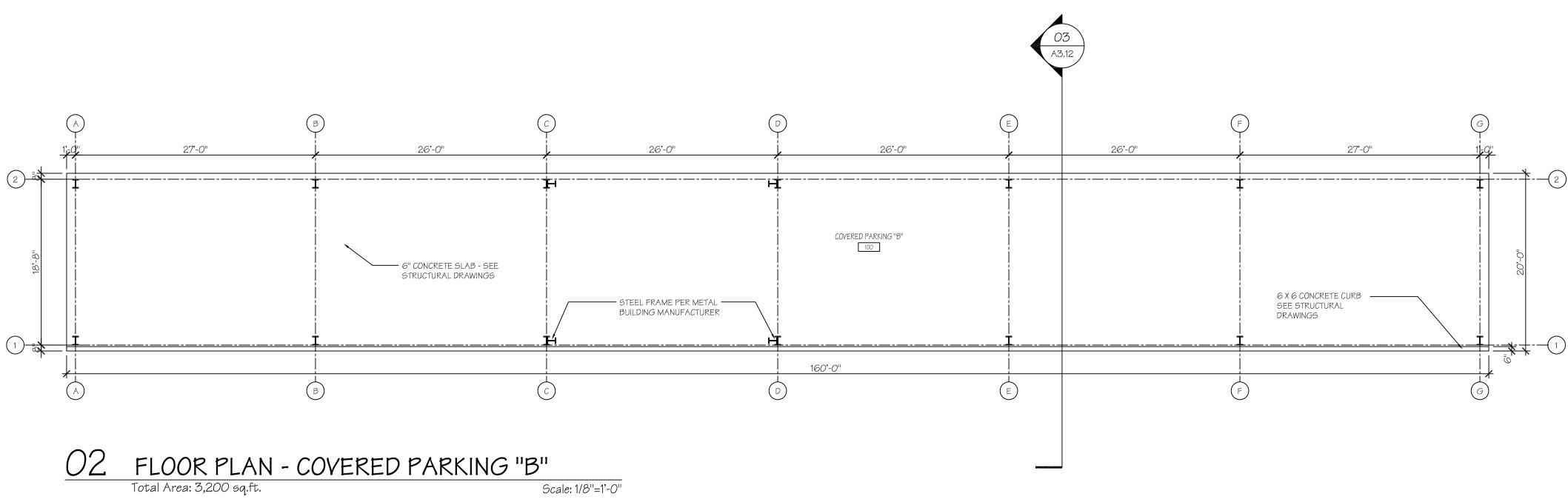
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Project: NEW PROPOSED

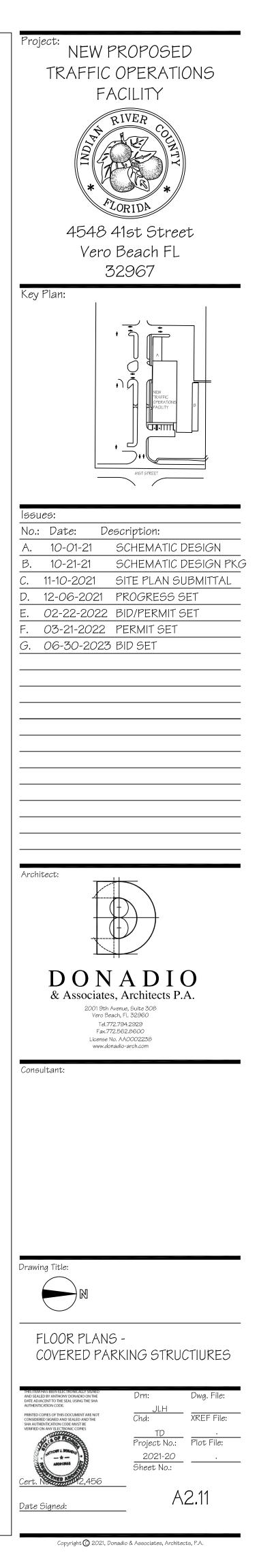
2 PALLET RACK STORAGE SYSTEM BY OWNER; COORDINATE LOCATION WITH OWNER.

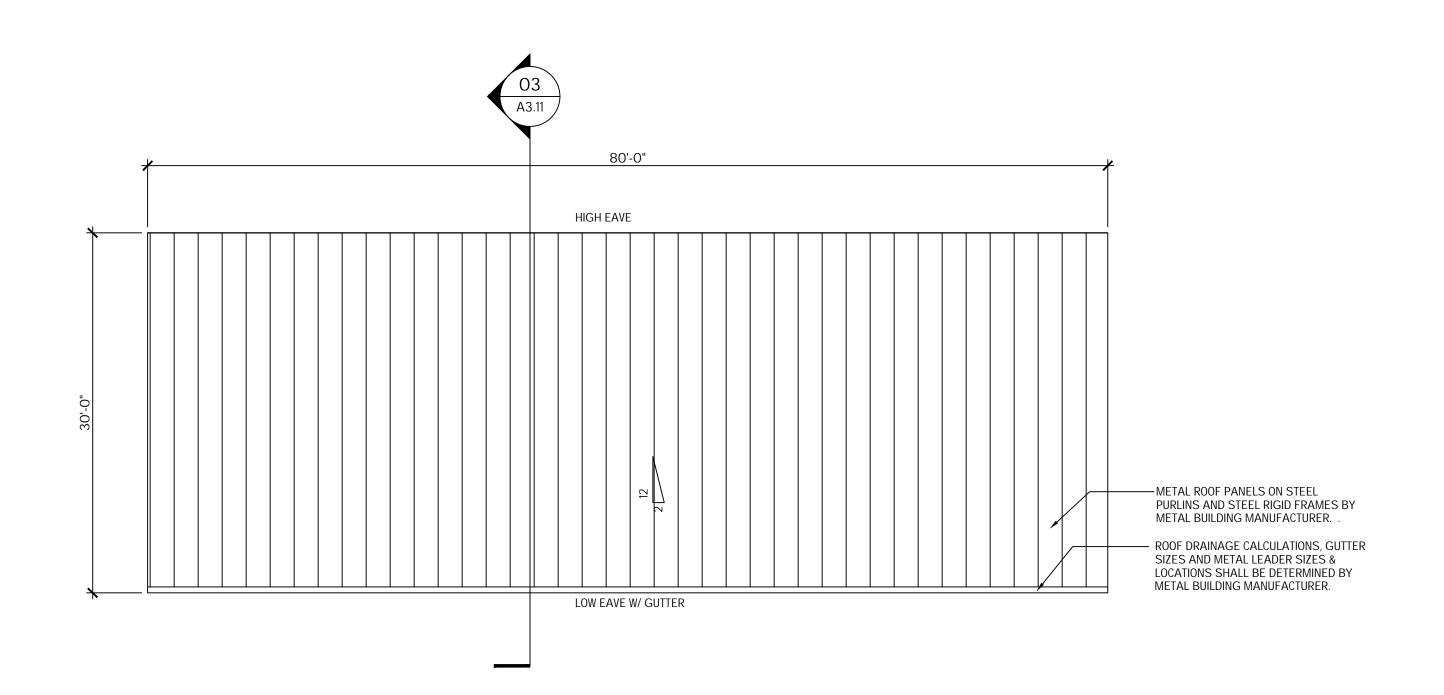
- 3 EQUIPMENT BY OWNER
- 4 ALL MODULAR FURNITURE PROVIDED BY OWNER INSTALLED BY G.C.



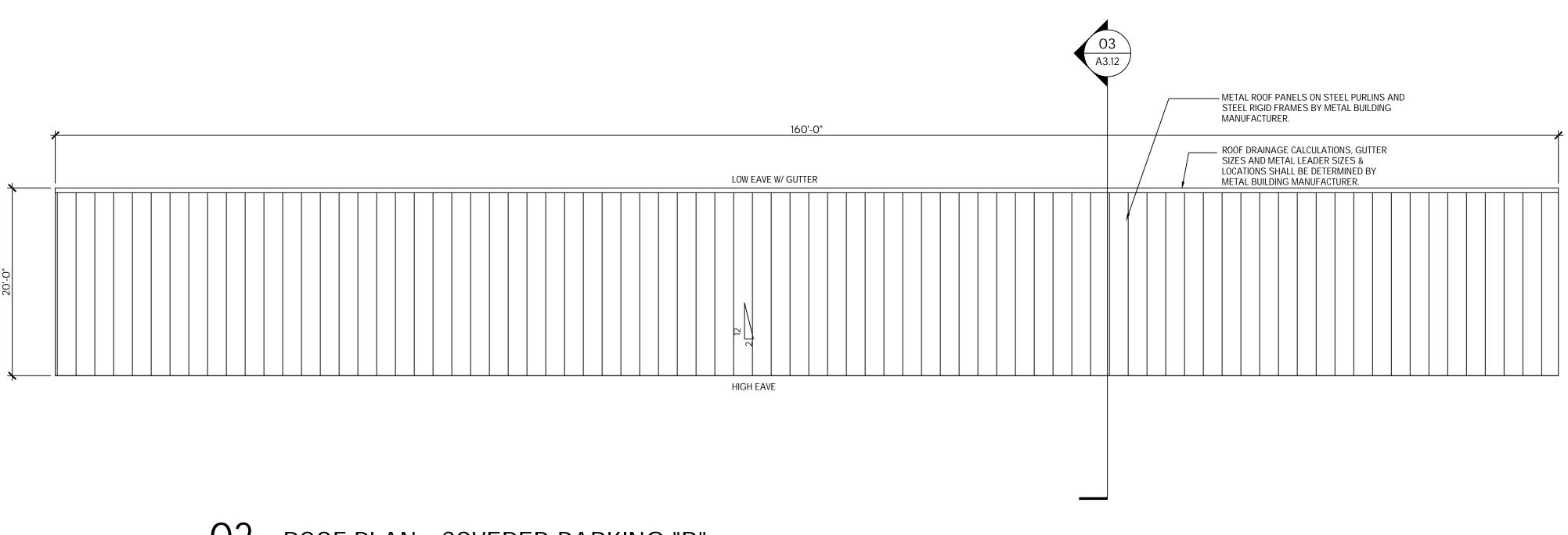


Scale: 1/8"=1'-0"



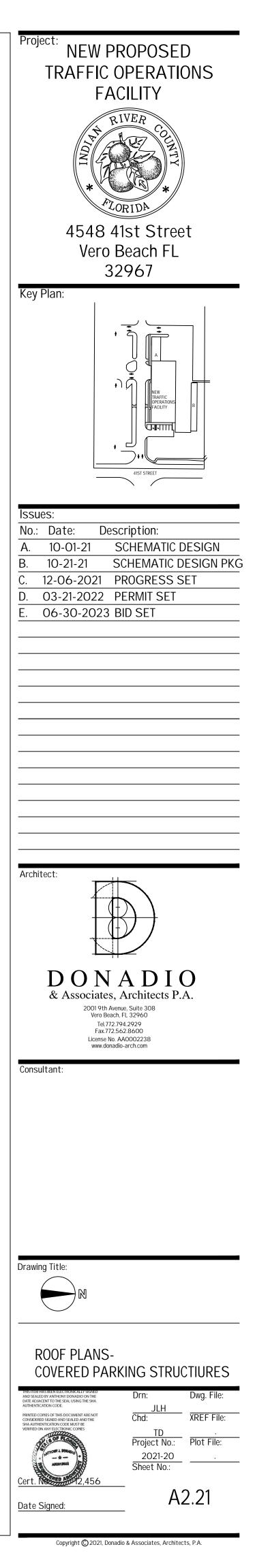


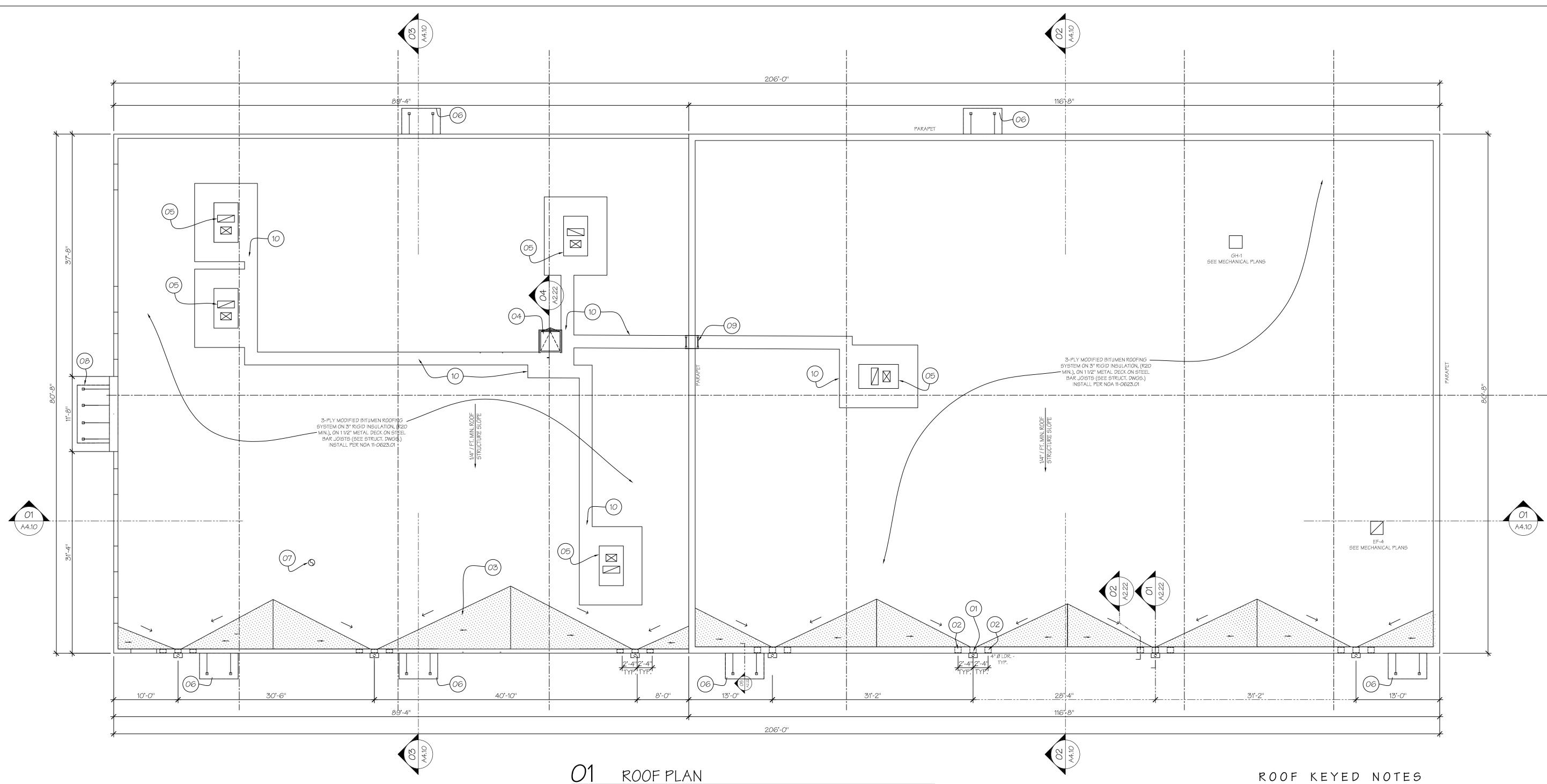
01 ROOF PLAN - COVERED PARKING "A" Scale: 1/8"=1'-0"



02 ROOF PLAN - COVERED PARKING "B"

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





R O O F DRAIN CALCULATIONS

ROOF DRAINAGE CALCUALTIONS

Use 4" diameter leaders throughout.

Scupper sizes are based on a 100 yr. storm, 5" per hour rainfall intensity. FBC 2020 – Plumbing, FBC Section 1106.

I.	Scupper Size Calculations – Upper Roof	III.	<u>Scu</u>
	1) Area of roof to be drained.		1)
	116'-8' x 80'-8" = 9411 SF s.f		
	2) <u>Number of Scuppers</u>		2)
	Four (4) scuppers for upper roof section: Each scupper will drain: 9411 sq. ft. $\div 4 = 2353$ sq. ft.		
	3) <u>Size of Scupper:</u>		3)
	One (1) 12" weir length x 4" head will drain 5384 sq.ft. Use 12" x 8" scuppers throughout.		
II.	Leader Size Calculations – Upper Roof	IV.	Lead
	1) <u>Number of Leaders</u>		1)
	Four (4) leaders for upper roof section: Each leader will drain; 9411 sq. ft. $\div 4 = 2353$ sq. ft.		
	2) <u>Size of Leader:</u>		2)
	FBC Table 1106.2(1). One (1) 4" diameter leader will drain 3,680 sq.ft.		

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

Scupper Size Calculations - Lower Roof

1) Area of roof to be drained.

89'-4" x 80'-8" = 7206 SF s.f..

2) Number of Scuppers

Three (3) scuppers for lower roof section: Each scupper will drain: 7206 sq. ft. \div 3 = 2402 sq. ft.

3) Size of Scupper:

One (1) 12" weir length x 4" head will drain 5384 sq.ft.

Use 12" x 8" scuppers throughout.

Leader Size Calculations - Lower Roof

1) <u>Number of Leaders</u>

Three (3) leaders for lower roof section: Each leader will drain; 7206 sq. ft. \div 3 = <u>2402 sq. ft.</u>

Size of Leader:

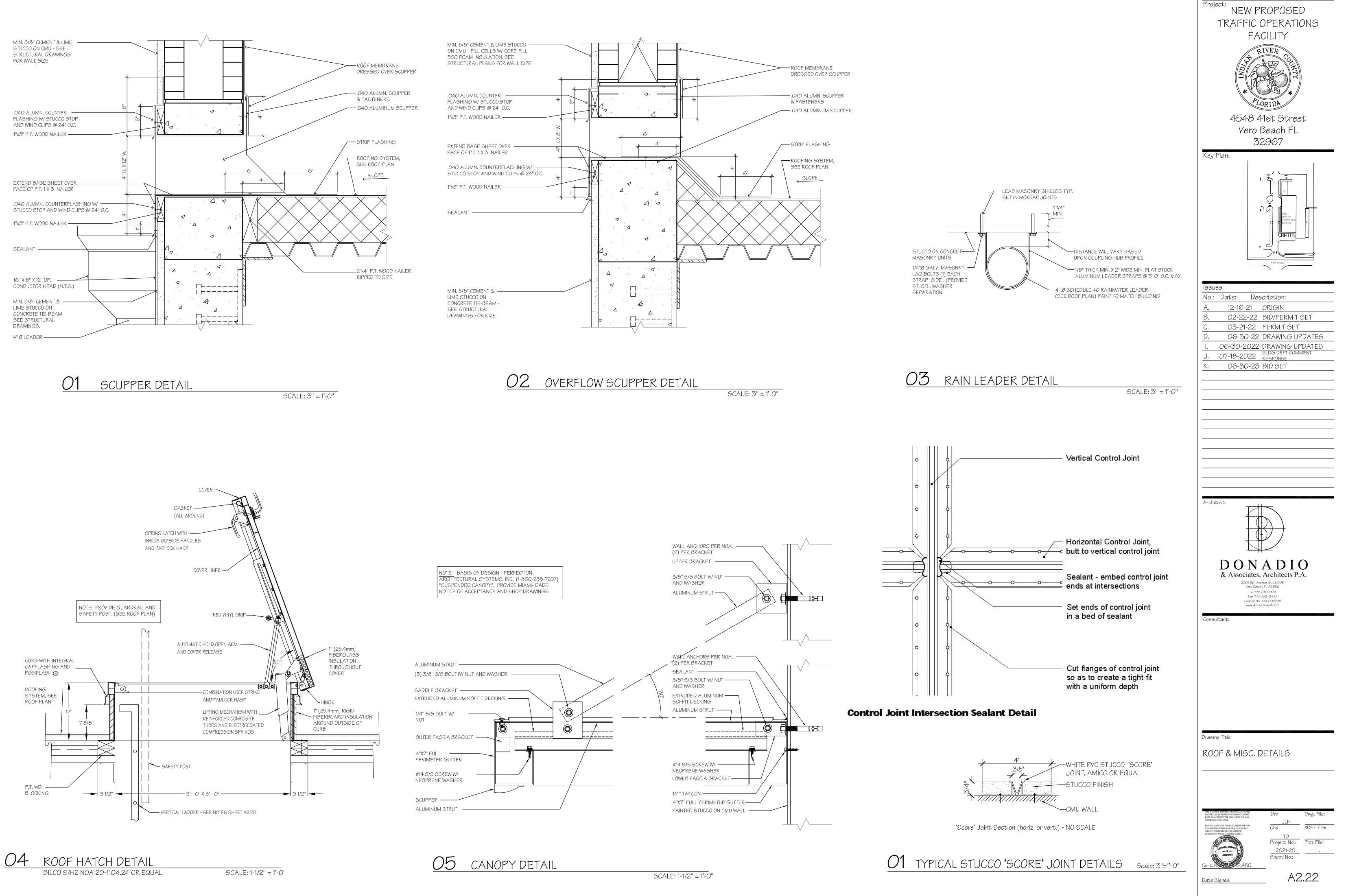
FBC Table 1106.2(1). One (1) 4" diameter leader will drain 3,680 sq.ft. Use 4" diameter leaders throughout.

- 01 12" WIDE X 4" HIGH SCUPPER AND 12" X 8" X 12" DP. CONDUCTOR HEAD. SET SCUPPER BOTTOM FLUSH WITH ROOF SURFACE AT PARAPET WALL. SEE DETAIL 01/A2.21.
- 02 8" WIDE X 4" HIGH OVERFLOW SCUPPER. SET BOTTOM AT 2" MIN. TO 4" MAX. ABOVE ROOF SURFACE AT PARAPET WALL. SEE DETAIL 02/A2.21.
- SHADED AREAS DENOTE TAPERED INSULATION TO DIRECT WATER TO SCUPPERS, TYPICAL. 03
- 3'-0" X 3'-0" ROOF HATCH W/ ALUM. GUARDRAIL & SAFETY POST, SEE DET. 04/A2.21. 04 VERTICAL STEEL LADDER:
 - 3/8" X 2" FLAT SIDE BARS @ MIN. 16" APART (CLEAR). • 13/16" DIAM. ROUND RUNGS @ MAX. 12" APART (CENTER TO CENTER).
 - 3/8" X 2" FLAT BAR ANGLE STAND OFF BRACKETS @ TOP, BOTTOM AND TWO EQUIDISTANT INTERMEDIATE LOCATIONS, CLEARANCE FROM CENTERLINE OF RUNG TO WALL SURFACE SHALL BE 7" MINIMUM.

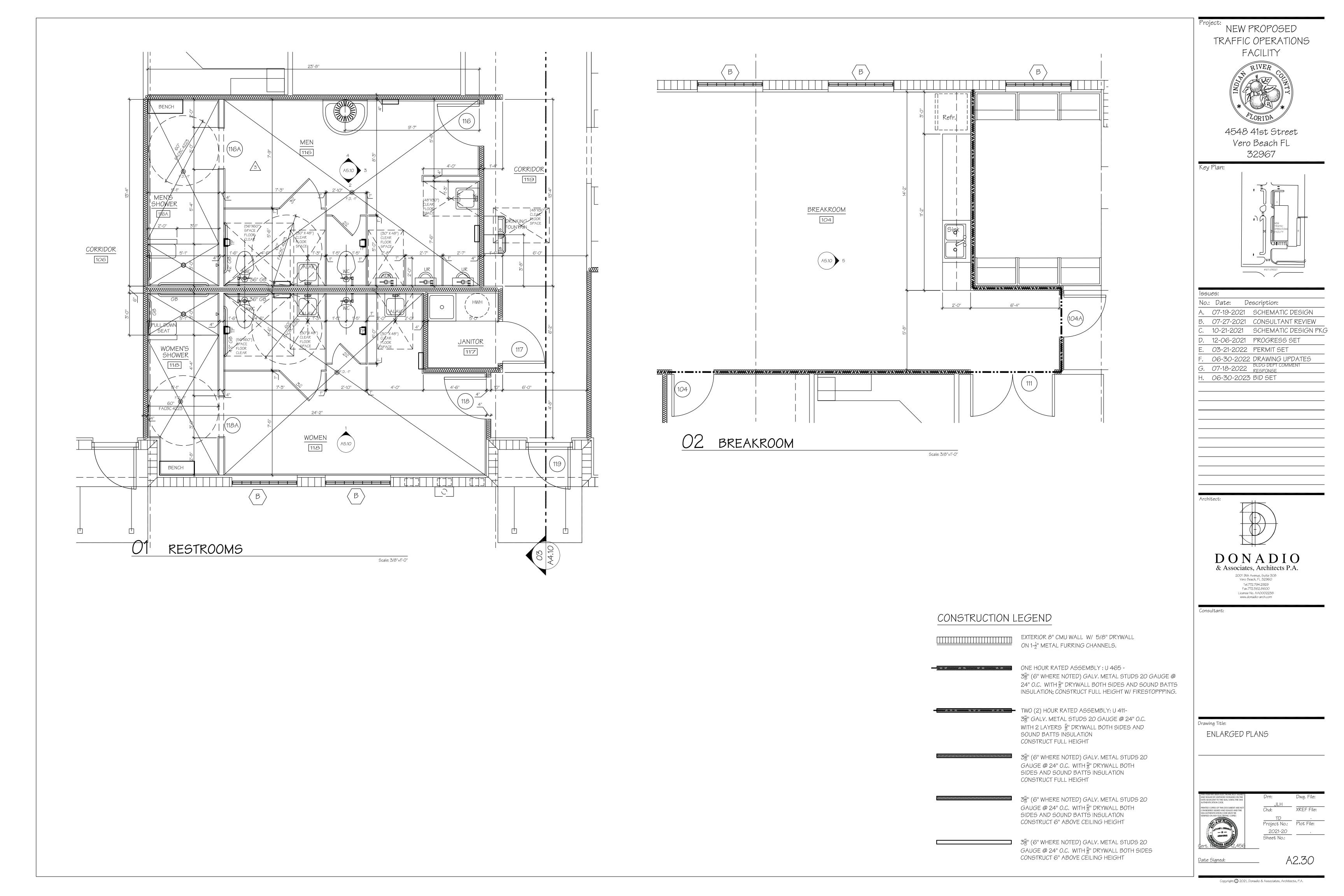
PROVIDE BILCO BL-S-4 MILD STEEL VERTICAL LADDER OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE FULL SHOP DRAWINGS.

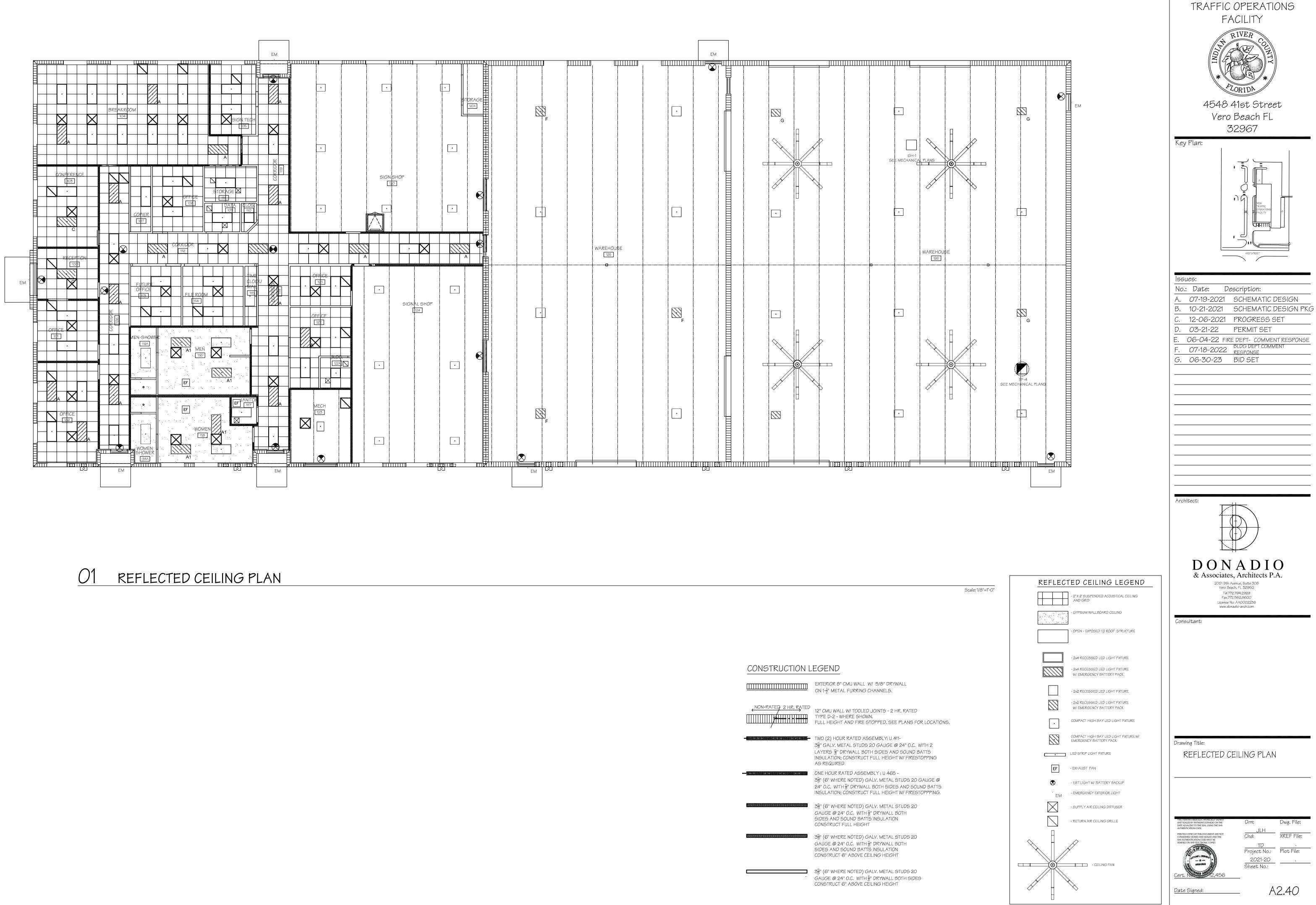
- 05 ROOF TOP A/C UNIT, SEE MECHANICAL DRAWINGS. VERIFY LOCATION WITH STRUCTURAL DRAWINGS.
- 6'-0" X 4'-0" SUSPENDED ALUMINUM CANOPY OVER DOOR/ DOOR OPENING, SEE DETAIL 05/A2.21.
- (07) EXHAUST FAN ROOF JACK.
- CUSTOM SUSPENDED RADIUSED ALUM. CANOPY. SEE MANUFACTURERS SHOP DRAWINGS. 08)
- ALUM.FIXED LADDER OVER PARAPET, COMPLIANT WITH 09 ANSI/ALI A14.3-2008, AMERICAN NATIONAL STANDARD (ASC) FOR LADDERS. LADDER TO HAVE A GRATING PLATFORM ABOVE PARAPET AND SHALL BE BRACKETED TO BOTH SIDES OF PARAPET. LADDER SHALL NOT BE ATTACHED TO ROOF. SUBMIT SHOP DRAWINGS FOR APPROVAL.
- (10)COORDINATE LOCATION OF WALKWAYS WITH MECHANICAL PLANS. WALKWAYS SHALL BE DESIGNED IN ACCORDANCE W FBC REQUIREMENTS.

	ROPOSED
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В. 02-22-22	SITE PLAN APPROVAI PERMIT SET
D. 06-30-22	DRAWING UPDATES
L 07 18 2022 E	DRAWING UPDATES
<u>K.</u> 06-30-23	RESPONSE BID SET
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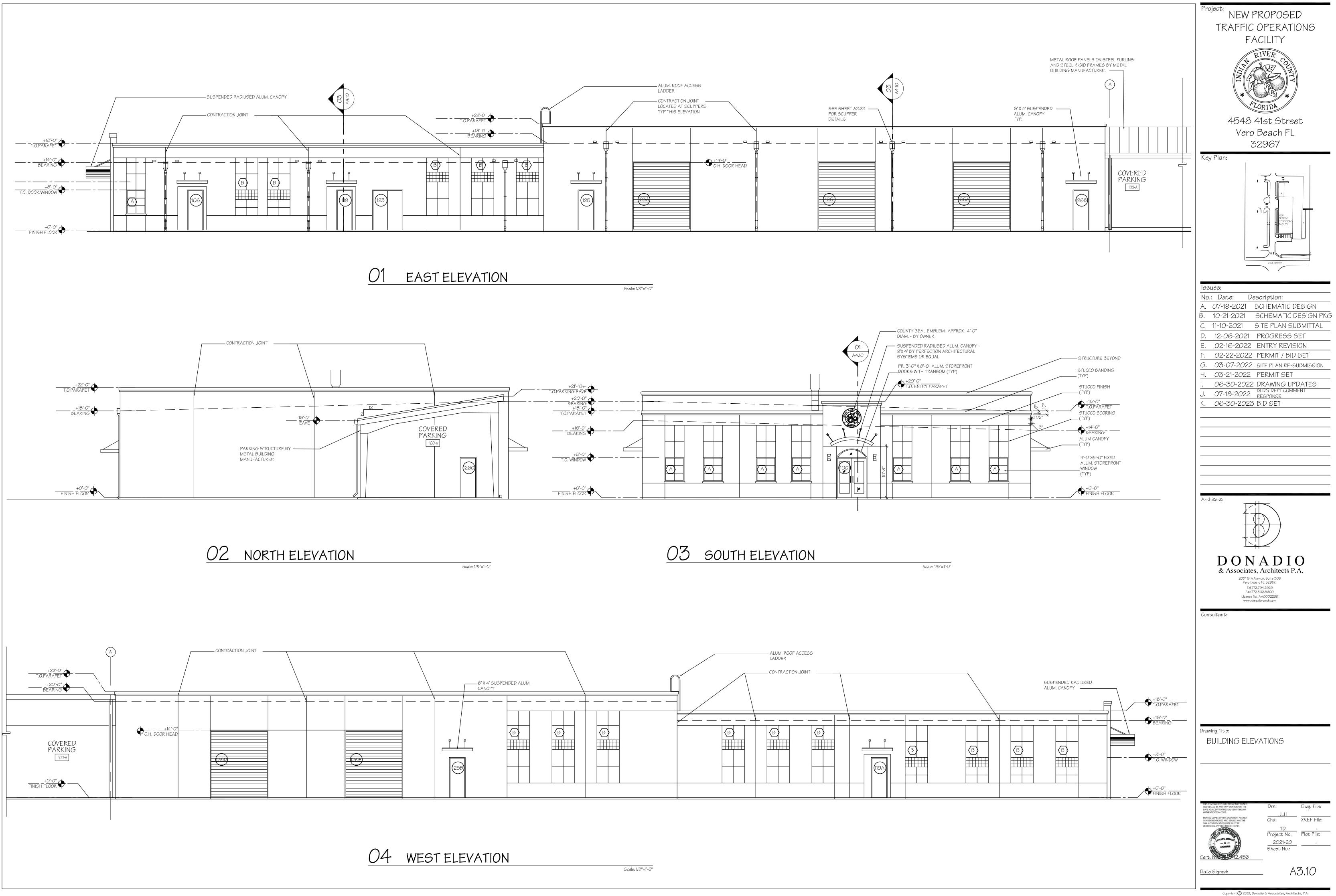


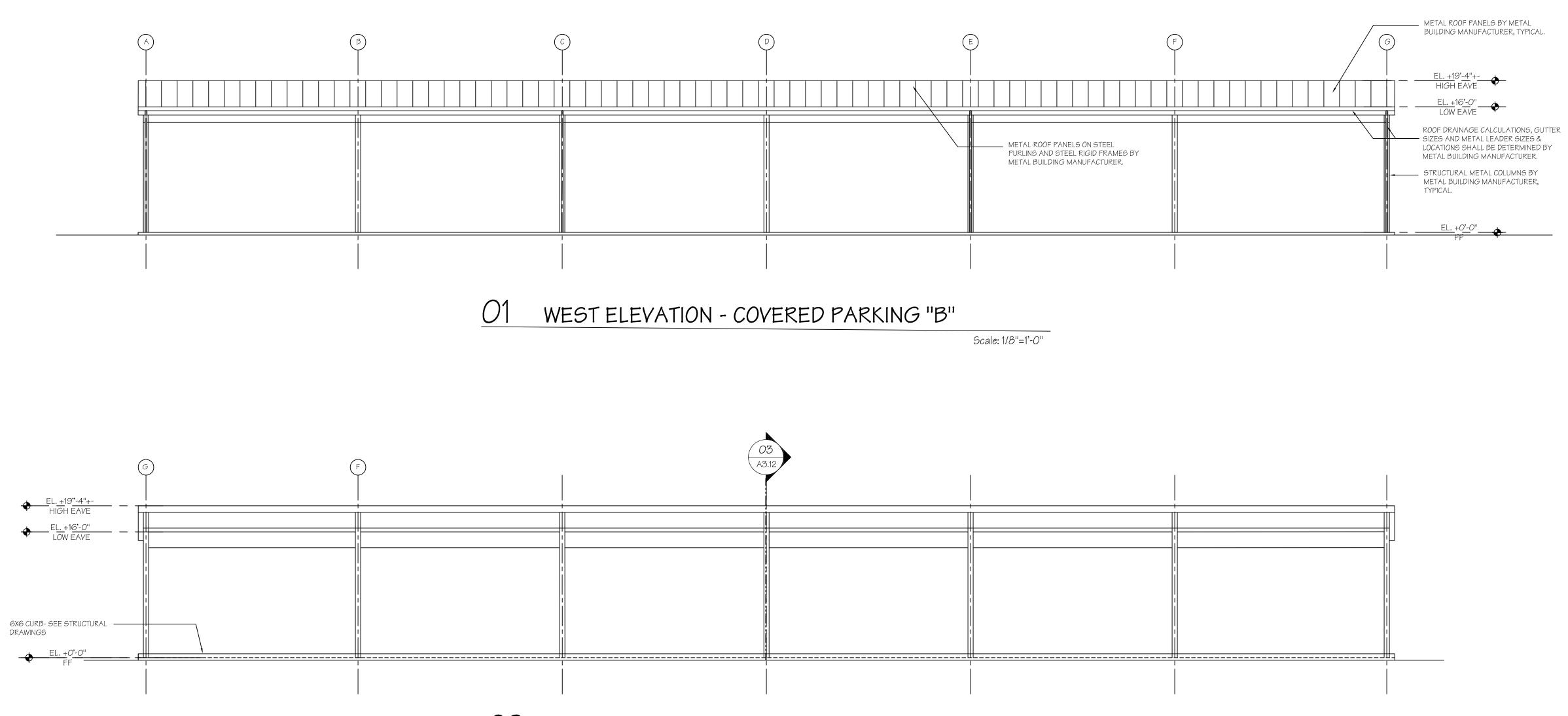


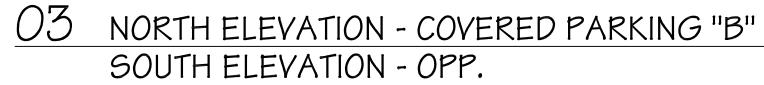
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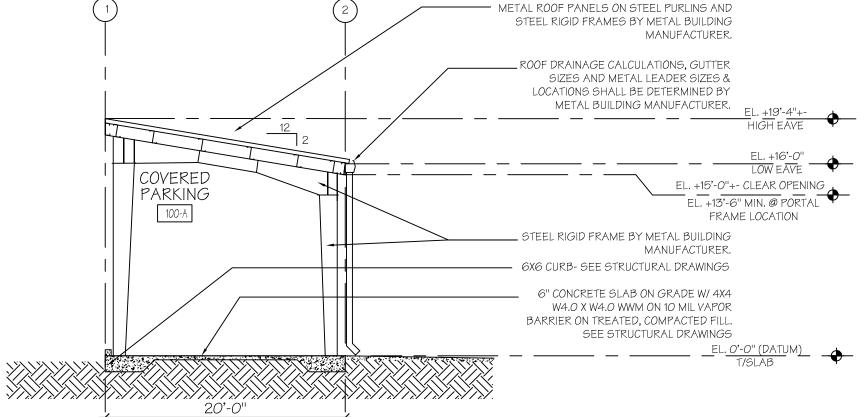
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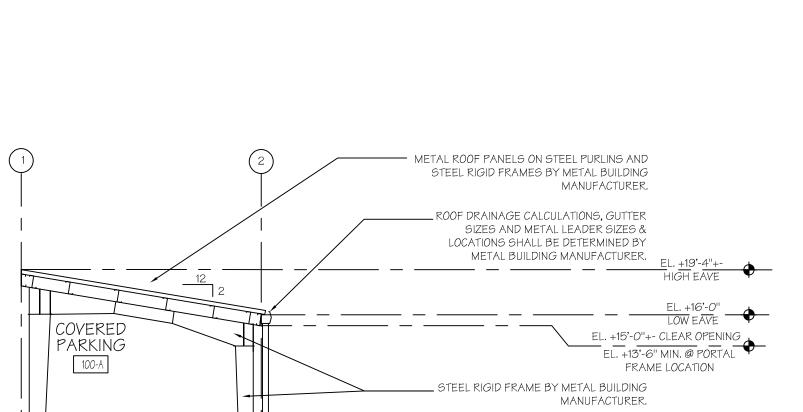
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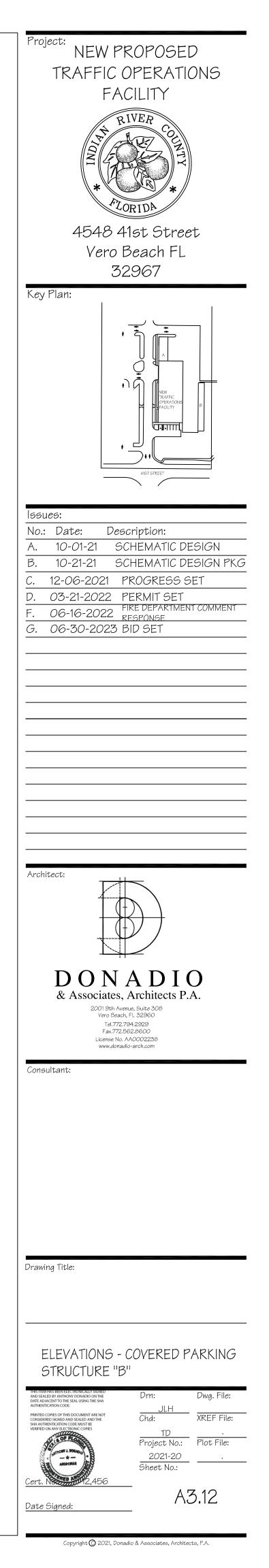


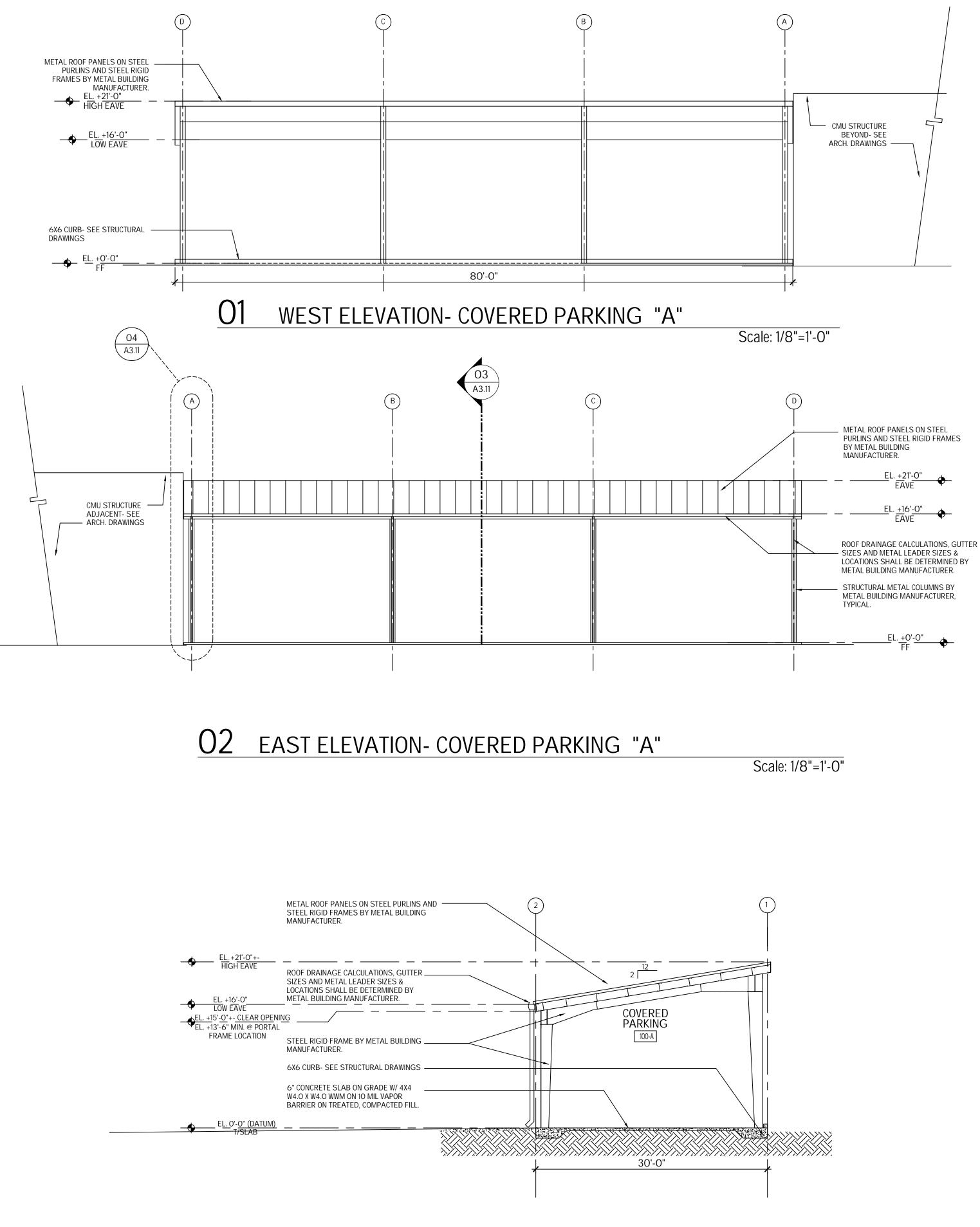




O2 EAST ELEVATION - COVERED PARKING "B"

Scale: 1/8''=1'-0''

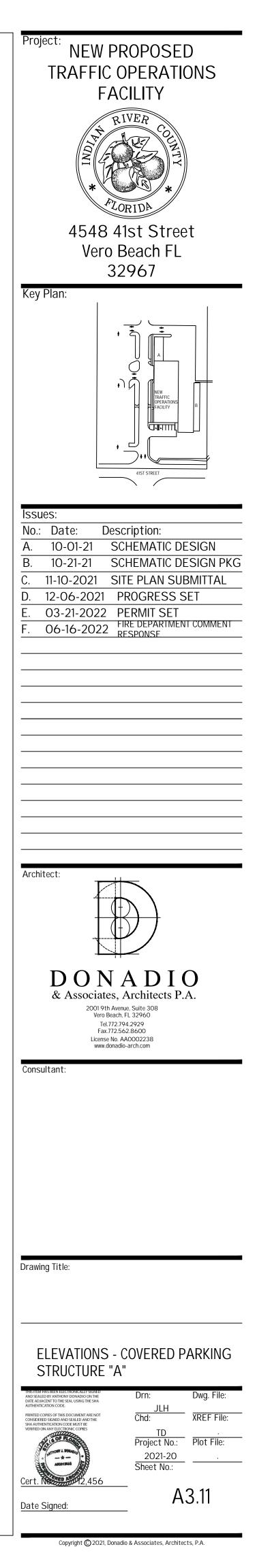


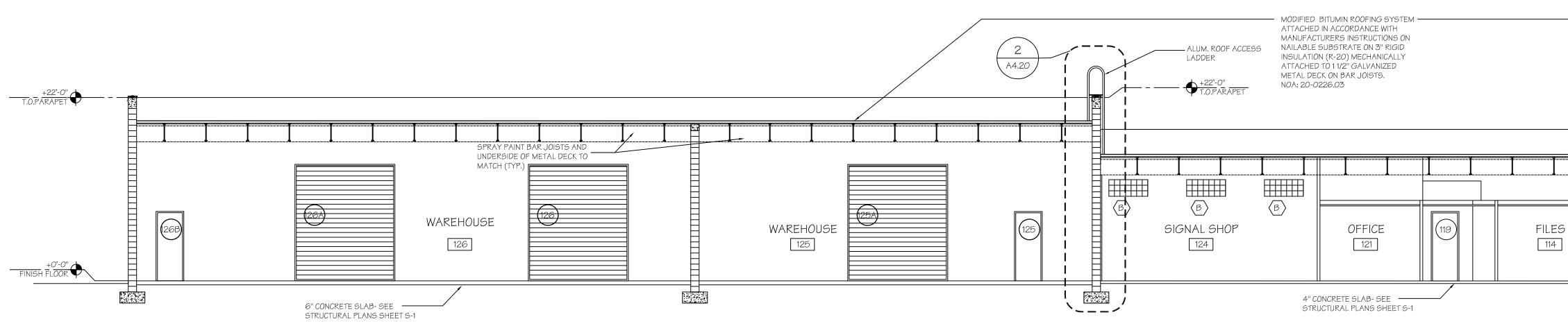


03

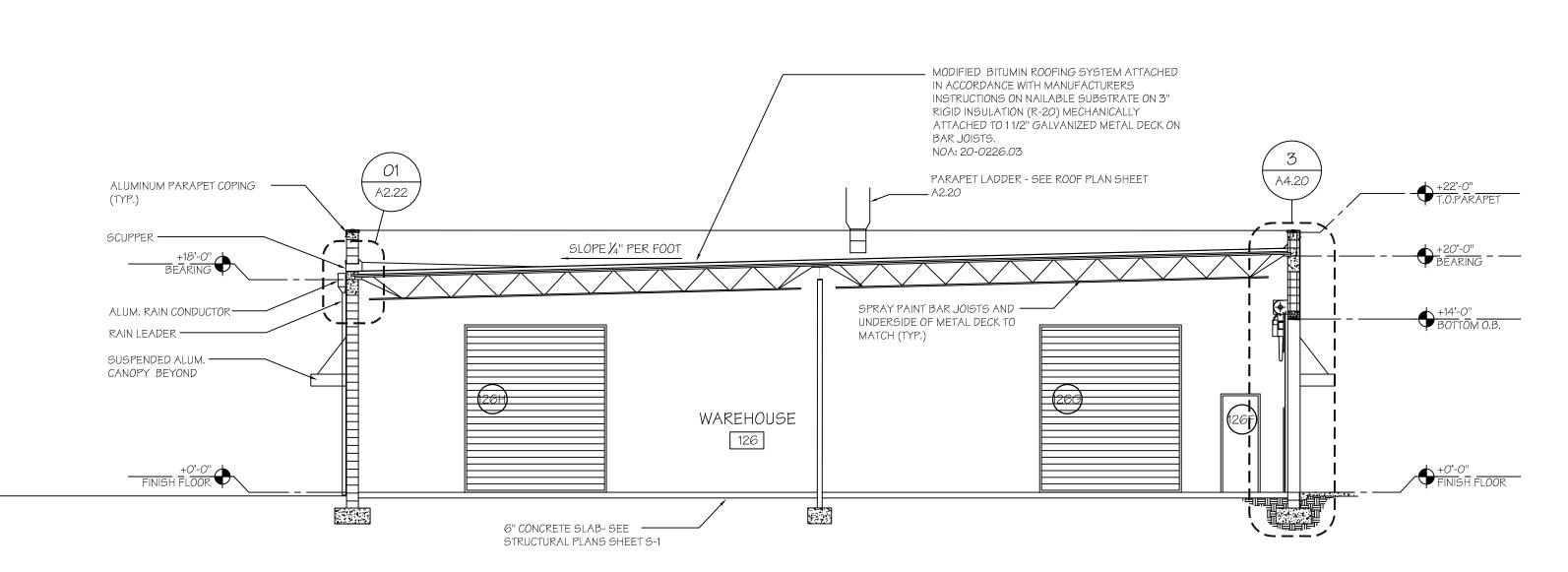
SOUTH ELEVATION- COVERED PARKING "A" NORTH ELEVATION - OPP HAND.

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



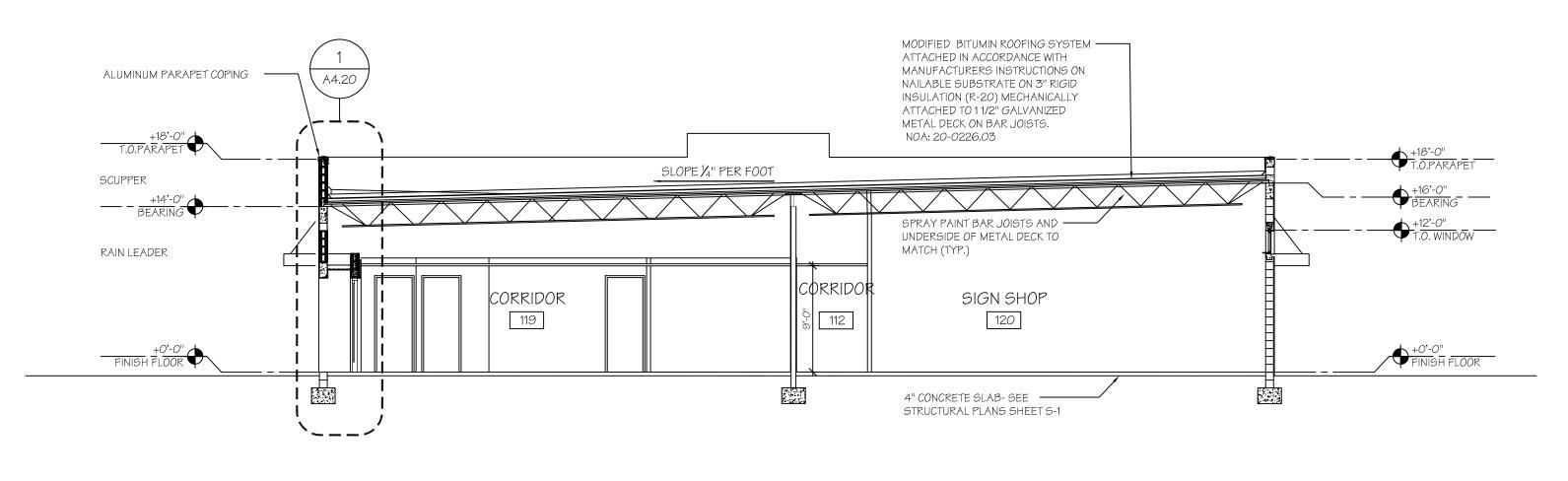


01



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

02 BUILDING SECTION

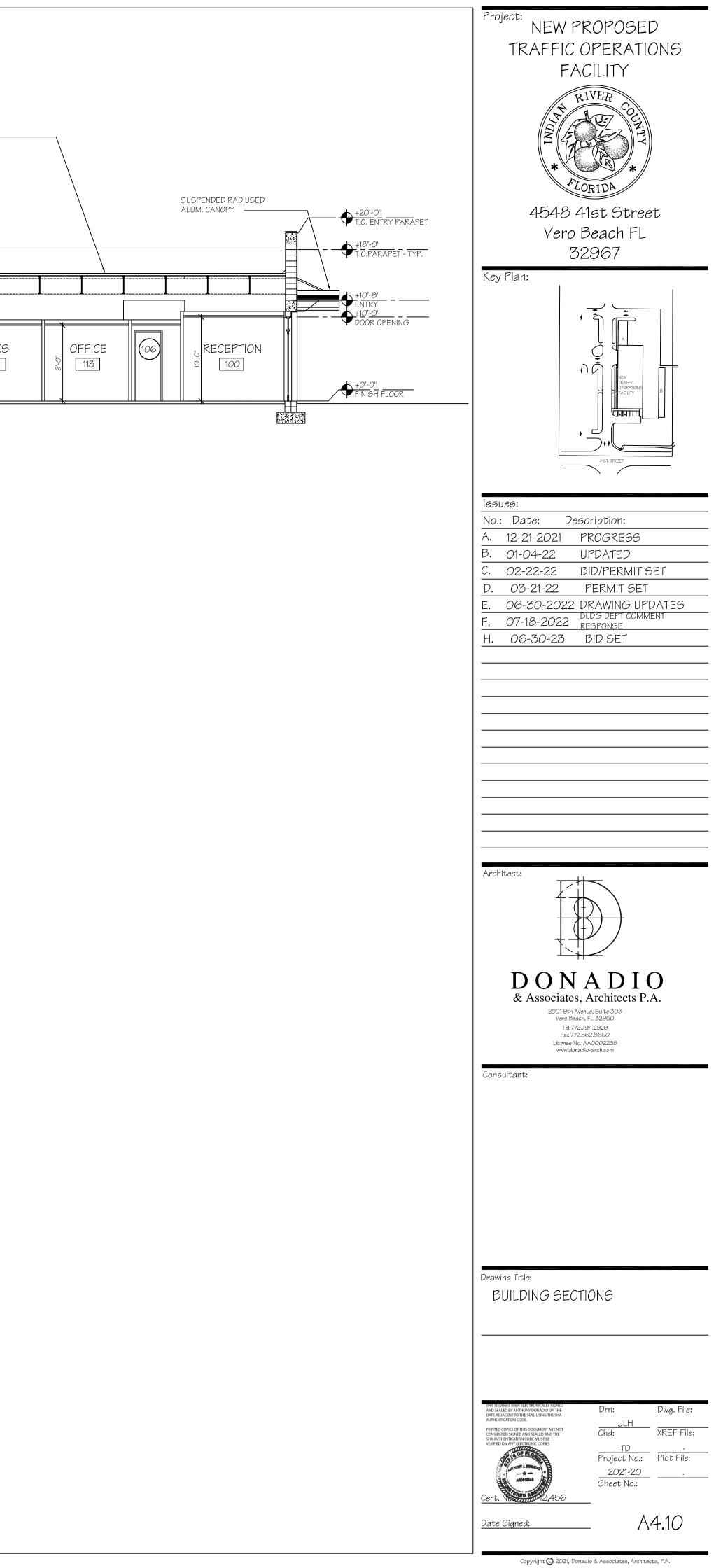


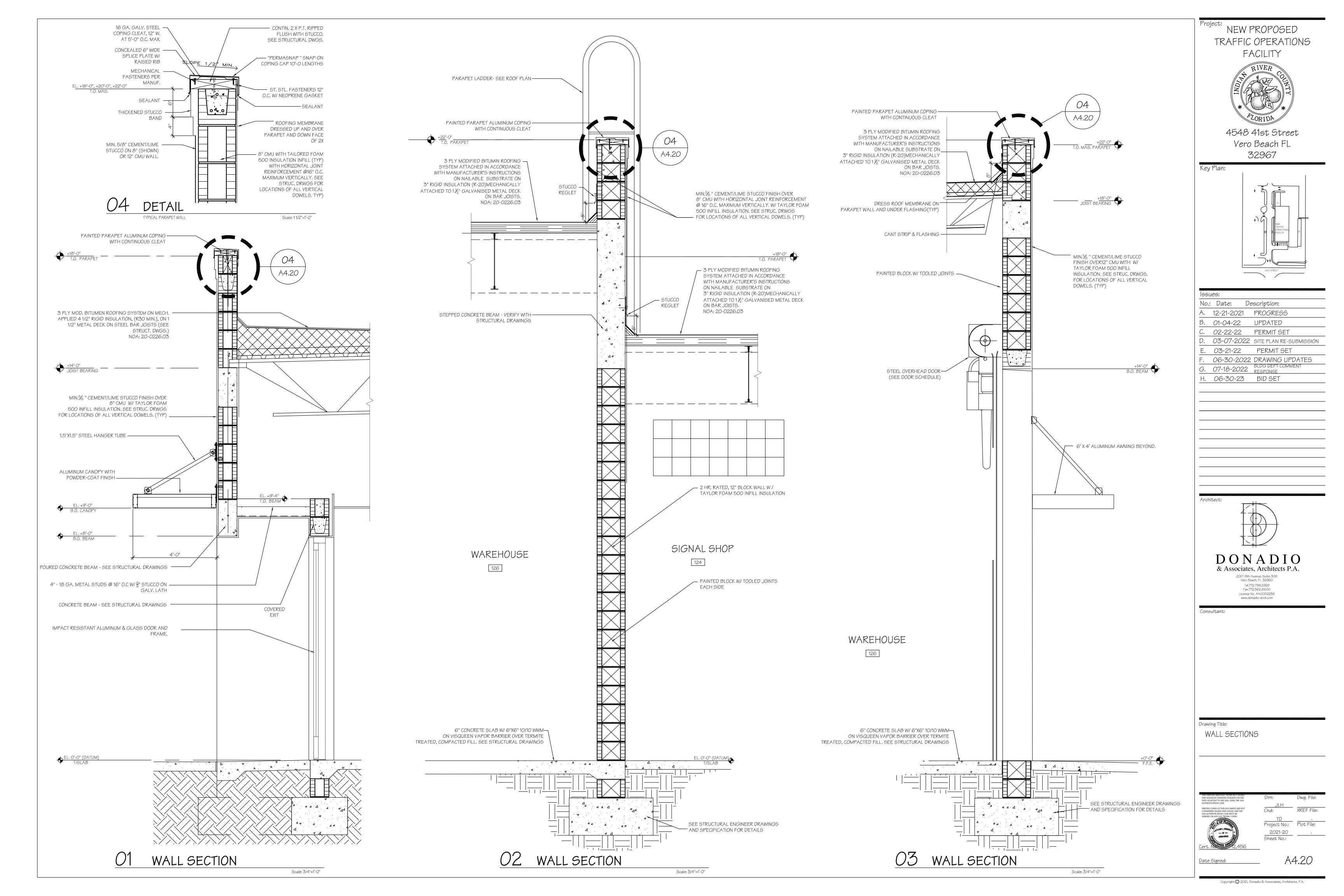
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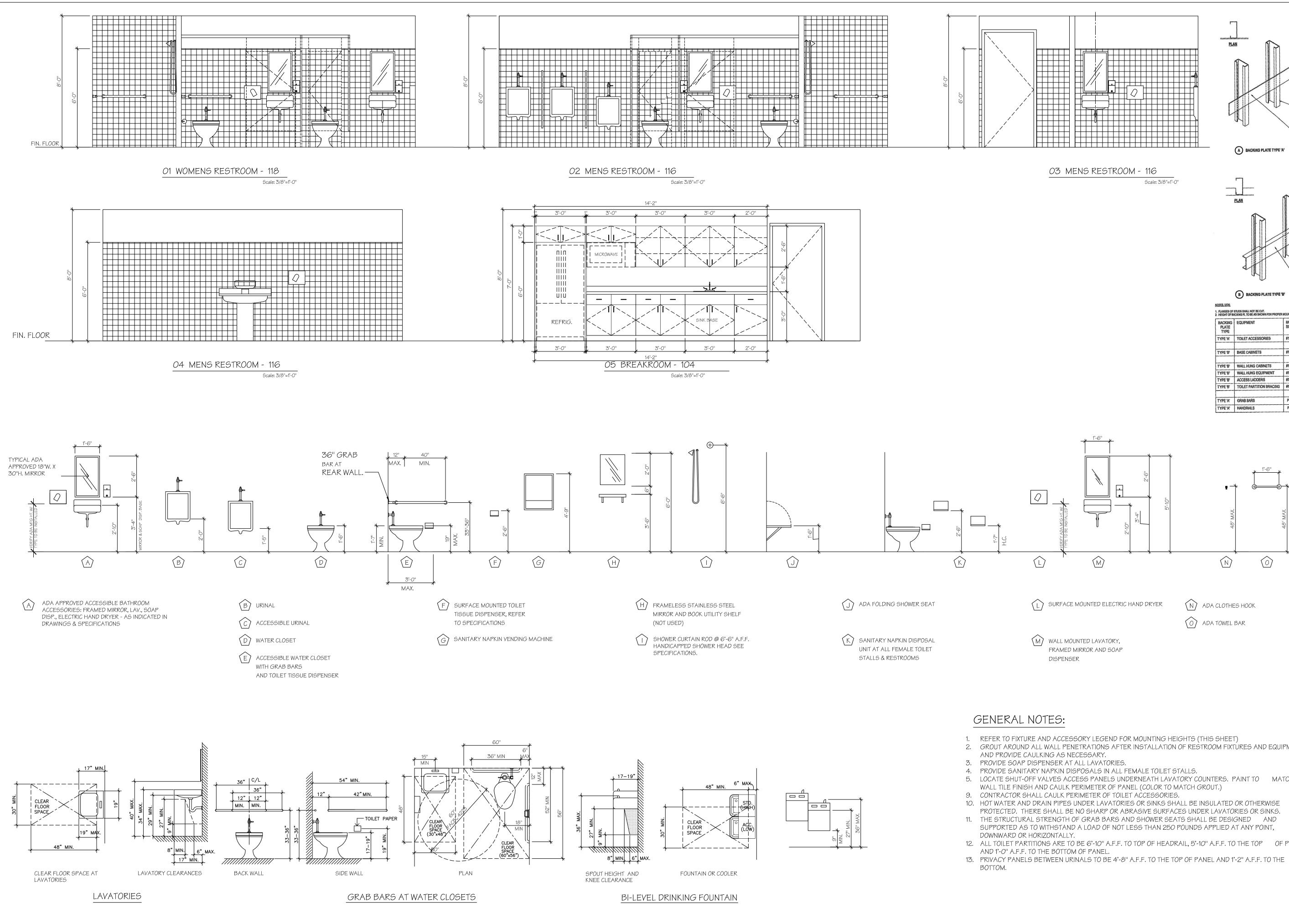
03 BUILDING SECTION

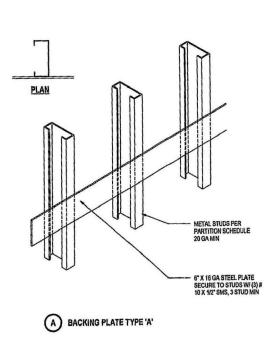
BUILDING SECTION

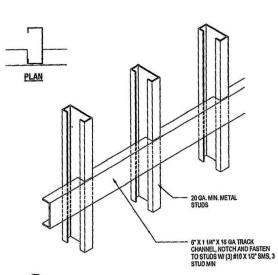
Scale: 1/8"=1'-0"











B BACKING PLATE TYPE 'B'

BACKING PLATE TYPE	EQUIPMENT	MOUNTING SCREWS
TYPE 'A'	TOILET ACCESSORIES	#10 SELF-TAPPING SCREWS
TYPE 'B'	BASE CABINETS	#12 SELF-TAPPING SCREWS
TYPE 'B'	WALL HUNG CABINETS	#14 SELF-TAPPING SCREWS
TYPE 'B'	WALL HUNG EQUIPMENT	#14 SELF-TAPPING SCREWS
TYPE 'B'	ACCESS LADDERS	#14 SELF-TAPPING SCREWS
TYPE 'B'	TOILET PARTITION BRACING	#14 SELF-TAPPING SCREWS
TYPE 'A'	GRAB BARS	PER MANUFACTURER
TYPE 'A'	HANDRAILS	PER MANUFACTURER

4548 41st Street Vero Beach FL 32967 Key Plan: lssues: No.: Date: Description: A. 07-19-2021 SCHEMATIC DESIGN B. 07-27-2021 CONSULTANT REVIEW

C. 10-21-2021 SCHEMATIC DESIGN PKG

D. 12-06-2021 PROGRESS SET E. 02-22-2022 BID/PERMIT SET

F. 03-21-2022 PERMIT SET G. 07-18-2022 BLDG DEPT COMMEN RESPONSE

H. 06-30-2023 BID SET

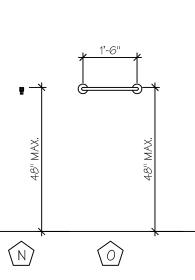
NEW PROPOSED

TRAFFIC OPERATIONS

FACILITY

Project:

	<u>+ 1'-6"</u> <u>+</u> −	¥
VERIEY ADA MTG HT. W/		5'-10"



N ADA CLOTHES HOOK

0 ADA TOWEL BAR

GROUT AROUND ALL WALL PENETRATIONS AFTER INSTALLATION OF RESTROOM FIXTURES AND EQUIPMENT,

5. LOCATE SHUT-OFF VALVES ACCESS PANELS UNDERNEATH LAVATORY COUNTERS. PAINT TO MATCH

PROTECTED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS.

12. ALL TOILET PARTITIONS ARE TO BE 6'-10" A.F.F. TO TOP OF HEADRAIL, 5'-10" A.F.F. TO THE TOP OF PANEL

Architect: DONADIO & Associates, Architects P.A. 2001 9th Avenue, Suite 308 Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238 www.donadio-arch.com

Consultant:

Drawing Title: INTERIOR ELEVATIONS TOILET FIXTURE NOTES/ DIMENSIONS ADA DIMENSION DETAILS

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Project No.: 2021-20 Sheet No.:

Date Signed:

REF File: Plot File:



R NUMBER			DOC	OR			FRA	ME												
0	DOOR SIZE		DOOR TYPE	MATERIAL	GLASS	FINIGH	FRAME TYPE	MATERIAL	DETAI	STRIKE JAMB	HINGE JAMB	TRANSOM	HEAD	THRESHOLD	IRE RATING (IN MINUTES)	HARDWARE GROUP				
DOOR	WIDTH X HEIGHT	THICKNESS	DQ	μ Μ	CLA	ШN	FR/	MA	SILL	STR JAN	AIH AL				Π N M N M N	HA	 			
100	(2) 3'-O" X 8'-O"	1 3/4"	A	SF	IRG	AN	2A	AL	52/A6.20		J2/A6.20		H2/A6.20	ADA		03				
100A	3'-0" X 7'-0"	1 3/4"	С	SCW	-	F	3	НМ	61/A6.20		J1/A6.20		H1/A6.20	-		14				
101 102	3'-0'' X 7'-0'' 3'-0'' X 7'-0''	1 3/4" 1 3/4"	C C	SCW SCW	-	F F	3 3	HM HM	61/A6.20 61/A6.20		J1/A6.20 J1/A6.20		H1/A6.20 H1/A6.20	-		16 16				
103 104	3'-0'' X 7'-0'' 3'-0'' X 7'-0''	1 3/4" 1 3/4"	F	SCW SCW	TP RG	F	3 3	HM HM	61/A6.20 61/A6.20		J1/A6.20 J1/A6.20		H1/A6.20 H1/A6.20	_	90	17 19				
104A	3'-0" X 7'-0"	1 3/4"	Н	SCW	RG	F	3	НМ	61/A6.20		J1/A6.20		H1/A6.20		90	19				
105 106	3'-0'' X 7'-0'' 3'-0'' X 8'-0''	1 3/4"	В	НМ	-	F	1	НМ	64/A6.20		J4/A6.20		H4/A6.20	-		02 06				
107 N 108	NOT USED													-		- 02 - 02				
109	3'-0'' X 7'-0''	1 3/4"	С	SCW	-	F	3	HM	61/A6.20		J1/A6.20		H1/A6.20	-		12				
11 <i>O</i> 111	3'-0" X 7'-0" (2) 3'-0" X 7'-0"	1 3/4"	C D	SCW SCW	-	F F	3	HM HM	61/A6.20 61/A6.20		J1/A6.20 J1/A6.20		H1/A6.20 H1/A6.20	-	90	14 07				
112	4'-0" X 8'-0"	1 3/4"	Н	НМ	RG	F	5	НМ	56/A6.21		J6/A6.21		H6/A6.21	-	90	11				
113 114	3'-0" X 7'-0" 3'-0" X 7'-0"	1 3/4"	С	SCW	-	F	3	HM	61/A6.20		J1/A6.20		H1/A6.20	-		02 17				
115 N 116	NOT USED	1 3/4"	С	SCW	-	F	3	НМ	61/A6.20		J1/A6.20		H1/A6.20			- 02 15				
116A	3'-0" X 7'-0"		С.О.			F		GYP								02	GYP. OI			
117 118	3'-0" X 7'-0" 3'-0" X 7'-0"	1 3/4" 1 3/4"	C C	SCW SCW	-	F	4	HM HM	61/A6.20 61/A6.20		J1/A6.20 J1/A6.20		H1/A6.20 H1/A6.20	-		13 15				
118A 119	3'-O'' X 7'-O'' 3'-O'' X 8'-O''	1 3/4"	С.О. Н	SF	IRG	AN	1	GYP AL	65/A6.21		J5/A6.21		H5/A6.21	-		02 04	GYP. OI			
119A	3'-0" X 8'-0"	1 3/4"	Н	SF	IRG	AN	1	AL	65/A6.21		J5/A6.21		H5/A6.21	-		04				
120 120A	3'-0" X 7'-0" (2) 3'-0" X 7'-0"	1 3/4" 1 3/4"	C C	SCW SCW	-	F F	3	HM HM	61/A6.20 61/A6.20		J1/A6.20 J1/A6.20		H1/A6.20 H1/A6.20	-		11 10				
120B 121	(2) 3'-0" X 8'-0" 3'-0" X 7'-0"	1 3/4"	С	SCW	-	F	4	НМ	66/A6.21		J6/A6.21		H6/A6.21		90	09 02				
121	3'-0" X 7'-0"				-									-		02				
122A 123	3'-0" X 7'-0" (2) 3'-0" X 8'-0"	1 3/4"	C D	SCW HM	-	F F	3 2	HM HM	61/A6.20 63/A6.20		J1/A6.20 J3/A6.20		H1/A6.20 H3/A6.20	-		18 05				
124	3'-0" X 7'-0"	1 3/4"	С	SCW	-	F	3	НМ	61/A6.20		J1/A6.20		H1/A6.20	-		11				
124A 125	(2) 3'-0" X 7'-0" 3'-0" X 8'-0"	1 3/4" 1 3/4"	C B	SCW HM		F F	4	HM	66/A6.21 63/A6.20		J6/A6.21 J3/A6.20		H6/A6.21 H3/A6.20	-	90	08 06				
125A 125B	12'-0'' X 14'-0'' 3'-0'' X 8'-0''	- 1 3/4"	G B	НМ		F	1	НМ	68/A6.21 63/A6.20		J8/A6.21 J3/A6.20		H8/A6.21 H3/A6.20			01 06	0'			
126	12'-0'' X 14'-0''	-	G	1 1101	-	F	I	1 11 11	68/A6.20		J8/A6.21		H3/A6.20	-		01	0			
126A 126B	12'-0" X 14'-0" 3'-0" X 8'-0"	- 13/4"	G B	НМ	-	F F	1	НМ	68/A6.21 63/A6.20		J8/A6.21 J3/A6.20		H8/A6.21 H3/A6.20	-		01 06	0			
1260	3'-0" X 8'-0"	1 3/4"	В	НМ	-	F	1	НМ	63/A6.20		J3/A6.20		H3/A6.20	-		06				
126D 126E	12'-0" X 14'-0" 12'-0" X 14'-0"	-	G G		-	F F			68/A6.21 68/A6.21		J8/A6.21 J8/A6.21		H8/A6.21 H8/A6.21	-		01 01	0' 0'			
126F 126G	3'-0" X 7'-0" 12'-0" X 14'-0"	1 3/4"	C G	SCW	-	F	3	HM -	63/A6.20* 68/A6.21		J3/A6.20* J8/A6.21		H3/A6.20 [°] H8/A6.21	*		14 01	0			
126H	12'-O" X 14'-O"	-	G	-	-	F	-	-	68/A6.21		J8/A6.21		H8/A6.21			01	0			
AL = ALUI ALG = ALL LVR = FULI	JMINUM & GLASS	HCW = HC $SCW = SC$ $WD = WC$ $CL = CH$	olid coi	RE WOOD		STL TP =	= STEE TEMPE			FRE WR =	= SAFET = FRENCH = WIRE GL = ANODIZE	I SINGL ASS		SF BV	= PLASTIC = STOREF = BIRCH VE	RONT ENEER				

566A 1 EA THRESHOLD TO MATCH EXISTING EVEREST KEY SYSTEM

2 EA SURFACE CLOSER

2 EA DOOR SWEEP

KICK PLATE

GASKETING

RAIN DRIP

2 EA

1 EA

1 EA

11A

39A

4040XP SCUSH

8144SBK PSA

8400 10" X 1" LDW B-CS

689

630

BK

A

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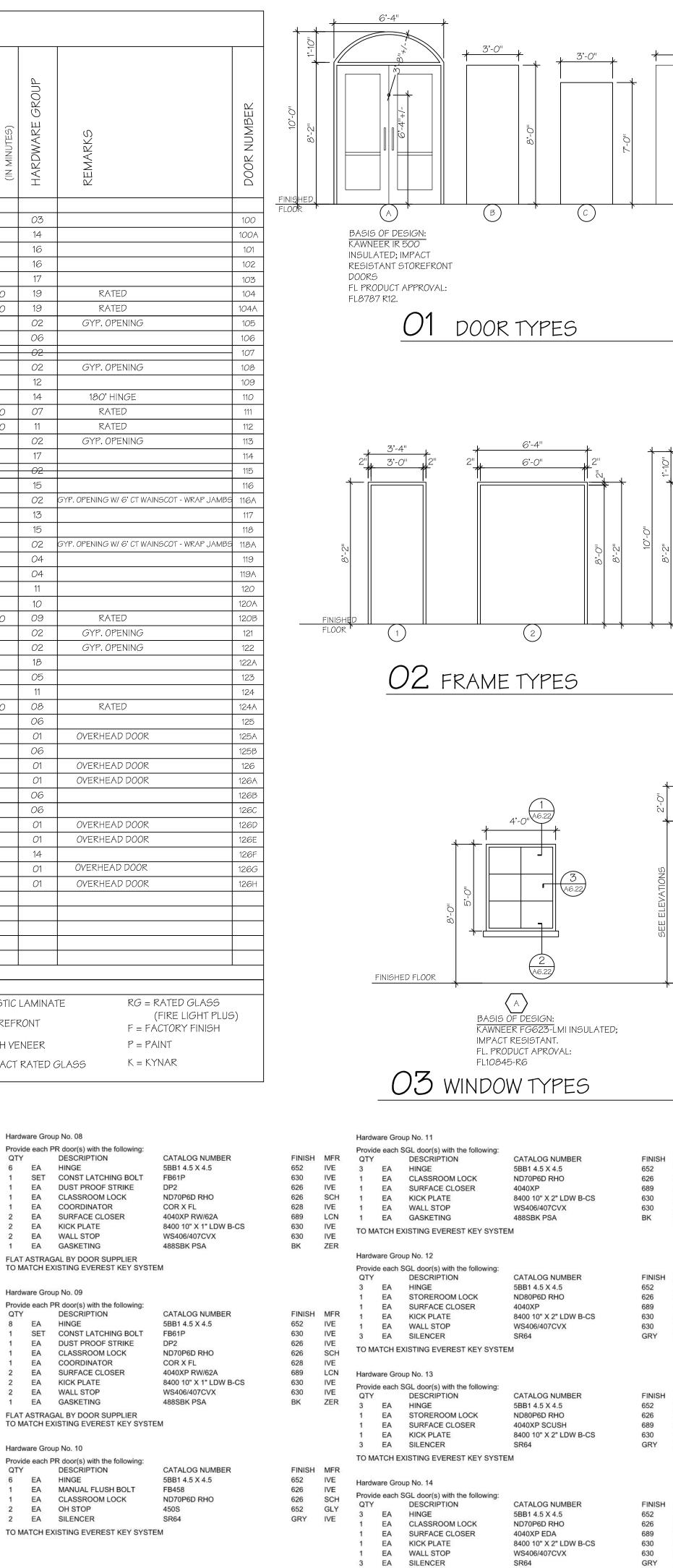
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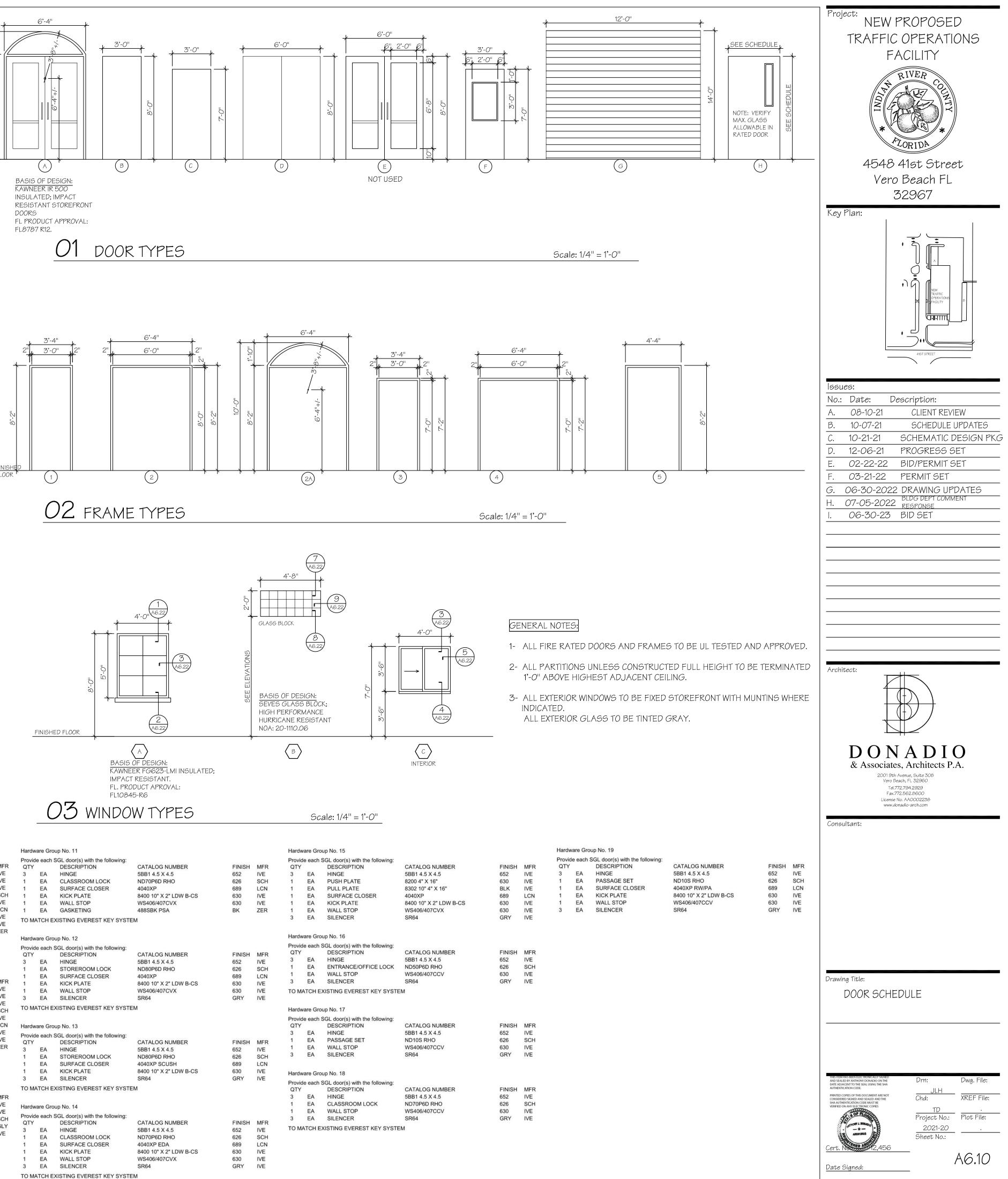
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A ZER

2 EA OH STOP 2 EA SILENCER





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QTY		SGL door(s) with the following DESCRIPTION	CATALOG NUMBE
3	EA	HINGE	5BB1 4.5 X 4.5
1	EA	PASSAGE SET	ND10S RHO
1	EA	WALL STOP	WS406/407CCV
3	EA	SILENCER	SR64
Harc	ware Gro	oup No. 18	
Prov	ide each	SGL door(s) with the following	g:
QT	Y	DESCRIPTION	CATALOG NUMBE
3	EA	HINGE	5BB1 4.5 X 4.5
1	EA	CLASSROOM LOCK	ND70P6D RHO
1	EA	WALL STOP	WS406/407CCV
3	EA	SILENCER	SR64
TOM	MATCH E	XISTING EVEREST KEY SY	STEM

TRAFFIC OPERATIONS BUILDING
INTERIOR SIGN CHART

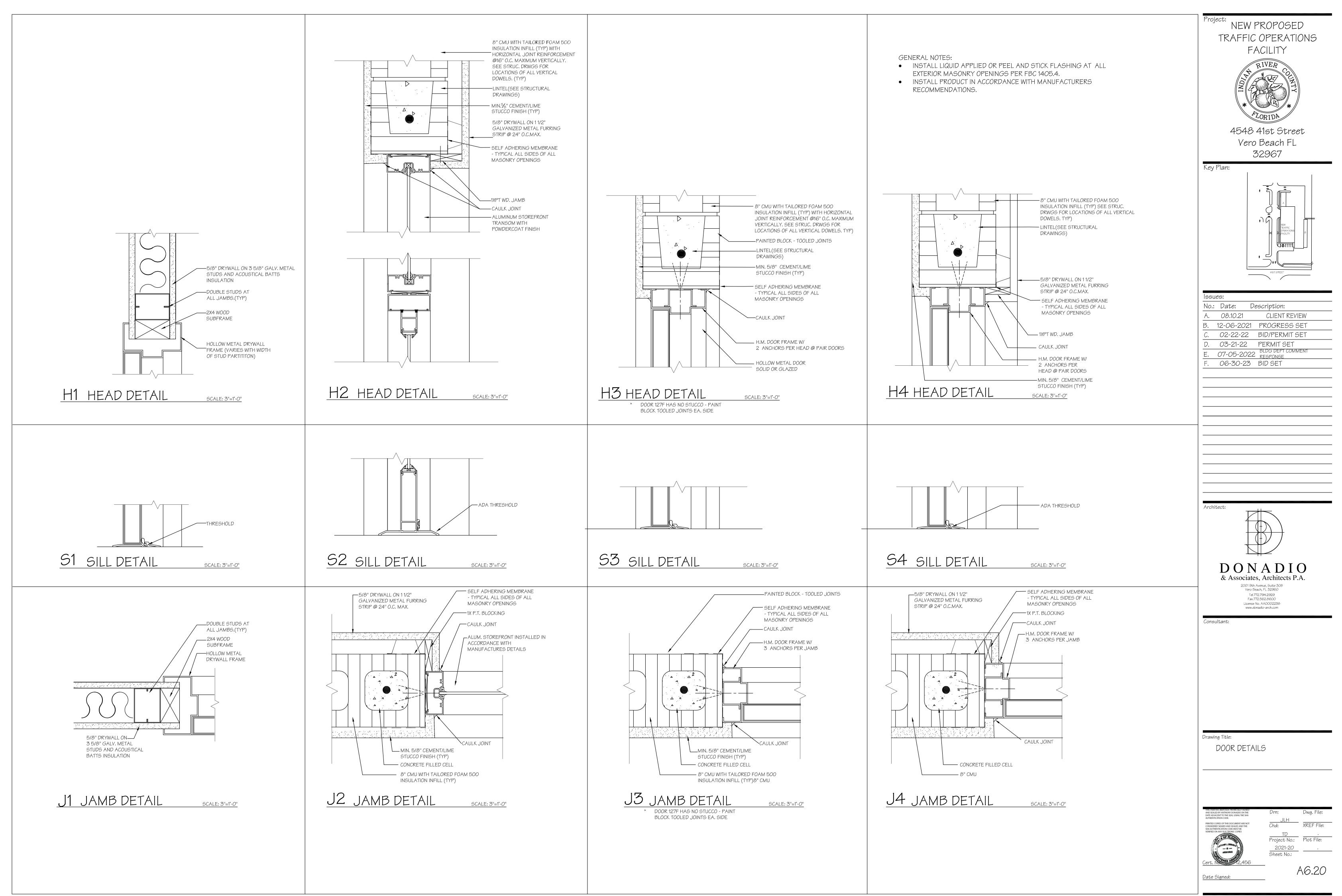
ROOM#	ROOM NAME / LOCATION
100	RECEPTION
101	OFFICE
102	OFFICE
103	CONFERENCE
104	BREAK ROOM
105	SIGN TECH
106	SOUTH CORRIDOR
107	COPIER
108	FUTURE OFFICE
109	DATA
110	CLOSET
111	STORAGE
112	CENTRAL CORRIDOR
113	FUTURE OFFICE
114	FILE ROOM
115	TIME CLOCK / MAIL
116	MENS RESTROOM
117	JANITOR
118	WOMENS RESTROOM
119	NORTH CORRIDOR
120	SIGN SHOP
120A	STORAGE
121	FUTURE OFFICE
122	OFFICE
122A	CLOSET
123	MECHANICAL
124	SIGNAL SHOP
125	WAREHOUSE (A/C)
126	WAREHOUSE
1 <i>00-</i> A	COVERED PARKING "A"
100-B	COVERED PARKING "B"

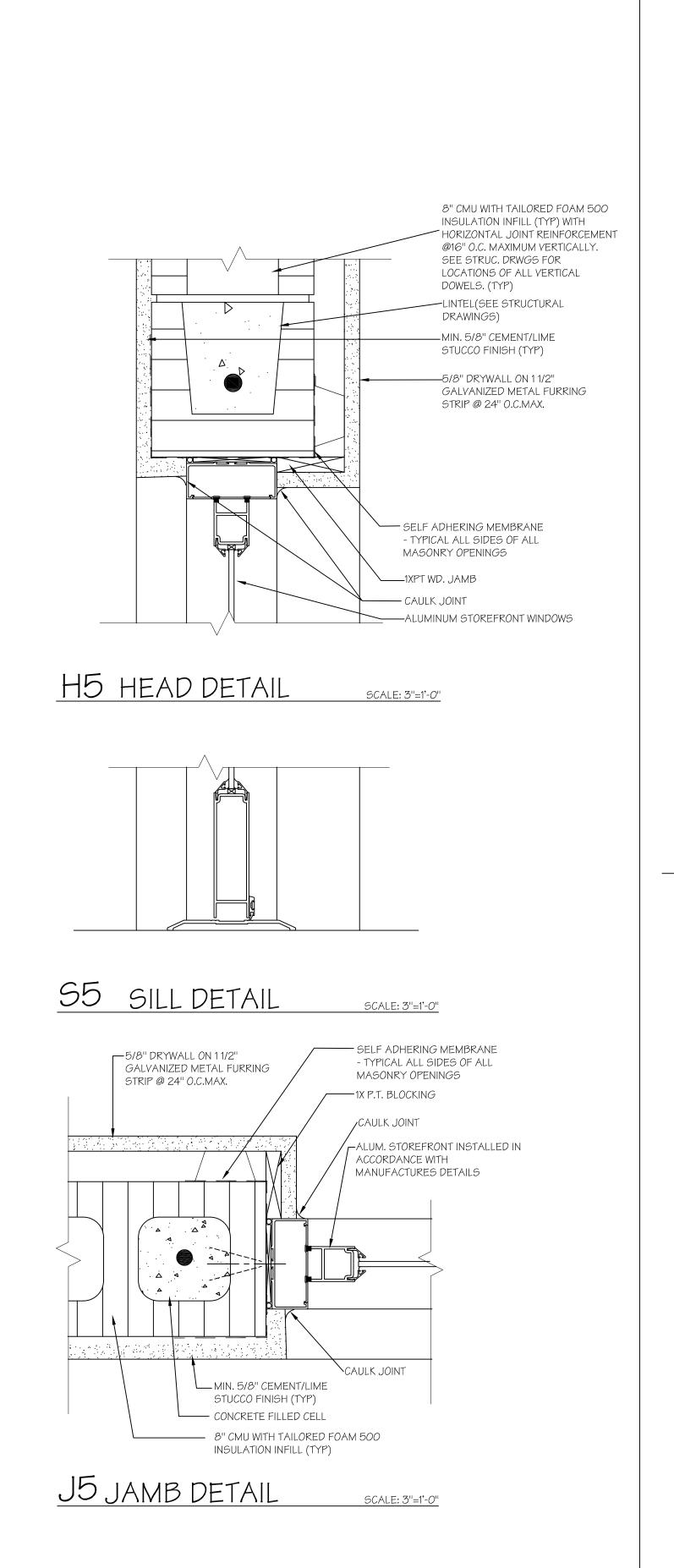
		FLOOR	BASE				W	ALL				CE	EILING			
				NOR	.TH	501	JTH	EA	ST	WE	ST					
ROOM NUMBER	ROOM NAME / LOCATION	MATERIAL	MATERIAL	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINIGH	НЕЮНТ	REMARKS	ROOM NUMBER
100	RECEPTION	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-O''		100
101	OFFICE	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-O"		101
102	OFFICE	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		102
103	CONFERENCE	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0" 9' 0"		103
104 105	BREAK ROOM SIGN TECH	VCT	RB RB	GYP	PNT PNT	GYP	PNT	GYP	PNT	GYP GYP	PNT	ACT ACT	F F	9'-0'' 9'-0''		104 105
105	SOUTH CORRIDOR	VCT CPT	RB	GYP GYP	PNT	GYP GYP	PNT PNT	GYP GYP	PNT PNT	GTP	PNT PNT	ACT	F	9'-0"		105
107	COPIER	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		107
108	FUTURE OFFICE	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		108
109	DATA	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		109
11 <i>0</i>	CLOSET	VCT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	АСТ	F	9'-0"		110
111	STORAGE	VCT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		111
112	CENTRAL CORRIDOR	CPT/VCT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		112
113		CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		113
114 115	FILE ROOM TIME CLOCK / MAIL	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0" 9'-0"		114 115
116	MENS RESTROOM	VCT CT	RB CTB	GYP MRB	PNT CT	GYP MRB	PNT CT	GYP MRB	PNT CT	GYP MRB	PNT CT	ACT GYP	F PNT	9-0 8'-0"	6'-0" WAINSCOT. CERAMIC TILE FLOORS NON-SLIP AND SEALED.	116
116A	MENS SHOWER	CT	СТВ	СВВ	CT	CBB	CT	СВВ	CT	СВВ	CT	GYP	PNT	8'-0"	CERAMIC TILE FLOORS NON-SLIP. FULL HT. CERAMIC TILE	116A
117	JANITOR	VCT	RB	GYP	PNT	MRB	PNT	GYP	PNT	MRB	PNT	GYP	PNT	9'-0"	SHOWER W/ CBB.	117
118	WOMENS RESTROOM	CT	СТВ	MRB	СТ	MRB	СТ	MRB	СТ	MRB	СТ	GYP	PNT	8'-O"	6'-0" WAINSCOT. CERAMIC TILE FLOORS NON-SLIP AND SEALED.	118
118A	WOMENS SHOWER	CT	СТВ	СВВ	СТ	СВВ	СТ	СВВ	СТ	СВВ	СТ	GYP	PNT	8'-O"	CERAMIC TILE FLOORS NON-SLIP. FULL HT. CERAMIC TILE SHOWER W/ CBB.	118A
119	NORTH CORRIDOR	VCT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		119
120	SIGN SHOP	SLC	RB	СМИ	PNT	GYP	PNT	GYP	PNT	СМИ	PNT	EXP	PNT	VARIES	TOOLED JOINTS	120
120A	STORAGE	SLC	RB	СМИ	PNT	GYP	PNT	GYP	PNT	СМИ	PNT	EXP	PNT	VARIES		120A
121	FUTURE OFFICE	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		121
122	OFFICE	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0"		122
122A 123	CLOSET MECHANICAL	CPT	RB	GYP	PNT	GYP	PNT	GYP	PNT	GYP	PNT	ACT	F	9'-0" VARIES		122A 123
123	SIGNAL SHOP	SLC SLC	RB	GYP CMU	PNT PNT	GYP GYP	PNT PNT	СМИ СМИ	PNT PNT	GYP GYP	PNT PNT	EXP	PNT PNT	VARIES	TOOLED JOINTS	123
125	WAREHOUSE (A/C)	SLC		CMU	PNT	CMU	PNT	CIMU	PNT	CMU	PNT	EXP	PNT	VARIES	TOOLED JOINTS	125
126	WAREHOUSE	SLC		СМИ	PNT	CMU	PNT	CMU	PNT	CMU	PNT	EXP	PNT	VARIES	TOOLED JOINTS	126
С	L COVERED PARKING ST	rruct	URES	5 				 								
100-A	COVERED PARKING "A"											EV/P	 	1/10150	CONC FLOOR/ EXPOSED STRUCTURE. PROVIDE ELEC. FOR FUTURE	100-A
100-А 100-В	COVERED PARKING "A" COVERED PARKING "B"	С										EXP EXP	F	VARIES VARIES	CONC FLOOR/ EXPOSED STRUCTURE. PROVIDE ELEC. FOR FUTURE	100-А 100-В
100 0														T T T T T T T T T T T T T T T T T T T		100 0
	FLOORLIN-LINOLEUMSLC-SEALED CONCRCT-CERAMIC TILEWDF-WOOD FLOORC-CONCRETEVCT-VINYL COMPOSITCMT-CERAMIC MOSAIC TILECPT-CARPETSTL-STEEL-STEEL-STEAL		WB -W	JBBER BASE OOD BASE ERAMIC TILE B	AGE	WALL GYP -GYPS MRB -MOIST CBB -CEMEI CT -CERAI ST -STUCC CMU -CONC. WDP -WOOD	FURE RESISTA NTITIOUS BAC MIC TILE CO MAS. UNIT	NT BÖARD KER BOARD	ACT VNP EXP WDC	G -GYPSUM BC -ACCOUSTICA -VENEER PLA -EXPOSED ST -WOOD CEILIN -CONCRETE	NL TILE STER RUCTURE	FINISH p -pa f -fa stn -st s -se	CTORY AIN			

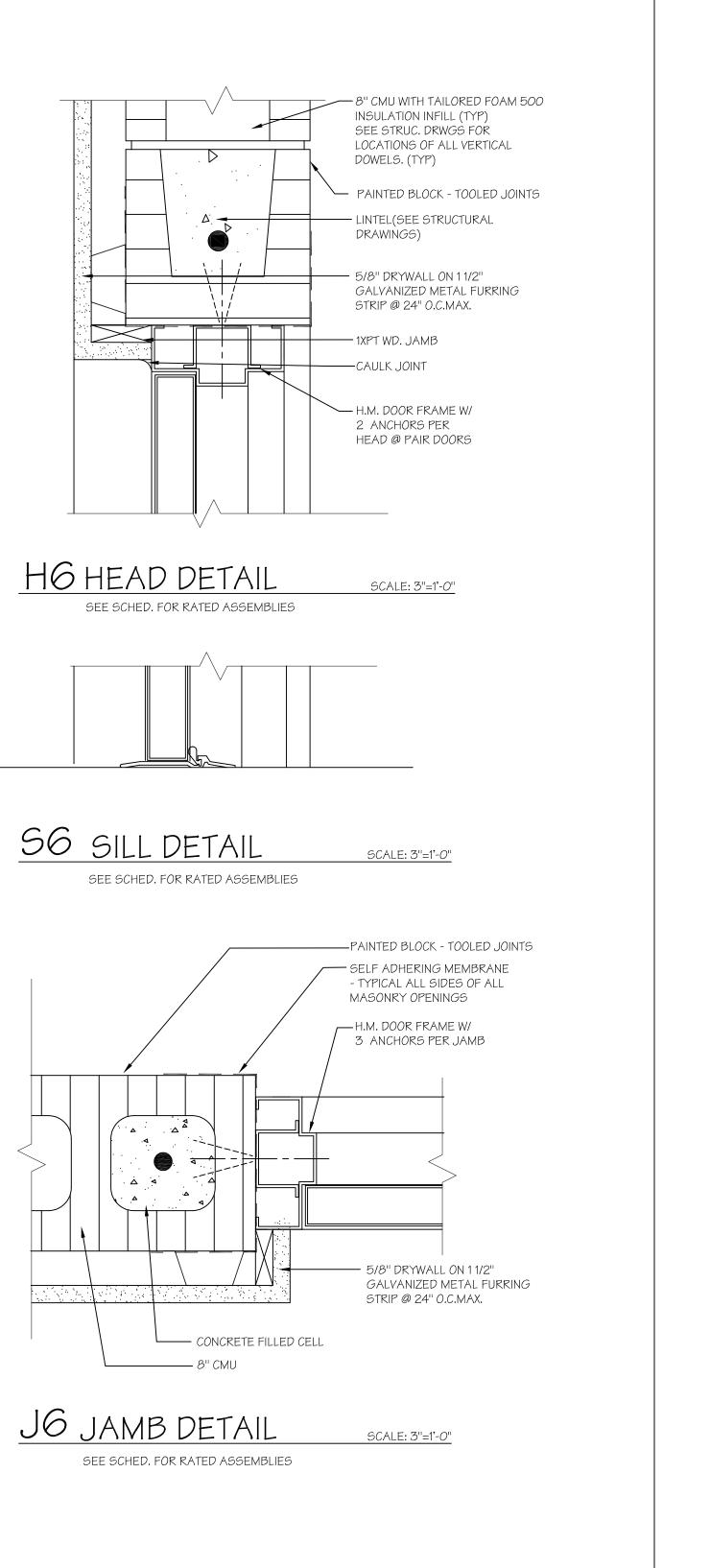
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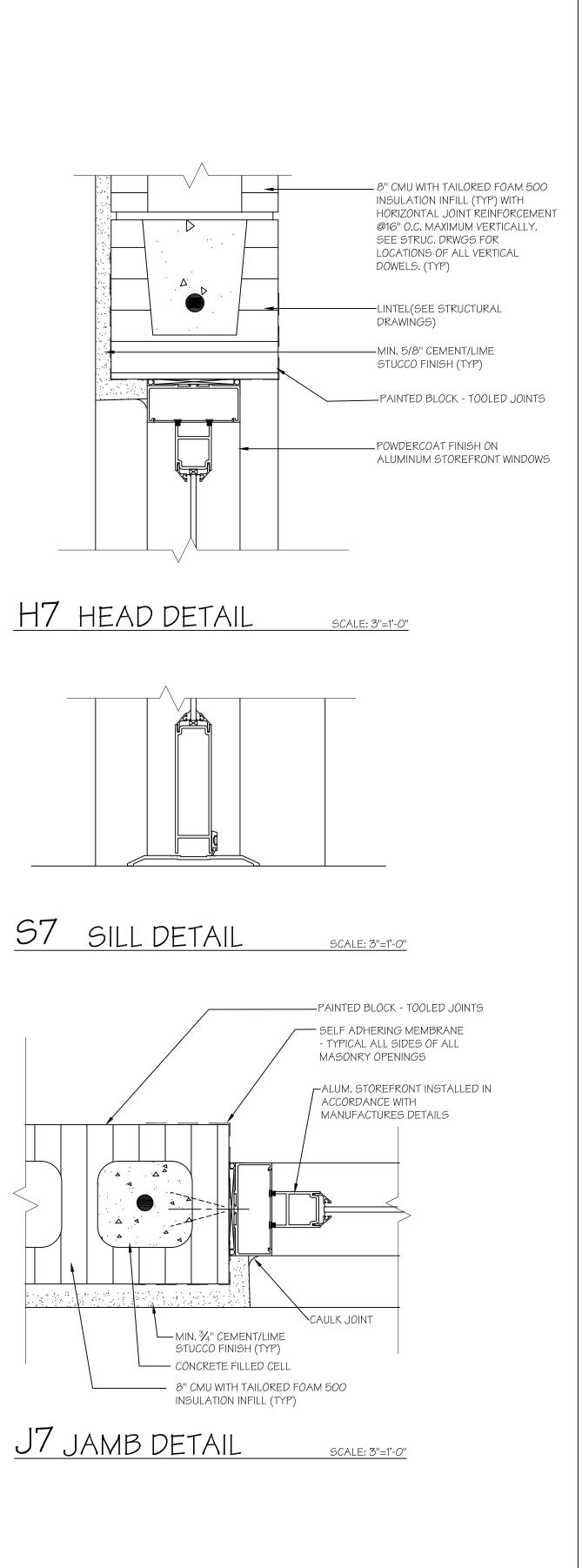
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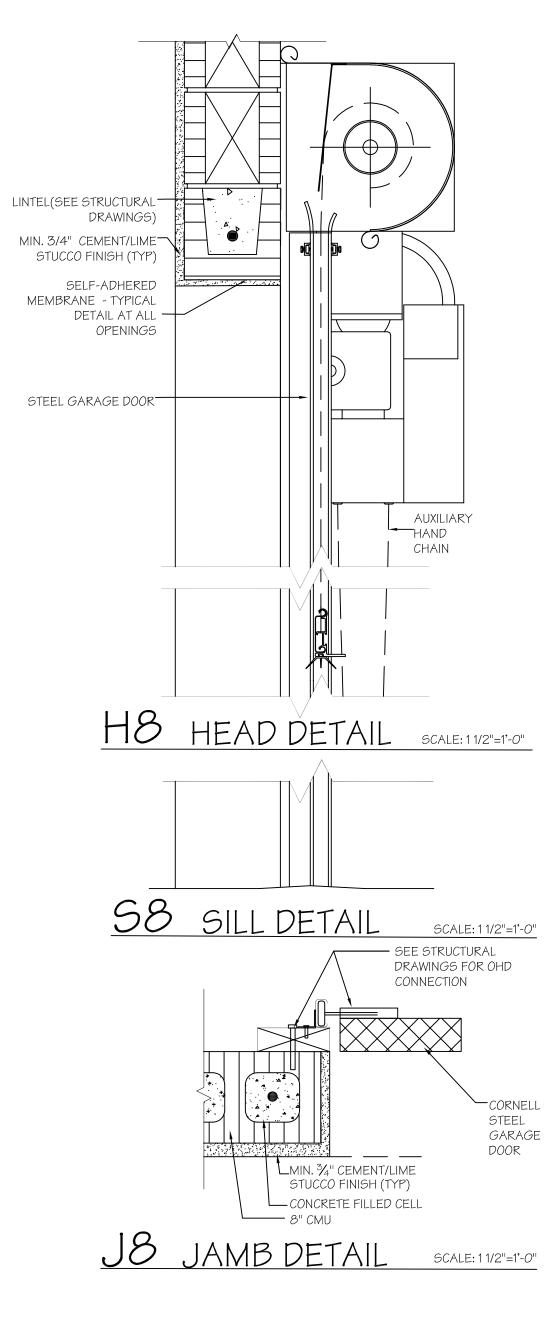




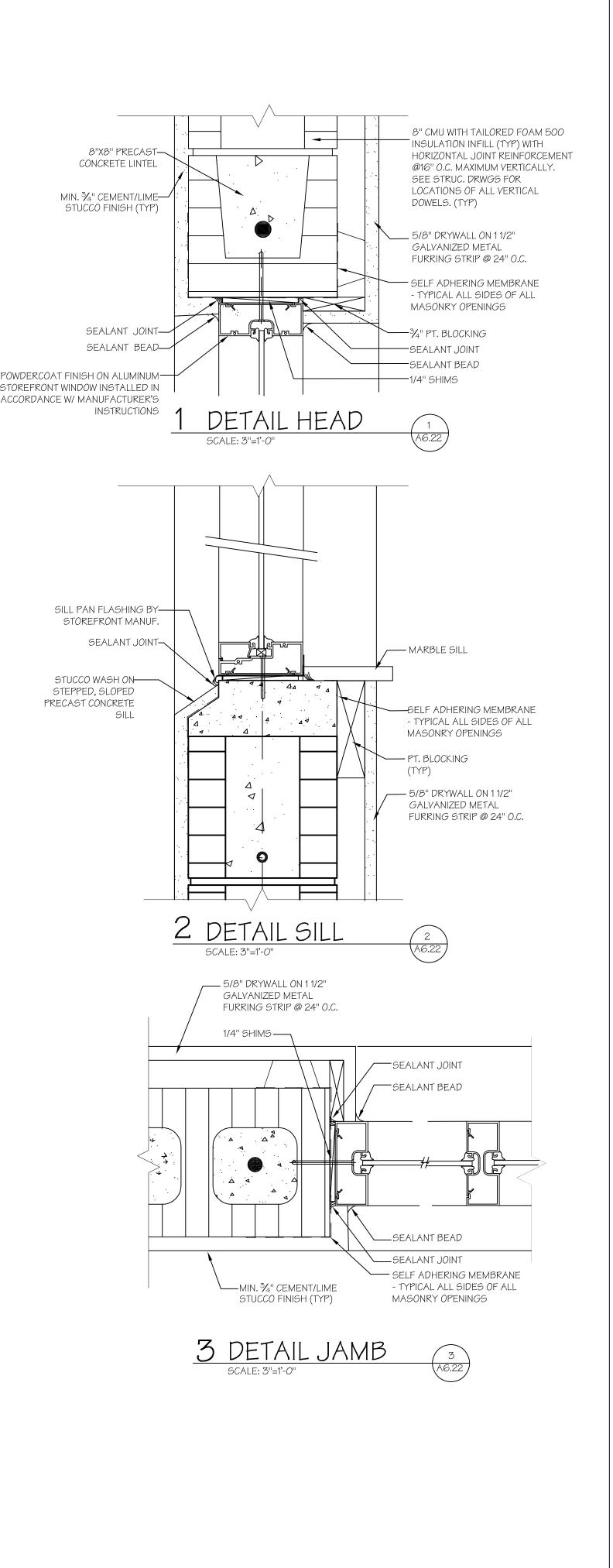


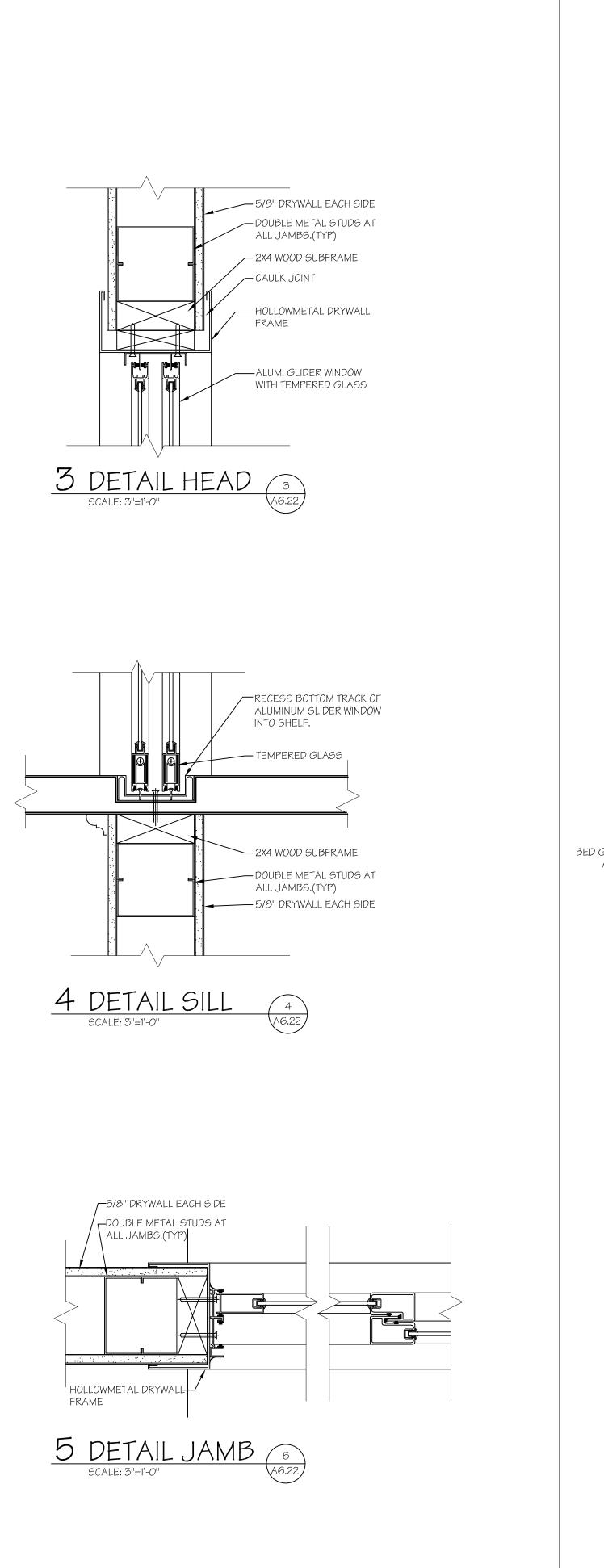


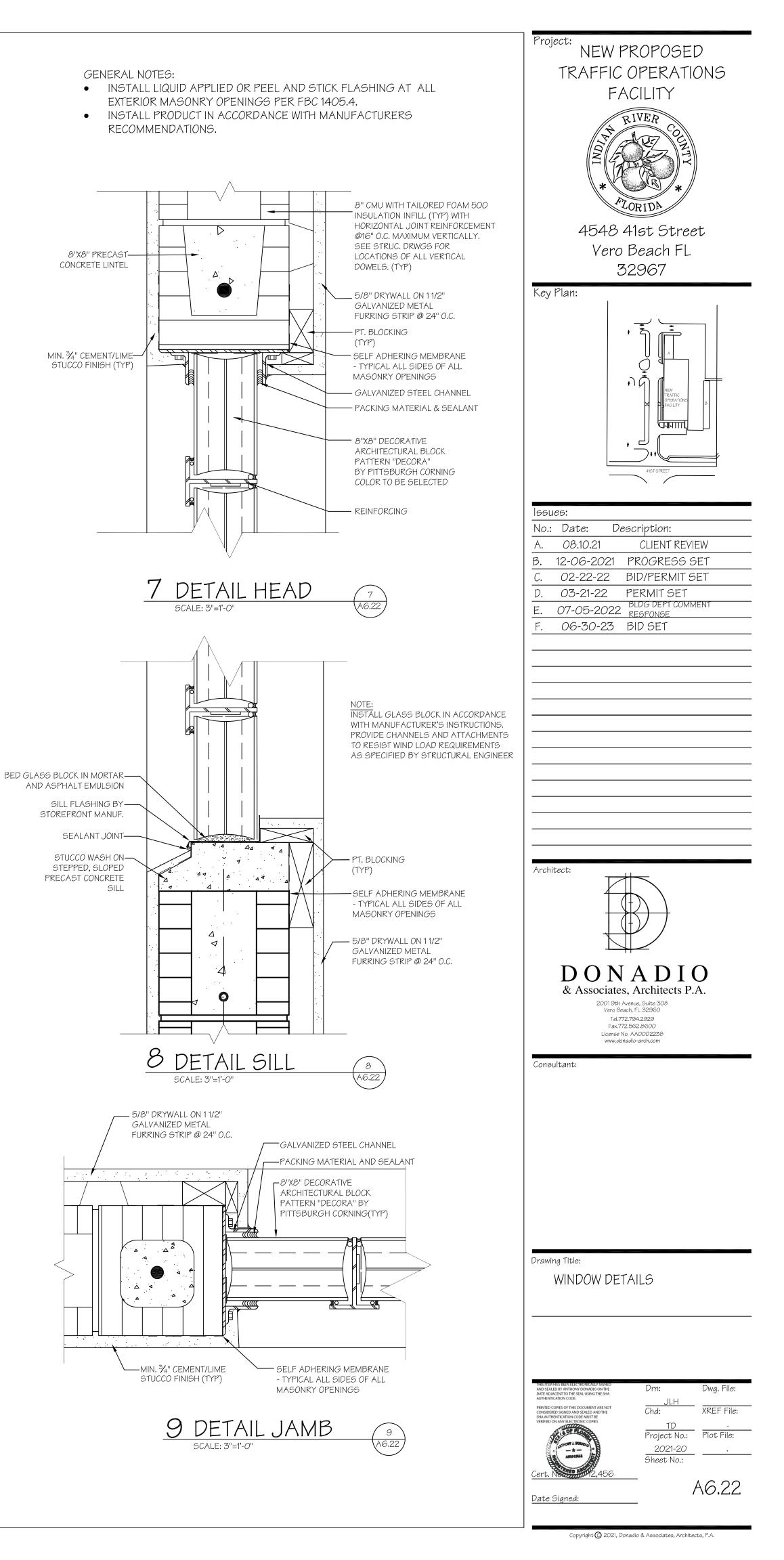
- INSTALL LIQUID APPLIED OR PEEL AND STICK FLASHING AT ALL EXTERIOR MASONRY OPENINGS PER FBC 1405.4.
- INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

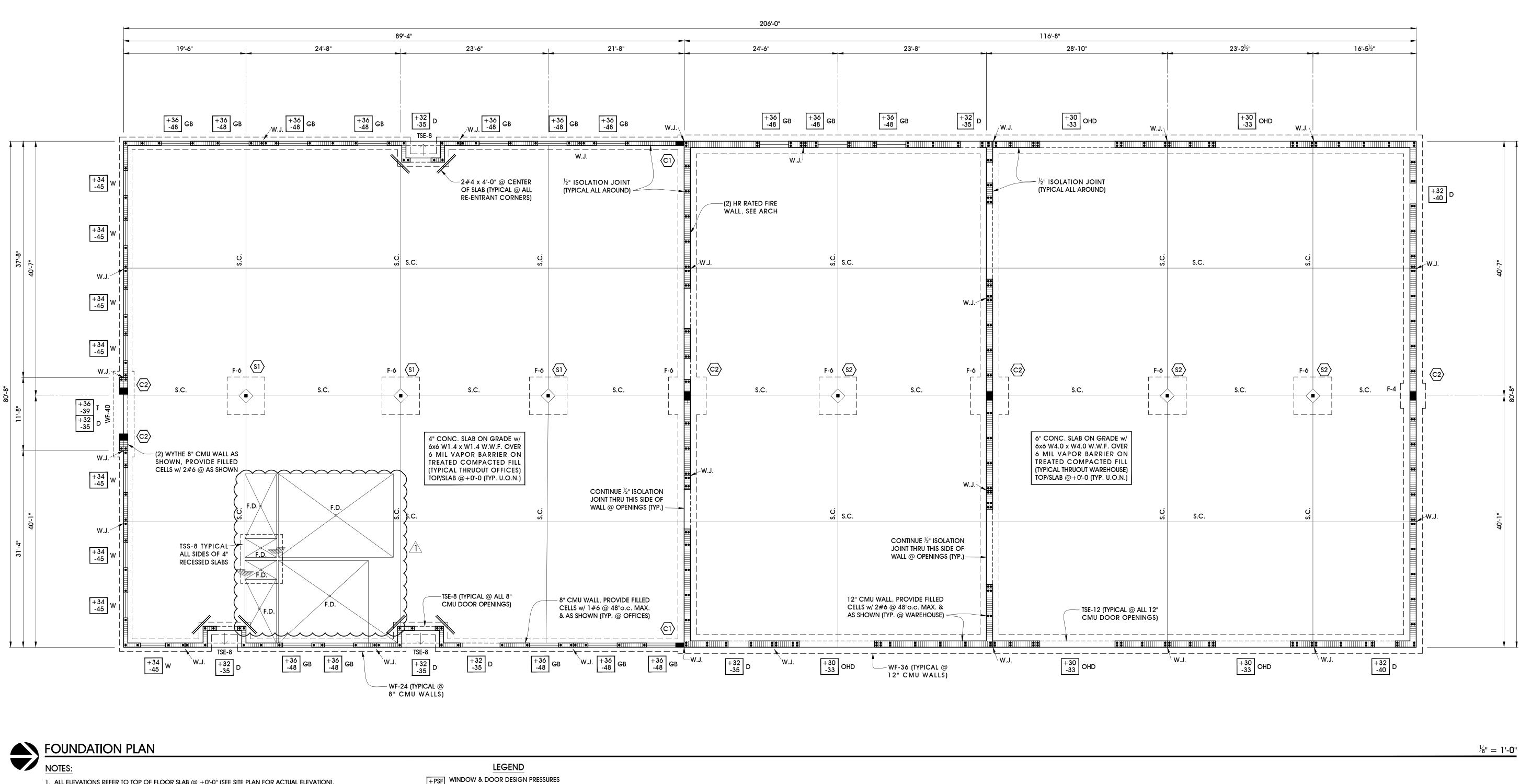


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NEW PROPOSED
TRAFFIC OPERATIONS
FACILITY
RIVER COUNTY
THE THE
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PLORIDA
4548 41st Street
Vero Beach FL
32967
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E. 06-30-23 BID SET
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Architect:
DONADIO & Associates, Architects P.A.
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1. ALL ELEVATIONS REFER TO TOP OF FLOOR SLAB @ +0'-0" (SEE SITE PLAN FOR ACTUAL ELEVATION).

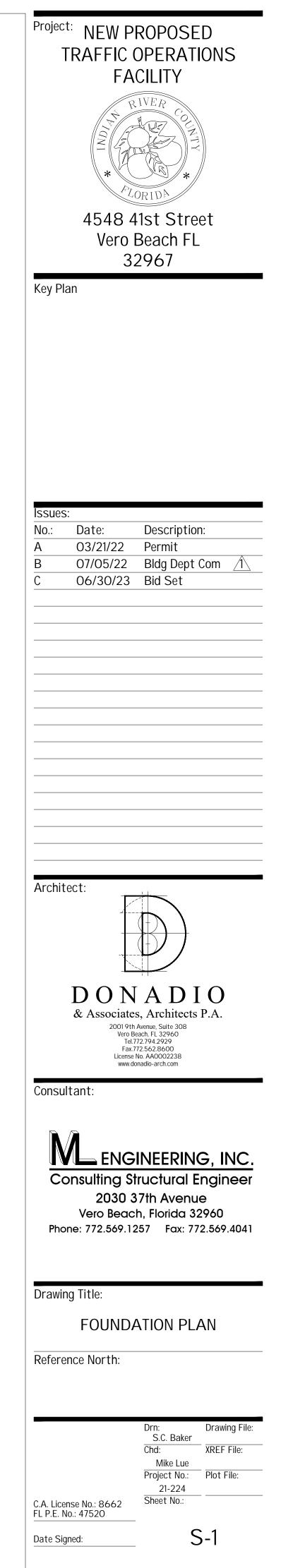
TOP OF FOUNDATIONS @ -1'-4" (U.N.O.) 2. CONTRACTOR SHALL COORDINATE STRUCTURAL WORK WITH ARCHITECTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR VERIFICATION OF LOCATIONS & DIMENSIONS OF ALL PROJECT REQUIREMENTS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK. 3. ALL DIMENSIONS ARE TO ROUGH OPENING OR CENTERLINE OF STRUCTURE (TYPICAL, UNLESS OTHERWISE NOTED). 4. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT SHOWN.

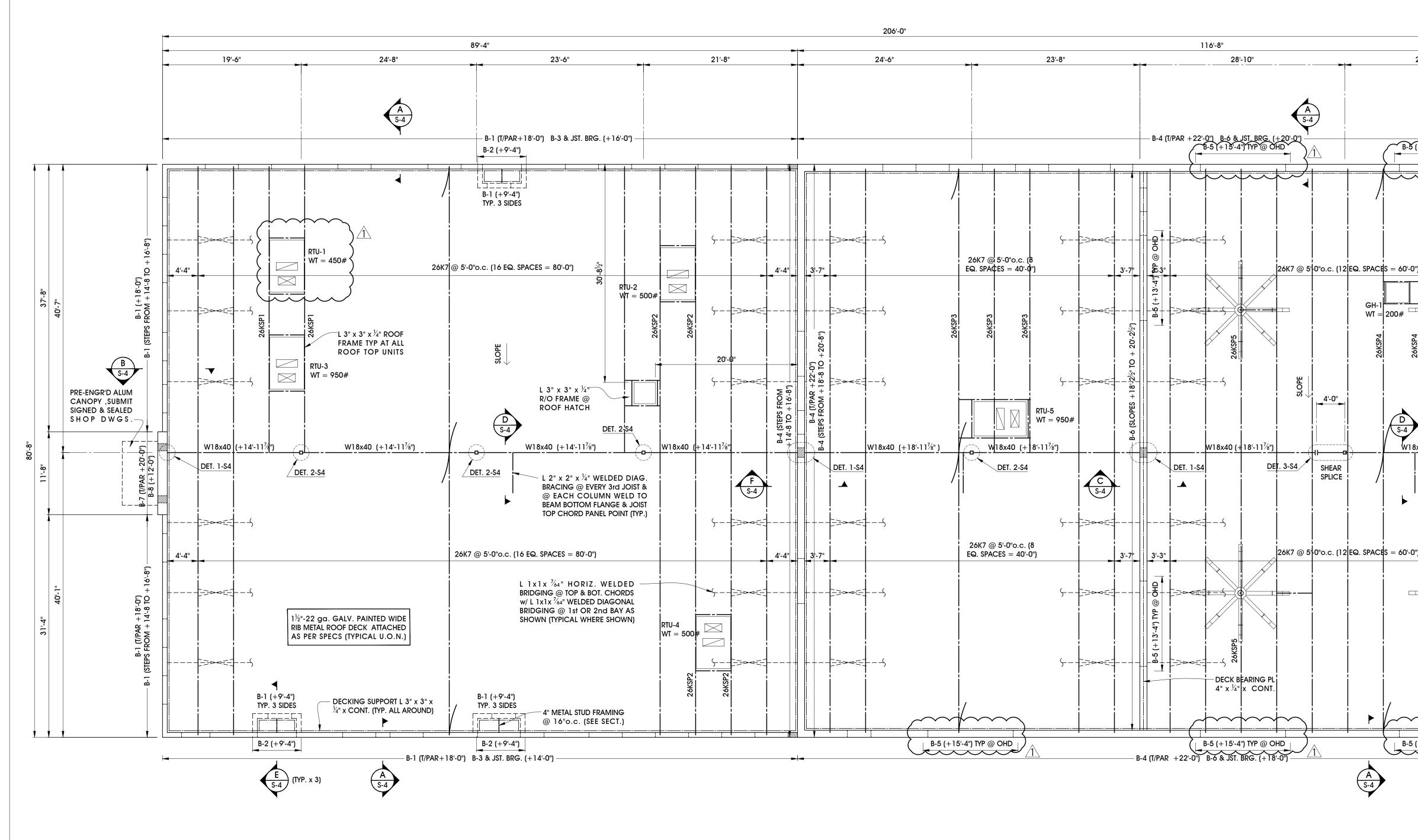
5. S.C.: DENOTES 1/8" WIDE x 1" DEEP SAW CUTS IN SLAB AS SHOWN IN PLAN, TO BE MADE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY ENOUGH TO PREVENT THE AGGREGATE FROM BEING DISLODGED BY THE SAW BLADE.

6. I.J.: DENOTES ISOLATION JOINT. FILL WITH PREFORMED JOINT FILLER. 7. F.D.: DENOTES FLOOR DRAIN. SLOPE SLAB TO DRAIN (TYPICAL).

-PSF (ALLOWABLE STRESS) D - DOOR W - WINDOW OHD - OVERHEAD DOOR GB - GLASS BLOCK T - TRANSOM

F.D. - FLOOR DRAIN S.C. - SAW CUT I.J. - ISOLATION JOINT





ROOF FRAMING PLAN

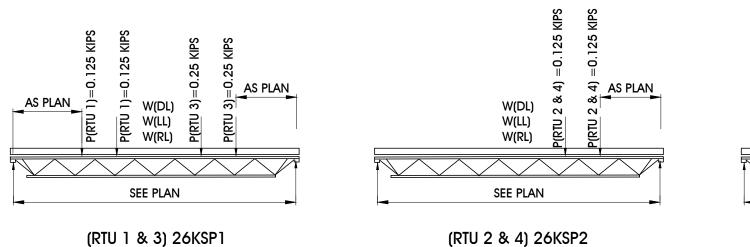
NOTES

1. ALL ELEVATIONS REFER TO TOP OF FLOOR SLAB @ +0'-0" (REFER TO SITE PLAN FOR ACTUAL ELEVATION)

top of beam as plan 2. CONTRACTOR SHALL COORDINATE STRUCTURAL WORK WITH ARCHITECTURAL, MECHANICAL, PLUMBING & ELECTRICAL

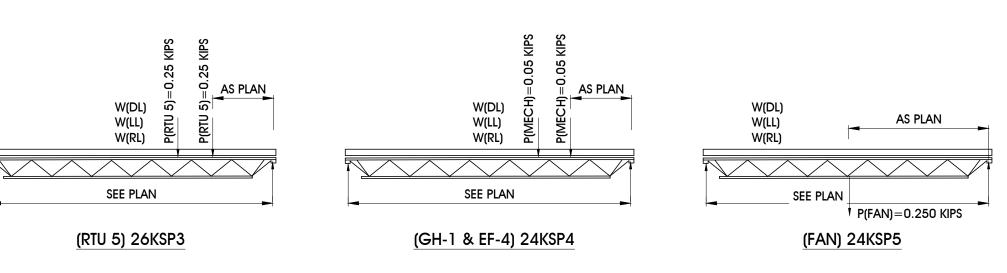
DRAWINGS FOR VERIFICATION OF LOCATIONS & DIMENSIONS OF ALL PROJECT REQUIREMENTS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.

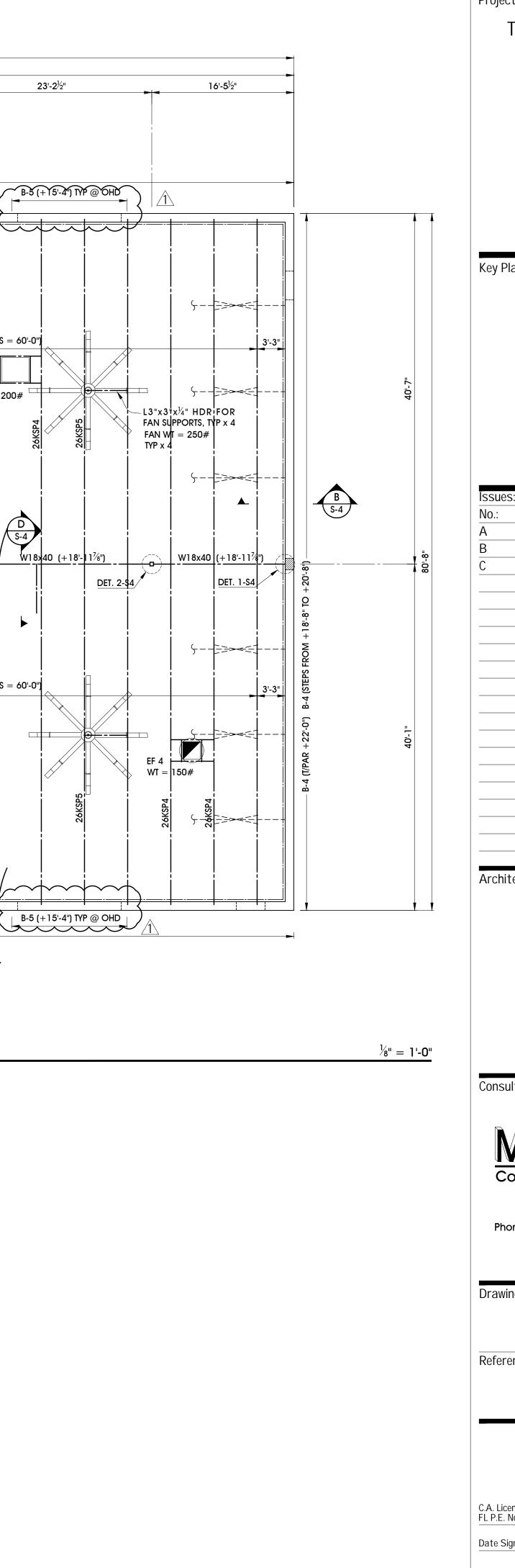
- 3. ALL DIMENSIONS ARE TO ROUGH OPENING OR CENTERLINE OF STRUCTURE (TYPICAL, UNLESS OTHERWISE NOTED).
- 4. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT SHOWN.



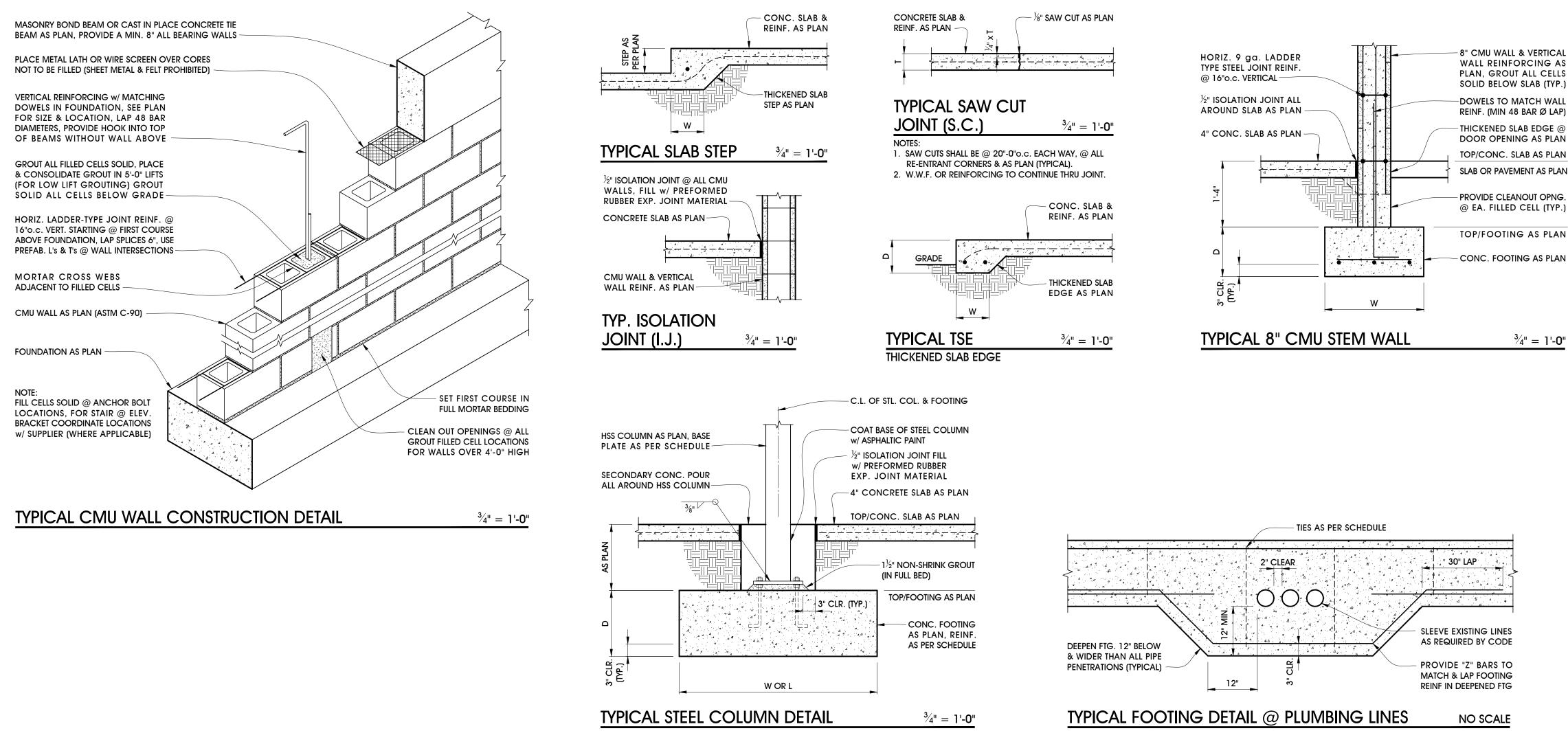
(RTU 2 & 4) 26KSP2

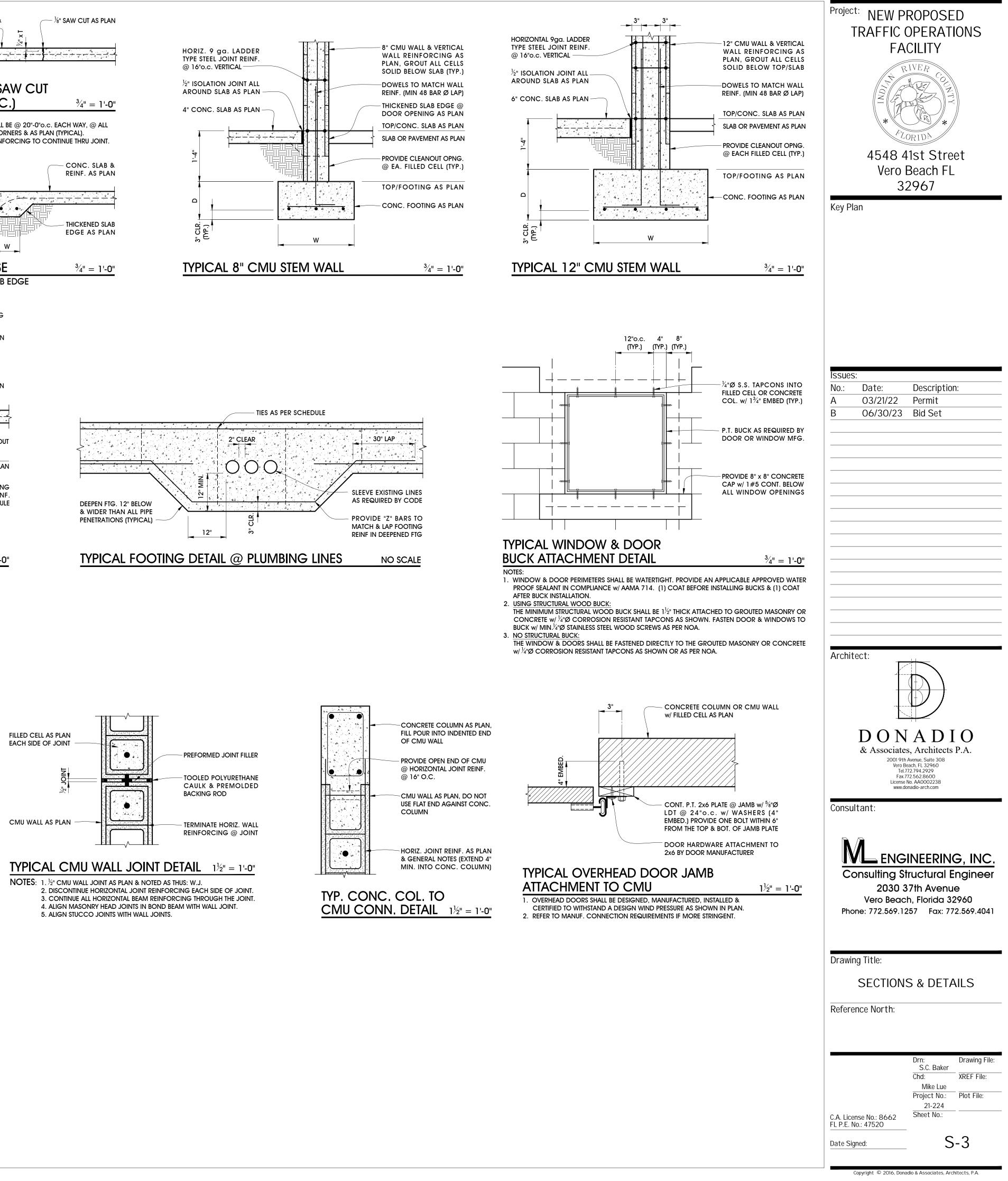
SP ROOF JOIST LOAD DIAGRAM DEAD LOAD W(DL) = 150 PLF LIVE LOAD W(LL) = 100 PLF RAIN LOAD W(RL) = 125 PLF (NON CONCURRENT WITH LIVE LOAD) NOTE: WEIGHTS AND SIZES OF EF 1-3 ARE NEGLIGBLE

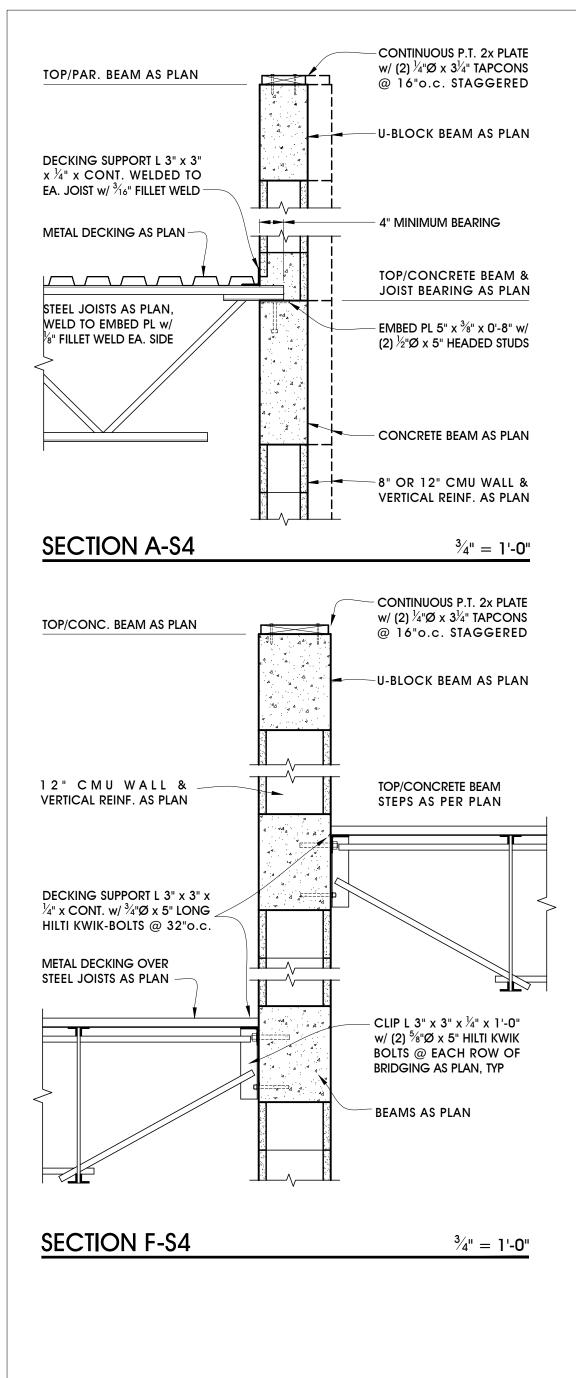


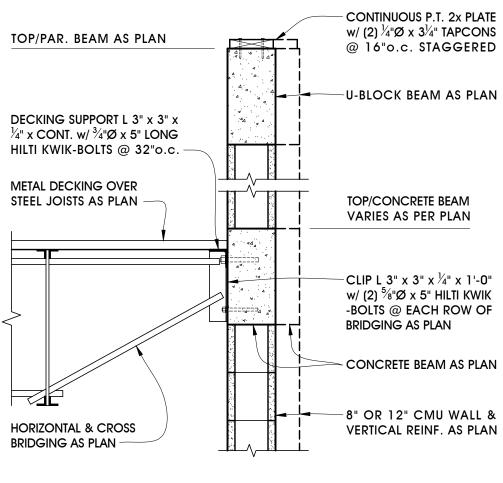


TRAFFIC	ROPOSED OPERATIONS
I VIII	RIVER
* FI	ORIDA *
	41st Street Beach FL
	2967
Key Plan	
Issues:	
No.: Date: A 03/21/22	
B 07/05/22 C 06/30/23	
Architect:	
	I A D I O
2001 9t Vero I	es, Architects P.A. h Avenue, Suite 308 Beach, FL 32960 273 704 2020
Fax. License	.772.794.2929 .772.562.8600 e No. AAOOO2238 Jonadio-arch.com
Consultant:	
R/A	
	SINEERING, INC.
	37th Avenue ch, Florida 32960
Phone: 772.569.1	257 Fax: 772.569.4041
Drawing Title:	
	RAMING PLAN
Reference North:	
	Drn: Drawing File:
	S.C. Baker Chd: XREF File: Mike Lue
C.A. License No.: 8662	Project No.: Plot File: 21-224 Sheet No.:
FL P.E. No.: 47520	

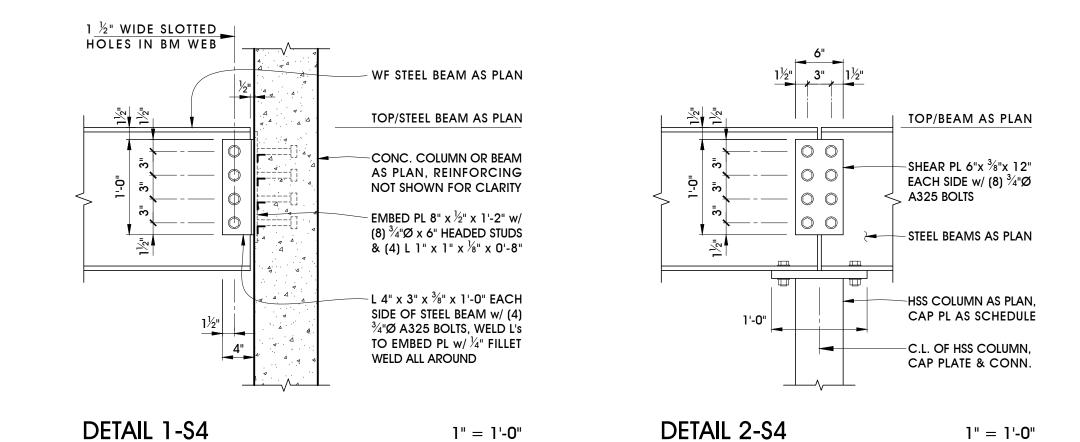






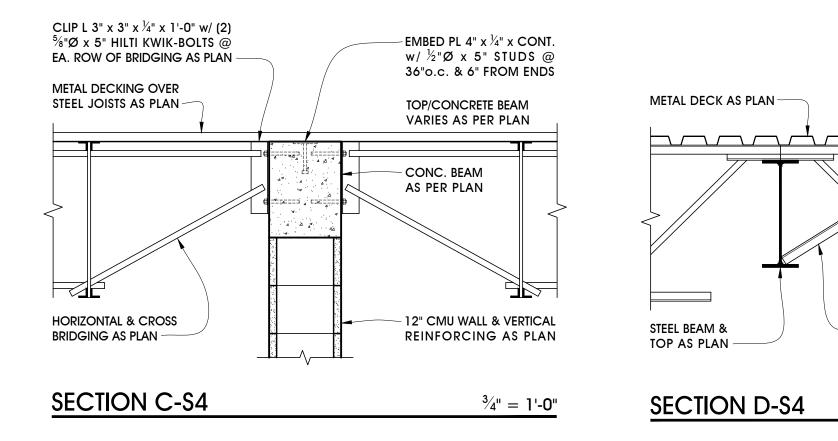


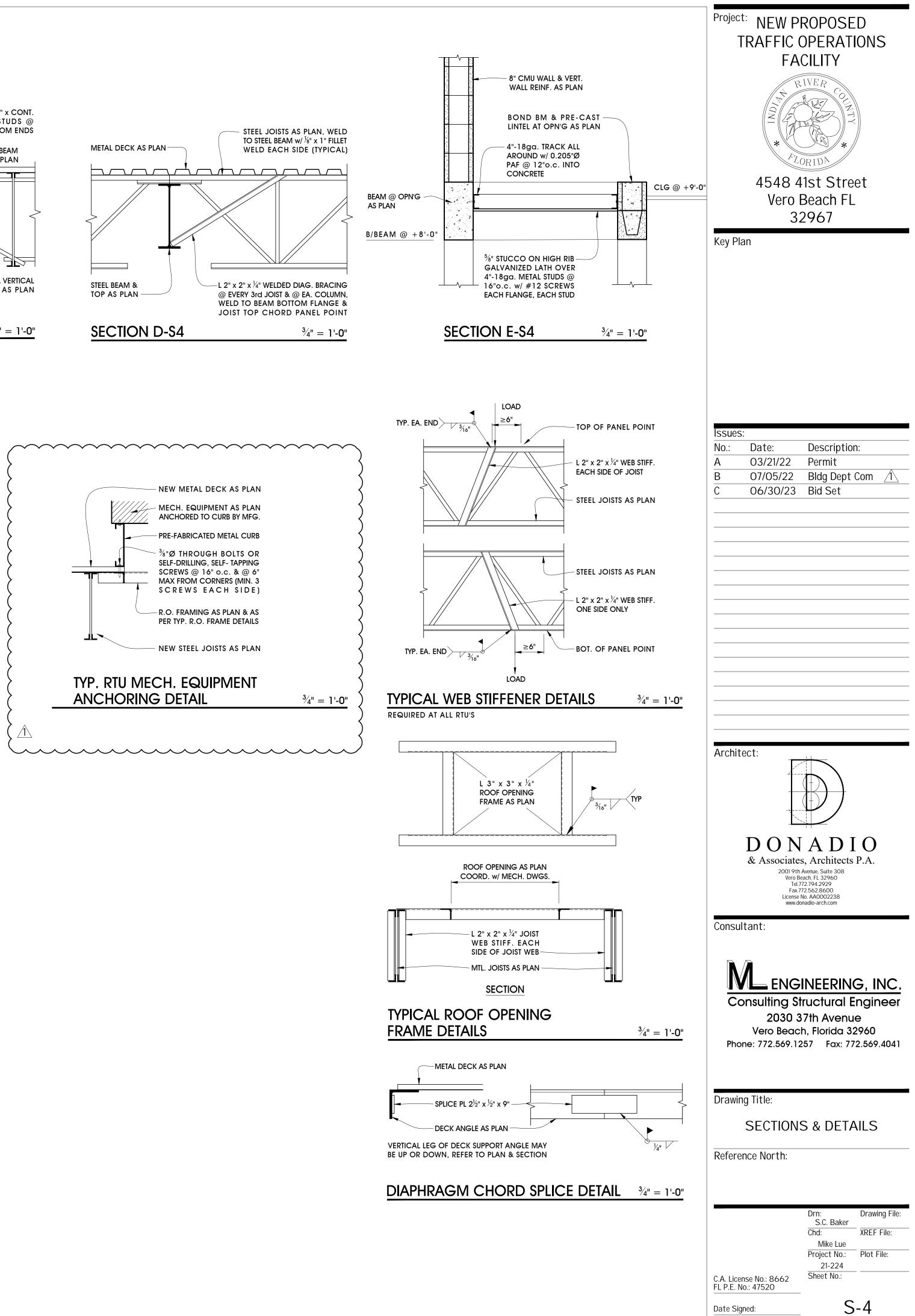
SECTION B-S4

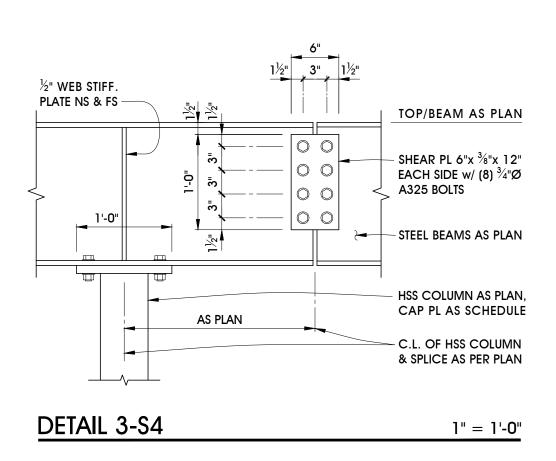


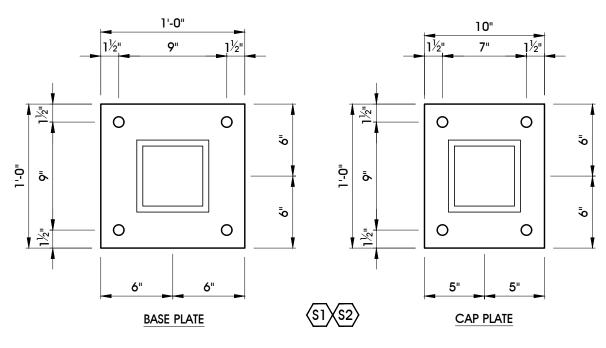
CONTINUOUS P.T. 2x PLATE @ 16"o.c. STAGGERED

³⁄4" = 1'-0"

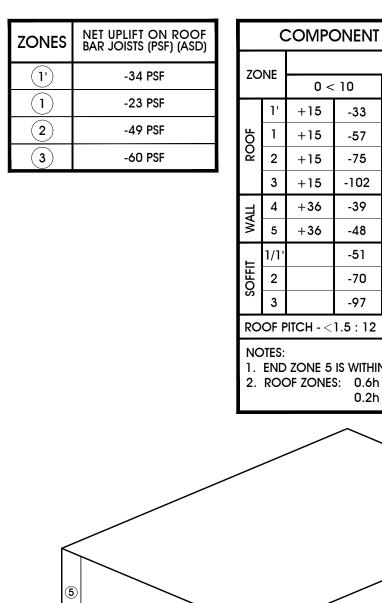


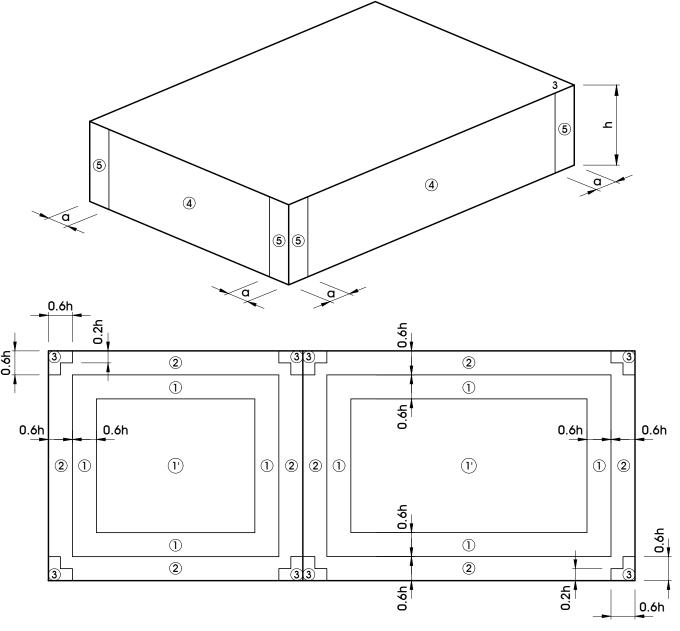








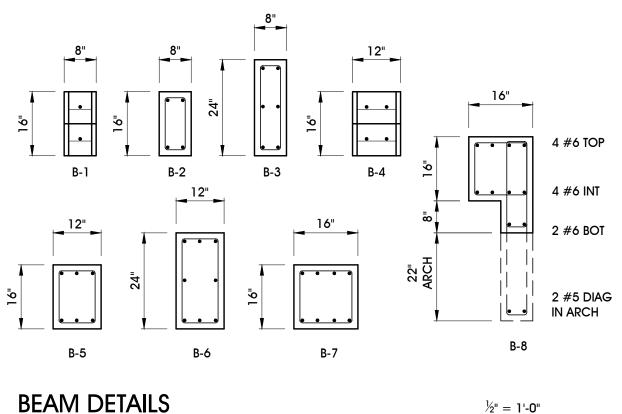




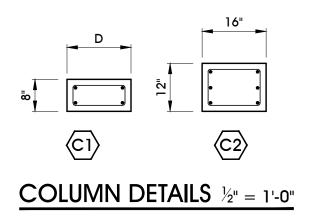
COMPONENT AND CLADDING PRESSURE ZONES

NOTES: 1. PRESSURES ARE IN ALLOWABLE STRESS DESIGN (asd) FOR WINDOWS, DOORS, ROOFING, DECKING, WOOD TRUSSES AND ALL OTHER BUILDING COMPONENTS AND CLADDING. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES

ACTING AWAY FROM A PROJECTED SURFACE. 3. END ZONE "a" = 8 FEET.



BEAM DETAILS



PONENT AND CLADDING PRESSURES (asd)									
EFFECTIVE AREA (SQUARE FEET)									
) <	10	11 < 20		21 <	< 50	51 < 100			
5	-33	+14	-33	+13	-33	+12	-33		
5	-57	+14	-53	+13	-48	+12	-44		
5	-75	+14	-70	+13	-64	+12	-59		
5	-102	+14	-93	+13	-80	+12	-70		
5	-39	+34	-37	+32	-35	+30	-33		
5	-48	+34	-45	+32	-40	+30	-37		
	-51		-51		-49		-48		
	-70		-63		-55		-48		
	-97		-85		-71		-59		

1. END ZONE 5 IS WITHIN A DISTANCE OF (a)=8 FT. FROM CORNERS 2. ROOF ZONES: 0.6h = 12 FT. 0.2h = 4 FT.

DESIGN LOAD CRITERIA	
THE FLORIDA BUILDING CODE, 7th EDITION	(2020)
ROOF LOADS	

MARK

TSS-8

TSE-8

TSE-12

WF-24

WF-36

. 30 PSF DEAD LIVE .20 PSF ...25 PSF (NON-CONCURRENT) WIND LOADS PER ASCE 7 WIND SPEED REGION V(ult) . WIND BORNE DEBRIS REGION

ENCLOSED STRUCTURE

ROOF PITCH ...

EXPOSURE

BUILDING RISK CATEGORY

BUILDING DESIGN HEIGHT

INTERNAL PRESSURE COEFF .

HEIGHT & EXPOSURE COEFF

STRUCTURAL NOTES

..124 MPH CONSTRUCTION

.. <1.5:12

.. ±0.18

..... C

.. 1.29

c. REINFORCEMENT d. STRUCTURAL STEEL e. STEEL JOISTS

FOUNDATION SCHEDULE TOP REINF. BOT. REINF. SIZE REMARKS DxWxL L.W. S.W. L.W. S.W. 1#5 HICKENED SLAB STEP 8" x 8" x CONT. 8" x 8" x CONT. 1#5 THICKENED SLAB EDGE 2#5 16" x 12" x CONT. THICKENED SLAB EDGE 3#5 #5@32 STEM WALL FOOTING 12" x 24" x CONT. 4#5 #5 @ 32" 16" x 36" x CONT. STEM WALL FOOTING

WF-40	16" x 40" x C	CONT.	5#5	#5 @ 32"			STEM WALL FOOTING
F-4	16" x 48" x	48"	5#5	5#5			COLUMN FOOTING
F-6	16" x 72" x	72"	7#5	6#5			COLUMN FOOTING
CONCRETE COLUMN SCHEDULE							
MARK	SIZE W x D	REINF.		#3 TIES	#3	HAIRPINS	REMARKS
$\langle \mathbb{C} \rangle$	8" x 16"	4#6	(@ 12"o.c.		@ 8"o.c.	POURED CONCRETE
(C2)	12" x 16"	6#6	(@ 1 2 "o.c.	(@ 1 2 "o.c.	POURED CONCRETE

CONCRETE BEAM SCHEDULE								
	ELEV.	SIZE	REIN	NFORC	ING	TIES		
Mark	@ TOP	W" x D"	TOP	MID	BOT	SIZE & SPACING	REMARKS	
B-1	AS PLAN	8 x 16	1#6		1#6		(2) COURSE 8" BOND BLOCK	
B-2	AS PLAN	8 x 16	2#6		2#6	#3 @ 12"o.c.	POURED CONCRETE BEAM	
B-3	AS PLAN	8 x 24	2#6	2#5	2#6	#3 @ 24" o.c.	POURED CONCRETE BEAM	
B-4	AS PLAN	12 x 16	2#6		2#6		(2) COURSE 12" BOND BLOCK	
B-5	AS PLAN	12 x 16	3#6		3#6	#3 @ 12"o.c.	POURED CONCRETE BEAM	
B-6	AS PLAN	12 x 24	3#6	2#5	3#6	#3 @ 24"o.c.	POURED CONCRETE BEAM	
B-7	AS PLAN	16 x 16	4#6		4#6	#3 @ 24"o.c.	POURED CONCRETE BEAM	
B-8	AS PLAN	SEE DETAIL	4#6	4#6 2#6	2#5	2#3 @ 12"o.c.	POURED CONCRETE ARCH BM	

NOTES

NO SCALE

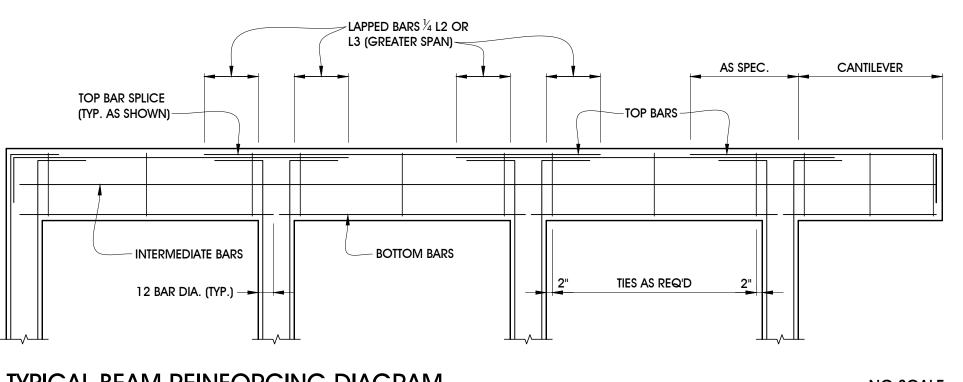
. PROVIDE STANDARD HOOK ON TOP BARS AT DISCONTINUOUS BEAM ENDS. PROVIDE CORNER BARS AT BEAM CORNERS & INTERSECTIONS TO MATCH BEAM REINFORCING. 2. DEEPEN CONCRETE BEAMS @ OPENINGS & ADD 2#5 BOTTOM OR PROVIDE 8" OR 12" PRECAST CONCRETE LINTELS w/ 1 #5

OR 2 #5 HORIZ GROUTED INTEGRALLY WITH MASONRY BOND BEAMS AT OPENINGS U.N.O. IN PLAN.

ACI STANDARD HOOK LENGTHS								
BAR SIZE (#)	3	4	5	6	7	8	9	BAR SIZE
LENGTH (INCH)	6	8	10	12	14	16	19	TOP BARS

			LAP SPLICE LENGTHS (3000 PSI)							
	9		BAR SIZE (#)	3	4	5	6	7	8	9
5	19		TOP BARS	28"	37"	47"	56"	81"	93"	105"
		•	ALL OTHER BARS	18"	24"	30"	36"	42"	48"	54"

STEEL COLUMN SCHEDULE						
MARK	SIZE	BASE PLATE	ANCHORS	CAP PLATE	ANCHORS	REMARKS
⟨S1⟩	HSS 5" x 5" x ¼"	12" x ³ ⁄4" x 12"	*4 - ³ ⁄4"Ø A307 BOLTS (13+4)	10" x ³ ⁄4" x 12"	4 - ³ ⁄4"Ø A325 BOLTS	* DBL NUTS & WASHERS
<u>(\$2</u>)	HSS 6" x 6" x ¼"	12" x ³ ⁄4" x 12"	*4 - ³ ⁄4"Ø A307 BOLTS (13+4)	10" x ³ ⁄4" x 12"	4 - ³ ⁄4"Ø A325 BOLTS	* DBL NUTS & WASHERS
NOTES: 1. TOP/FOOTING AS PLAN						



TYPICAL BEAM REINFORCING DIAGRAM

- REQUIREMENTS. CONCRETE
- THE MINIM FOUNDA SLAB ON COLUM

- CONCRETE MASONRY

TOOLED. STRUCTURAL STEEL

- WF SHAPES ...

- OF 1.5 MILS.
- STEEL JOISTS

- BE AS REQUIRED BY SJI.
- METAL DECK
- CONDITION.
- 3. METAL DECKS SHALL BE ATTACHED TO THE SUPPORTING STRUCTURE AS FOLLOWS: ROOF DECK

LIGHT GAGE METAL FRAMING 1. ALL MEMBERS SHALL BE DESIGNED, MFG'D AND INSTALLED IN ACCORDANCE WITH (A.I.S.I.) LATEST EDITION " SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS".

- SPECIFICATIONS

- AND STRAIGHT.
- TIMBER

NO SCALE

.160 MPH 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO

2. ALL CONSTRUCTION SHALL BE BRACED AND SHORED BY THE CONTRACTOR AS REQUIRED TO SAFELY PERFORM THE WORK. ALL DOORS. WINDOWS AND HARDWARE MUST BE DESIGNED AND CERTIFIED TO WITHSTAND THE DESIGN WIND PRESSURES NOTED IN THIS DOCUMENT AND SHALL BE IMPACT RESISTANT AS REQUIRED BY THE FLORIDA BUILDING CODE. . < 20 FT. 4. THE MINIMUM STRUCTURAL SUBMITTALS SHALL BE AS PER SPECS AND AS FOLLOWS: a. CONCRETE MIX DESIGNS

b. MASONRY & ACCESSORIES

SIGNED & SEALED f. METAL DECK

g. LIGHT GAGE METAL FRAMING

FOUNDATION

1. FOUNDATIONS ARE DESIGNED BASED ON AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF.

SIGNED & SEALED

CONTRACTOR SHALL VERIFY THAT THE MINIMUM COMPACTION OF 95% OF ITS MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D1557 IS OBTAINED PRIOR TO FOOTING PLACEMENT.

FOOTINGS SHALL BE PLACED ON COMPACTED SOIL FREE OF ORGANIC DEBRIS.

REFER TO SOILS INVESTIGATIVE REPORT BY ARDAMAN & ASSOC. IN REPORT No. 21-23-5281 FOR ALL SITE PREPARATION

CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF A.C.I. 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND A.C.I. 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

IUM CONCRETE 28 DAY CC	ompressive stre	ENGTHS SHALL BE A	AS FOLLOWS:	
ATIONS		SLUMP 5"±1"	W/C = 0.5	³ ⁄4" AGGR.
N GRADE		SLUMP 5"±1"	W/C =0.45	³ ⁄4" AGGR.
1NS & BEAMS		SLUMP 5"±1"	W/C = 0.5	³ ⁄8" OR ³ ⁄4" AGGR
	3000 PSI	SIUMP 10"+1"	W/C N/A	N/A

MASONRY GROUT..... REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60.

WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A185 AND SHALL BE ADEQUATELY SUPPORTED AT 36" o.c. E.W. THE MINIMUM CONCRETE COVERAGES SHALL BE AS FOLLOWS: CAST AGAINST EARTH.....3" EXPOSED TO WEATHER..... 1-1/2" FORMED SURFACES.....1"

PROVIDE 90° CORNER LAP SPLICES AT ALL INTERSECTIONS

THE MINIMUM LAP SPLICE SHALL BE 30 BAR DIAMETERS OR AS NOTED IN SCHEDULE

CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH ASTM C39. A MINIMUM OF (5) TEST CYLINDERS SHALL BE TAKEN FOR EACH POUR, AND ADDITIONAL SETS FOR EVERY 50 CUBIC YARDS OF POUR. CYLINDERS SHALL BE TESTED AS FOLLOWS:

1 AT 3 DAYS, 1 AT 7 DAYS, 1 AT 14 DAYS, 1 AT 28 DAYS & 1 AT 56 DAYS (IF THE MINIMUM STRENGTH IS NOT MET IN 28 DAYS) CONTRACTOR SHALL PROVIDE SAW CUTS IN SLABS ON GRADE AND SECOND FLOOR PRECAST TOPPING SLABS AS PLAN OR AT A MAXIMUM SPACING OF 20'-0" o.c. EACH WAY OR 400 S.F. U.O.N. AND AT ALL RE-ENTRANT CORNERS. SAW CUTS SHALL BE 1/4 OF THE SLAB DEPTH AND SHALL BE PERFORMED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY ENOUGH TO PREVENT THE AGGREGATE FROM BEING DISLODGED BY THE SAW BLADE. THIS IS AN EFFORT TO CONTROL THE STRESSES, AN INHERENT PROPERTY OF CONCRETE WHICH SOMETIMES RESULTS IN CRACKS, WHICH IS NOT UNCOMMON.

CONCRETE MASONRY WORK SHALL BE IN ACCORDANCE WITH ACI 530.1/ASCE 6/TMS 602, SPECIFICATION FOR CONCRETE MASONRY STRUCTURES AND ACI 530/ASCE 5/TMS 402, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES. CONCRETE MASONRY UNITS SHALL BE IN CONFORMANCE WITH ASTM C90, GRADE N, TYPE II. MASONRY UNITS SHALL BE TESTED IN ACCORDANCE WITH ASTM C140 AND SHALL HAVE A MINIMUM NET AREA STRENGTH OF 1900 PSI (F'm = 1500 PSI). GROUT SHALL BE IN CONFORMANCE WITH ASTM C476, COARSE TYPE WITH A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI AND A SLUMP OF 9" TO 11".

MORTAR SHALL BE IN ACCORDANCE WITH ASTM C270, TYPE S.

5. PROVIDE CLEANOUTS FOR ALL GROUTED CONSTRUCTION AND LIMIT MORTAR PROTRUSIONS TO 1/2" MAX. IN GROUTED CELLS. ALL MASONRY WALLS SHALL BE CONSTRUCTED IN RUNNING BOND WITH 9 GA. LADDER TYPE JOINT REINFORCING SPACED 16"o.c. VERTICALLY. LAP 8" MINIMUM AT ALL CORNERS & SPLICES.

PROVIDE PRECAST CONCRETE LINTEL WITH 1#5 HORIZ BAR IN 8" & 2#5 IN 12" WIDE, GROUTED SOLID WITH 8" MINIMUM BEARING AT ALL MASONRY OPENINGS (TYP. UNLESS OTHERWISE NOTED).

PROVIDE HOOKED DOWELS IN FOOTINGS AND BEAMS WITH A MINIMUM LAP SPLICE OF 48 BAR DIAMETERS. 9. ALL VERTICAL AND HORIZONTAL JOINTS IN EXPOSED MASONRY WALLS SHALL BE OF UNIFORM WIDTHS AND CONCAVED

STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION.

THE MINIMUM STRUCTURAL STEEL GRADES SHALL BE AS FOLLOWS: PLATES & ANGLES ASTM A36 Fy = 36 KSI

STRUCTURAL TUBE ASTM A500 Fy = 46 KSI

. ASTM A992 Fy = 50 KSI

STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE A.I.S.C. "CODE OF STANDARD PRACTICE", LATEST EDITION. WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH A.W.S. D1.1 WITH E70XX ELECTRODES. FILLET WELDS SHALL

BE A MINIMUM OF 3/16" UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH ASTM A325 & SHALL BE DESIGNED AS BEARING TYPE CONNECTIONS

WITH THREADS EXCLUDED FROM THE SHEAR PLANE. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A307.

ALL MEMBERS SHALL BE POWER TOOL CLEANED AND PAINTED WITH A RUST INHIBITIVE SHOP PRIMER WITH A MIN. THICKNESS

8. ALL FIELD WELDS SHALL BE WIRE BRUSH CLEANED AND PRIMED WITH A RUST INHIBITIVE PRIMER.

STEEL JOISTS SHALL BE DESIGNED FABRICATED AND ERECTED IN ACCORDANCE WITH S.J.I. (STEEL JOIST INSTITUTE) "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, K-SERIES", LATEST EDITION. STEEL JOISTS SHALL BE DESIGNED BY A FLORIDA REGISTERED ENGINEER ACTING AS A SPECIALTY ENGINEER, AND

SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENG. OF RECORD FOR APPROVAL. 3. STEEL JOISTS & BRIDGING SHALL BE IN ACCORDANCE WITH THE S.J.I. "RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS", LATEST EDITION. 4. WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH A.W.S. D1.1 WITH E70XX ELECTRODES. FILLET WELDS SHALL

5. STEEL JOISTS SHALL BE CLEANED AND PAINTED WITH A STANDARD COAT OF GRAY RUST INHIBITIVE PRIMER. 6. SHOP DRAWINGS & CALCULATIONS SHALL BE SUBMITTED SIGNED AND SEALED FOR REVIEW PRIOR TO FABRICATION.

1. Metal roof deck shall be $1\frac{1}{2}$ " - 22 ga. Wide Rib Galvanized non-vented deck as per plan with a minimum (3) span

2. WELDING OF METAL DECKS SHALL BE IN ACCORDANCE WITH A.W.S. D1.3 WITH E60XX ELECTRODES USING A MINIMUM OF

5/8"Ø PUDDLE WELDS AND WITH THE USE OF WELD WASHERS FOR FORM DECKS.

(5) 5/8"Ø PUDDLE WELDS PER SHEET PER SUPPORT & WITH (2)#12 SIDE LAP SCREWS @ 3rd POINTS.

PROVIDE 5/8"Ø PUDDLE WELDS @ 12"o.c. (TYPICAL @ PERIMETERS).

4. METAL DECKS SHALL BE IN ACCORDANCE WITH S.D.I. (STEEL DECK INSTITUTE) SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF AND FLOOR DECK AS CONTAINED IN THE S.D.I. DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS, S.D.I. PUBLICATION NO. 25, LATEST EDITION. ATTACHMENT AND DIAPHRAGM DESIGN SHALL BE IN ACCORDANCE WITH S.D.I. DIAPHRAGM DESIGN, LATEST EDITION.

ALL MATERIAL SHALL BE THE MINIMUM TYPE, SIZE, GAUGE AND SPACING AS SPECIFIED ON PLANS. THE LIGHT GAGE STEEL FRAMING SHALL BE DESIGNED BY A SPECIALTY ENGINEER AND SIGNED AND SEALED SHOP DRAWINGS

SIGNED AND SEALED SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. 4. STRUCTURAL PROPERTIES OF METAL STUDS SHALL BE IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) "SPECIFICATION FOR DESIGN OF COLD FORMED STRUCTURAL MEMBERS". METAL FRAMING COMPONENTS TO BE OF STRUCTURAL QUALITY STEEL SHEET WITH A MINIMUM YIELD OF 33,000 PSI OR 40,000

PSI; ASTM A 446, A 570, OR A611, WITH A GALVANIZED FINISH COMPLYING WITH ASTM A525 FOR MINIMUM G60 COATING. CONCRETE THREADED FASTENERS SHALL BE CORROSION RESISTANT AND INSTALLED AS PER MANUFACTURER'S 7. SCREWS FOR METAL FRAMING CONNECTORS SHALL BE A MINIMUM OF #10 x 3/4" CORROSION RESISTANT HEX HEAD SELF

DRILLING, SELF TAPPING DRILLING, CADMIUM PLATED TYPICAL U.N.O. OR OF OTHER SIZE AND TYPE INDICATED ON DRAWINGS. PROVIDE A MINIMUM OF (3) SCREWS EACH CONNECTION.

8. ALL FRAMING SHALL BE PLUMBED & SECURELY FASTENED TO FLANGES OF ALL UPPER AND LOWER TRACKS WHERE APPLICABLE. 9. VERTICAL HANGERS, DIAGONAL AND HORIZONTAL BRACING SHALL BE PROVIDED AS REQUIRED TO KEEP ALL MEMBERS PLUMB

1. ALL TIMBER ELEMENTS SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE.



Key Plan

Issues:

A

No.: Date: 03/21/22 Permit 06/30/23 Bid Set

Description:

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Consultant:



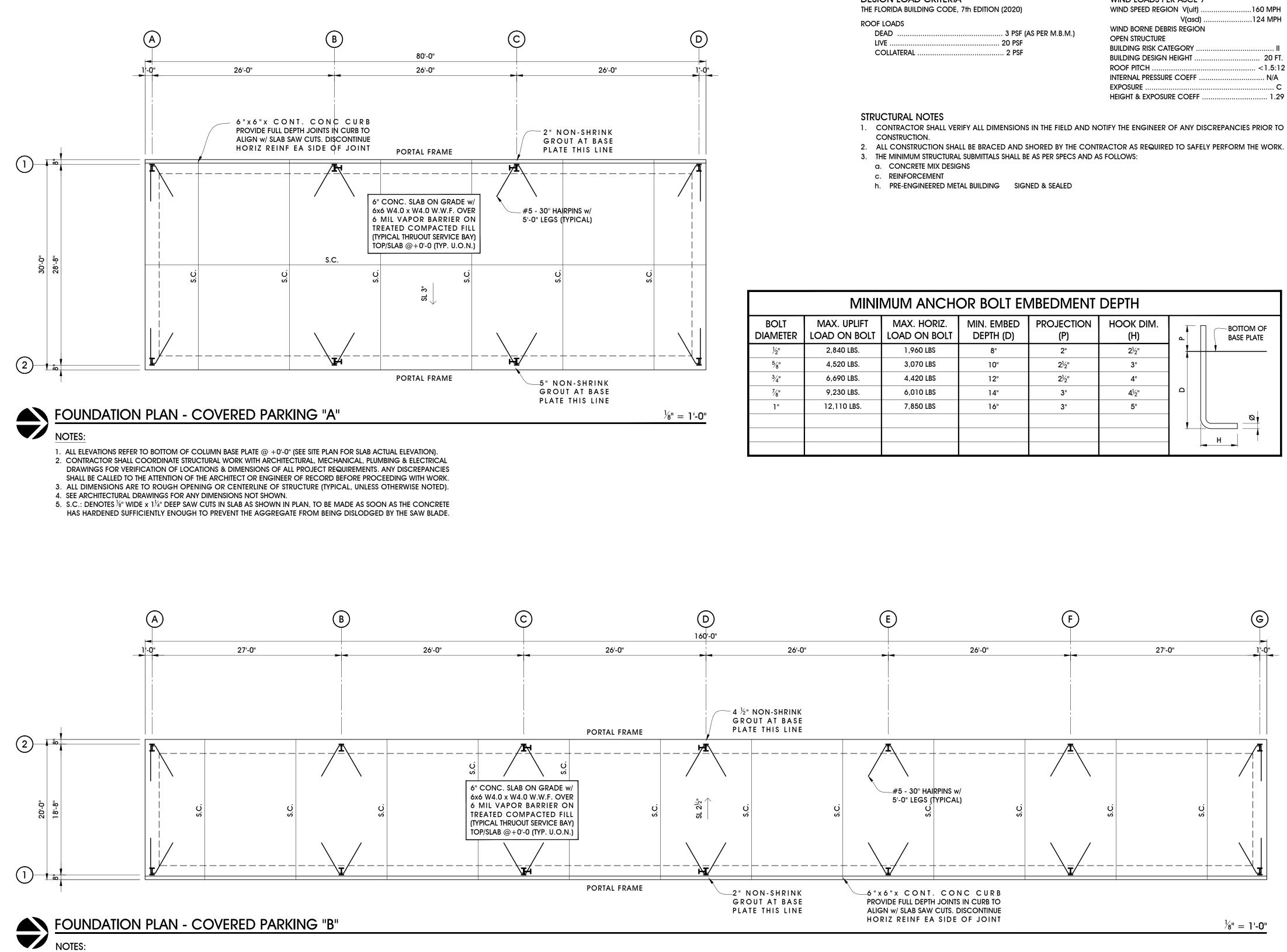
Drawing Title:

SCHEDULES & GENERAL NOTES

Reference North:

FL P

	Drn: S.C. Baker	Drawing File:
	Chd:	XREF File:
	Mike Lue	
	Project No.:	Plot File:
	21-224	
License No.: 8662 E. No.: 47520	Sheet No.:	
Signed:	S	-5



1. ALL ELEVATIONS REFER TO BOTTOM OF COLUMN BASE PLATE @ +0'-0" (SEE SITE PLAN FOR ACTUAL SLAB ELEVATION). 2. CONTRACTOR SHALL COORDINATE STRUCTURAL WORK WITH ARCHITECTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR VERIFICATION OF LOCATIONS & DIMENSIONS OF ALL PROJECT REQUIREMENTS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK. 3. ALL DIMENSIONS ARE TO ROUGH OPENING OR CENTERLINE OF STRUCTURE (TYPICAL, UNLESS OTHERWISE NOTED).

4. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT SHOWN. 5. S.C.: DENOTES $\frac{1}{2}$ " WIDE X $\frac{1}{4}$ " DEEP SAW CUTS IN SLAB AS SHOWN IN PLAN, TO BE MADE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY ENOUGH TO PREVENT THE AGGREGATE FROM BEING DISLODGED BY THE SAW BLADE.

DESIGN LOAD CRITERIA

oof loads	
DEAD	3 PSF (AS PER M.B.M.)
LIVE	20 PSF
COLLATERAL	2 PSF

WIND LOADS PER ASCE 7	FC	DUNDATION
WIND SPEED REGION V(ult)160 MPH	1.	FOUNDATIONS AR
V(asd)124 MPH	2.	CONTRACTOR SH
WIND BORNE DEBRIS REGION		ASTM D1557 IS O
OPEN STRUCTURE	3.	FOOTINGS SHALL
BUILDING RISK CATEGORY II	4.	REFER TO SOILS IN
Building Design Height 20 FT.		REQUIREMENTS.
ROOF PITCH	C (ONCRETE CONCRETE WOR
HEIGHT & EXPOSURE COEFF		CONCRETE FOR E
······································	2.	THE MINIMUM CC



	MINIMUM ANCHOR BOLT EMBEDMENT DEPTH														
BOLT DIAMETER	Max. Uplift Load on Bolt	MAX. HORIZ. LOAD ON BOLT	MIN. EMBED DEPTH (D)	PROJECTION (P)	HOOK DIM. (H)	<u>م</u>	BOTTOM OF BASE PLATE								
1⁄2"	2,840 LBS.	1,960 LBS	8"	2"	2½ "	1 🗜	<u> </u>								
5/8"	4,520 LBS.	3,070 LBS	10"	21⁄2"	3"										
3⁄4"	6,690 LBS.	4,420 LBS	12"	21⁄2"	4"										
7⁄8"	9,230 LBS.	6,010 LBS	14"	3"	4½"										
]"	12,110 LBS.	7,850 LBS	16"	3"	5"										
						1									

CYLINDERS SHALL BE TESTED AS FOLLOWS: 1 AT 3 DAYS, 1 AT 7 DAYS, 1 AT 14 DAYS, 1 AT 28 DAYS & 1 AT 56 DAYS (IF THE MINIMUM STRENGTH IS NOT MET IN 28 DAYS) 9. CONTRACTOR SHALL PROVIDE SAW CUTS IN SLABS ON GRADE AND SECOND FLOOR PRECAST TOPPING SLABS AS PLAN OR AT A MAXIMUM SPACING OF 20'-0" O.C. EACH WAY OR 400 S.F. U.O.N. AND AT ALL RE-ENTRANT CORNERS. SAW CUTS SHALL BE 1/4 OF THE SLAB DEPTH AND SHALL BE PERFORMED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY ENOUGH TO PREVENT THE AGGREGATE FROM BEING DISLODGED BY THE SAW BLADE. THIS IS AN EFFORT TO CONTROL THE STRESSES, AN INHERENT PROPERTY OF CONCRETE WHICH SOMETIMES RESULTS IN CRACKS, WHICH IS NOT UNCOMMON.

5.

7.

- 1.5 MILS. U.N.O

9. METAL BUILDING MANUFACTURER SHALL DESIGN THE FRAMING TO SUPPORT ALL LOADS SPECIFIED IN PLAN. 10. ALL SECONDARY FRAMING MEMBERS AND CONNECTORS NOT LIMITED TO PURLINS AND GIRTS AT EXTERIOR ROOFS WITH OPEN SIDES SHALL BE HOT-DIPPED GALVANIZED.

UNDATION

FOUNDATIONS ARE DESIGNED BASED ON AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF. CONTRACTOR SHALL VERIFY THAT THE MINIMUM COMPACTION OF 95% OF ITS MODIFIED PROCTOR IN ACCORDANCE WITH

ASTM D1557 IS OBTAINED PRIOR TO FOOTING PLACEMENT.

FOOTINGS SHALL BE PLACED ON COMPACTED SOIL FREE OF ORGANIC DEBRIS. REFER TO SOILS INVESTIGATIVE REPORT BY ARDAMAN & ASSOC. IN REPORT No. 21-23-5281 FOR ALL SITE PREPARATION

CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF A.C.I. 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND A.C.I. 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTHS SHALL BE AS FOLLOWS:

REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60.

WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A185 AND SHALL BE ADEQUATELY SUPPORTED AT 36" o.c. E.W. THE MINIMUM CONCRETE COVERAGES SHALL BE AS FOLLOWS:

PROVIDE 90° CORNER LAP SPLICES AT ALL INTERSECTIONS. THE MINIMUM LAP SPLICE SHALL BE 30 BAR DIAMETERS OR AS NOTED IN SCHEDULE.

8. CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH ASTM C39. A MINIMUM OF (5) TEST CYLINDERS SHALL BE TAKEN FOR EACH POUR, AND ADDITIONAL SETS FOR EVERY 50 CUBIC YARDS OF POUR.

PRE-ENGINEERED METAL BUILDING - REFERS TO METAL BUILDING MANUFACTURER (M.B.M.)

1. PRE-ENGINEERED METAL BUILDING STRUCTURE SHALL BE DESIGNED AND MANUFACTURED FOR ALL LOADS PRESCRIBED HEREIN. 2. SUBMIT METAL BUILDING SHOP DRAWINGS AND REACTIONS SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER FOR REVIEW BY THE ENGINEER OF RECORD PRIOR TO FABRICATION.

3. ALL METAL BUILDING COMPONENTS SHALL BE COLD FORMED WITH A MINIMUM GRADE OF FY = 50KSI AND SHALL BE IN ACCORDANCE WITH AISI AND AISC LATEST EDITION.

4. ROOF PANELS SHALL BE A MINIMUM OF 24 GA STANDING SEAM PANELS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AS REQUIRED TO RESIST THE SPECIFIED WIND UPLIFT LOADS. COLOR SHALL BE AS SELECTED BY ARCHITECT AND OWNER.

5. WALL PANELS SHALL BE A MINIMUM OF 26 GA GALVALUME AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AS REQUIRED TO RESIST THE SPECIFIED WIND LOADS. COLOR SHALL BE AS SELECTED 6. ALL MEMBERS SHALL BE POWER TOOL CLEANED AND PAINTED WITH A RUST INHIBITIVE SHOP PRIMER WITH A MIN. THICKNESS OF

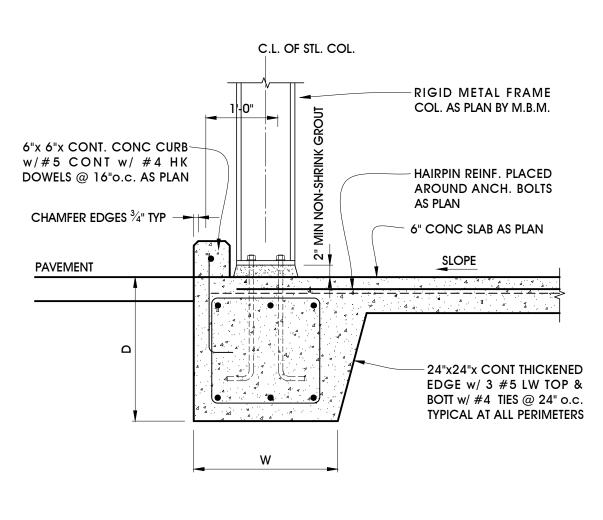
7. DIAGONAL WALL AND ROOF BRACING SHALL BE PLACED IN BAYS WITHOUT OPENINGS. 8. METAL BUILDING MANUFACTURER SHALL PROVIDE ALL THE NECESSARY TRIM, FLASHING AND COVER PLATES AS NEEDED TO PROVIDE A COMPLETE WEATHER PROOFED BUILDING ENVELOPE AND STRUCTURE.



Issues: No.:

Date: 03/21/22 Permit

Description: 06/30/23 Bid Set



TYPICAL SECTION @ METAL BUILDING COL $\frac{3}{4}$ " = 1'-0"

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1.	THE CONTRACTOR SHALL FURNISH ALL L FOR THE INSTALLATION OF A COMPLETE DRAWINGS, THE FLORIDA BUILDING CODE COUNTY AND LOCAL ORDINANCES AND T PUBLICATIONS; SMACNA-85, 92, 95; AS 90A-02, 90B-02, 91-99, 96-01; ANSI
2.	THE CONTRACTOR SHALL PAY ALL COSTS COSTS INCIDENTAL TO THE COMPLETION
3.	THE CONTRACTOR SHALL VISIT THE SITE
4.	THE CONTRACTOR SHALL SUPPLY THE A
5.	CONTRACTOR SHALL SUBMIT, FOR APPRO DRAWINGS FOR EACH PIECE OF EQUIPME
6.	ALL MATERIAL SHALL BE NEW OF U.S. M BE PERFORMED AT INDUSTRY STANDARD ALL EQUIPMENT SHALL BE UL OR ETL LI ALL INSTALLATIONS SHALL COMPLY WITH LOCATED WITHIN 3,000 FT FROM THE OCI ALL OUTDOOR EXPOSED SUPPORTS, STAN
7.	DUCTWORK: <u>A.</u> ALL AIR CONDITIONING DUCT WORK SI REINFORCED FIBERGLASS WITH MANUFACT <u>B.</u> ALL FLEX DUCT SHALL BE RATED CLA LINERS, MIN. R-6 WITH A MAX. TOTAL L FLEXIBLE DUCTWORK ELBOW SUPPORTS A ELBOW" AS MANUFACTURED BY "THERM
	C. ALL EXHAUST DUCTS AND OUTSIDE A WITH SEALED SEAMS AND JOINTS. ALL O EXTERNAL BLANKET INSULATION R-6 MIN ALL METAL EXHAUST, MAKE-UP OR OTH CONDITIONS CAN OCCUR INSIDE THE DUC THE CONTRACTOR SHALL PROVIDE ALL S ALL METAL DUCTS SHALL BE FABRICATED
	SPECIAL NOTE: SMACNA DUCT PRESSURE CLASSES BASE 6", AND 10". EACH DUCT SYSTEM SHALL CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIE CLASS IS THE BASIS OF COMPLIANCE WI WHERE NO PRESSURE CLASS IS SPECIFIE CLASS IS THE BASIS OF COMPLIANCE WI OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SM ITS PRESSURE CLASS SEALING METHODS.
9.	OUTSIDE AIR INTAKES SHALL BE SCREEN THAN 1/2" MESH. O/A INTAKES SHALL I FROM ANY CHIMNEY, VENT OUTLET OR S IS NOT LESS THAN 24 INCHES ABOVE TH OUTSIDE AIR INTAKE VENTS LOCATED ON MARKING "INTAKE", PERMANENTLY ATTAC
10. 11.	DUCT SIZES SHOWN ARE INSIDE DIMENSION ALL AIR DEVICES (DIFFUSERS, REGISTERS) CONSTRUCTION WITH EXPOSED SURFACE SPECIFIED BY ARCHITECT. DEVICES SHALL PROVIDE OPPOSED BLADE DAMPERS AT PLANS. PROVIDE BALANCING DAMPERS F TO ENSURE COMPLAINCE WITH FMC 2020
12.	TEMPERATURE CONTROLS/THERMOSTAT: A. SHALL BE COMBINATION COOLING/HEA HEAT-OFF" AND FAN "ON-AUTO" SELEC RECOMMENDED BY MANUFACTURER, HON
13.	THERMOSTAT LOCATION SHALL BE APPRO INSTALL THERMOSTAT 48" TO 54" A.F.F. MECHANICAL CONTRACTOR SHALL COORD FOR JUNCTION BOXES, CONDUITS, CONTR AND SCOPE OF WORK FOR EACH TRADE
	WHENEVER THERE ARE MORE THAN ONE GANGED TOGETHER WITHIN THE SAME CO CONTRACTOR SHALL COORDINATE THIS IS SHALL BRING ANY DISCREPANCY TO THE
14.	REFRIGERANT LINES SHALL BE COPPER, BRAZING-JOINT TYPE FITTINGS, USE BRA PER AWS A5.8: BCuP SERIES COPPER-P

- AZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCuP SERIES COPPER-PHOSPHORUS ALLOY OR BAg1 SILVER ALLOY. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL. ALL EXPOSED INSULATION SHALL BE PROTECTED WITH UV RESISTANT PAINT OR ALUMIN. SHIELD. ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES (1/2" FOR ABOVE 40° F AND
- 1" FOR BELOW 40° F) PER FLORIDA ENERGY CODE TABLE 4-11 FOR PIPING INSULATION. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.

SELECTION DATA													
TAG	SERVICE AREA	MANUF.(*)	мое										
EF-1	RR	GREENHECK	SP-4										
EF-2	RR	GREENHECK	SP-E										
EF-3	JAN	GREENHECK	SP-										
EF-4	WAREHOUSE	соок	ACRI										
 (*) APPROVED EQUAL MANUFACTURER: COOK ACKO ACCESSORIES NOTES: PROVIDE GRILL COLOR PER ARCHITECTURE SPECIFICATIO PROVIDE BACK DRAFT DAMPER. LOCATE BACK DRAFT DAMPER. LOCATE BACK DRAFT DAMPER. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND PROTECTION. COORDINATE WITH ELECTRICAL CONTRACTO PROVIDE BIRD SCREEN. PROVIDE BALANCING DAMPER. SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION PROVIDE WEATHERHOOD DRAIN AND CORROSION PROTECTION 													

MECHANICAL NOTES

LABOR, MATERIALS, AND EQUIPMENT NECESSARY TE SYSTEM IN ACCORDANCE WITH THESE 2020 AND ALL OTHER APPLICABLE STATE, THE LATEST ADDITION OF THE FOLLOWING SHRAE 15-01, 34-01, 62-04; NFPA 70-02, 72-02,

- Z10.1-98, Z10.3-98, Z21.8-94, Z21.83-98. TS OF PERMIT, INSPECTIONS AND ALL OTHER
- AND TESTING OF THIS WORK. AND COORDINATE WORK WITH OTHER TRADES.
- ARCHITECT WITH "AS-BUILT" DRAWINGS.
- OVAL FIVE [5] COPIES OF MANUFACTURER'S ENT AND CONTROLS INCLUDED IN CONTRACT.
- MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL QUALITY LEVEL BY CERTIFIED PROFESSIONALS.
- ISTED. FMC 2020, CH. 3, GENERAL REGULATIONS. BUILDINGS CEAN SHALL UTILIZE NON-FERROUS MATERIALS FOR NDS, FASTENERS, ETC.
- SHALL BE OF 1-1/2" (R-6) HEAVY DUTY FOIL CTURER'S LOGO PRINTED ON VAPOR BARRIER
- LASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL ENGTH NOT TO EXCEED 15 FT. AT EACH DIFFUSER, GRILLE, AND REGISTER EQUAL TO "FLEXFLOW MAFLEX"
- AIR DUCTS SHALL BE GALVANIZED SHEET METAL OUTSIDE AIR DUCT SHALL BE INSULATED WITH
- HERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT JCT SHALL BE EXTERNALLY INSULATED WITH R-6 MIN. SHEETMETAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC. TED IN ACCORDANCE WITH LATEST EDITION OF S.M.A.C.N.A.
- ED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE
- ED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE TH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. ED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE TH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM
- MACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR
- NED WITH A CORROSION RESISTANT MATERIAL NOT LARGER NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT. SANITARY SEWER VENT OUTLET, UNLESS SUCH VENT THE OUTSIDE AIR VENT.
- ON ROOFS WILL BE PROPERLY MARKED WITH A UNIVERSAL ACHED PER FMC 2020, SEC. 401.5 IONS.
- RS AND GRILLES) SHALL BE ALL ALUMINUM
- OFF WHITE BAKED ENAMEL FINISH OR AS LL BE AS SPECIFIED OR EQUAL TO TITUS OR METALAIRE. ALL DIFFUSERS AND REGISTERS AS INDICATED ON FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS 20, PAR. 601.5 AND PAR. 603.18 FOR BALANCED AIR FLOW.
- EATING, WITH SYSTEM "COOL-AUTO-
- CTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE AS NEYWELL OR EQUAL. PROVIDE TAMPER PROOF COVERS. ROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. . PER A.D.A REQUIREMENTS WHERE APPLICABLE. DINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS TROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES
- PRIOR TO ANY PURCHASING OR INSTALLATION. SENSOR OR THERMOSTAT. SIDE BY SIDE. THEY SHALL BE OVER PLATE WHEREVER POSSIBLE. SSUE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION AND
- ENGINEER'S ATTENTIÓN. TYPE "L" HARD DRAWN WITH WROUGHT COPPER

16. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.

M0.1

M2.1

M6.1

AC

AFF

BDD

CD

COP

DB

DIA.

EER EDH

FF

ESP

FD FLA FMS IPLV

- 17. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.
- 18. PROVIDE SMOKE DETECTORS WITH SERVICE ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. FOR SMOKE DETECTORS NOT VISIBLE, IN CONCEALED SPACES, PROVIDE REMOTE ANNUNCIATION/TEST STATION AS REQUIRED BY AUTHORITY HAVING JURISDICTION, COORDINATE PRIOR TO INSTALLATION. DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH
- ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM. 19. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS WITH SERVICE ACCESS DOORS IN ALL DUCTS AND
- OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT OUTSIDE AIR INTAKES AS REQUIRED. PROVIDE RADIATION DAMPERS IN RATED CEILINGS FOR ALL CEILING OPENINGS, CEILING FANS. DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY. PROVIDE LOW-LEAKAGE CLASS DAMPERS FOR ALL SITUATIONS WHERE THE AIRFLOW CFM HAS TO BE CONTROLLED. VERIFY AND REPLACE AS REQUIRED FOR EXISTING SYSTEMS.
- 20. HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PER F.B.C. 2020, CH. C408.2.2 (THE T & B REPORT SHALL BE INDEPENDENT FOR SYSTEMS OVER 15 TONS) FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (F) FROM SUPPLY GRILLES AND EVAPORATORS. FOR (EXISTING) SMOKE EVACUATION SYSTEMS HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PRIOR TO ANY NEW WORK, PROVING THAT THE SMOKE EVACUATION SYSTEM PERFORMS PER ORIGINAL DESIGN DOCUMENTS AND IS COMPLIANT WITH LOCAL CODE REQUIREMENTS.
- 21. RUN INSULATED FIRE RATED CONDENSATE DRAINS AS REQUIRED.
- 22. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
- 23. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH FBC 2020 PAR. 306.5 IF INSTALLED HIGHER THAN 16 FEET A.F.F. MECHANICAL EQUIPMENT INSTALLED IN ATTICS SHALL MEET THE REQUIREMENTS OF FBC-ENERGY 2020 PAR. C403.2.7.6 IF THE EQUIPMENT CAN NOT BE SERVICED/REMOVED THROUGH REQUIRED OPENING. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO MECH. DAMAGE. ALL EQUIPMENT SHALL BE INSTALLED ON 6" CONCRETE PAD AT GRADE LEVEL . NOTE: AIR HANDLING UNITS ARE NOT ALLOWED IN COMMERCIAL ATTICS SPECIAL NOTE:
- ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR ROOF MOUNTED EQUIPMENT AS REQUIRED BY FBC 2020, SEC. 1509, 1522 AND CHAPTER 16, SHALL BE PROVIDED BY STRUCTURAL ENGINEER/ARCHITECT.
- 24. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 240-480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.
- 25. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.
- 26. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT, IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS, OR ADDITIONAL CLARIFICATION REQ'D SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK.
- 27. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK TO DECK PARTITIONS. AIR TRANSFER DUCTS MUST BE INSTALLED. WHEN CPVC PIPING IS USED FOR FIRE SPRINKLER SYSTEMS, THE R/A GRILLES LAYOUT SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE DIRECTLY BELOW THE CPVC PIPING.
- 28. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS, IF NOT SPECIFIED TO BE TYPE "L" COPPER OR PVC WHERE ALLOWED BY CODE WITH 1/2" ARMAFLEX INSULATION. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR COND. UNIT, AS A SECONDARY DRAIN SYSTEM TO COMPLY WITH FMC 2020, SEC. 307 SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PIPE TO CONDENSATE DRAIN PER PLUMBING PLANS.
- 29. MANUFACTURER'S WARRANTY: CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN WILL BE DONE DURING NÓN-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.
- 30. ON PROJECT SPECIFIED WITH EQUIPMENT UTILIZING HOT GAS REHEAT AND/OR DEHUMIDIFICATION; CONTRACTOR SHALL PROVIDE FACTORY STARTUP OF EQUIPMENT WITHIN THEIR BID. STARTUP REPORT DOCUMENT TO BE PROVIDED TO ENGINEER FOR REVIEW.

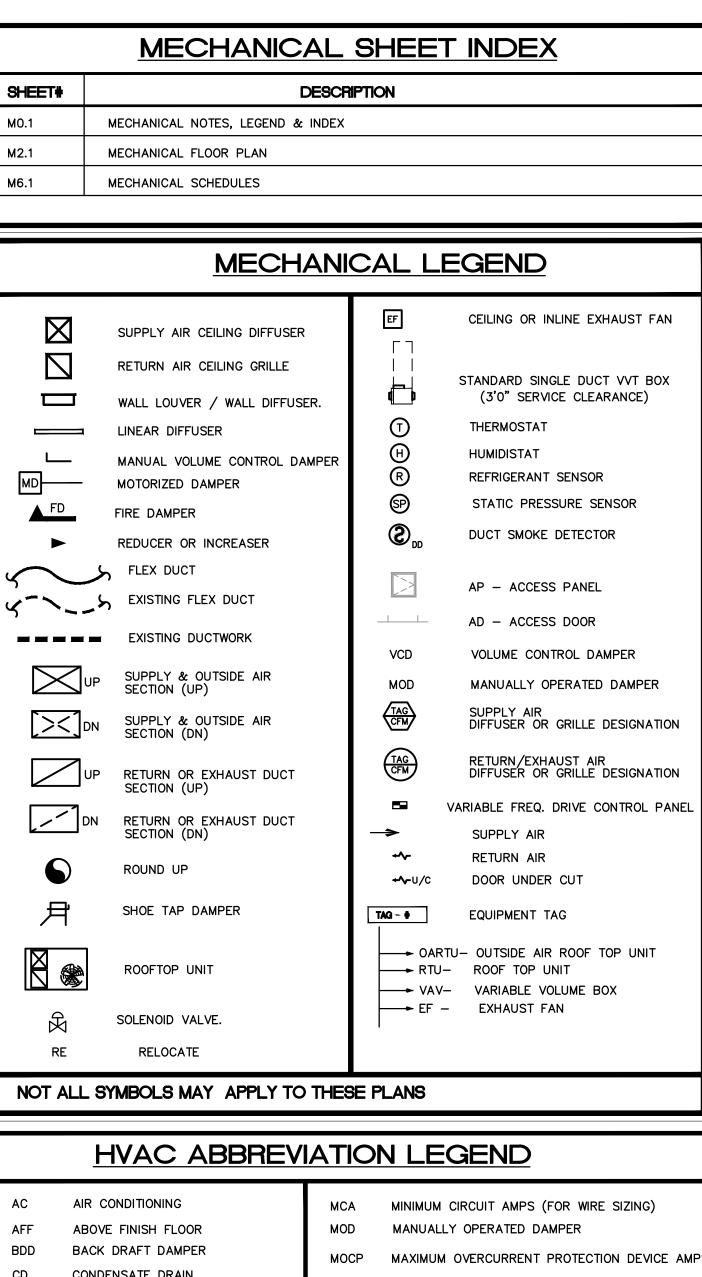
FAN SCHEDULE

		FAN DATA			MOTOR DA	TA			GENERAL	DATA			
DEL	CONFIG.	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"×W"	CONTROL	ACCESSORIES
A410	CEILING	400	.125	3.5	121 WATT	1000	DIRECT	120/1/60	31	18X15X15	*	LIGHT INTERLOCK	*
B200	CEILING	190	.2	3.5	172 WATT	1100	DIRECT	120/1/60	10	14X12X7	*	LIGHT INTERLOCK	*
-B90	CEILING	50	.2	1.5	21.1 WATT	700	DIRECT	120/1/60	10	14X12X7	*	LIGHT INTERLOCK	*
RU-B	CEILING	5000	.2	1.5	1	800	DIRECT	208/3/60	147	25X25X36	*	SWITCH	*
CME, PI	ENN							FAN NOTES		TS (IF NOT F	ACTORY PR	OVIDED). ALL NORMAL	EQUIPMENT POWER.
	R AT DISCH						 a. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED), ALL NORMAL EQUIPMENT POWER, AND EMERGENCY POWER WIRING BY ELECTRICAL CONTRACTOR. b. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32. 						

INTEGRAL THERMAL OVERLOAD OR PRIOR TO PURCHASE.

I ISOLATORS. CTION.

- c. FIELD ADJUST OPENINGS WITH STRUCTURE. d. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT
- EXCEED A NOISE LEVEL OF 65 dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS. e. COORDINATE WITH ELECTRICAL CONTRACTOR AND MANUFACTURER BEFORE BIDDING OR
- ORDERING ANY EQUIPMENT. CONTRACTOR TO PROVIDE NECESSARY STEPDOWN AND/OR MULTI-VOLTAGE TRANSFORMERS. f. SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL
- INFORMATION. ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECIFICATIONS. ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED; CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED.



ABOVE FINISH FLOOR	MOD	MANUALLY OPERATED DAMPER
BACK DRAFT DAMPER	MOCP	MAXIMUM OVERCURRENT PROTECTION DEVICE AMPS
CONDENSATE DRAIN	NC	NOISE CRITERIA
COEFFICIENT OF PERFORMANCE	0/A	OUTSIDE AIR
DRY BULB	OBD	OPOSITE BLADE DAMPER
DIAMETER	PD	PRESSURE DROP.
EXISTING TO REMAIN	R	EXISTING TO BE RELOCATED
ENERGY EFFICIENCY RATIO	R/A	RETURN AIR
ELECTRIC DUCT HEATER	,	
EXHAUST FAN	RLA	RATED LOAD AMPS.
EXTERNAL STATIC PRESSURE	SEER	STANDARD ENERGY EFFICIENCY RATIO
FILTER	TSP	TOTAL STATIC PRESSURE
FIRE DAMPER	VD	VOLUME CONTROL DAMPER
FULL LOAD AMPS.	VFD	VARIABLE FRECUENCY DRIVE
FLOW MEASURING STATION	WB	WET BULB
INTEGRATED PART-LOAD VALUE.		
INTEGRATED FART-LOAD VALUE.		
	NOTE: NOT	ALL SYMBOLS MAY APPLY TO THESE PLAN.

	*
	FLORIDA
	4548 41st Street
N	Vero Beach FL
	32967
x	Key Plan:
	Issues:
ON	No.:Date:Description:A.03-21-22PERMIT SET
ON	B. 06-01-22 BDC RESPONSE
	C. 06-22-22 BDC RESPONSE
ANEL	
	. [
	Architect:
E AMPS	
	D O N A D I O
	& Associates, Architects P.A.
	2001 9th Avenue, Suite 308 Vero Beach, FL 32960
	Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238
	www.donadio-arch.com
	Consultant:
	Drawing Title:
	MECHANICAL NOTES
	Drn: Dwg. File:
\dashv	JLH XREF File:
	TD Project No.: Plot File:
	Project No.: Plot File:

<u>Cert. No.:</u> 12,456

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ate Signed:

Project

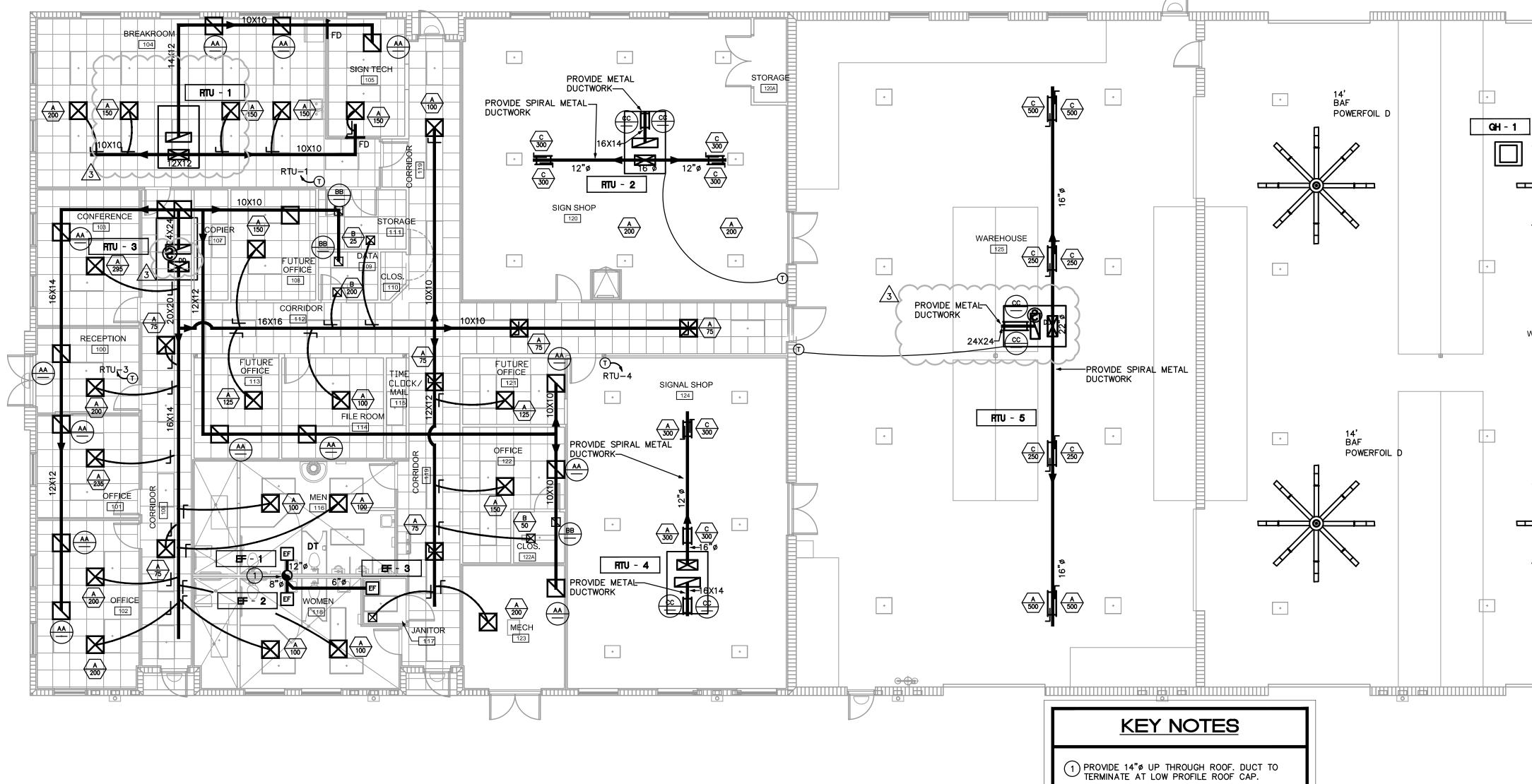
NEW PROPOSED

TRAFFIC OPERATIONS

FACILITY

RIVER

ISSUED FOR PERMIT	06-29-23
-	
KAMM CONSULTING PROJECT #: PROJECT MANAGER: DUANI	2021-0432 E MILLAR
	1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 bbrown@kammconsulting.com Certification of Authorization #8189
PRINCIPAL Bradly L Brown Florida License	#58232 date
	signed





	Project: NEW PROPOSED JACILITY WWW WWW ACILITY WWW WWW ACILITY WWW WWW ACILITY WWW WWW ACILITY WWW WWW ACILITY
14' BAF POWERFOIL D	Issues: No.: Date: Description: A. 03-21-22 PERMIT SET B. 06-01-22 BDC RESPONSE C. 06-22-22 BDC RESPONSE
14' BAF POWERFOIL D	Architect:
	Drawing Title: MECHANICAL PLAN FLOOR PLAN
ISSUED FOR PERMIT KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR IMPROJECT MANAGER: DUANE MILLAR 1408 Orange Aver fort Pierce, Florid Phone 772.595.17 brown@kammco Consulting PRINCIPAL Bradly L Brown Florida License #58232	06-29-23 Drn: Dwg. File: JLH Chd: XREF File: <u>JLH</u> Chd: XREF File: <u>Drn: Dwg. File:</u> <u>JLH</u> Chd: <u>ULH</u> <u>VREF File:</u> <u>2021-20</u> Sheet No.: <u>Cert. No.:</u> 12,456 <u>Date Signed:</u> Copyright C 2021, Donadio & Associates, Architects, P.A.

A	A/C UNIT TAG	RTU-1	RTU-2	RTU-3	RTU-4	
		TRANE	TRANE	TRANE	TRANE	
м	/ODEL	4WCZ6024A1000A	THC036E	THC092F	THC036E	
Т	OTAL SENSIBLE CAP. MBH.	24.0	36.2	87.0	36.2	
Т	OTAL COOLING CAP. MBH.	18.0	27.0	65.1	27.0	
E	NT. AIR TEMP D.B./W.B. F	78/65	78/65	78/65	78/65	
	EAV. AIR TEMP D.B./W.B. F	56.36/54.49	56.36/54.49	57.12/54.95	56.36/54.49	
	SUPPLY AIR CFM	800	1200	3000	1200	
	DUTSIDE AIR CFM	80	150	375	150	
· ⊢	/OLTAGE	208/1ø/60	208/3ø/60	208/3ø/60	208/3ø/60	
м	ICA/MOCP	19.5/30.0	23/30	81.0/90.0	23/30	
s	SEER/EER	16/-	15.0/12.7	14.5/12.6	15.0/12.7	
0	DPERATING WEIGHT LBS.	442	481	928	481	
D	DIMENSIONS L x W x H (IN.)	50X43X38	69X44X36	53X88X46	69X44X36	
N	IOTES	1-14,16,19-21	1–17	1–17	1–17	
R	REF./LBS.	R-410A/-	R-410A/6,2 R-410A/-		R-410A/6,2	
ξ N	IOMINAL TONNAGE/STAGES	2/2 3/2		7.5/2	3/2	
	IO. OF COMPRESSORS	_	1	2	1	
ή c	COMP. R.L.A. EACH	11.7 10.4		15.9/10.0	10.4	
j N	IO. OF OUTDOOR FANS	1	1	1	1	
	AN FLA. EACH	0.5	1.5	4.0	1.5	
IN	NDOOR FAN TYPE	FC	FC	FC	FC	
F.	AN E.S.P. (IN. W.G.)	0.5"	0.5"	1"	0.5"	
F.	AN H.P./B.H.P.	0.5 BHP	0.2 BHP	2.75 BHP	0.2 BHP	
	AN F.L.A.	4.3	4.9	7.3	4.9	
i c	COIL ROWS/FPI	-	3/16	4/16	3/16	
	IEATER TYPE	HEATPUMP	ELECTRIC	ELECTRIC	ELECTRIC	
5 -	EATER K.W. @ RATED VOLTAGE	20200 (BTUs)	4.5 @ 208V/3ø	20.3 @ 208V/3ø	4.5 @ 208V/1ø	
N	NO. OF STEPS	1	1	1	1	
F	ILTER TYPE/EFF.					

<u>NOTES:</u>

1. UNITS SHALL BE " ARI" RATED. SUBSTITUTIONS TO BE APPROVED BY ENGINEER.

2. PROVIDE FACTORY BUILT ROOFCURB 14" HIGHT(20" IF NECESSARY). INSTALL UNIT LEVEL WITH

PRESCRIBED TOLERANCES (SEE DETAIL). PROVIDE COMPRESSOR WITH 5-YEAR WARRANTY.

4. PROVIDE SLOPED CONDENSATE DRAIN PAN AND INTERNAL TRAP. 5. PROVIDE SERVICE CLEARANCE PER MANUFACTURE'S RECOMMENDATIONS.

PROVIDE SINGLE POINT POWER ENTRY.

PROVIDE FACTORY MOUNTED FUSED DISCONNECT, COORDINATE PRIOR TO PURCHASE AND

INSTALLATION. 8. PROVIDE VIBRATION/SOUND ISOLATION CURB.

9. PROVIDE MOTOR OVERLOAD THERMAL PROTECTION. 10.

PROVIDE MATCHING PROGRAMMABLE THERMOSTAT. PROVIDE ELECTRONIC CONDENSATION CONTROL SYSTEM FOR DRAIN PANS(S).

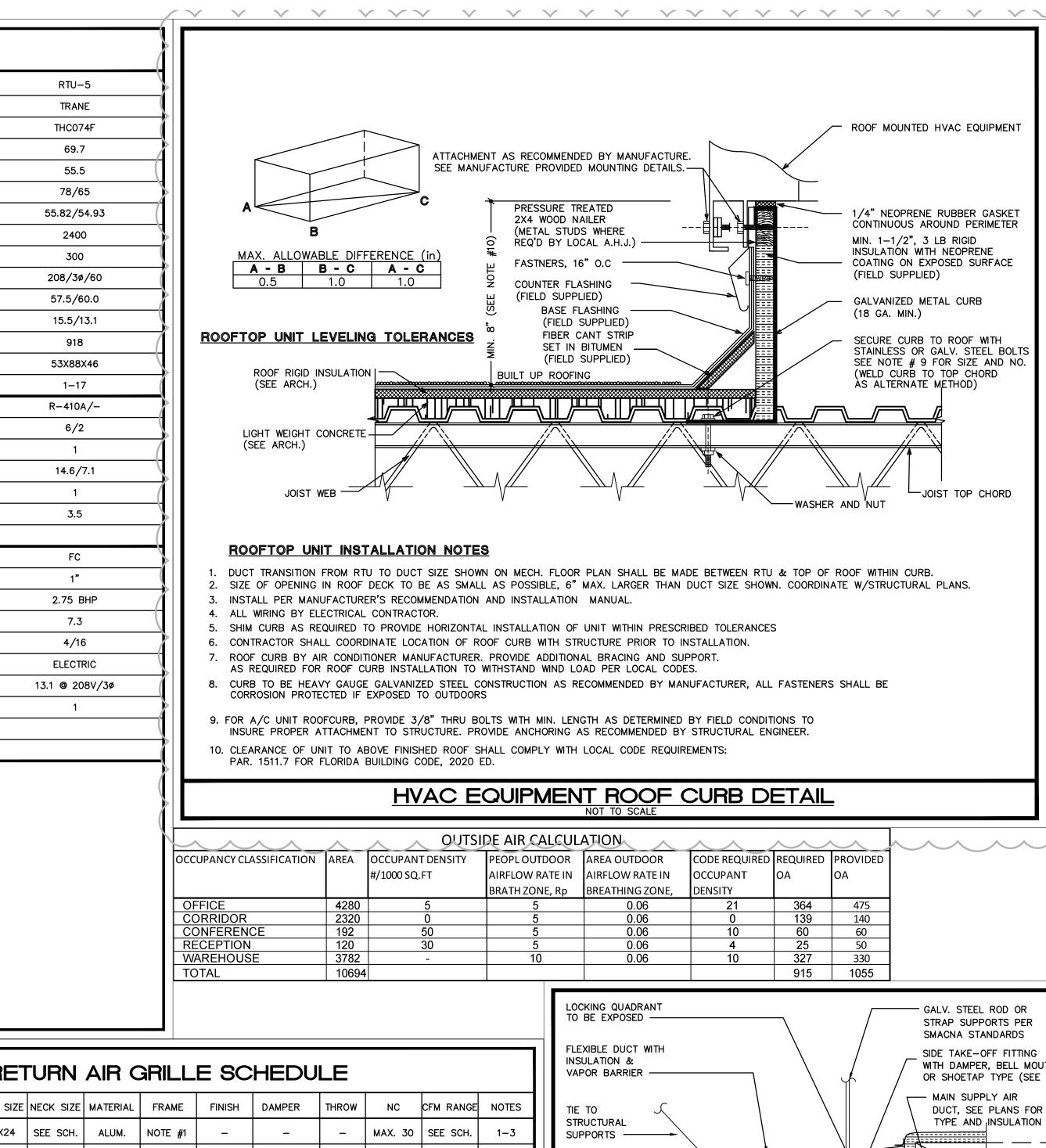
PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY.

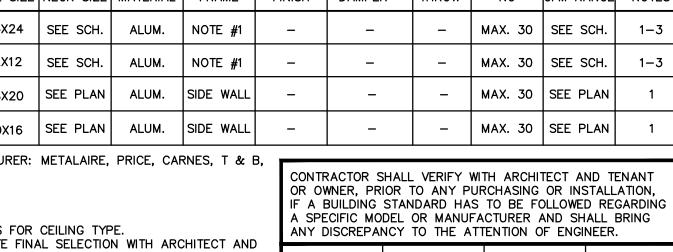
13. ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED;

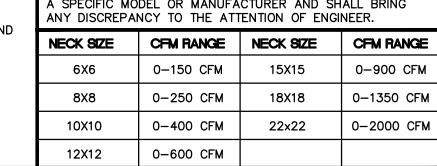
- CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED. 4. PROVIDE MOTORIZED DAMPER.
- 15. PROVIDE CO2 SENSOR TO BE INTERLOCKED WITH MOTORIZED DAMPER.
- 16. PROVIDE MINIMUM DUAL STAGE COMPRESSORS. 17. PROVIDE ION-OA IONIZATION DEVICE.

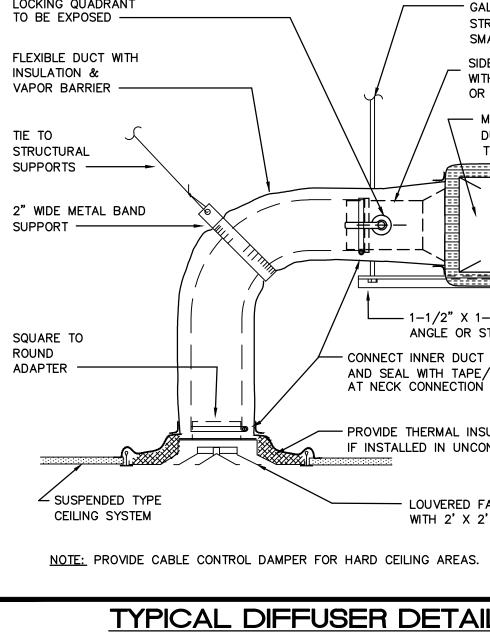
	SUPPLY AIR GRILLE SCHEDULE														RET	FURN	AIR C	
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANG	E NOTES	ТА	G	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	
A	TITUS/ TDCA-AA	24X24	SEE SCH.	ALUM.	NOTE #3	-	-	4-WAY	MAX. 30	SEE SCH.	1-6	A	A	TITUS/PAR-AA	24X24	SEE SCH.	ALUM.	
В	TITUS/ TDCA-AA	12X12	SEE SCH.	ALUM.	NOTE #3	-	-	4-WAY	MAX. 30	SEE SCH.	1-6	В	в	TITUS/PAR-AA	12X12	SEE SCH.	ALUM.	
С	TITUS/S300FS	20X8	SEE PLAN	ALUM.	DUCT MOUNTED	-	-	-	MAX. 30	SEE PLAN	4	с	с	TITUS/ 3FL	38X20	SEE PLAN	ALUM.	
(*)	(*) EQUIVALENT MANUFACTURER: METALAIRE, PRICE, CARNES, T & B, NAILOR										·	D	D	TITUS/ 3FL	20X16	SEE PLAN	ALUM.	
1.	ENERAL NOTES: PROVIDE SPIN-IN CO PROVIDE TYPICAL 4-					RE INDICATI	ED ON PLAN		FI FI	LEX SCHED	ULE		(*)	EQUIVALENT MANU NAILOR	JFACTURER:	METALAIRE,	PRICE, CAF	
	REFER TO ARCHITECT				RCHITECT AN	ND OWNER			69	ø" 50	0-125 CFM	GENERAL NOTES:						
5.	FLEX DUCT SIZE TO PROVIDE INSULATION	BE SAME AS	6 DIFFUSER	NECK SIZE.					89	ø" 130	0-200 CFM		1. REFER TO ARCHITECT PLANS FOR CEILING TYPE 2. CONTRACTOR TO COORDINATE FINAL SELECTION					
									10	ø" 20	5-330 CFM		-	WNER. ROVIDE INSULATION (SFR IF IN	
	CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER,									ø" 33	5—450 CFM			NCONDITIONED SPACE				
			PRIOR T	O ANY PUR	CHASING OR	INSTALLAT	ION, IF A BUL	DING	14	ø" 45	5—600 CFM	CFM						
				UFACTURER ENTION OF		. BRING AN	Y DISCREPANC	Y TO	16	ø" 60	5—700 CFM							

VENTILATOR SCHEDULE										
BELECTION [DATA				VENTILATO	OR DATA				
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP ("WG)	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"xW"	ACCESSORIES
GH-1	SERVICE RECEPTION STALL	соок	GI	ROOFTOP	5000	.021	191	63X62X20	42X42	1-4
 (*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME, PENN <u>ACCESSORIES NOTES:</u> PROVIDE BACKDRAFT DAMPER. PROVIDE ROOF CURB. PROVIDE CORROSION PROTECTION. PROVIDE VIBRATION ISOLATORS. GENERAL FAN NOTES: ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65 dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS. ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED; CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED.										OF 65 dB NT IN ALL QUIREMENTS S. WIND









NOT TO SCAL

	1
HVAC EQUIPMENT	
RUBBER GASKET DUND PERIMETER LB RIGID I NEOPRENE POSED SURFACE) TAL CURB	
O ROOF WITH GALV. STEEL BOLTS FOR SIZE AND NO. TOP CHORD METHOD)	
IST TOP CHORD	
PLANS.	

LV. STEEL ROD OR RAP SUPPORTS PER IACNA STANDARDS DE TAKE-OFF FITTING IH DAMPER, BELL MOUTH SHOETAP TYPE (SEE NOTE							
MAIN SUPPLY AIR DUCT, SEE PLANS FOR TYPE AND INSULATION							
-1/2" X 1/8" GALV. STRAP PER SMACNA WITH DRAWBAND /MASTIC OUTERDUCT							
SULATION BLANKET INDITIONED SPACE							
ACE CEILING DIFFUSER 'LAY—IN ALUM. PANEL							
L							

ISSUED FOR PERMIT

PRINCIPAL Bradly L Brown

KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR

Florida License #58232

	NEW PROPOSED	
	TRAFFIC OPERATIONS FACILITY	
	TVED	
	RIVER	
	* ALORIDA	
	4548 41st Street	
	Vero Beach FL	
	32967 Key Plan:	
	Issues: No.: Date: Description:	
	A. 03-21-22 PERMIT SET B. 06-01-22 BDC RESPONSE	
	C. 06-22-22 BDC RESPONSE	
	Architect:	
	DONADIO & Associates, Architects P.A.	
	2001 9th Avenue, Suite 308 Vero Beach, FL 32960 Tel.772.794.2929	
	Fax.772.562.8600 License No. AA0002238 www.donadio-arch.com	
	Consultant:	
	Drawing Title:	
	MECHANICAL SCHEDULES	
06-29-23	Drn: Dwg. File:	
2021-0432 LLAR	Chd: XREF File TD Project No.: Plot File:	э:
08 Orange Avenue rt Pierce, Florida 34950 one 772.595.1744 rown@kammconsulting.com rtification of Authorization #8189		
	Cert. No.: 12,456	
32 date	Date Signed: M6.1	
signed	Copyright C 2021, Donadio & Associates, Architects, P.A.	

Project:

Luminaire Schedule				ELECTRICAL SPECIFICATIONS						
Project: IRC TRANSPORTATION REV1 01-08-2022				<u>PART 1 – GENERAL</u> A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.	E0.1 E1.1					
Symbol Label [MANUFAC]	Description	Arr. Lum. Lumens LLF	Lum. Watts Total Watts	CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED	E1.2					
A WILLIAMS INDOOR	LT-24-L40-835-AF-xxx-xxx	3972 0.900	32 1248	CORRECTIVE ACTION TO BE TAKEN. B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO	E2.1 E2.2					
→ A1 WILLIAMS INDOOR	LT-24-L40-835-AF-xxx-xxx WITH SURFACE MOUNT KIT	3972 0.900	32 224	THE COST THEREOF. C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE	E3.1					
→ B WILLIAMS INDOOR	LT-24-L52-835-AF-xxx-xxx	5202 0.900	37 555	UTILIZED IN THIS PROJECT. 1. NATIONAL ELECTRICAL CODE (NFPA-70) 2. CODE FOR SAFETY TO LIFE (NFPA_101)	E5.1					
C WILLIAMS INDOOR	LT-24-L64-835-AF-xxx-xxx	6395 0.900	49 147	 STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72) UNDERWRITERS' LABORATORIES (UL) 						
D BEGHELLI	BS100LED4HTMOWT35120V-277V-FL	6615 0.900	60 180	 5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) 6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 7. FEDERAL SPECIFICATION (FED. SPEC.) 8. INSTITUTE DECIMINES ASSOCIATION (IDOSA) 						
→ F WILLIAMS INDOOR	GH-2-L300-840-[L270]-FA-DIM-UNV	31002 0.810	204.924 1639.392	 8. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA) 9. FLORIDA BUILDING CODE. FBC 2020 EDITION 10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) 11. CITY OF BOYNTON BEACH BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE FBC 2020) 						
G WILLIAMS INDOOR	GH-2-L240-840-FA-DIM-UNV	23468 0.900	176.806 2298.478	12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS	↓ ↓ ↓					
		18010 0.810	113.31 906.48	FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE. E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL PROVIDENTS DECESSARY FOR FOUNDENT TO BE DIACED IN DROPER WORKING OPPER	₩					
	GH-2-L180[L162]-840-FA-DIM-UNV	18010 0.810	113.31 906.48	AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE. G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE	V					
WILLIAMS INDOOR	Cin-2-180-940 EA-Dim-UnV	16010 0.900	125.9 755.4	REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY. H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND						
K BEGHELLI	MEZZO SERIES	- 18010	15 -	PROPERTY DAMAGE FOR THE DURATION OF THE WORK. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.	ф					
System No. W-L-1056	System	No. W-L-1056	256	THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE. PART 2 - PRODUCTS	φ					
Cassified by Cassified by CAN/ULC S115			WL 10	A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE NOTED	₩ ₩					
	F Rating — 2 Hr FT Rating — 0 Hr B. Packing Material — Min 4 in. thickness of min 4.0 pcf (64 kg/m form. Packing material to be recessed from both surfaces of was form. Packing material to be recessed from both surfaces of was form.			 B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED. C. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS 	₩ ₩					
	FH Rating — 2 Hr C. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) FTH Rating — 0 Hr the ends of the steel sleeve. Additional fill material to be installed HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-OD	thickness of tightly packed fill material app ed to the outer perimeter of the steel sleeve	lied within the annulus, flush with at its egress from the opening.	I. IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS. D. RIGID NONMETALIC CONDUIT SHALL BE SCHEDULE 40 PVC. E: ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.	+					
L Rating At Ambient - Less L Rating At 4	s Than 1 CFM/sq ft * Indicates such products shall bear the UL or cUL Certification Mark 400 F - 4 CFM/sq ft respectively.			 F. PANELBOARDS: 1. CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER. 2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE. 						
				 3. CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD" 4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE. 	₩					
	3B			 A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION. 	Ô					
				 ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS. G. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK. ENCLOSURES 	() () () ()					
				SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONSOR AS OTHERWISE NOTED. H. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH OVERLOAD RELAYS IN EACH PHASE.	\bigcirc					
				WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED WITH CLIENT.	⊘₽					
A 30 SECTION A-A				A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS: 1. 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1	⊡ ⊤⁄⊓					
1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include				BLUÉ. GROUNDED (NEUTRAL) CONDUCTOR; WHITE. GROUNDING CONDUCTORS SHALL BE GREEN. 2. 480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 YELLOW, AND 1 PURPLE. GROUNDED (NEUTRAL) CONDUCTORS; GREY. GROUNDING CONDUCTORS SHALL BE GREEN.						
 features: A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of no lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (6 	10 mm) OC.			3. BRANCH CIRCUIT WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED I. FOR THE PURPOSE.						
 B. Gypsum Board* — Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual diam of opening is 18-3/4 in. (476 mm). 2. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the test is the test is the test is the set of test is	e firestop system. Pipe or tubing			B. WIRING METHODS 1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING	F					
to be rigidly supported on both sides of wall assembly. The annular space shall be min 3/4 in. (19 mm) to max 4 types and sizes of metallic pipes or tubing may be used: A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.	4-1/2 in. (114 mm). The following			JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE. 2. SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL	\$					
 B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe. C. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing. D. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe. 				BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE. 3. TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED	\$3					
 3. Firestop System — The firestop system shall consist of the following: A. Metallic Sleeve — Cylindrical sleeve fabricated from min 0.028 in. thick (24 gauge) galv sheet steel and ha along the longitudinal seam. Length of steel sleeve to be 1 in. (25 mm) more than the overall thickness of the steel sleeve to be 1 in. (25 mm) more than the overall thickness of the steel sleeve to be 1 in. (25 mm) more than the overall thickness of the steel sleeve to be 1 in. (25 mm) more than the overall thickness of the steel sleeve to be 1 in. (25 mm) more than the overall thickness of the sleeve to be 1 in. 	ne wall such that, when installed			IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST	\$₽					
in circular opening, the ends of the sleeves project 1/2 in. (13 mm) from each surface of the wall. The diam gypsum wallboard layers on each side of the wall assembly to be 1-1/2 to 6 in. (38 to 152 mm) larger than of when the sleeve is installed, a 3/4 to 4-1/2 in. (19 to 114 mm) annular space will be present between the step of the article of the article of the step of the article of the articl	outside diam of pipe such that, eel sleeve and the pipe around			EDITION OF THE N.E.C. AND LOCAL CODES. D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY	\$™ \$*					
the entire circumference of the pipe. Sleeve installed by coiling the sheet steel to a diam smaller than the th through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum wallboa	ard layers.			ENGINEER/ARCHITECT. E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.	\$					
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015		Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015		 F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK. G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING 						
Hilti Firestop Systems	Page: 1 of 2 Hilti Firestop Systems	January 20, 2010	Page: 2 of 2	DEVICES, FOR ALL OUTLETS AS INDICATED. H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE DECUMPENENTS OF NEC. NEMA, AND JECE						
				REQUIREMENTS OF NEC, NEMA, AND IECE. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.	ت ہ ب					
				 K. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER. L. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING. 						
	M. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.									
				N. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR	о WP					
				SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION. ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE O. PROCEEDING WITH ANY WORK. DEP NEC 210 8(P)(2) ALL 15- AND 20-AMPERE 125-VOLT RECEPTACIES IN NONDWELLING-TYPE KITCHENS	T/C RE					
				PER NEC 210.8(B)(2) ALL 15- AND 20-AMPERE, 125-VOLT RECEPTACLES IN NONDWELLING-TYPE KITCHENS TO BE GFCI PROTECTED. P.BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% DESIGN LOAD. FBC 2020	E					
				FBC ENERGY CONSERVATION SECTION 405.7.3. Q. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP PER 405.7.3.	A.F.F.					

ELECTRICAL SHEET INDEX

ELECTRICAL NOTES, LEGEND & INDEX

SITE LIGHTING PLAN SITE POWER PLAN

LIGHTING PLAN

LIGHTING CONTROL PLAN

POWER PLAN ELECTRICAL RISER DIAGRAM

ELECTRICAL LEGEND

TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEIL MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING.

MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

QUAD TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL CEILING. MOUNTED ABOVE COUNTER, SEE ARCHITECTURAL DRAWING FOR SPECIFIC QUAD TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL

CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED

QUAD TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT RUN TO THE NEAREST STUD STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.

TELEVISION RECESSED OUTLET. LEGRAND "TV1WMTVSSWCC2". MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

20 AMP SINGLE RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER OUTLET UNLESS NOTED OTHERWISE.

20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER OUTLET UNLESS NOTED OTHERWISE. 20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CEN

OF OUTLET UNLESS NOTED OTHERWISE. 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH GROUND FAULT CIRCUIT INTERF MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.

20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.

20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED. 20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUN A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.

20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE COVER PLATE AND CARPET FLANGE.

20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), CEILING MOUNTED.

TELEPHONE/DATA OUTLET, CEILING MOUNTED.

SPECIAL-PURPOSE RECEPTACLE

JUNCTION BOX

SINGLE GANG JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER.

DOUBLE GANG JUNCTION BOX FOR TELEPHONE/DATA CONNECTION TO MODULAR SYSTEM. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. EXTEND (2) 3/4" EMPTY CONDUITS FROM JUNCTION BOX TO ABOVE CEILING AND TERMINATE WITH INSULATING BUSHING 6" FROM WALL.

TELE/POWER POLE FOR TELEPHONE/DATA/POWER CONNECTION TO MODULAR FURNI 8 WIRE SYSTEM (SEE DETAIL THIS SHEET). INSTALL IN EXACT MANNER AND LOCA AS DIRECTED BY FURNITURE SUPPLIER, WIREMOLD CATALOG # 25DTP-4D W/IVORY SPECIAL PURPOSE RECEPTACLE MOUNTED BELOW RAISE FLOOR.

EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.

SINGLE POLE, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLI OTHERWISE NOTED.

3-WAY, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.

SINGLE POLE, 20 AMP, SWITCH WITH DIMMER. MOUNT 46" A.F.F. TO CENTERLINE UNLESS OTHERWISE NOTED.

MOTOR RATED SWITCH VACANCY SENSOR SWITCH, WATTSTOPPER, MOUNT 46" A.F.F. TO CENTERLINE OF S UNLESS OTHERWISE NOTED.

TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.

FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)

FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING

FUSIBLE MOTOR STARTER DISCONNECT SWITCH A = POLES, B= NEMA SIZE, C= FU GROUNDING ELECTRODE & CONDUCTOR SYSTEM

TRANSFORMER

ELECTRICAL PANELBOARD

TELEPHONE WOOD BACKBOARD

WEATHERPROOF

TIME CLOCK

RELOCATED

EXISTING TO REMAIN

.F.F. ABOVE FINISH FLOOR

CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER. LOW VOLTAGE SECURITY CAMERA LOCATION. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT $\Box \triangleleft$ STUBBED OUT FROM WALL 6" ABOVE CEILING. COORDINATE MOUNTING HEIGHT WITH OWNER.

ISSUED FOR PERMIT

PRINCIPAL Bradly L Brown Florida License #58232

KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR

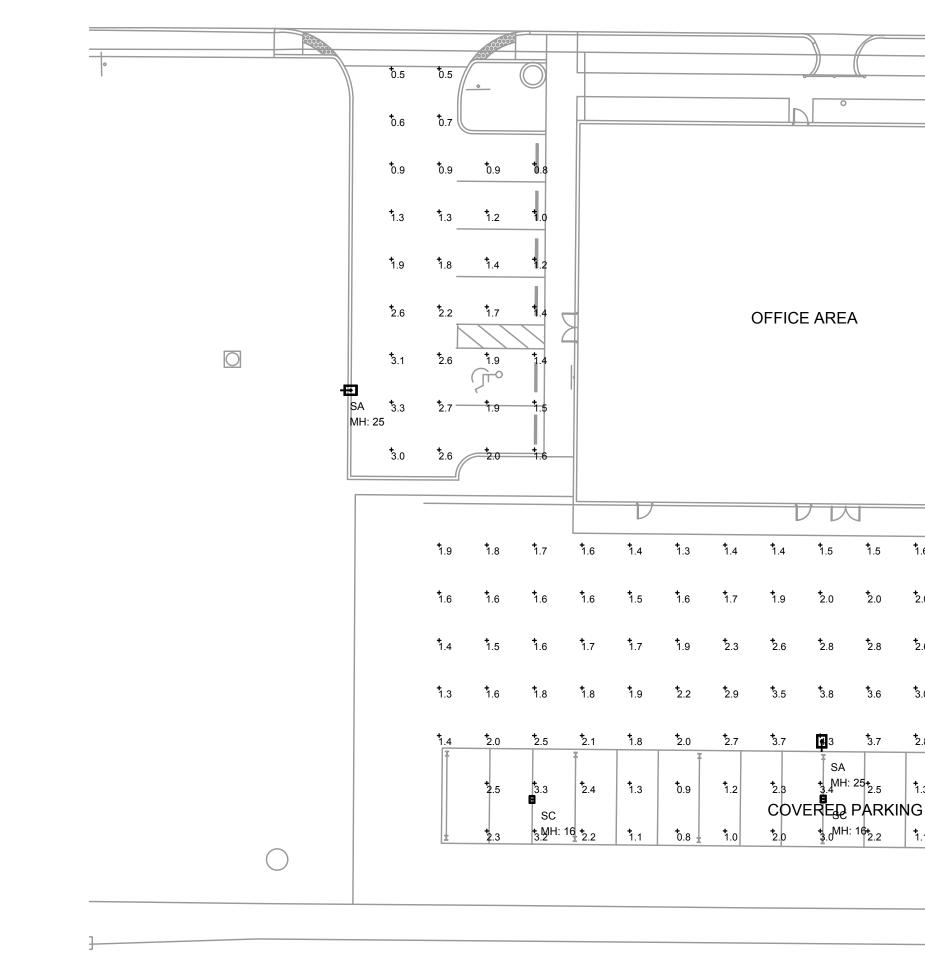
TRANK 1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772,595,1744 bbrown@kammeonaulting.com

	TRAFFIC OPERATIONS FACILITY
	4548 41st Street Vero Beach FL
	32967 Key Plan:
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RY FINISH.	Architect:
NLESS	
OF SWITCH	& Associates, Architects P.A. 2001 9th Avenue, Suite 308
SWITCH	Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600 License No. AA0002238 www.donadio-arch.com
USE RATING	
	Drawing Title: ELECTRICAL NOTES

Project

NEW PROPOSED

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	1408 Orange Avenue	-			Project No.:	Plot File:
MM	Fort Pierce, Florida 34950				2021-20	<u> </u>
	Phone 772.595.1744 bbrown@kammconsulting.com				Sheet No.:	
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Florida License	#58232 date		Date Signed:			/.1
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41st Street (Sou th Gifford Road)

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* 2.6	* 2.2	* 2.0	† 1.9	* 2.0	* 2.1	* 2.1	* 2.1	† 1.9	† 1.8	† 1.6	† 1.4	† 1.2	† 1.1	† 1.1	1 .2	† 1.3	† 1.4	† 1.6	† 1.8	* 2.0	* 2.2	* 2.4	* 2.4	* 2.4	* 2.2	1.9
* 3.0	* 2.2	† .9	* 2.2	* 2.5	* 2.6	* 2.7	* 2.8	* 2.6	* 2.4	* 2.0	† 1.6	† 1.3	† 1.1	† 1.0	† 1.1	† 1.1	† 1.3	† 1.4	† 1.6	* 2.0	* 2.3	* 2.6	* 2.8	* 2.8	* 2.5	* 2.1
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⊡Ð	1	SB	Gardco by Signify	ECF-S-48L-1A-NW-G2-4-HIS POLE MOUNT 25' AFG	29826	0.900	158.7		
·	5	sc		GC60-SCT-G2-SM-5-10-BZ- 28W MOUNT UNDER CANOPY	4494	0.900	27.9535		

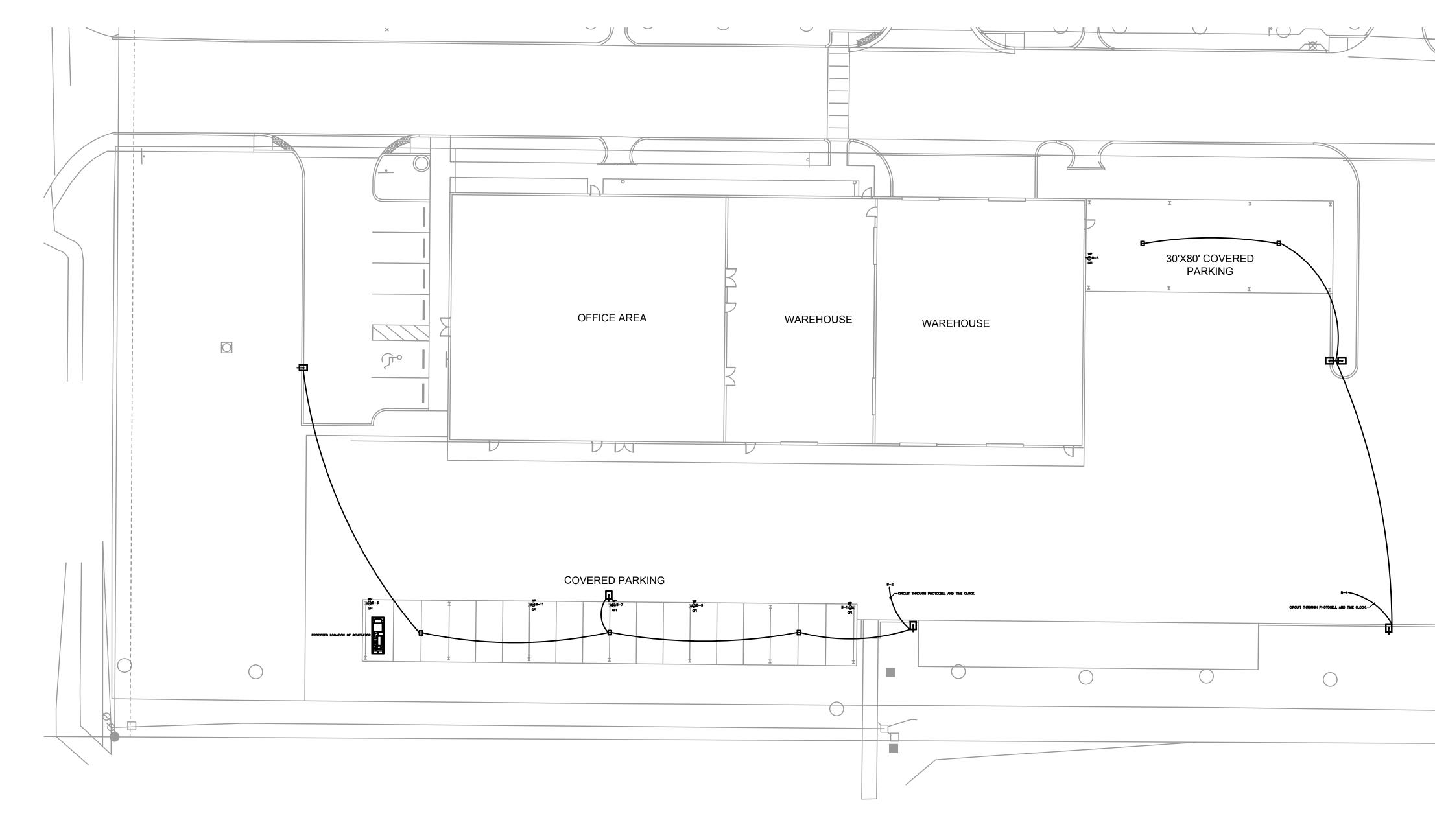
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	ISSUED FOR PERMIT 06-29-23 KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR Image: Distribution of Duance Milling 1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 borown@kammconsulting.com Certification of Authorization #8189 PRINCIPAL - Bradly L Brown Florida License #58232	Drn: Dwg. File: JLH Chd: XREF File: <u>JLH</u> Chd: XREF File: <u>JLH</u> <u>Vroject No.:</u> Plot File: <u>2021-20</u> Sheet No.: <u>Cert. No.:</u> 12,456 <u>Date Signed:</u> L2,456 <u>Date Signed:</u> C 2021, Donadio & Associates, Architects, P.A.

41st Street (South Gifford Road)

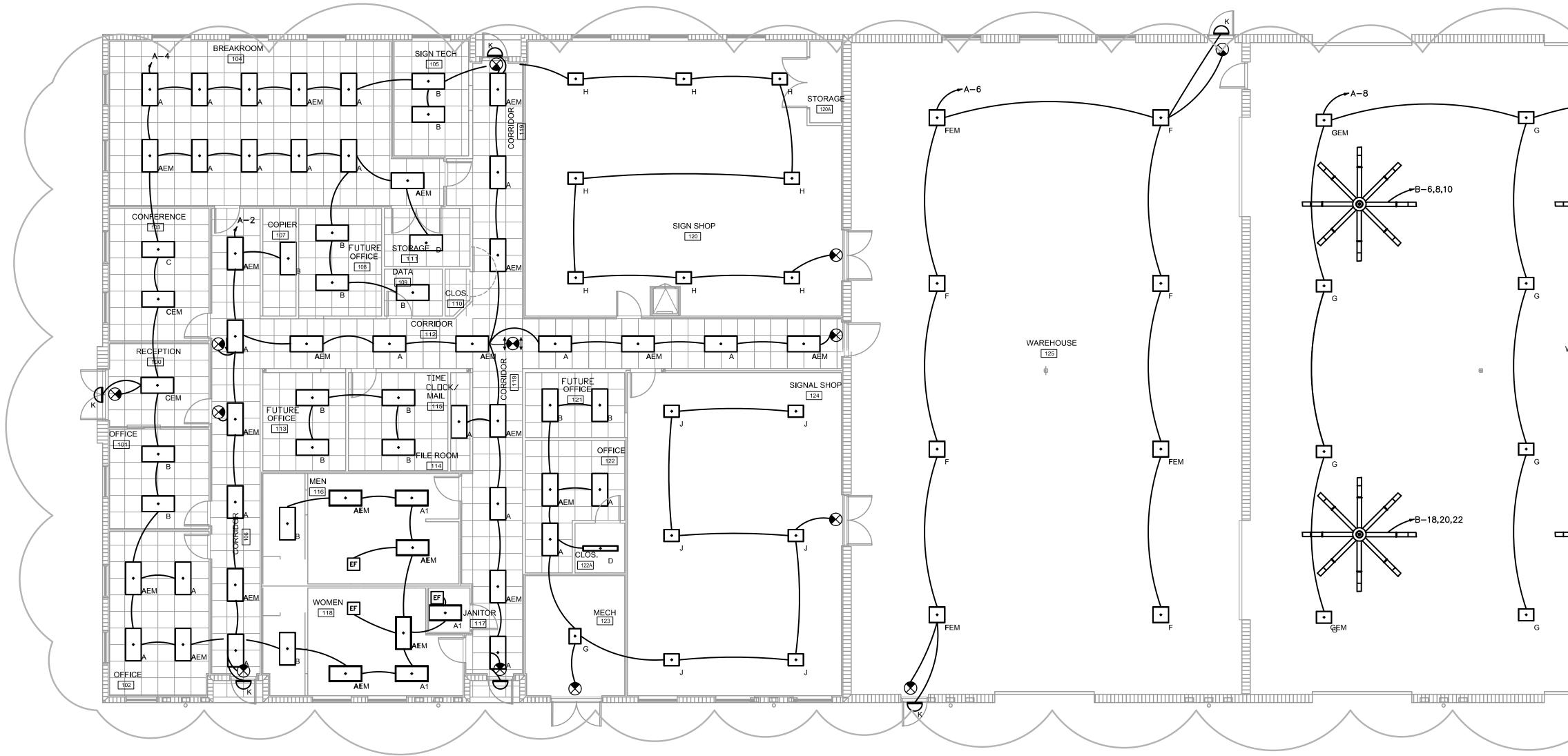








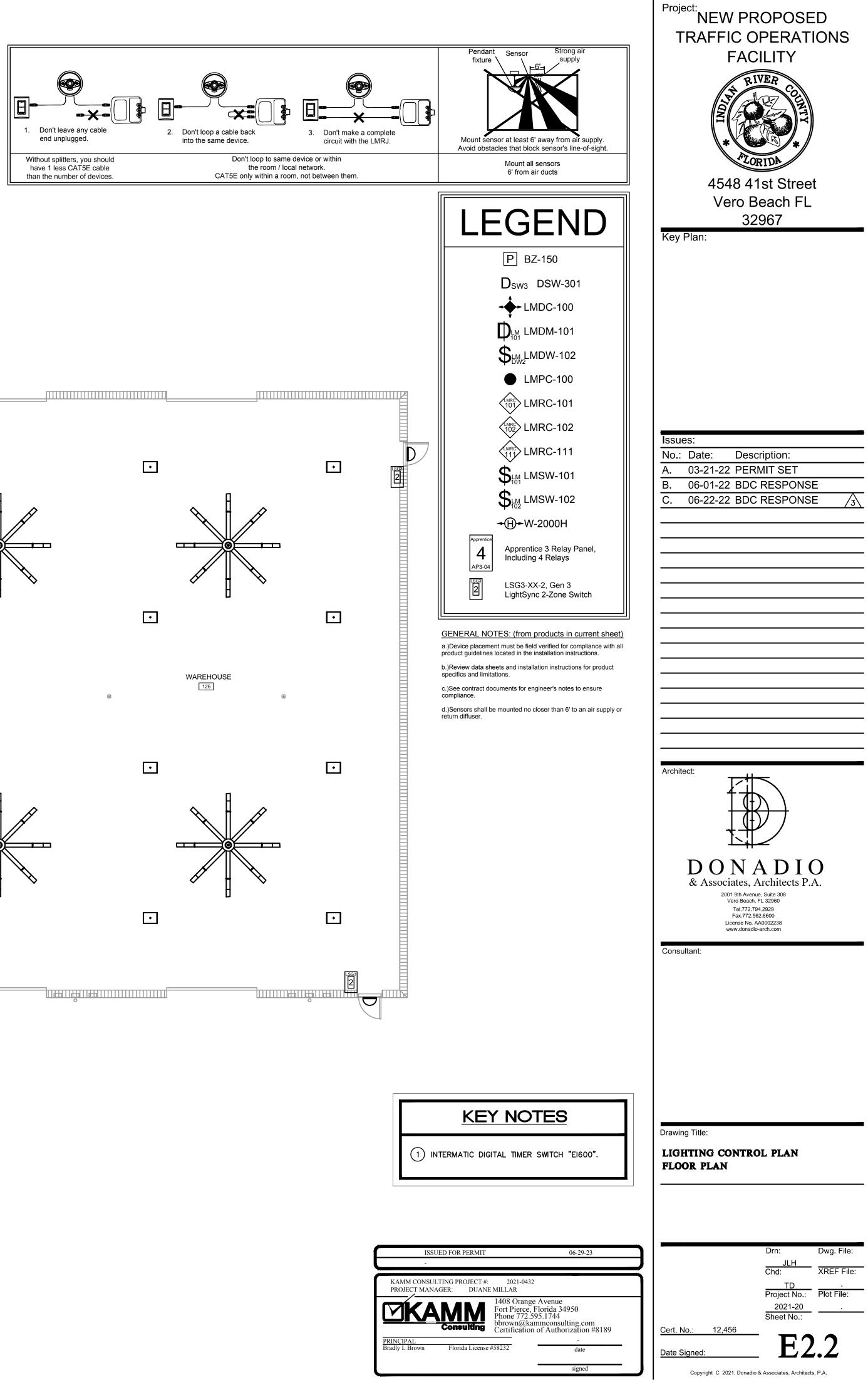
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PRINCIPAL - Bradly L Brown Florida License #58232 date	Cert. No.: 12,456 Date Signed: E120 Copyright C 2021, Donadio & Associates, Architects, P.A.

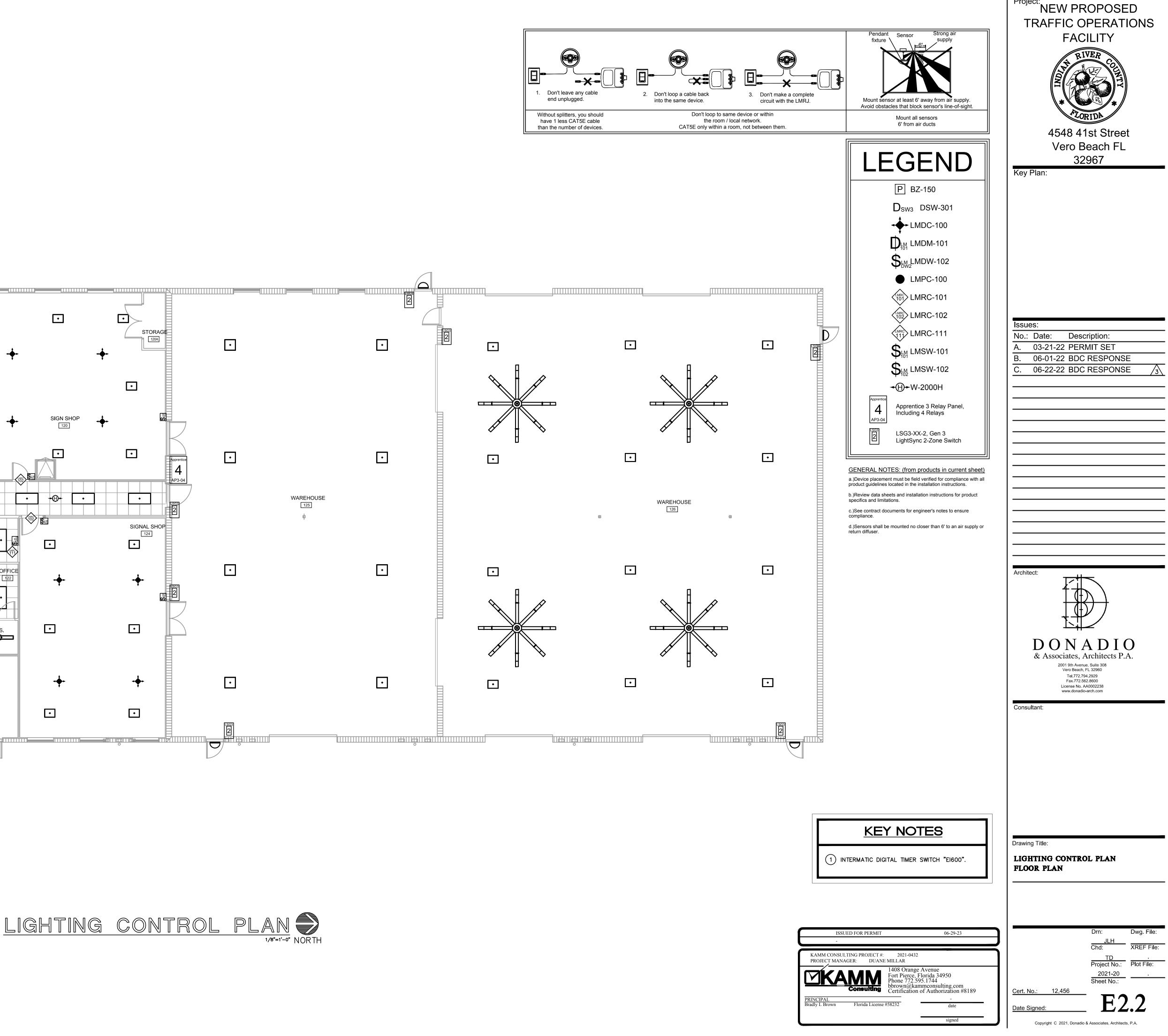




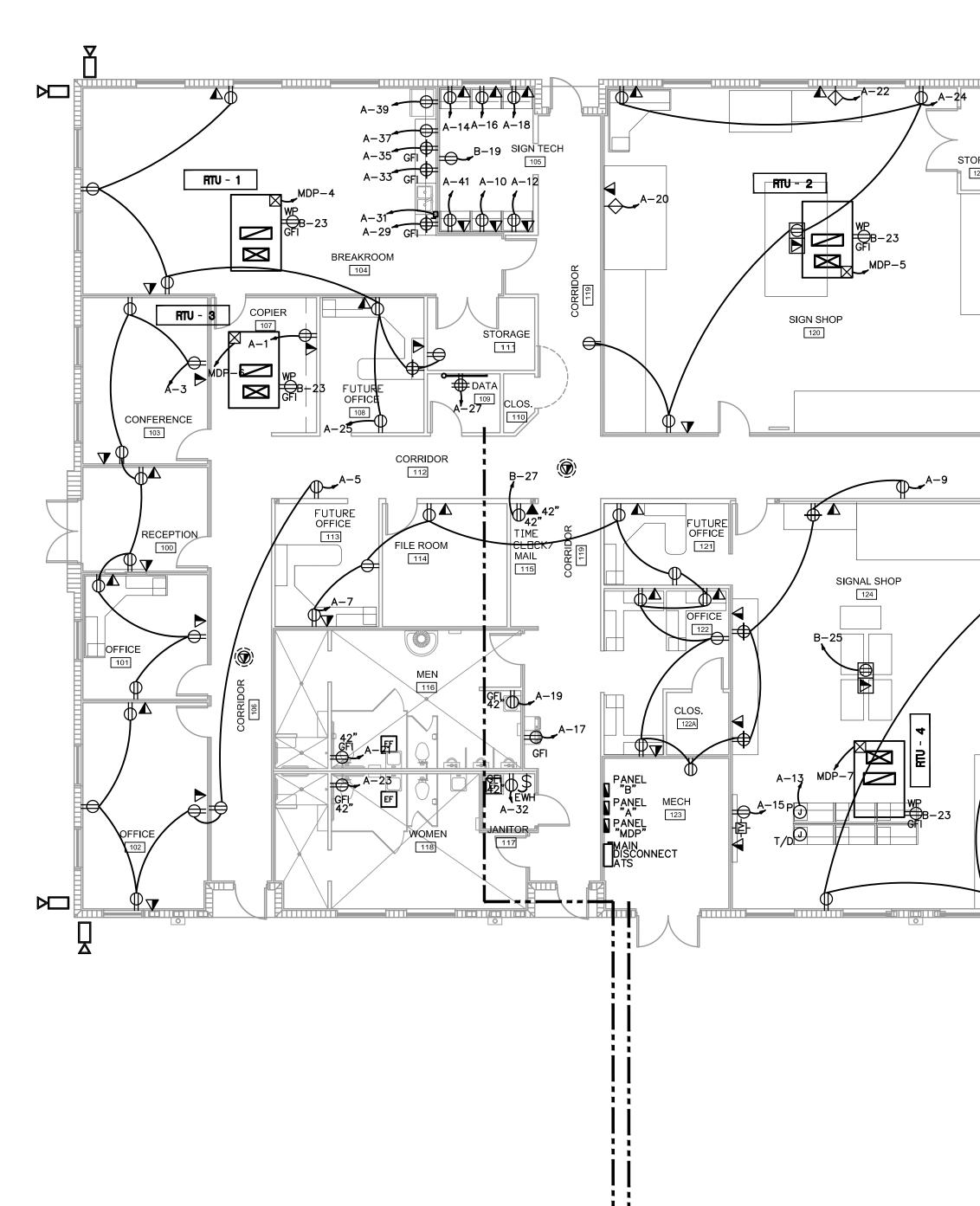
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GENERAL NOTES 1. SEE SHEET E2.2 FOR LIGHTING	Drawing Title: LIGHTING PLAN FLOOR PLAN
ISSUED FOR PERMIT 06-29-23 KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR Image: Distribution of the state	Drn: Dwg. File: JLH Chd: XREF File: TD · Project No.: Plot File: 2021-20 Sheet No.: Plot File: 2021-20 Sheet No.: 12,456 Date Signed: C 2021, Donadio & Associates, Architects, P.A.

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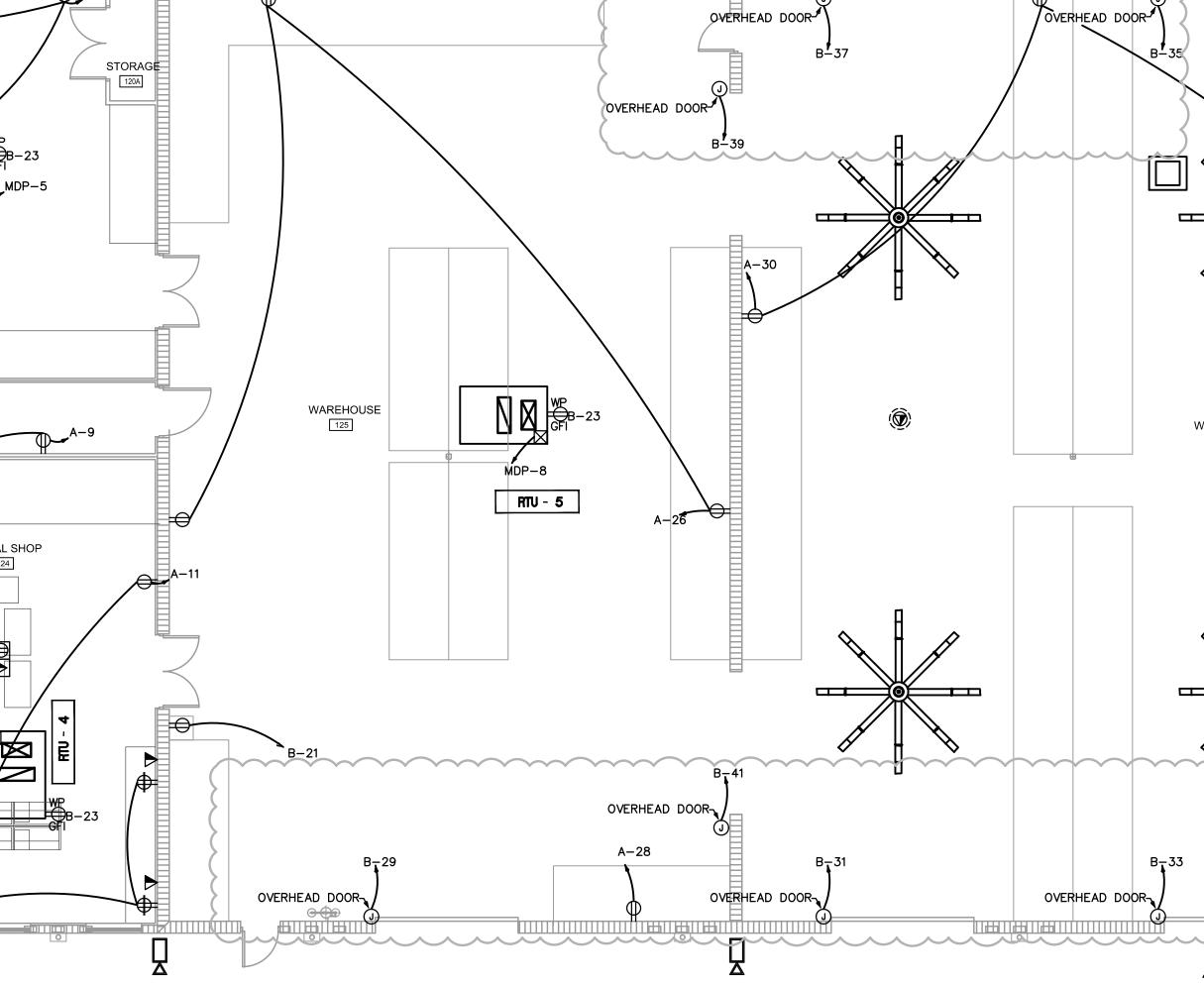






(2) 3" CONDUITS FOR FUTURE POWER AND SECURITY CAMERAS TO COVERED PARKING AREA.





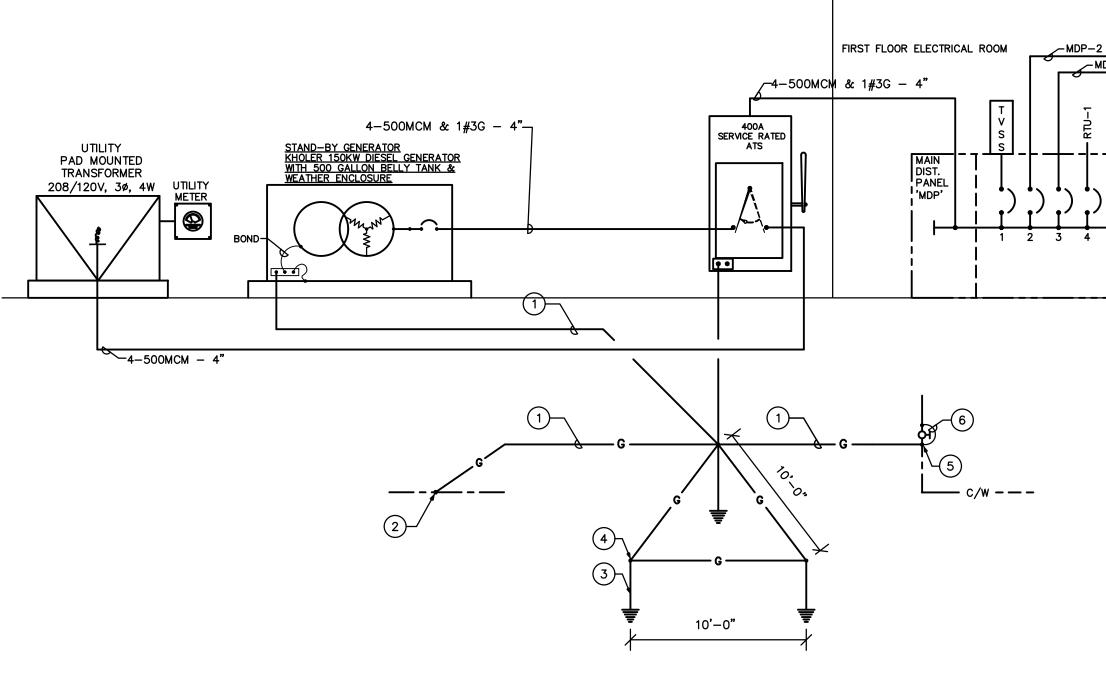
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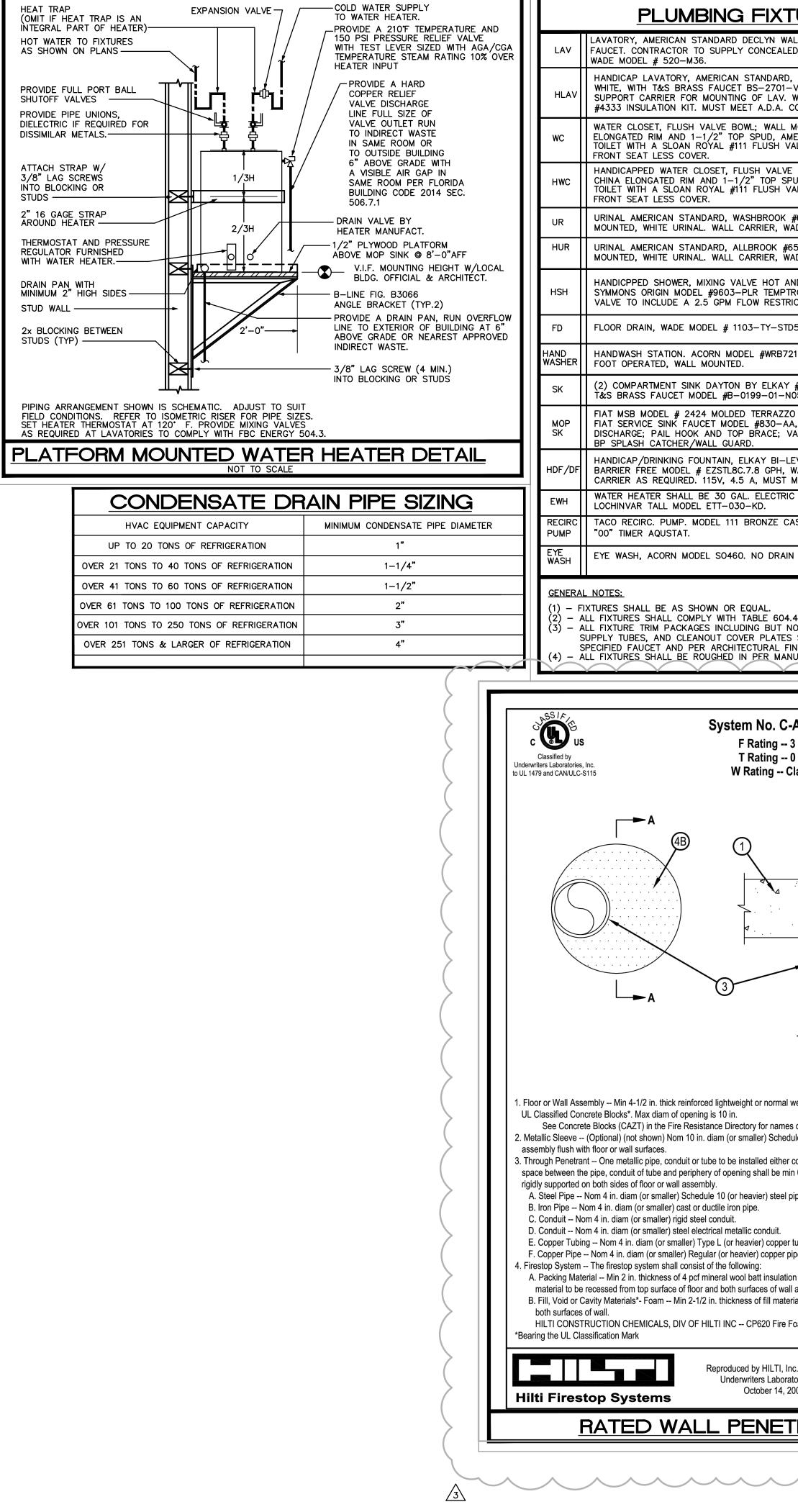
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	Issues: No.: Date: Description: A. 03-21-22 B. 06-01-22 BDC RESPONSE C. 06-22-22 BDC RESPONSE
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Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	Drawing Title: POWER PLAN FLOOR PLAN FLOOR PLAN Drn: Dwg. File: JLH
KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR Image: Consulting Consul	Chd: XREF File: TD Project No.: Project No.: Plot File: 2021-20 . Sheet No.: . Cert. No.: 12,456 Date Signed: E3.1 Copyright C 2021, Donadio & Associates, Architects, P.A.

SCHEDULE OF DISTRIBUTION		<u>SCREDULE OF BRAN</u>	ICH CIRCUIT PANEL "A"	<u>SCHEDUL</u>
MAIN: 400 AMP / 3 POLE, MLO SPEC: SQUARE D TYPE I-LINE OR APPROVED EQUIVALENT DESIGNATION DESCRIPTION CIRCUIT BREAKER FRAME TRIP POLES FEEDER MDP-1 TVSS - - 3 - MDP-2 PANEL A - 200 3 4#3/0 & 1#2G - 2-1/2 MDP-3 PANEL B - 200 3 4#3/0 & 1#2G - 2-1/2 MDP-4 RTU-1 - 30 2 3#10 & 1#10G - 3/4" MDP-5 RTU-2 - 30 3 4#8 & 1#10G - 1" MDP-6 RTU-3 - 90 3 4#3 & 1#8G - 1-1/4" MDP-7 RTU-4 - 30 3 4#3 & 1#8G - 1-1/4" MDP-8 RTU-5 - 60 3 4#3 & 1#8G - 1-1/4" MDP-9 SPARE - 100 3 - MDP-10 SPARE - 100 3 -	VOLTAGE: 208/120V, 3ø, 4 WIRE AIC SYMM: 65,000 A PHASE B PHASE C PHASE NOTES - - - - 12.2 11.0 10.2 NOTES 4.0 4.0 3.0 - 4.1 4.1 4.1 9.3 9.3 9.3 2.7 2.7 2.7 8.3 8.3 8.3 - - - 40.6 43.5 41.7 KVA PER PHASE 338.3 362.5 347.5 AMPS PER PHASE 125.8 TOTAL KVA	RECEPT. #12 #12 1/2" 20 3	VOLTAGE: 208/120V, 3ø, 4 WRE AIC SYMM: 22,000 PHASE C PHASE CKT. TRIP COND. GND. WIRE DESCRIPTION 2 20 $1/2^*$ #12 #12 LIGHTS 2 20 $1/2^*$ #12 #12 LIGHTS 2 20 $1/2^*$ #12 #12 LIGHTS 4 20 $1/2^*$ #12 #12 LIGHTS 8 20 $1/2^*$ #12 #12 RECEPT. 1.0 0.8 12 20 $1/2^*$ #12 #12 RECEPT. 1.4 20 $1/2^*$ #12 #12 RECEPT. 1.0 0.8 18 20 $1/2^*$ #12 #12 RECEPT. 1.0 0.8 18 20 $1/2^*$ #12 #12 RECEPT. 20 20 $1/2^*$ #12 #12 RECEPT.	MAIN: 200 AMP / 3 POLE MAIN CIRCUIT BRE SPEC: SQUARE D TYPE "NQOD" OR APPROVE MOUNTING: SURFACE DESCRIPTION WIRE GND. COU EXTERIOR RECEPTACLES #12 #12 1/ ROOF EXHAUST FAN 3#12 1#12 1/ ROOF RECEPTACLES #12 #12 1/ ICE MACHINE #12 #12 1/ ROOR RECEPTACLES #12 #12 1/ VERHEAD DOOR #12 #12 1/ OVERHEAD DOOR #12 #12

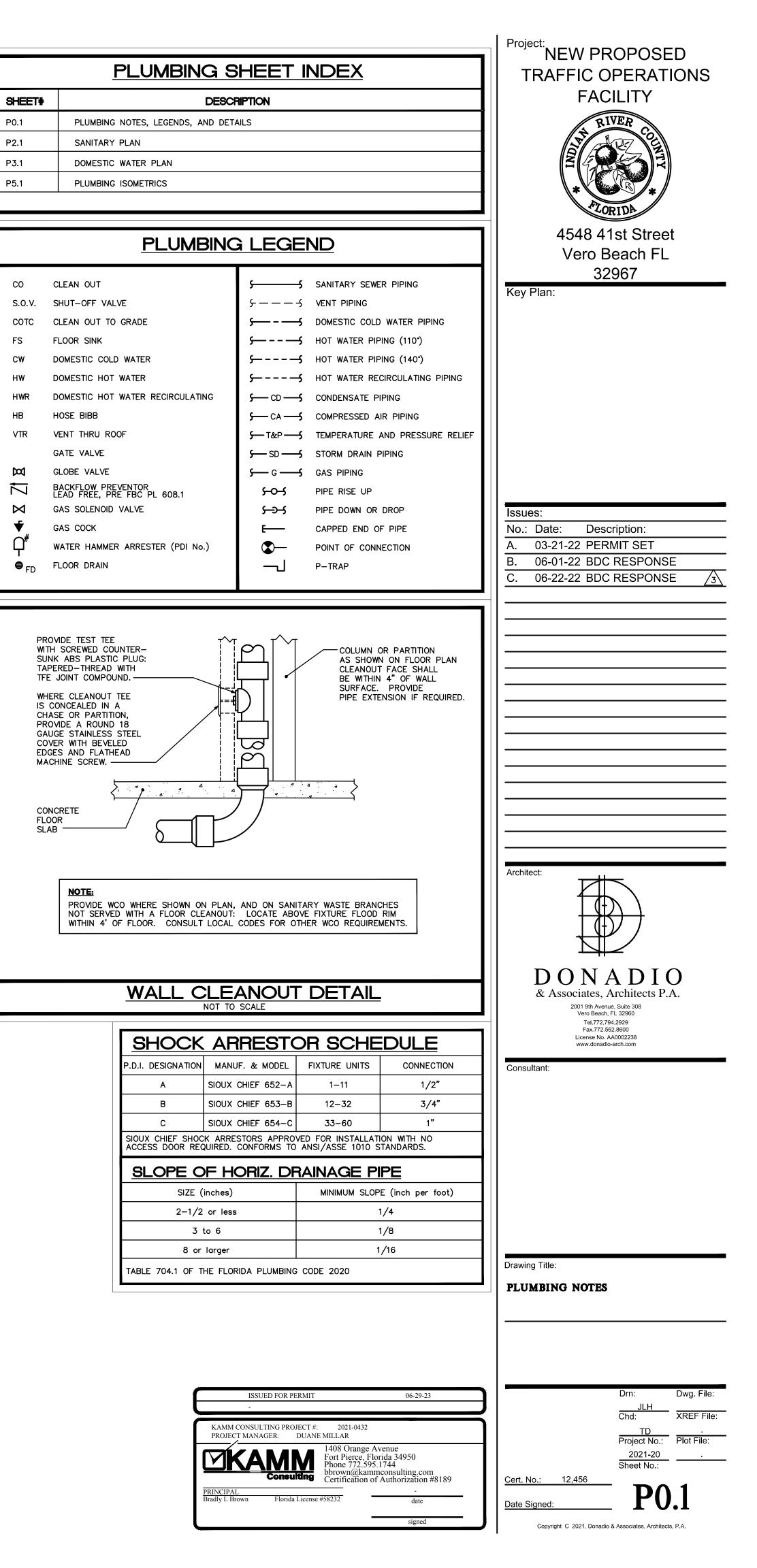


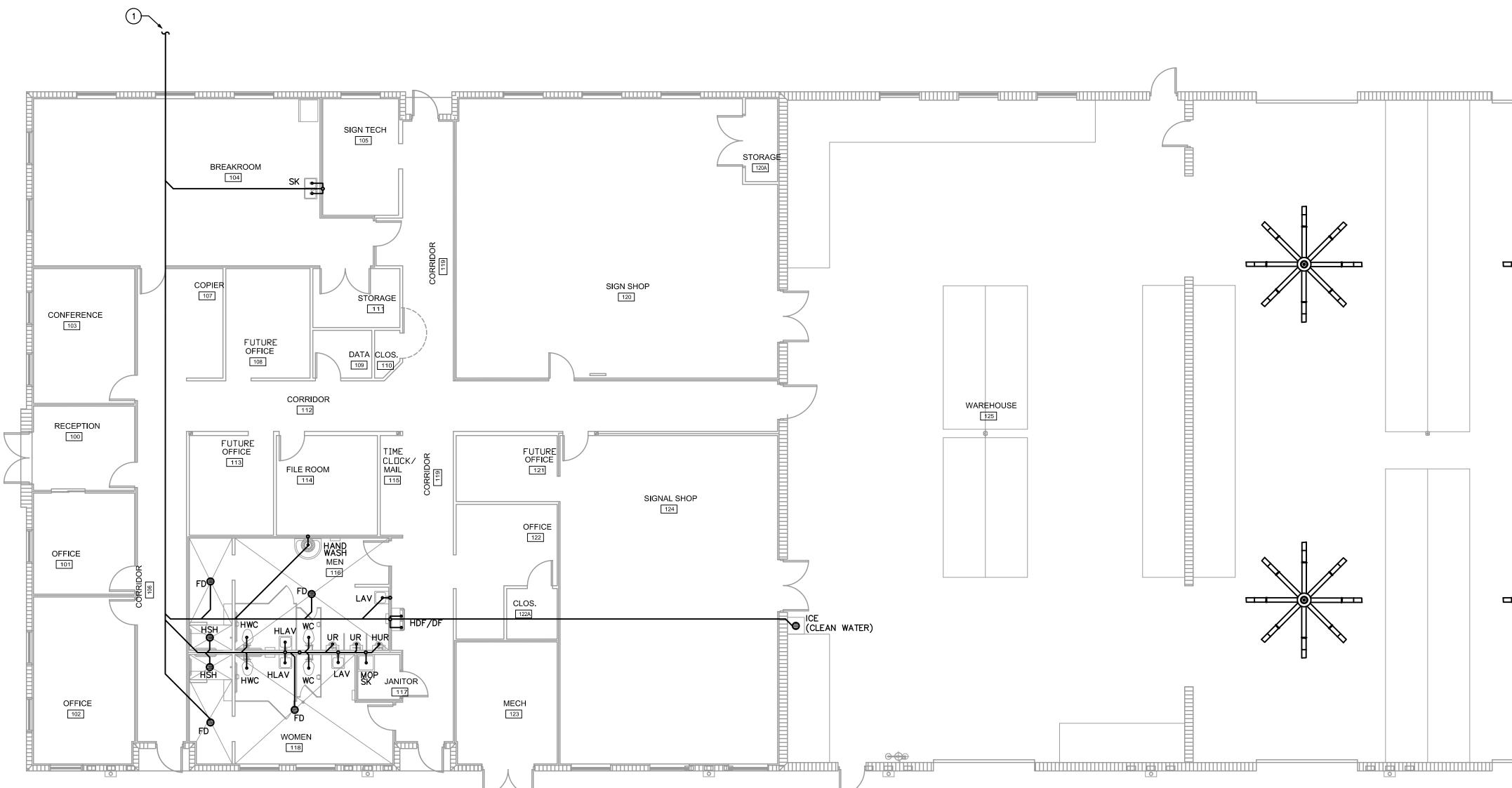
ELECTRICAL RISER DIAGRAM

	Project: NEW PROPOSED
LE OF BRANCH CIRCUIT PANEL "B"	TRAFFIC OPERATIONS FACILITY
REAKER VOLTAGE: 208/120V, 3ø, 4 WIRE VED EQUIVALENT AIC SYMM: 22,000	RIVER
COND. TRIP CKT. A PHASE KVA B PHASE KVA C PHASE KVA CKT. TRIP COND. GND. WIRE DESCRIPTION 1/2" 20 1 0.2 1.0 2 20 3/4" #10 #10 SITE LIGHTING	NI COLUMN Y
1/2" 20 3 — 0.2 1.0 — 4 20 3/4" #10 #10 SITE LIGHTING 1/2" 20 5 — 0.2 0.6 6 20∕ 1" #12 3#12 FAN	
1/2" 20 7 0.2 0.6	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	* * *ZORIDA
3 17 0.6 0.6 18 20 1" #12 3#12 FAN 1/2" 20 19 1.0 0.6 20 3 1" #12 3#12 FAN 1/2" 20 21 1.0 0.6 22 3 1" #12 3#12 FAN	4548 41st Street
1/2" 20 23 0.8 0.6 24 20 1" #12 3#12 FAN 1/2" 20 25 0.2 0.6 26 3 #12 3#12 FAN 1/2" 20 27 0.1 0.6 28 3	Vero Beach FL
1/2" 20 29 0.6 - 30 20 SPARE 1/2" 20 31 0.6 32 20 SPARE	32967
1/2" 20 33 0.6 - - SPARE 1/2" 20 35 0.6 - 36 20 - - - SPARE 1/2" 20 37 0.6 - 36 20 - - - SPARE 1/2" 20 37 0.6 - - 38 20 - - SPARE	Key Plan:
1/2" 20 39 0.6 40 20 SPARE 1/2" 20 41 0.6 - 42 20 SPARE	
4.2 4.2 3.2 KVA PER PHASE 35.0 35.0 26.6 AMPS PER PHASE 11.6 TOTAL KVA	
Imposition Imposition Imposition I	Issues: No.: Date: Description: A. 03-21-22 PERMIT SET B. 06-01-22 BDC RESPONSE C. 06-22-22 BDC RESPONSE Achitect:
	Fax.772.562.8600 License No. AA0002238 www.donadio-arch.com
	Consultant:
	Drawing Title:
	RISER DIAGRAM
ISSUED FOR PERMIT 06-29-23	Drn: Dwg. File:
	JLH Chd: XREF File:
KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR	TD . Project No.: Plot File:
Consulting 1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 bbrown@kammconsulting.com Certification of Authorization #8189	<u>2021-20</u> Sheet No.:
Consulting bbrown@kammconsulting.com Certification of Authorization #8189	Cert. No.: 12,456
Bradly L Brown Florida License #58232 date	Date Signed: E5.1
signed	Copyright C 2021, Donadio & Associates, Architects, P.A.



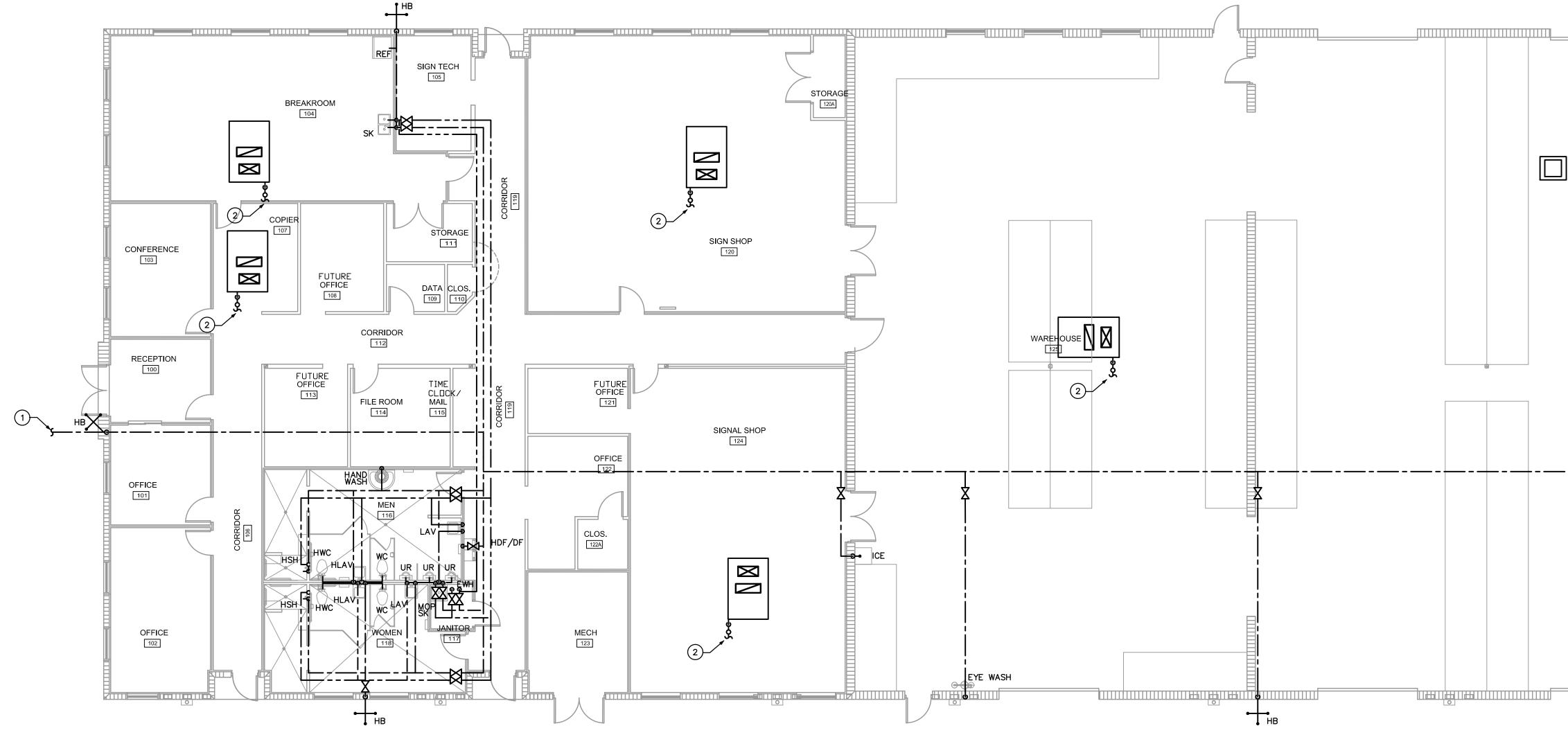
JRE SCHEDULE	PLUMBING NOTES
HUNG #0321.075 WHITEWITH T&S BRASS B-2701-VF05 ARM SUPPORT CARRIER FOR MOUNTING OF LAVATORY.	 THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 6TH EDITION (2020) – PLUMBING,
CERNE WALL HUNG LAVATORY MODEL #0356.028. 5. CONTRACTOR TO SUPPLY CONCEALED ARM SUPPOR E MODEL # 520-M36. SUPPLY PLUMBEREX MODEL	APPLICABLE LOCAL CODES, RULES, AND ORDINANCES. 2. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
NTED, SIPHON JET ACTION VITREOUS CHINA, AN STANDARD AFWALL 2257.103, 1.28 GPF AND A CENTOCO #1500CC OPEN	 ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS
L; WALL MOUNTED, SIPHON JET ACTION VITREOUS, AMERICAN STANDARD AFWALL 2257.103, 1.28 GPF	WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY-OPERATIONAL. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
AND A CENTOCO #1500CC OPEN 1.010, FLUSH VALVE SLOAN ROYAL #186-1, WALL	 5. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. 6. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS.
# 400AM11-M36. MUST MEET A.D.A. CODE. 132. FLUSH VALVE, SLOAN ROYAL #186-1, WALL	PLUMBING CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
# 400AM11-M36. MUST MEET A.D.A. CODE. COLD WATER, SHOWER MIXING VALVE SHALL BE A PRESSURE BALANCED SHOWER	7. CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER, FOR REVIEW & APPROVAL, FIVE (5) SETS OF MANUFACTURER'S CUT SHEETS FOR EACH FIXTURE, PIPING/FITTING MATERIAL AND EQUIPMENT ITEM WITH ASSOCIATED CONTROLS, THAT ARE INCLUDED IN THE CONTRACT.
R AND INTEGRAL SERVICE STOPS.	8. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
	 ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
3322 S/S SINK, /ITH RETRACTABLE SPRAY.	10. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
SIN WITH DRAIN BODY AND STRAINER. TH FIAT 832—AA HOSE AND HOSE BRACKET UM BREAKER, FIAT #889—CC MOP HANGER AND	11. WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. ALTERNATE PIPING & FITTING MATERIALS MAY BE USED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6TH EDITION (2020) – PLUMBING, TABLES 605.3, 605.4 & 605.5, WHEN APPROVED BY ENGINEER OF RECORD AND LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE ALTERNATE FOR CPVC PIPING & FITTINGS EQUAL TO LUBRIZOL CORZAN OR FLOW-GUARD GOLD. PROVIDE ALTERNATE FOR PEX TYPE
L WALL MOUNTED E 440–AM11–M36 T A.D.A. CODE.	'A' PIPING & FITTINGS EQUAL TO UPONOR. ALTERNATES ARE PERTINENT FOR WATER SERVICES KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS OR OTHER PARTICULAR CIRCUMSTANCES AS DEEMED APPROPRIATE BY DIRECTIVE FROM THE OWNER. CONTRACTOR SHALL PERFORM A WATER
8V, 1 PHASE, 4.5 KW. NG , 115V, 1/8 HP, 2.0 AMP WITH	TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH FLORIDA BUILDING CODE 6TH EDITION (2020) – PLUMBING, SECTION 610. ALL WATER PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
QUIRED.	12. SOIL, WASTE, VENT, AND RAINWATER (DWV) PIPING & FITTINGS SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS. PVC PIPING SHALL BE SOLID-CORE ONLY; FOAM-CORE PIPING SHALL NOT BE ACCEPTED. CAST IRON PIPING & FITTINGS SHALL BEAR THE CISPI-301 MARK. ALL DWV PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
F FBC 2020 LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE,	13. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE ANGLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS (WHERE REQUIRED). COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
ALL BE OF THE SAME FINISH AS THE ABOVE SCHEDULE. CTURER CUT SHEET TO MAINTAIN UNIFORMITY.	14. PROVIDE APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED & LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & PDI-WH201.
	 15. PROVIDE DIELECTRIC COUPLINGS OR FLANGES BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS. 16. ISOLATE COPPER PIPING FROM METALLIC HANGERS OR SUPPORTS WITH ISOLATOR PADS OR
-1382 CAL 1382	NON-CONDUCTIVE MATERIAL. 17. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE,
	SMOKE AND WATER PENETRATION BY FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVES WITH INTUMESCENT CAULK, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS, AS PART OF THE PLUMBING CONTRACTOR'S WORK.
	18. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
4B	19. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS SHALL MAINTAIN THE SAME RATING AND SHALL MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
	20. PROVIDE COMBINATION CLEANOUT PLUG AND COVER PLATE OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH NEARBY FIXTURE TRIM.
	21. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN MECHANICAL ROOMS NOR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
	 22. NO WATER, SANITARY OR DRAINAGE PIPING SHALL BE INSTALLED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS. 23. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL
(4A)	VALVES SHALL BE FURNISHED FOR OWNER/OPERATOR. 24. CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION AND A
	VAPOR-BARRIER JACKET PER FLORIDA BUILDING CODE 6TH EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.8. PVC WITHOUT INSULATION IS ACCEPTABLE FOR RISERS AND BELOW GRADE PIPING. WHEN USED IN A RETURN AIR PLENUM, PVC PIPING WITH INSULATION IS ACCEPTABLE
ECTION A-A	IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. CONDENSATE PIPING SHALL NOT DRAIN ONTO THE ROOFING SYSTEM NOR ANY OF ITS COMPONENTS. CONDENSATE PIPING ARRANGEMENT IS EXEMPT FROM MINIMUM EQUIPMENT CLEARANCE REQUIREMENTS PER FLORIDA BUILDING CODE 6TH EDITION (2020), SECTION 1522.3.5. ALL HORIZONTAL RAINWATER PIPING RUN ABOVE FINISHED FLOOR THAT
	RECEIVES CONDENSATE DISCHARGE SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
ht (100-150 pcf) concrete. Wall may also be constructed of any	25. HOT WATER PIPING INSULATION SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6TH EDITION (2020) – PLUMBING, TABLE 607.5 & FLORIDA BUILDING CODE 6TH EDITION (2020) – ENERGY CONSERVATION, TABLE C403.2.8. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER
anufacturers. (or heavier) steel sleeve cast or grouted into floor or wall	APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET, PER FLORIDA BUILDING CODE 6TH EDITION (2020) – ENERGY CONSERVATION, TABLE C403.2.8.
entrically or eccentrically within the firestop system. The annular (point contact) to max 5-7/8 in. Pipe, conduit of tube to be	26. AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. 27. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
	28. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTABLE BY THE PLUMBING OFFICIAL AND LOCAL
g.	CODES. INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. 29. ALL HORIZONTAL RAINWATER PIPING THE RECEIVES CONDENSATE DISCHARGE FROM AIR CONDITIONING EQUIPMENT SHALL BE INSULATED WITH 1" THK. ARMAFLEX.
htly packed into the opening as a permanent form. Packing equired to accommodate the required thickness of fill material. pplied within the annulus, flush with top surface of floor or with	30. PLUMBING PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTIO WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE SPRINKLER, STRUCTURAL AND CIVIL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. PIPING MODIFICATIONS SUCH AS OFFSETS, BENI TRANSITIONS, AND SIZES SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN PIPE SIZES AND ROUTING SHALL BE REQUIRED BY THE CONTRACTOR TO AVOID CONFLICT
	AND TO ADAPT TO EXISTING FIELD CONDITIONS PROVIDED THAT INSTALLATION MEETS ALL APPLICABLE CODES. 31. SUPPLY TRAP PRIMER FOR ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, ETC. SHOWN ON PLANS.
ourtesy of s, Inc.	 32. CONTRACTOR TO FIELD VERIFY ALL SUPPLY PRESSURE REQUIREMENTS AND LIMITATIONS. PROVIDE PRESSURE REDUCING VALVE IF REQUIRED. 33. ANY REFERENCE OR APPLICATION OF DENTAL COMPRESSED AIR AS NOTED ON THIS PLAN IS NOT
	USED OR INTENDED FOR LIFE-SUPPORT PURPOSES SUCH AS RESPIRATORS, IPPB MACHINES, ANALGESIA, ANESTHESIA, ETC. THE ONLY USE IS AS INCIDENTAL AIR DISCHARGE INTO THE ORAL CAVITY AND NOT A PRIMARY OR SECONDARY SOURCE OF AIR TO SUSTAIN LIFE.

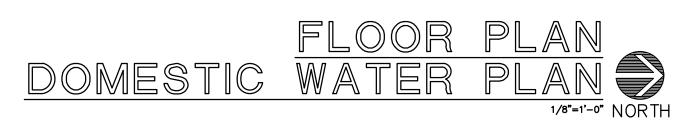




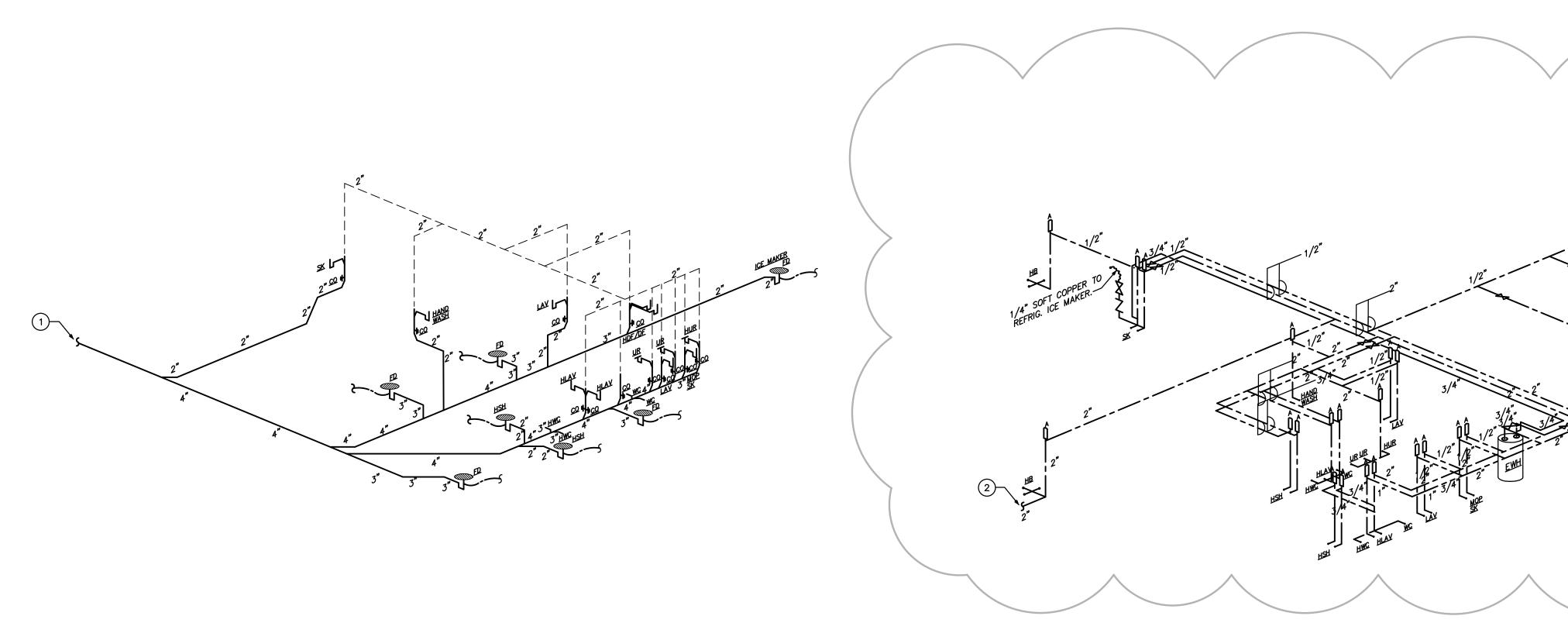


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	C. 06-22-22 BDC RESPONSE
WAREHOUSE	
	Architect:
	DONADIO & Associates, Architects P.A.
	2001 9th Avenue, Suite 308 Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.562.8600
	License No. AA0002238 www.donadio-arch.com Consultant:
	Consultant.
KEY NOTES	
1 TIE NEW SANITARY LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.	Drawing Title: SANITARY PLAN
SIZE PRIOR TO CONSTRUCTION.	FLOOR PLAN
ISSUED FOR PERMIT 06-29-23	Drn: Dwg. File:
- KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR	
TRANK 1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 brown@kammeonsulting.com	Project No.: Plot File: 2021-20 Sheet No.:
Consulting Oblow (a) kanniconsulting.com Certification of Authorization #8189 PRINCIPAL - Bradly L Brown Florida License #58232	<u>Cert. No.: 12,456</u> <u>Date Signed:</u> P2.1
signed	Copyright C 2021, Donadio & Associates, Architects, P.A.





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	Architect: Architect: DONADIO Associates, Architects P.A. 2001 9th Avenue, Suite 308 Vero Beach, FL 32960 Tel.772.794.2929 Fax.772.582.8600 License No. AA0002238 www.donadio-arch.com
Exercision	Drawing Title: DOMESTIC WATER PLAN FLOOR PLAN Drn: Dwg. File:
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SANITARY
ISOMETRIC PLAN
N.T.S.

DOMESTIC WATER	
ISOMETRIC PLAN	

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KEY NOTES 1 THE NEW SANITARY LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION. 2 THE NEW DOMESTIC LINE TO EXISTING IN AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.	Drawing Title: SANITARY ISOMETRIC
ISSUED FOR PERMIT 06-29-23 KAMM CONSULTING PROJECT #: 2021-0432 PROJECT MANAGER: DUANE MILLAR Idva Orange Avenue FOR FACE DESIGN 1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 brown@kammconsulting.com Certification of Authorization #8189 PRINCIPAL Florida License #58232 date signed Signed	Drn: Dwg. File: JLH Chd: JLH Chd: XREF File: TD Project No.: Plot File: 2021-20 Sheet No.: Cert. No.: 12,456 Date Signed: Date Signed: Copyright C 2021, Donadio & Associates, Architects, P.A.