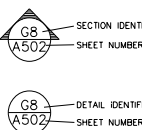


ABBREVIATIONS

A.F.F. _____ ABOVE FINISHED FLOOR
A.H.U. _____ AIR HANDLING UNIT
ALUM. _____ ALUMINUM
ALT. _____ ALTERNATE
APPROX. _____ APPROXIMATE
BRK. _____ BRICK
B.S.M.T. _____ BASEMENT
C.J. _____ CONTROL JOINT
C.L. _____ CEILING
CLR. _____ CLEAR
CONC. _____ CONCRETE
C.O. _____ CLEAN OUT
COPPER _____ COPPER
CU. FT. _____ CUBIC FOOT
CU. IN. _____ CUBIC INCH
CU. YD. _____ CUBIC YARD
DIA. _____ DIAMETER
DB. _____ DOUBLE
DBT _____ DRY-BULB TEMPERATURE
DEC. _____ DEGREE
DEPT. _____ DEPARTMENT
D.F. _____ DRINKING FOUNTAIN
DISC. _____ DISCONNECT
DN. _____ DOWN
D.S. _____ DOWN SPOUT
DWC _____ DRAINING
E.F. _____ EXHAUST FAN
EXH. _____ EXHAUST
EXP. JT. _____ EXPANSION JOINT
EXT. _____ EXTERIOR
FIN. _____ FINISH
FL. _____ FLOOR
FLUOR. _____ FLUORESCENT
FR. _____ FIRE
FR. RATING _____ FOOT/FEET
FTG. _____ FOOTING
GALV. _____ GALVANIZED
GR. _____ GROUND FAULT
GR. INT. _____ GROUND INTERIOR
GOV'T _____ GOVERNMENT
GR. FL. _____ GROUND FLOOR
GYP. _____ GYPSUM
H.C. _____ HOLLOW CORE
H.D.G. _____ HOT DIPPED GALVANIZED
HWR. _____ HARDWARE
H.P. _____ HORSEPOWER
HT. _____ HEIGHT
HT. _____ HEATER
HV. _____ HIGH VOLTAGE
HVAC _____ HEATING, VENTILATING
AND AIR CONDITIONING
H.W. _____ HIGHWAY
ID. _____ INSIDE DIAMETER
IN. _____ INCH
INCAND. _____ INCANDESCENT
INCL. _____ INCLUDED
INSL. _____ INSULATION
INT. _____ INTERIOR
INV. EL. _____ INVERT ELEVATION
JST. _____ JOIST
K.D. _____ KILN DRIED
KW. _____ KILOWATT
KWH. _____ KILOWATT HOUR
LAM. _____ LAMINATED
LAV. _____ LAVATORY
LB. _____ POUND
LIT. _____ LIGHTING
LTH. _____ LENGTH
LN. _____ LINEAR
LL. _____ LIVE LOAD
MANUF. _____ MANUFACTURE
MAX. _____ MAXIMUM
MF. _____ MILL FINISH
MIN. _____ MINIMUM
MLDG. _____ MOLDING
MHW. _____ MEAN HIGH WATER
MLW. _____ MEAN LOWER WATER
MLLW. _____ MEAN LOWER LOW WATER
MSL _____ MEAN SEA LEVEL
MOD. _____ MODIFICATION
NTS _____ NOT TO SCALE
NO. _____ NUMBER
O.A. _____ OVERALL
O.C. _____ ON CENTER
O.D. _____ OUTSIDE DIAMETER
O.F.C. _____ OFFICE
O/H _____ OVER HEAD
OPP. _____ OPPOSITE
PARTN. _____ PARTITION
PC. _____ PORTLAND CEMENT
PCF _____ POUNDS PER CUBIC FOOT
P.E. _____ PROFESSIONAL ENGINEER
PERF. _____ PERFORATE
PERP. _____ PERPENDICULAR
PL. _____ PLATE
PLG. _____ PILING
PLYWD. _____ PLYWOOD
P.N. _____ PANEL
PREFAB. _____ PREFABRICATED
PRELIM. _____ PRELIMINARY
PS. _____ POUNDS PER SQUARE FOOT
PSI _____ POUNDS PER SQUARE INCH
P.T. _____ PRESSURE TREATED
Q.S. _____ QUARTER SAWN
R. _____ RADIUS
RCP. _____ RECEPTACLE
REBAR. _____ REINFORCING BAR
REFRIG. _____ REFRIGERATION
REIN. _____ REINFORCING
RFG. _____ ROOFING
RGM. _____ ROUGH
RM. _____ ROOM
R.O. _____ ROUGH OPENING
RS. _____ ROUGH SAWN
S.C. _____ SOLID CORE
SCH. _____ SCHEDULE
SDG. _____ SOUNDING
SECT. _____ SECTION
SFTWD. _____ SOFTWOOD
SG. _____ SLIDING GLASS DOOR
SH. _____ SHINGLES
SPEC. _____ SPECIFICATION
SPR. _____ SPRUCE
SQ. _____ SQUARE
SQ. FT. _____ SQUARE FOOT
SQ. IN. _____ SQUARE INCH
SQ. YD. _____ SQUARE YARD
SS. _____ STAINLESS STEEL
STR. _____ STEEL
SUB. FL. _____ SUBFLOOR
SUP. _____ SUPPLY
SW. _____ SWITCH
SYM. _____ SYMMETRICAL
S.Y.P. _____ SOUTHERN YELLOW PINE
SYS. _____ SYSTEM
S.F.S. _____ SURFACED FOUR SIDES
TEL. _____ TELEPHONE
T&G. _____ TONGUE-AND-GROOVE
TYP. _____ TYPICAL
U.G. _____ UNDERGROUND
U.E. _____ UNDERGROUND ELECTRICAL
UL. _____ UNDERWIRE LABORATORIES, INC.
V. _____ VOLT
VENT. _____ VENTILATOR
VERT. _____ VERTICAL
VF. _____ VERIFY IN FIELD
VOL. _____ VOLUME
V.P. _____ VENT PIPE
VTR. _____ VENT THRU ROOF
W. _____ WATER
WBT. _____ WET BULB TEMPERATURE
WC. _____ WATER CLOSET
WD. _____ WOOD
WP. _____ WATERPROOF
WWF. _____ WELDED WIRE FABRIC
YD. _____ YARD

REFERENCE LEGEND



SHARK CHANNEL BRIDGE REHABILITATION FLORIDA KEYS OVERSEAS HISTORICAL TRAIL

FDEP DISTRICT 5
MONROE COUNTY

REMOVAL OF BRIDGE CANTILEVERED SLABS AND PLACEMENT OF NEW CURBS AND RAILING

FDEP PROJECT # 61418C

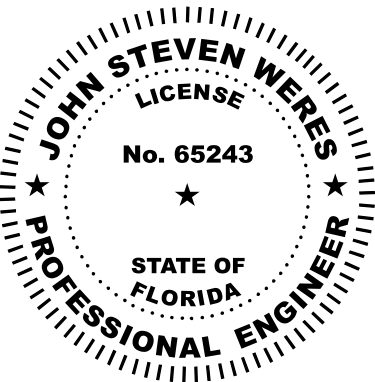
APPLICABLE CODES AND DESIGN DATA

CODE LIST

FDOT FY2023-24 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
FDOT STANDARD PLANS.....FDOT FY2023-24 STANDARD PLANS FOR ROAD
AND BRIDGE CONSTRUCTION AND APPLICABLE
INTERIM REVISIONS (IRS)

FLORIDA KEYS OVERSEAS HERITAGE TRAIL

GARLAND SANDEL, PROJECT MANAGER
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF DESIGN AND CONSTRUCTION
3800 COMMONWEALTH BOULEVARD 260K, MS 520
TALLAHASSEE, FLORIDA 32399



SCOPE OF PROJECT

CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS,
EQUIPMENT, SUPERVISION AND PERMITTING TO
SUCCESSFULLY PERFORM ALL WORK PER THE
CONTRACT DOCUMENTS.

JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
GRESHAM SMITH
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317

DESIGNER

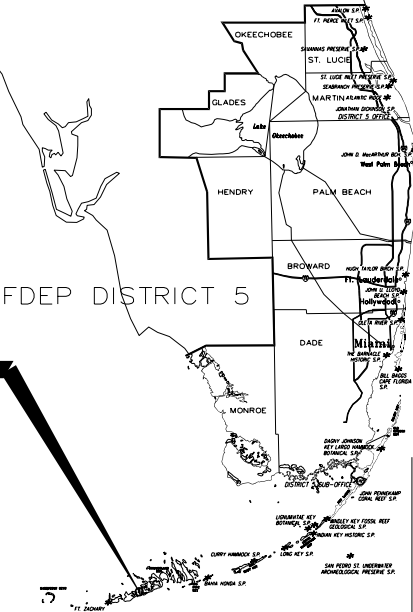
48157.00
FILE No.

FEBRUARY 6, 2024
INITIAL ISSUE DATE

INDEX OF DRAWINGS

- B1-1 COVER SHEET
- B1-2 SUMMARY OF QUANTITIES/SIGNATURE SHEET
- B1-3 GENERAL NOTES - SHEET 1 OF 2
- B1-4 GENERAL NOTES - SHEET 2 OF 2
- B1-5 OVERALL SPAN LAYOUT PLAN
- B1-6 PLAN & ELEVATION - SHEET 1 OF 8
- B1-7 PLAN & ELEVATION - SHEET 2 OF 8
- B1-8 PLAN & ELEVATION - SHEET 3 OF 8
- B1-9 PLAN & ELEVATION - SHEET 4 OF 8
- B1-10 PLAN & ELEVATION - SHEET 5 OF 8
- B1-11 PLAN & ELEVATION - SHEET 6 OF 8
- B1-12 PLAN & ELEVATION - SHEET 7 OF 8
- B1-13 PLAN & ELEVATION - SHEET 8 OF 8
- B1-14 TYPICAL SECTION & PAVEMENT DETAILS
- B1-15 SIDE WALL DETAILS
- B1-16 TYPICAL ENLARGED PLAN & PROPOSED REPAIR LOCATIONS
- B1-17 TYPICAL BRIDGE ELEVATION
- B1-18 SPALL REPAIR AND CRACK REPAIR DETAILS
- B1-19 DETAILS OF APPROACH RAILING
- B1-20 REINFORCEMENT BAR LIST
- B1-21 LIDAR SCANS - SHEET 1 OF 8
- B1-22 LIDAR SCANS - SHEET 2 OF 8
- B1-23 LIDAR SCANS - SHEET 3 OF 8
- B1-24 LIDAR SCANS - SHEET 4 OF 8
- B1-25 LIDAR SCANS - SHEET 5 OF 8
- B1-26 LIDAR SCANS - SHEET 6 OF 8
- B1-27 LIDAR SCANS - SHEET 7 OF 8
- B1-28 LIDAR SCANS - SHEET 8 OF 8
- MOT-1 TEMPORARY TRAFFIC CONTROL PLAN
- MOT-2 TEMPORARY TRAFFIC CONTROL PLAN
- MOT-3 TEMPORARY TRAFFIC CONTROL PLAN
- G-1 REPAVING SURFACE FINISH LIMITS
- G-2 REPAVING SURFACE FINISH LIMITS

Project Location



ISSUED FOR
CONSTRUCTION



Office of Operations Bureau of Design and Construction

SUMMARY OF ESTIMATED QUANTITIES				
PHASE	PAY ITEM	UNIT	QUANTITIES	
	BRIDGE SUMMARY		PRELIMINARY	FINAL
DEMOLITION	REMOVAL OF EXISTING STRUCTURE - SUPERSTRUCTURE ONLY	SF	33,805	
	MOBILIZATION	LS	1	
	MILLING ASPHALT PAVEMENT, 2" AVG. DEPTH	SY	2,243	
	UTILITY PIPE, REMOVE & DISPOSE, 8"-19.9"	LF	1,989	
CONSTRUCTION	MAINTENANCE OF TRAFFIC	LS	1	
	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B	TN	713	
	PROPOSED SOD RESTORATION AREA	SF	4,615	
	CONCRETE CLASS IV, SUPERSTRUCTURE	CY	267	
	RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR - ACRYLIC	CF	49	
	EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB	GA	1	
	INJECT AND SEAL CRACK - STRUCTURES REHAB	LF	146	
	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE	LB	43,558	
	PEDESTRIAN/BICYCLE RAILING, ALUMINUM ONLY, 42" TYPE I (FDOT STD. 515-061)	LF	4,041	

BID ITEM NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/VERIFYING ALL QUANTITIES.

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.

NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING ARE INCLUDED IN THE UNIT PRICES FOR CONSTRUCTING THIS PROJECT.

FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)

SHEET TITLE

SUMMARY OF QUANTITIES/SIGNATURE SHEET

PROJECT TITLE

SHARK CHANNEL BRIDGE REHABILITATION DESIGN

JOHN STEVEN WERES, P.E.
State of Florida, Professional
Engineer, License No. 65243
This has been digitally
signed and sealed by JOHN
STEVEN WERES, P.E. on the
date indicated here. Printed
copies of this document are not
considered signed and sealed
and the signatures must be
verified on any electronic
copies.

DESIGNER : CJR
DRAWN BY: CJR
REVIEWED BY: JSW
Consultant :
GRESHAM SMITH
JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317

ISSUE DATE: 2-6-2024
COMP. FILE No.:
STATE PROJECT No.: 61418C

SYMBOL

DATE

REVISION

SYMBOL

DATE

REVISION

DATE

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonweath Blvd., Tallahassee, FL 32399 (850) 425-2300

GENERAL SPECIFICATIONS:										DATE	REVISION		
FLORIDA DEPARTMENT OF TRANSPORTATION FY 2023-24 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.													
ALL CONTRACT REQUIREMENTS SHALL BE IN ACCORDANCE WITH FDEP NON-TECHNICAL SPECIFICATIONS THAT IS A PART OF THE BID PACKAGE.													
TECHNICAL SPECIFICATIONS ARE ASSOCIATED WITH THE BID PACKAGE.													
DESIGN SPECIFICATIONS:										SYMBOL	DATE	REVISION	
AMERICAN ASSOCIATION OF STATE AND HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS (9TH EDITION) AND APPROVED INTERIMS AS SPECIFIED IN THE FDOT STRUCTURE DESIGN GUIDELINES.										U			
AMERICAN ASSOCIATION OF STATE AND HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD GUIDE SPECIFICAITONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009.										B			
FDOT STRUCTURE DESIGN GUIDELINES 2023.													
STANDARD PLANS:										A	DATE	REVISION	
FDOT FY2023-24 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).										B			
VERTICAL DATUM:										SYMBOL	DATE	REVISION	
VERTICAL DATUM USED IS NAVD 88.										A			
ENVIRONMENT CLASSIFICATION:										COMP. FILE No.	STATE PROJECT No.		
SUPERSTRUCTURE - EXTREMELY AGGRESSIVE										61418C			
SUBSTRUCTURE - EXTREMELY AGGRESSIVE													
PLAN DIMENSIONS:										DESIGNER : C/JR	ISSUE DATE: 2-6-2024		
ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET AND INCHES EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.										DRAWN BY: C/JR	COMP. FILE No.		
UTILITIES:										REVIEWED BY: JSW	STATE PROJECT No.		
THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO STARTING WORK. ALL UTILITIES SHALL BE IDENTIFIED AND LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO DAMAGE OCCURS TO ANY EXISTING UTILITY AS A RESULT OF THE WORK. NOTIFY "SUNSHINE STATE ONE CALL, (1-800-432-4770)" PRIOR TO CONSTRUCTION OPERATION AND PRIOR TO ANY CONNECTION TO EXISTING UTILITIES.										Consultant :			
THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE US NAVY(NAVAL STATION KEY WEST) UNDERWATER CLASSIFIED FIBER OPTIC CABLE, WHICH IS NOT LOCATABLE BY THE UTILITY LOCATE SYSTEM. INFORMATION ON THE LOCATION OF THIS UTILITY IS NOT FOR PUBLIC KNOWLEDGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO DAMAGE OCCURS AS A RESULT OF THE WORK.										GRESHAM SMITH			
EXISITING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THAT UTILITY SYSTEMS DO NOT CONFLICT WITH THE PROPOSED PROJECT. CONFLICTS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.										JOHN S. WERES, P.E.			
WORKMANSHIP:										JOHN S. WERES, P.E.			
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE GENERAL SPECIFICAITONS. MEASURES SHALL BE IMPLEMENTED TO PREVENT ADDITIONAL MATERIAL AND DEBRIS FROM FALLING INTO THE CHANNEL.										P.E. LICENSE NUMBER 65243			
MATERIALS:										2073 SUMMIT LAKE DRIVE, SUITE 305			
ALL MATERIALS SHALL BE ON THE FLORIDA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCTS LIST (APL) AS APPLICABLE.										TALLAHASSEE, FLORIDA 32317			
CONCRETE:													
CONCRETE SHALL BE CLASS IV AND IN ACCORDANCE WITH FDOT SPECIFICATIONS.													
F'C = 5,500 PSI (MIN. 28 DAY COMP. STRENGTH)													
REINFORCING STEEL:													
ALL REINFORCING STEEL SHALL BE ASTM A123 GRADE 60. ALL REINFORCING STEEL SHALL BE HOT DIPPED GALVANIZED.													
ANCHORING NEW BARS & BOLTS:													
USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS MASTEREMACO ADH 327, MASTERBRACE ADH 1420, HILTI-HIT HY 200, ITW RAMSET/RED HEAD OR ACCEPTED EQUIVALANT. FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PROPER DRILL SIZE.													
UTILIZE GPR OR SIMILAR METHODS TO LOCATE REINFORCING PRIOR TO DRILLING. CONFIRM ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" DIA. PILOT HOLE. DO NOT CUT OR DAMAGE REINFORCING STEEL. THOROUGHLY CLEAN HOLE PRIOR TO PLACING EPOXY.													
DEMOLITION:													
ALL DEMOLITION MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE. DEMOLITION MATERIAL SHALL BE DISPOSED OF FOLLOWING ALL STATE, LOCAL AND FEDERAL REGULATIONS.													
EXISTING REMAINING PORTIONS OF THE BRIDGE MAY NOT BE DAMAGED DURING THE REMOVAL OF THE NOTED CANTILEVERED SLAB SECTIONS AND CORRODED PIPE. SAWCUTTING, FLAME CUTTING AND MINOR CHIPPING ARE TO BE PERFORMED TO ALLOW REMOVAL OF THE CANTILEVERED SLAB SECTIONS. AFTER REMOVAL, CLEAN AND SEAL EXPOSED EXISTING REINFORCING STEEL WITH AN EPOXY COATING IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS.													
DO NOT STACK OR STORE DEBRIS ON EXISTING BRIDGE. DEBRIS MAY BE PLACED ON EQUIPMENT ON THE BRIDGE FOR REMOVAL. A CATCHMENT SYSTEM IS REQUIRED TO BE INSTALLED ALONG THE SIDES OF THE BRIDGE TO CATCH ALL DEBRIS.													
THE EXISITING BRIDGE IS LIMITED TO 10,000 LBS. PLACED DIRECTLY WITHIIN A SINGLE ARCH, NO EXCEPTIONS SHALL BE MADE UNLESS A FULL STRUCTURAL ANALYSIS IS PERFORMED BY THE CONTRACTORS STRUCTURAL ENGINEER.													
EXISTING CANTILEVERS MAY BE REMOVED FROM THE TOP SIDE OF THE BRIDGE. EQUIPMENT AND WORKERS MAY NOT BE PLACED ON ELEVATED BRIDGE SLAB CANTILEVERS WITHOUT PROPER SHORING AND SUPPORT. THE CONTRACTOR SHALL VERIFY THAT ANY LARGE AND/OR HEAVY EQUIPMENT USED WILL NOT CAUSE ANY ADDITIONAL DAMAGE TO THE BRIDGE. NOTIFY THE ENGINEER OF ANY LARGE AND/OR HEAVY EQUIPMENT TO BE PLACED ON THE BRIDGE. HEAVY EQUIPMENT MAY NOT EXCEED CONCRETE ARCH WIDTH LIMITS. REMOVAL OF DEBRIS FROM THE BRIDGE STRUCTURE SHALL BE ACCOMPLISHED BY ALL MEANS NECESSARY TO PREVENT DEBRIS FROM ENTERING THE WATERS BELOW. DEBRIS IS NOT PERMITTED TO ENTER WATERS BELOW.													
BARGE(S) ARE REQUIRED BELOW THE CANTILEVERS TO CATCH ANY FALLING DEBRIS. ANCHORING OF VESSELS (IF NECESSARY) MUST COMPLY WITH FLORIDA KEYS NATIONAL MARINE SANCTUARY AND OTHER AGENCIES REQUIREMENTS.													
OPERATION OF VESSELS MAY NOT IMPACT OR DAMAGE CORAL, SEAGRASS, OR ANY OTHER IMMOBILE ORGANISM ATTACHED TO THE SEABED. PRIOR TO ANCHORING ANY BARGE(S), EQUIPMENT, ETC., A CERTIFIED DIVER MUST VERIFY THAT THE ANCHORING (IF NECESSARY) WILL NOT OCCUR OR IMPACT ANY SEA GRASSES, SPONGES OR CORAL.													
THE WORK SHALL BE PROPERLY SEQUENCED TO ALLOW REMOVAL, REPLACEMENTAND REPAIR.													
ADDITIONAL WORK MAY BE NECESSARY. IF ADDITIONAL DAMAGE, DETERIORATION OR CONDITIONS EXIST THAT REQUIRE WORK, NOTIFY THE ENGINEER.													
ENSURE THAT ALL EQUIPMENT, PRIOR TO BRINGING ON-SITE, IS WASHED AND FREE OF SOIL, SEED, OR OTHER ORGANIC MATTER. EQUIPMENT MAY BE INSPECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO OFF-LOADING FOR USE. ADDITIONAL CLEANING WILL BE PREFORMED OFFSITE BY THE CONTRACTOR IF THE OWNER'S REPRESENTATIVE DETERMINES IT IS NEEDED.													
CONCRETE REPAIR MATERIALS:													
PRIOR TO PLACING REPAIR MATERIALS, IF PRESENT, REMOVE RUST AND CLEAN ALL EXPOSED STEEL USING SAND BLASTING OR HAND TOOLS. SAND BLASTING IS THE PREFERRED METHOD. (SANDBLAST TO WHITE METAL). A CATCHMENT SYSTEM IS REQUIRED DURING SANDBLASTING.													
SEALANTS:													
INSTALL FLEXIBLE SEALANT SUCH AS MASTERSEAL SL 2 OR A SIMILIAR PRODUCT ON THE APL IN ALL EXISTING SAW-CUTS TO PREVENT INTRUSION OF MOISTURE. JOINT SEALANT SHALL BE INSTALLED PRIOR TO MASTERPROTECT CI OR A SIMILIAR PRODUCT ON THE APL.													
STEEL HARDWARE:													
ANCHOR RODS SHALL CONFORM TO ASTM A307 AND SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.													
STRUCTURAL STEEL:													
STEEL PLATES SHALL BE GRADE 50, A572 STEEL.													
QUALITY ASSURANCE:													
THE CONTRACTOR SHALL BE QUALIFIED IN THE FIELD OF CONCRETE REPAIR AND PROTECTION WITH A SUCCESSFUL TRACK RECORD OF 5 YEARS OR MORE. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL SAFETY AND WEATHER CONDITIONS REQUIRED BY THE MANUFACTURER OR AS MODIFIED BY APPLICABLE RULES AND REGULATIONS OF LOCAL, STATE, AND FEDERAL AUTHORITIES HAVING JURISDICTION. CONSULT MATERIAL SAFETY DATA SHEETS FOR COMPLETE HANDLING RECOMMENDATIONS.													
EPOXY INJECTION OF CRACKS:													
THE EPOXY INJECTION OF CRACKS IN CONCRETE, AS CALLED FOR IN THE PLANS, SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS.													
EROSION CONTROL NOTES:													
1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.													
2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).													
3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.													
4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.													
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)										SHEET NO.			
SHEET TITLE										GENERAL NOTES - SHEET 1 OF 2			
PROJECT TITLE										SHARK CHANNEL BRIDGE REHABILITATION DESIGN			
Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300													
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.													

CONSTRUCTION:

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ELEMENTS OF THE EXISITNG AND PROPOSED STRUCTURES ARE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SHALL PREFORM ALL WORK IN AN ACCEPTABLE SAFE MANNER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SATISFY THE REQUIREMENTS OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) INDIVIDUAL PERMIT 44-108843-P, THE UNITED STATES COAST GUARD GENERAL CONDITIONS AS INCLUDED IN THESE PLANS, THE FLORIDA KEYS NATURAL MARINE SANCTUARY (FKNMS) GENERAL CONDITIONS AS INCLUDED IN THESE PLANS, AND DIVISION OF HISTORIC RESOURCES (DHR) GENERAL CONDITIONS AS INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL COORDINATE ALL OPERATIONS WITH THE UNITED STATES COAST GUARD (USCG) INCLUDING SUBMITTAL OF THE APPROVED DEMOLITION PLAN AND VESSEL COORDINATION PLAN TO USCG FOR THEIR CONCURRENCE AND APPROVAL.

THE CONTRACTOR SHALL COORDINATE ALL OPERATIONS WITH FKNMS REGULATIONS AT CFR 922.163 SPECIFICALLY THOSE INCLUDED IN 15 CFT 922.163(a)(5) AS THEY RELATE TO VESSEL OPERATIONS. FKNMS REGULATIONS AT 15 CFR 922.163(a)(3) PROHIBIT ABANDONING ANY STRUCTURE MATERIAL, OR OTHER MATTER ON THE SEABED OF THE SANCTUARY. ANY MATERIAL THAT HAS FALLEN INTO THE SANCTUARY IS REQUIRED TO BE REMOVED FROM THE SANCTUARY AND DISPOSED OF AT AN AUTHORIZED UPLAND WASTE DISPOSAL FACILITY. NO DEMOLITION OR CONSTRUCTION DEBRIS MAY BE DEPOSITIED IN WATERS OF THE SANCTUARY AT OR NEAR THE PROJECT SITE AT ANYTIME.

THE CONTRACTOR SHALL HAVE A COPY OF THE COMPLETE SFWMD AND USCG PERMIT FOR THE PROJECT PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO THE CONDITIONS OF THE PERMITS AND SHALL RETAIN A COPY OF THE PERMIT AT THE PROJECT LOCATION AS APPROVED BY THE ENGINEER.

ALL PROJECT ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND ALL REQUIREMENTS OF PERMITS OBTAINED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING COMPLIANCE WITH SUCH REGULATIONS, REQUIREMENTS, AND PERMIT CONDITIONS.

A PRE-CONSTRUCTION MEETING IS REQUIRED. THE CONTRACTOR SHALL CONTACT THE FDEP PROJECT MANAGER, THE PROJECT ENGINEER, AND ALL POTENTIALLY AFFECTED UTILITIES TO ARRANGE FOR THE PRE-CONSTRUCTION MEETING. THIS MEETING MUST BE CONDUCTED AT LEAST ONE WEEK PRIOR TO CONSTRUCTION MOBILIZATION. PROJECT ACTIVITIES SHALL NOT BEGIN UNTIL AFTER THIS MEETING.

WORK ZONE BARRIERS ARE TO BE ERECTED TO PROTECT AND PREVENT THE PUBLIC FROM ACCESSING THE BRIDGE AND WORK AREAS.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.

THE EXISTING FILL BETWEEN THE BOTTOM OF EXISTING SLAB AND TOP OF ARCH WALL SHALL BE RETAINED BEFORE THE NEW CURB IS POURED.

THE CONTRACTOR SHALL PROVIDE ACCESS CONTROL PREVENTION TO THE SITE.

THE CONTRACTOR SHALL REMOVE, STORE, AND RE-INSTALL ALL THE TRAIL RELATED SIGNS AT THE APPROACHES.

THE CONTRACTOR SHALL RE-INSTALL THE BALUSTERS WITH NEW BASES AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH THE WORK, CONSTRUCTION OF TEMPORARY UTILITIES IN THE EVENT THAT EXISTING UTILITY SERVICE MUST BE INTERRUPTED AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES THAT MAY AFFECT EXISTING OR PROPOSED UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, INCLUDE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE IT'S OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES AND LEVELS.

THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE OWNER AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.

THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE OWNER'S PROJECT MANAGER, AND WILL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. PAYMENT FOR PEPARING, UPDATING AND SUBMITTING THE SCHEDULE WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION OR OTHER PAY ITEMS AS APPROPRIATE.

PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPOERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED EXCEPT THOSE TREES IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT MANAGER.

THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN ROADSIDE WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT OF WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.

THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF EXCAVATED MATERIAL OFF-SITE UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER.

ALL DISTURBED AREAS WITHIN THE LIMITS OF RESTORATION SHALL BE REVEGETATED AS SPECIFIED BY THE PARK SERVICE BIOLOGIST.

ALL AREAS, STREETS, DRIVEWAYS, PARKING LOTS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION.

PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.

NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.

THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER'S PROJECT MANAGER AND WILL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION, INCLUDING TREE REMOVAL, CLEARING AND GRUBBING, EXCAVATION, HAULING OF EXCAVATED MATERIALS, AND PLACEMENT OF EMBANKMENT AND BACKFILL. THE PLAN ALSO WILL DETAIL THE EROSION CONTROL MEASURES TO BE EMPLOYED AT ALL STOCKPILE AND CONSTRUCTION STAGING AREAS AND WILL DEFINE THE MAXIMUM LIMITS OF ALL ACTIVE CONSTRUCTION ZONES.

ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND:
FDEP, BUREAU OF SURVEY AND MAPPING, MS 105
3900 COMMONWEALTH BLVD.
TALLAHASSEE, FLORIDA 32399
(850) 245-2606 (OFFICE)
(850) 245-2645 (FAX)

SODDING
RESTORATION OF SODDING AND TURF SHALL BE DONE ACCORDING TO FDOT 2022-23 DESIGN STANDARDS INDEX 570-010.

THE CONTRACTOR SHALL SOLID SOD ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED OR SHOWN. NO SOD WITH MONOFILAMENT OR PLASTIC MESH BACKING WILL BE ALLOWED.

TREE PROTECTION
TREE PROTECTION SHALL BE PROVIDED AT MEDIAN AND IMMEDIATE SHOULDER AREAS WHERE TREES APPEAR TO HAVE BEEN PLANTED AS PART OF THE STREETScape PROJECT. ADDITIONAL AREAS MAY REQUIRE TREE PROTECTION AND SHALL BE DETERMINED BY THE ENGINEER. THE PROTECTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 110-100 AND AS DIRECTED BY THE ENGINEER.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL INSTALL TREE PROTECTION BARRICADES AND TRUNK PROTECTION FENCING.

SITE RESTORATION
THE CONTRACTOR SHALL RETURN THE SITE TO A REASONABLE RESEMBLANCE OF PRECONSTRUCTION ACTIVITIES.

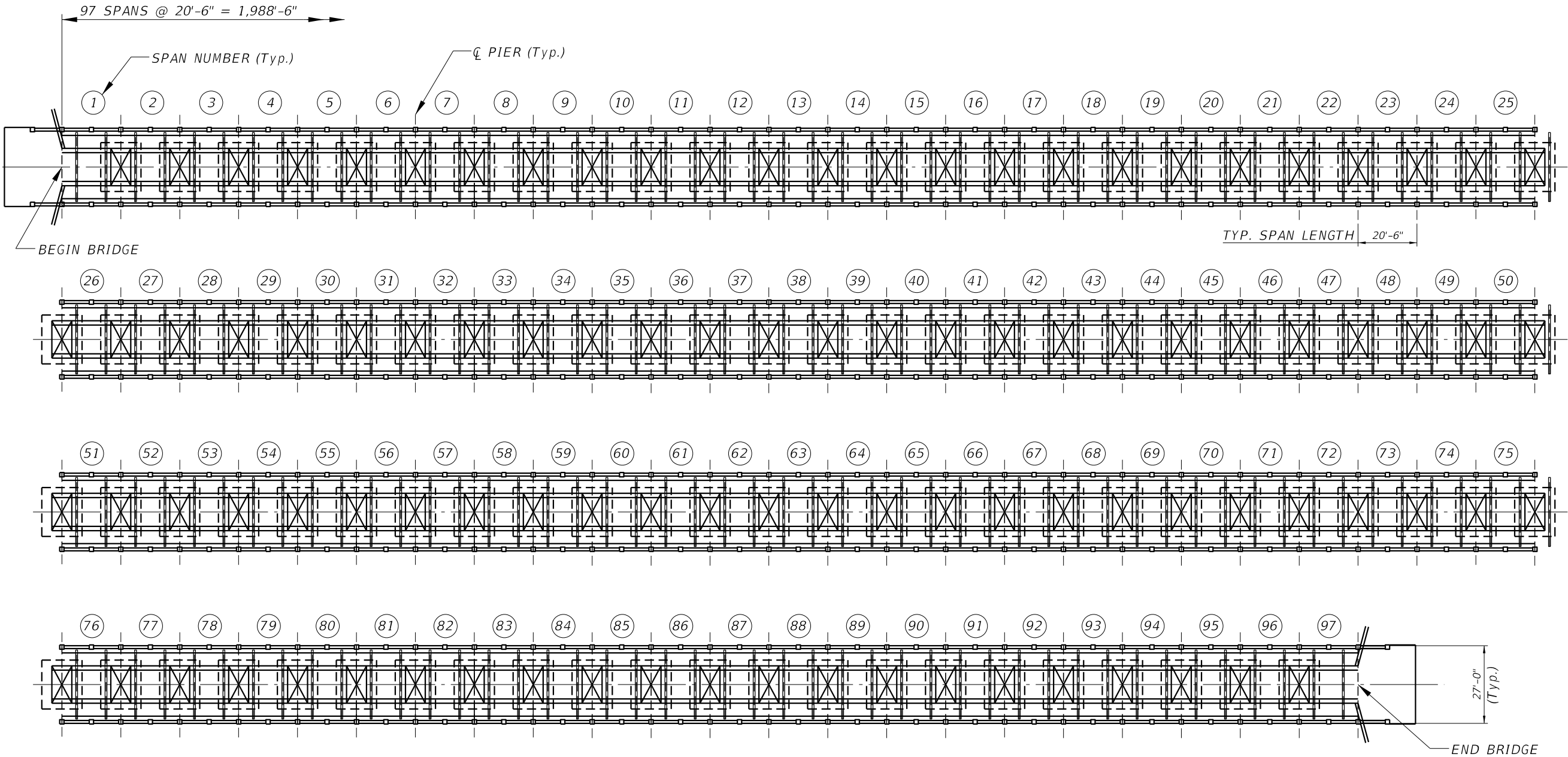
MARINE LIFE PROTECTION:
THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS REGARDING MARINE LIFE PROTECTION AS DICTATED BY THE FLORIDA KEYS NATIONAL MARINE SANCTUARY AND OTHER AGENCIES HAVING JURISDICTION.

SUBMITTALS:
SUBMIT COPIES OF THE SHOP DRAWINGS, MANUFACTURER'S LITERATURE, PRODUCT DATA SHEETS, MSDS (MATERIAL SAFETY DATA SHEETS) AND OTHER REQUIRED DOCUMENTS.

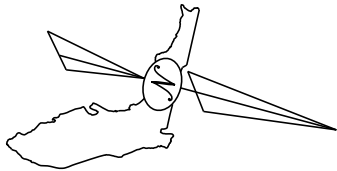
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		DESIGNER : CJR	ISSUE DATE: 2-6-2024	SYMBOL	REVISION	DATE
SHEET TITLE GENERAL NOTES – SHEET 2 OF 2		DRAWN BY: CJR	COMP. FILE No:	A		
PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN		REVIEWED BY: JSW	STATE PROJECT No: 61418C	B		
		Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317				

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300

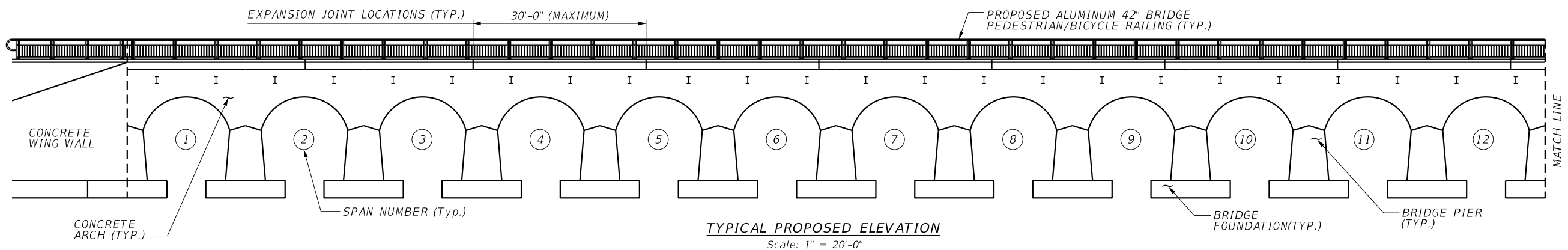
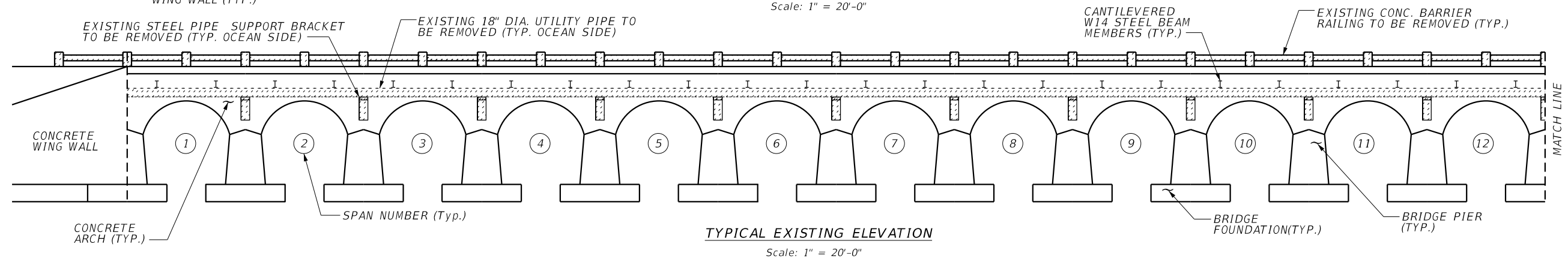
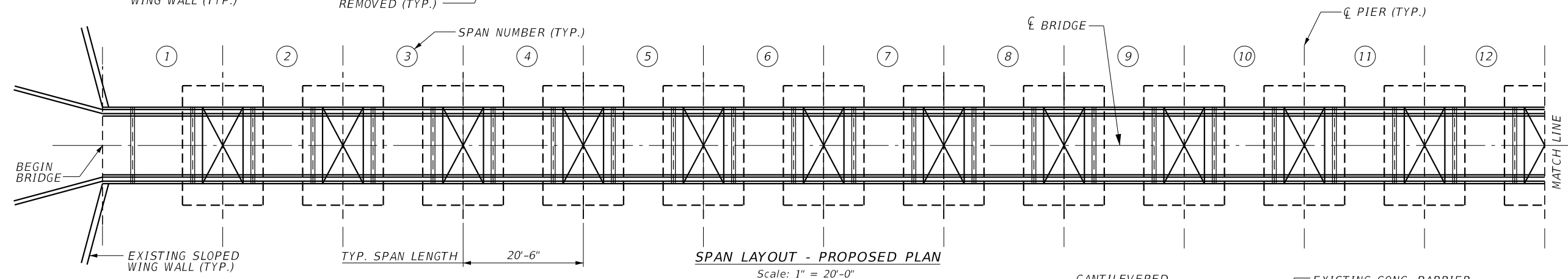
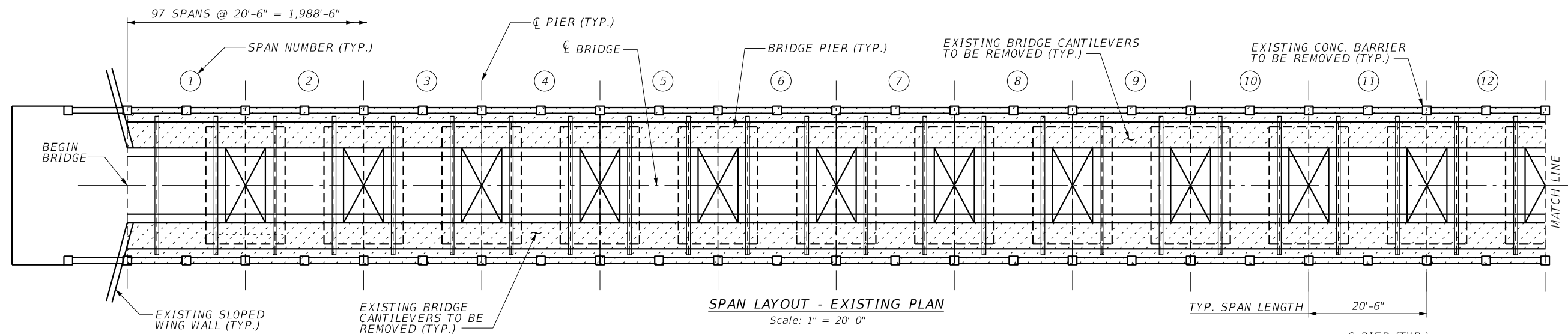




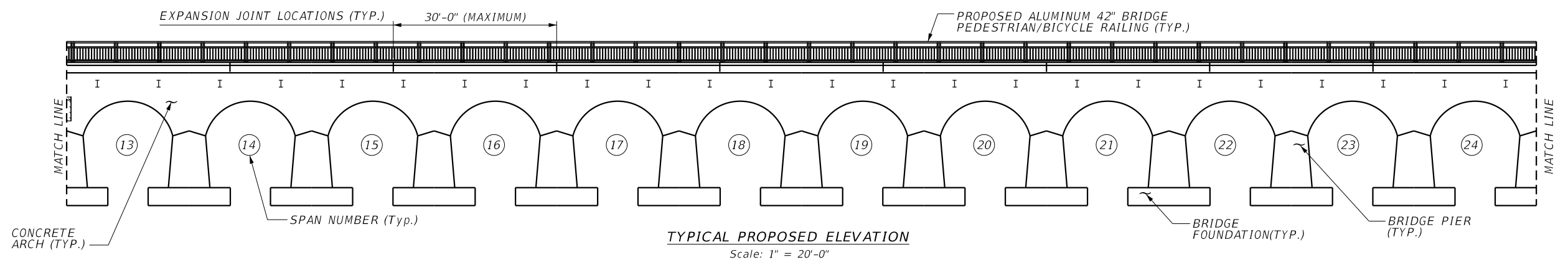
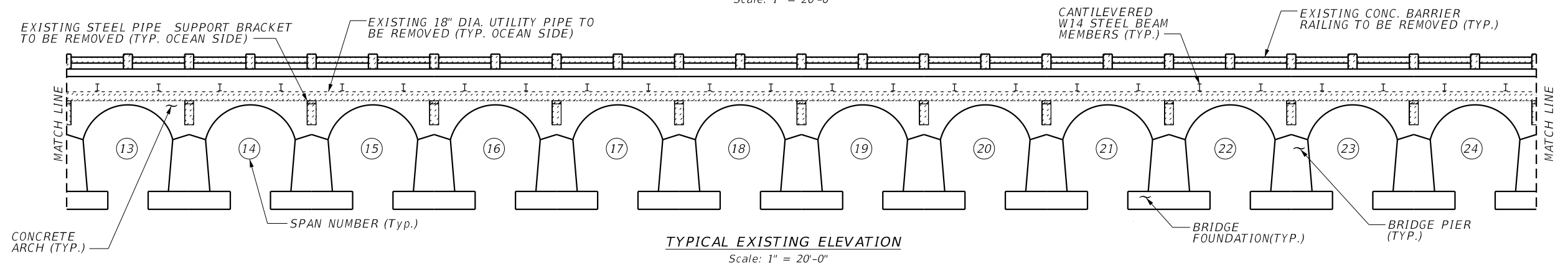
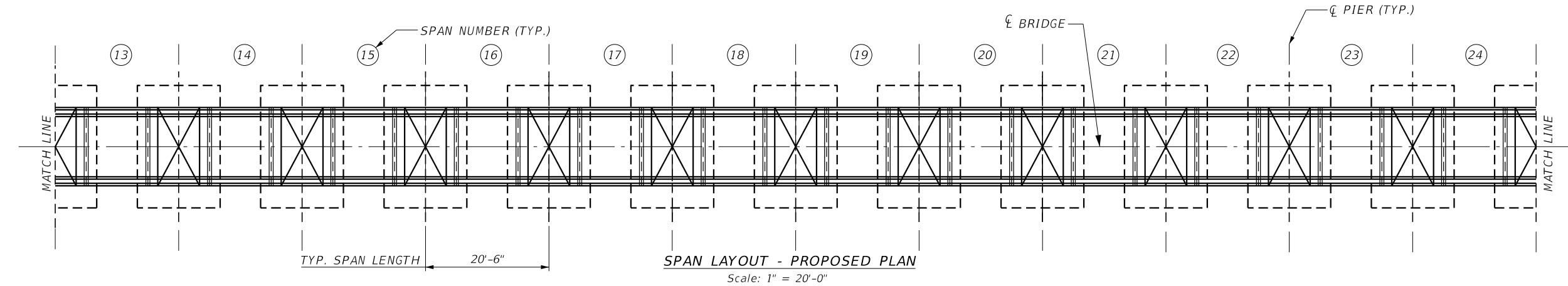
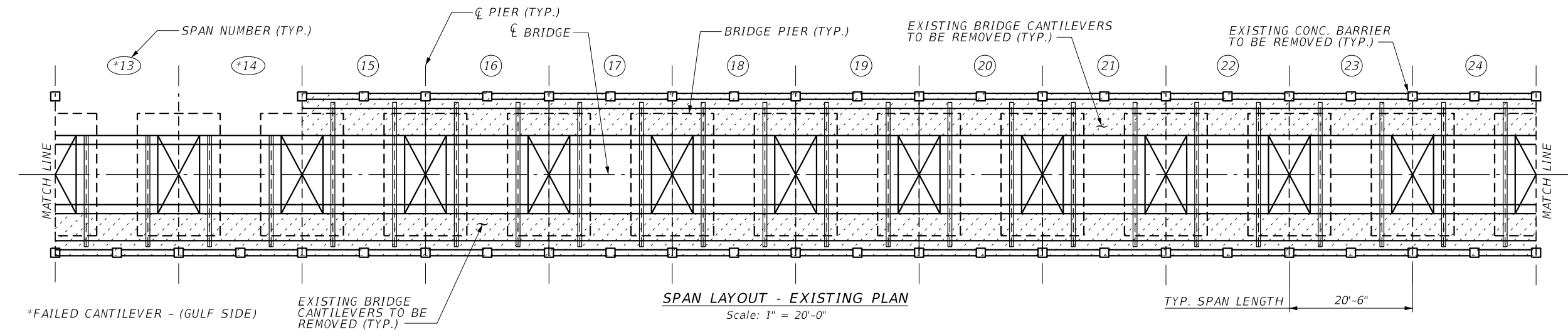
SPAN LAYOUT
Scale: 1" = 40'-0"

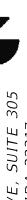


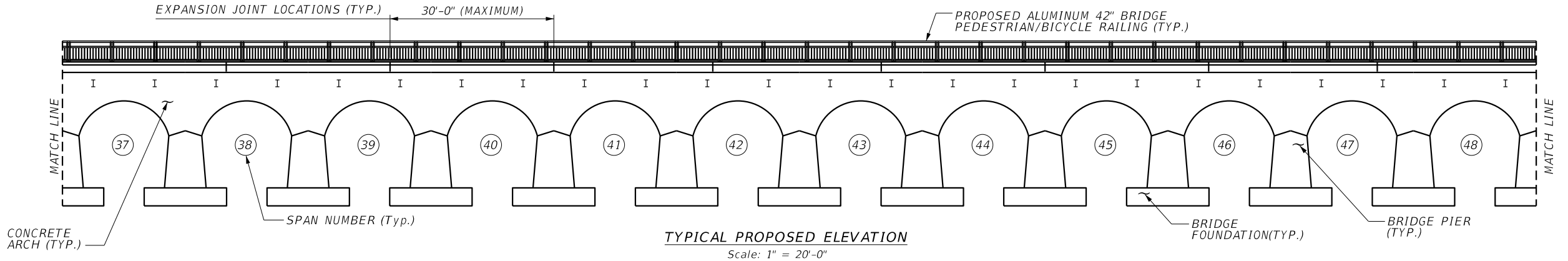
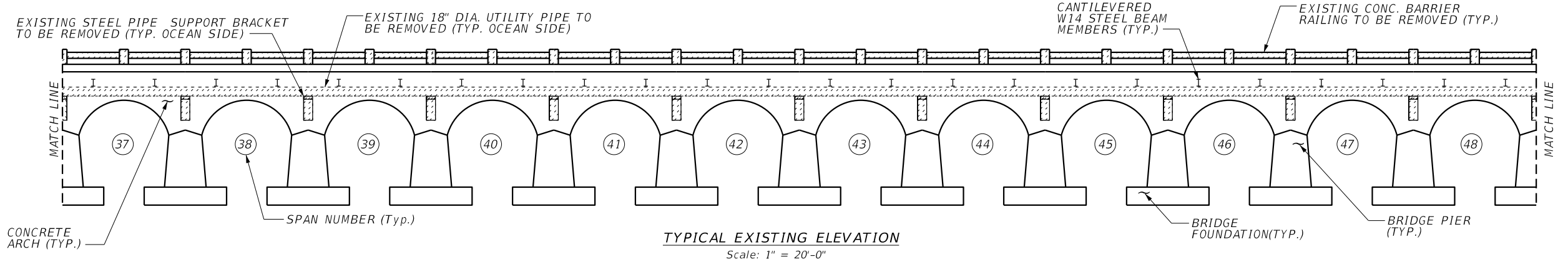
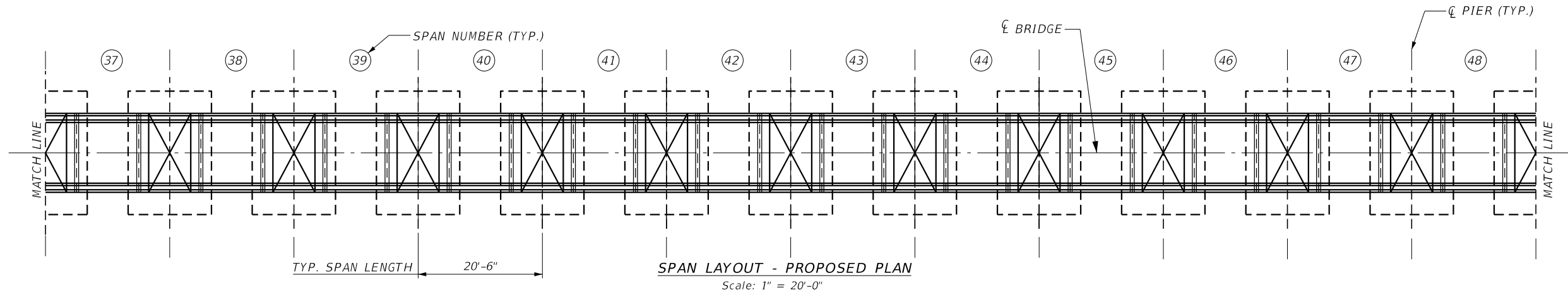
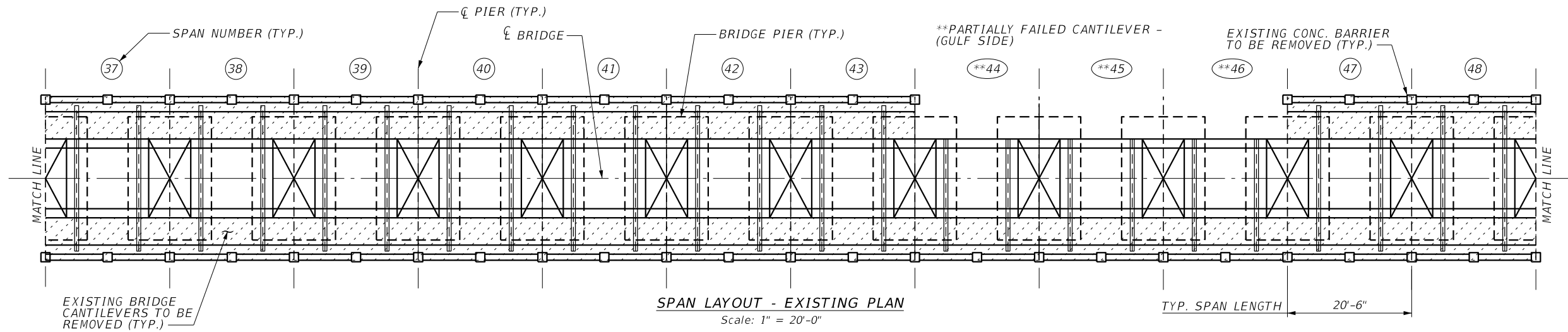
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.				DESIGNER : CJR DRAWN BY: CJR REVIEWED BY: JSW				ISSUE DATE: 2-6-2024 COMP. FILE NO: STATE PROJECT No.: 61418C		SYMBOL A B		DATE C D		REVISION		DATE															
OVERALL SPAN LAYOUT PLAN		PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN				Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317														Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300													
SHEET NO.						B1-5																											



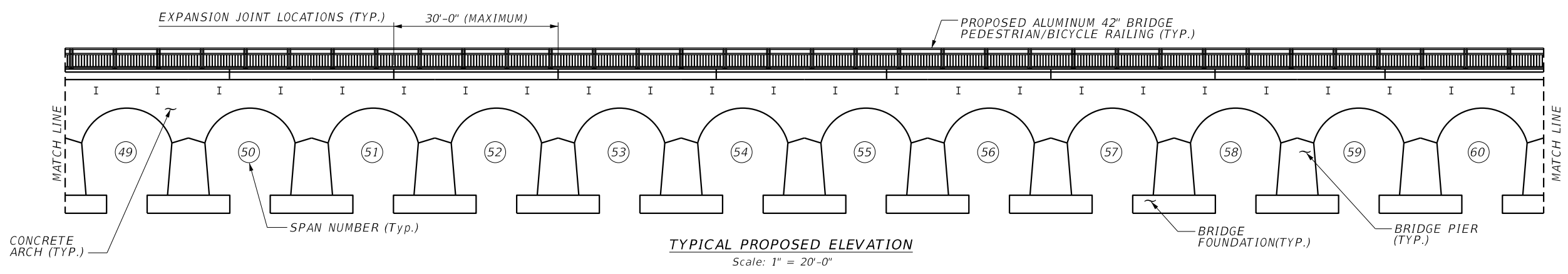
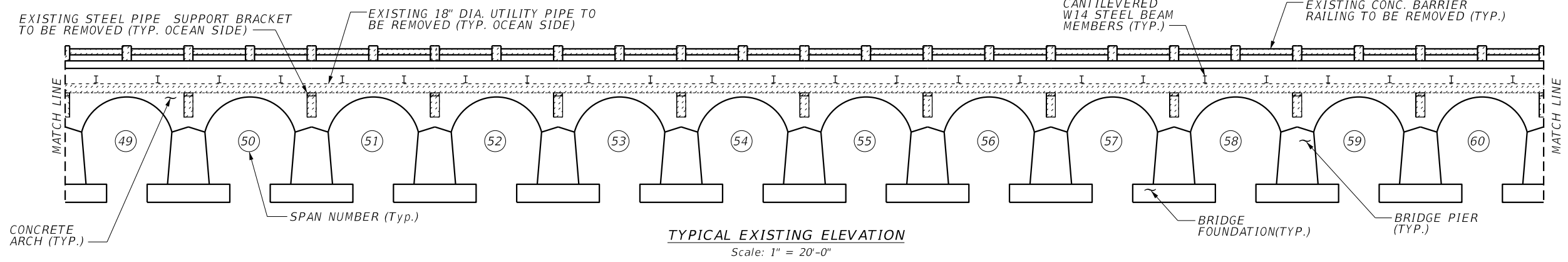
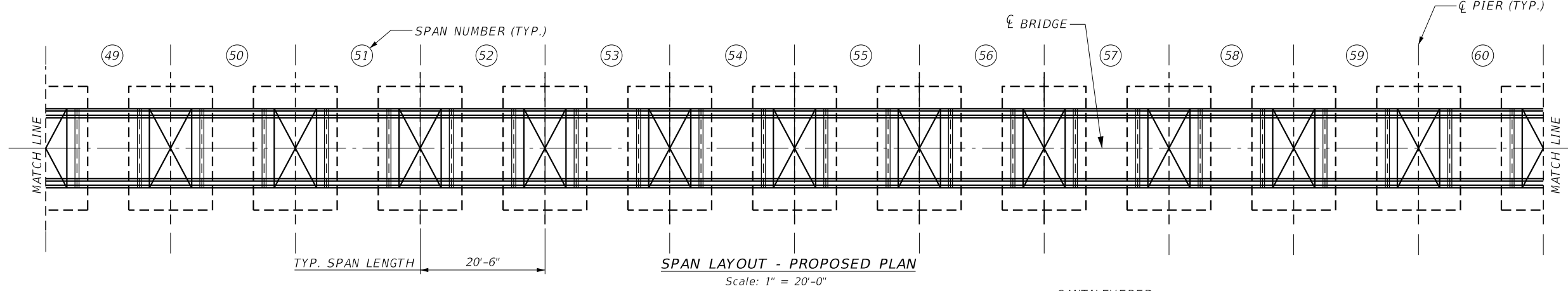
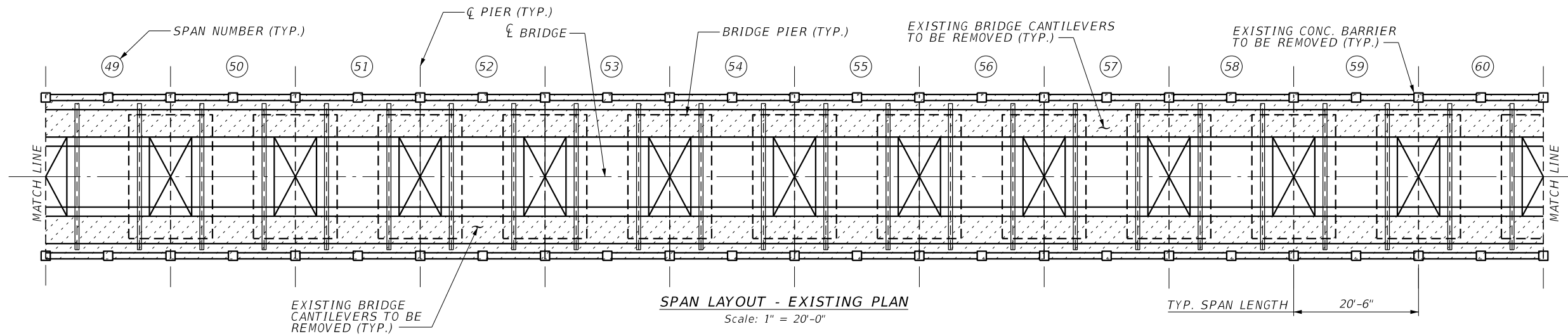
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not valid and the signatures must be verified on any electronic copies.		DESIGNER : CJR DRAWN BY: CJR REVIEWED BY: JSW Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317		ISSUE DATE: 2-6-2024 COMP. FILE No.: STATE PROJECT No.: 61418C		SYMBOL A B		REVISION		DATE	
SHEET TITLE PLAN & ELEVATION - SHEET 1 OF 8								C D					
PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN		Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300											



FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT) SHEET NO. B1-7		JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and may not be used as the verified and official electronic copies.		DESIGNER : CJR DRAWN BY: CJR REVIEWED BY: JSW Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317				Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300			
PLAN & ELEVATION - SHEET 2 OF 8		PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN		ISSUE DATE: 2-6-2024 COMP. FILE No.: STATE PROJECT No.: 61418C		SYMBOL (A) (B)		DATE (C) (D)		REVISION	



DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
		Ⓒ			Ⓐ
		Ⓑ			Ⓑ
ISSUE DATE: 2-6-2024	COMP. FILE NO.:	STATE PROJECT NO. 61418C	DESIGNER: C.J.R.	DRAWN BY: C.J.R.	REVIEWED BY: JSW
Consultant: GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317					
JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.					
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)			SHEET TITLE PLAN & ELEVATION - SHEET 4 OF 8		
PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN			PROJECT NO. B1-9		



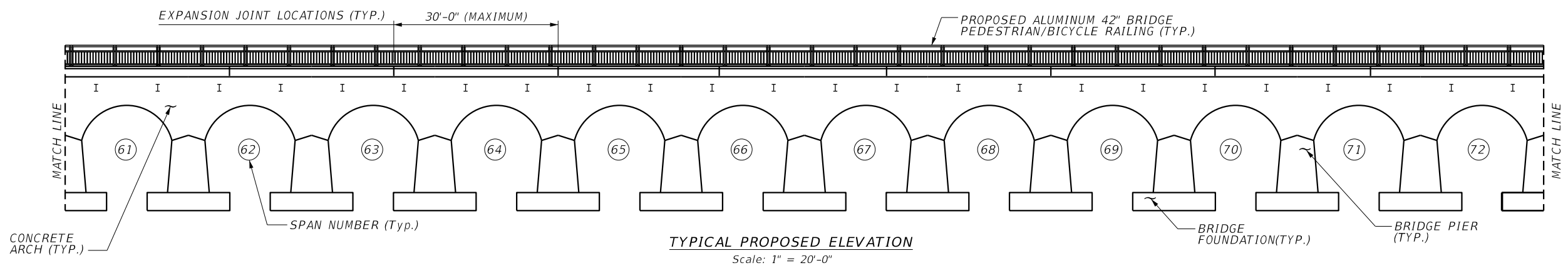
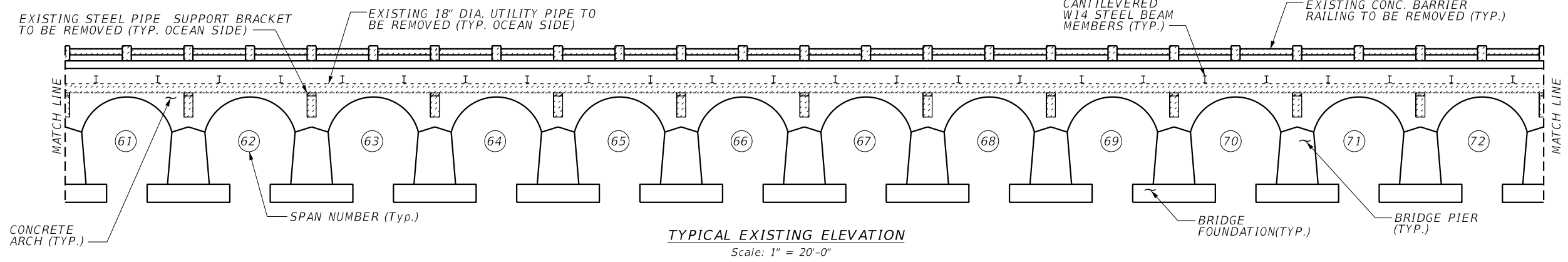
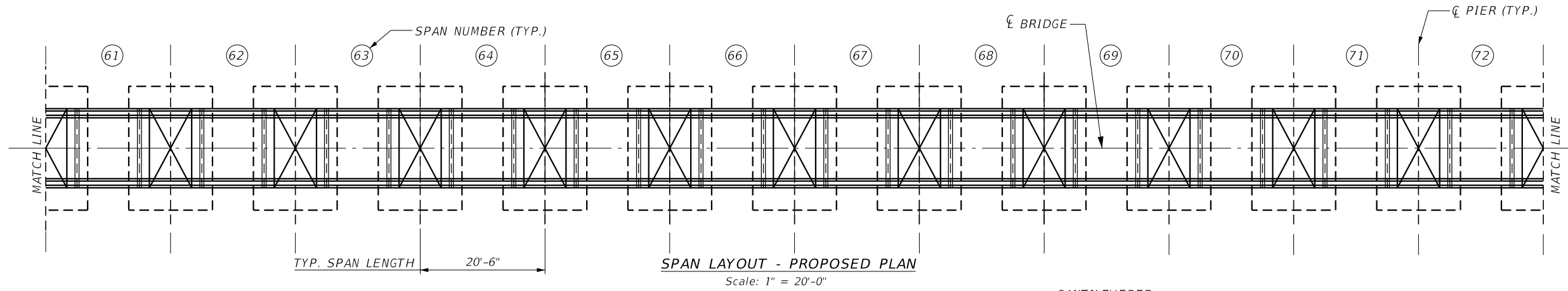
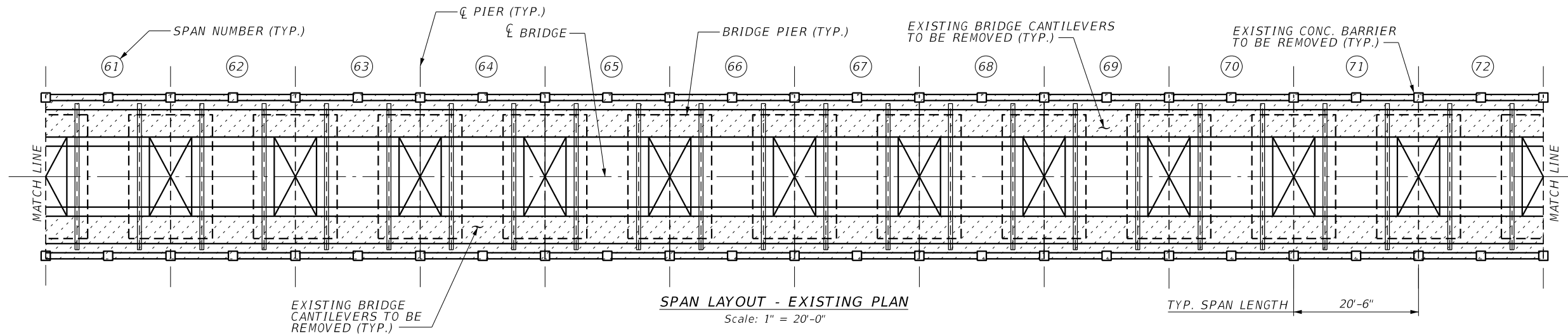
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)	
SHEET TITLE	PROJECT TITLE
PLAN & ELEVATION - SHEET 5 OF 8	SHARK CHANNEL BRIDGE REHABILITATION DESIGN
SHEET NO. B1-10	

DESIGNER : CJR	ISSUE DATE: 2-6-2024	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
DRAWN BY: CJR	COMP. FILE No.:	(A)			(B)		
REVIEWED BY: JSW	STATE PROJECT No. 61418C						

JOHN STEVEN WERES, P.E.
State of Florida, Professional Engineer, License No. 65243
This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.

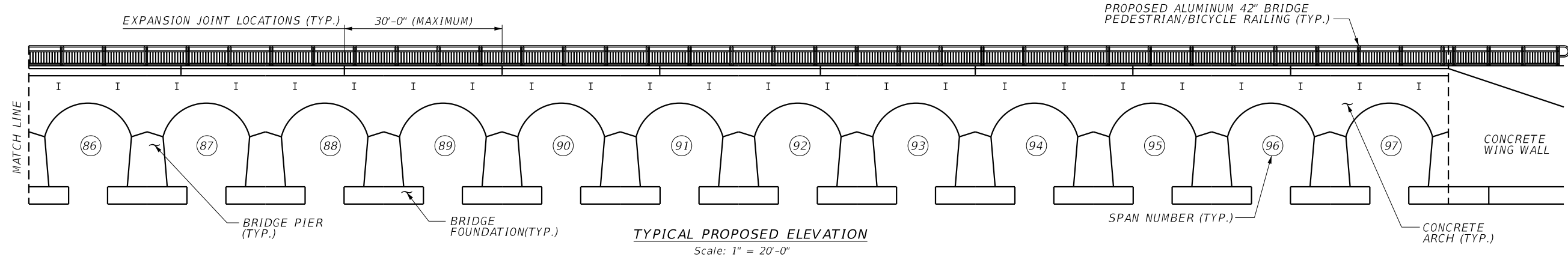
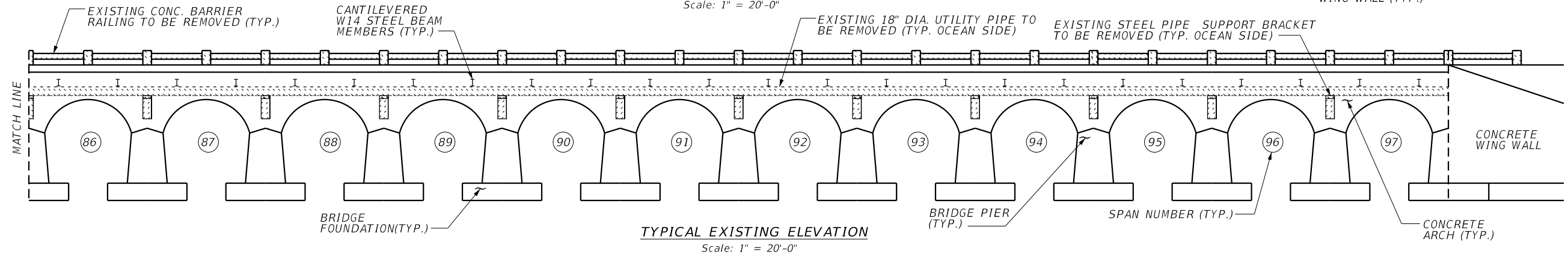
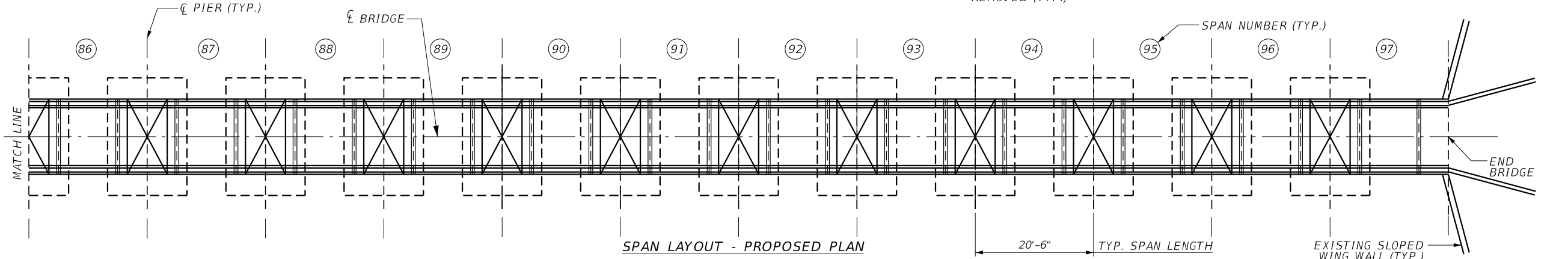
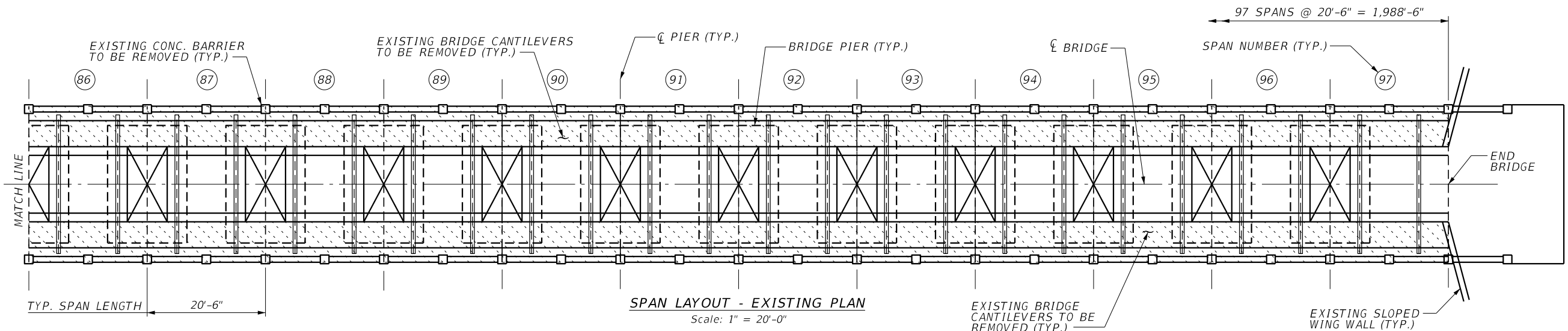
Consultant : GRESHAM SMITH
JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300



FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.		ISSUE DATE: 2-6-2024		SYMBOL		REVISION		DATE	
SHEET TITLE		DESIGNER : C.J.R.		COMP. FILE No.:		A		C			
PLAN & ELEVATION - SHEET 6 OF 8		REVIEWED BY: JSW		STATE PROJECT No. 61418C		B		D			
PROJECT TITLE		Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317		 Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300							
SHARK CHANNEL BRIDGE REHABILITATION DESIGN											
SHEET NO.		B1-11									

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300



FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)	
SHEET NO.	PROJECT TITLE
PLAN AND ELEVATION - SHEET 8 OF 8	SHARK CHANNEL BRIDGE REHABILITATION DESIGN
SHEET NO. B1-13	

DESIGNER : C.J.R.	ISSUE DATE: 2-6-2024	SYMBOL	REVISION	DATE
DRAWN BY: C.J.R. <td>COMP. FILE NO.:<td>(A)</td><td></td><td></td></td>	COMP. FILE NO.: <td>(A)</td> <td></td> <td></td>	(A)		
REVIEWED BY: JSW <td>STATE PROJECT NO. 61418C<td>(B)</td><td></td><td></td></td>	STATE PROJECT NO. 61418C <td>(B)</td> <td></td> <td></td>	(B)		

Consultant : GRESHAM SMITH
JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300

JOHN STEVEN WERES, P.E.
State of Florida, Professional Engineer, License No. 65243
This has been digitally signed and sealed by JOHN STEVEN WERES, P.E., on the date indicated here. Printed copies of this document are not considered signed and sealed, and the signatures must be verified by electronic copies.

Scale: $\frac{3''}{16} = 1'-0''$

NOTES:

REMOVAL OF THE EXISTING CONCRETE BARRIER RAIL, CURB, AND SLAB SHALL BE PER THE PLAN DETAILS SHOWN AND IN ACCORDANCE WITH THE DIRECTION OF THE ENGINEER.

THE CANTILEVERED PORTION OF THE W14 STEEL BEAM SHALL BE REMOVED TO THE FACE OF THE CONCRETE ARCH AS SHOWN. REMOVE AS MUCH OF THE CORRODED STEEL BEAM AS POSSIBLE WITHOUT REMOVING ADDITIONAL AREAS OF CONCRETE. COAT THE REMAINING STEEL BEAM SECTION WITH A CORROSION INHIBITOR IN ACCORDANCE WITH FDOT SPECIFICATIONS AND APPROVED ON THE APL.

THE 18" DIAMETER UTILITY PIPE AND STEEL SUPPORT BRACKET LOCATED ON THE OCEAN SIDE OF THE CONCRETE ARCH SHALL BE REMOVED. REMOVE EXISTING STEEL CORRODED PLATES AGAINST THE CONCRETE ARCH AND THE EXISTING CORRODED ANCHORS. PATCH AND REPAIR THE CONCRETE ARCH AS REQUIRED.

REMOVE ALL MISCELLANEOUS ITEMS INCLUDING BUT NOT LIMITED TO PREVIOUS ELECTRICAL EQUIPMENT AND WATERLINE PRESSURE VALVE(S) AS DIRECTED BY THE ENGINEER.

ENSURE THAT DURING REMOVAL, NO ADDITIONAL DAMAGE IS CAUSED TO THE REMAINING STEEL BEAM AND BRIDGE ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE BRIDGE DUE TO THE REMOVAL OF THE ITEMS SHOWN. REPAIRS SHALL BE AS DIRECTED BY THE ENGINEER.

INSTALL NEW CAST IN PLACE 1'-6"x1'-2" CONCRETE CURB BASE AGAINST THE EXISTING SLAB AND ARCH. INTERFACE SURFACE BETWEEN THE EXISTING ARCH AND PROPOSED CONCRETE SHALL BE PREPARED IN ACCORDANCE WITH FDOT SPECIFICATIONS. INSTALL THE NEW REINFORCING PRIOR TO PLACEMENT OF NEW CONCRETE. BAR B01 SHALL BE DRILLED AND GROUTED INTO THE EXISTING ARCH AS SHOWN IN THE PLANS. ANCHOR RODS SHALL BE SET IN NEW CONCRETE.

THE EXISTING CONCRETE SLAB AND ARCH SHALL BE REPAIRED AS REQUIRED AND AS DIRECTED BY THE ENGINEER TO ENSURE THE NEW CAST IN PLACE CURB BASE SITS PROPERLY.

INSTALL A 1" LEVELING PAD AGAINST THE NEW 1'-6"x1'-2" CURB BASE AT THE RAILING POST LOCATIONS.

USE EXTREME CARE WHEN REMOVING ASPHALT FROM THE EXISTING BRIDGE DECK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.

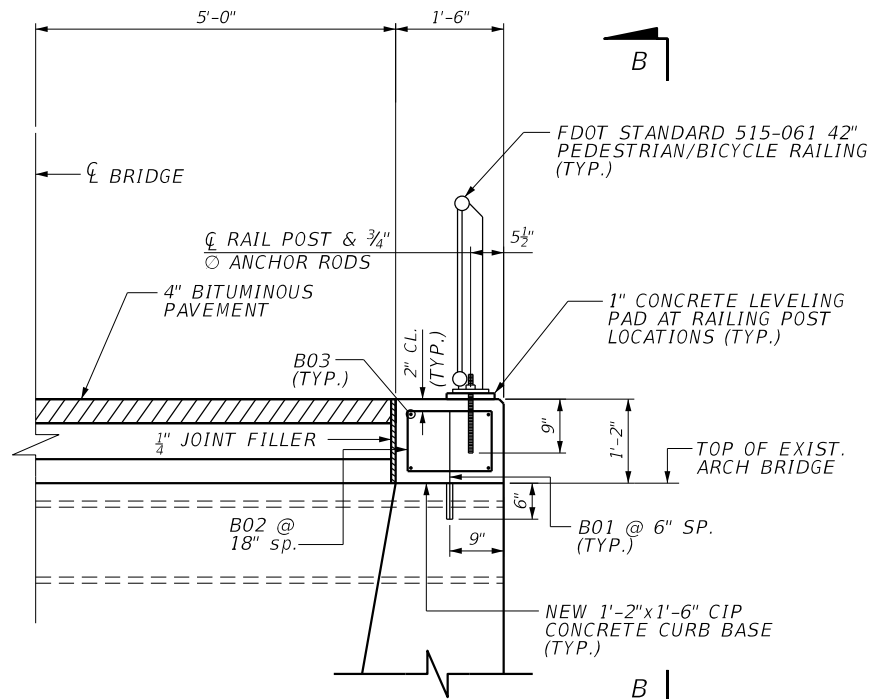
TYPICAL SECTION - PROPOSED

Scale: $\frac{3''}{16} = 1'-0''$

PROPOSED PAVEMENT DETAILS

Scale: $3'' = 1'-0''$

SHEET NO.		FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E., on the date indicated here. Printed copies of this document are not considered signed and sealed and the signatures must be verified on their electronic copies.		DESIGNER : CJR DRAWN BY: CJR REVIEWED BY: JSW Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317		ISSUE DATE: 2-6-2024 COMP. FILE No.: STATE PROJECT No: 61418C		SYMBOL (A) (B)		REVISION		DATE	
SHEET TITLE		TYPICAL SECTION & PAVEMENT DETAILS								SYMBOL (C) (D)					
PROJECT TITLE		SHARK CHANNEL BRIDGE REHABILITATION DESIGN													
Department of Environmental Protection Office of Design and Construction Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300															



SIDE WALL ELEVATION

Scale: $\frac{3}{8}$ " = 1'-0"

NOTE: MIRRORED ABOUT CL OF BRIDGE

NOTES:

INSTALL NEW CAST IN PLACE 1'-6"x1'-2" CONCRETE CURB BASE AGAINST EXISTING SLAB AND ARCH. INSTALL THE NEW REINFORCING PRIOR TO PLACEMENT OF NEW CONCRETE. BAR B01 SHALL BE DRILLED AND GROUTED INTO THE EXISTING ARCH AS SHOWN IN THE PLANS. THE GROUT SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS AND APPROVED BY THE ENGINEER. THE EMBEDMENT REQUIRED FOR BAR B01 SHALL BE PER PLAN AND/OR PER THE GROUT MANUFACTURERS RECOMMENDATION. BAR B01 SHALL BE TIED TO BAR B02.

SPACING OF BAR B01 MAY BE ADJUSTED AS REQUIRED AT LOCATIONS THAT CONFLICT WITH THE EXISTING STEEL BEAM.

ANCHOR RODS SHALL BE SET IN NEW CONCRETE.

BAR B01 SHALL BE IN ACCORDANCE WITH ASTM A775 OR SSPC PAINT 20.

THE EXISTING CONCRETE SLAB AND ARCH SHALL BE REPAIRED AS REQUIRED AND AS DIRECTED BY THE ENGINEER TO ENSURE THE NEW CAST IN PLACE CURB BASE SITS PROPERLY ON TOP OF THE CONCRETE ARCH SPANDREL WALL.

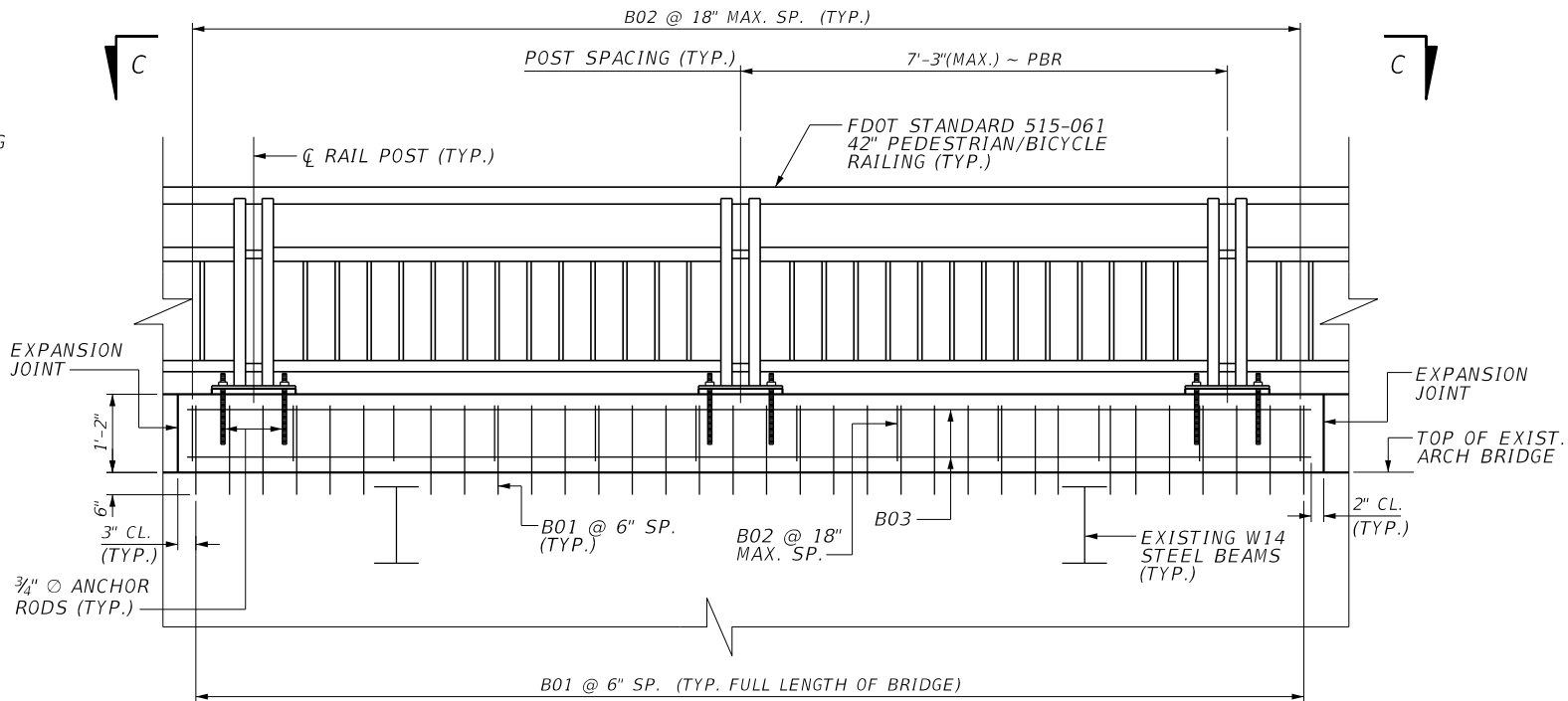
INTERFACE SURFACE BETWEEN EXISTING ARCH AND PROPOSED CONCRETE SHALL BE PREPARED IN ACCORDANCE WITH FDOT SPECIFICATIONS.

INSTALL A 1" LEVELING PAD AGAINST THE NEW 1'-6"x1'-2" CURB BASE AT THE RAILING POST LOCATIONS.

CONCRETE EXPANSION JOINTS SHALL BE PLACED AT A 30'-0" MAXIMUM SPACING AND IN ACCORDANCE WITH FDOT STANDARD INDEX 515-061 42".

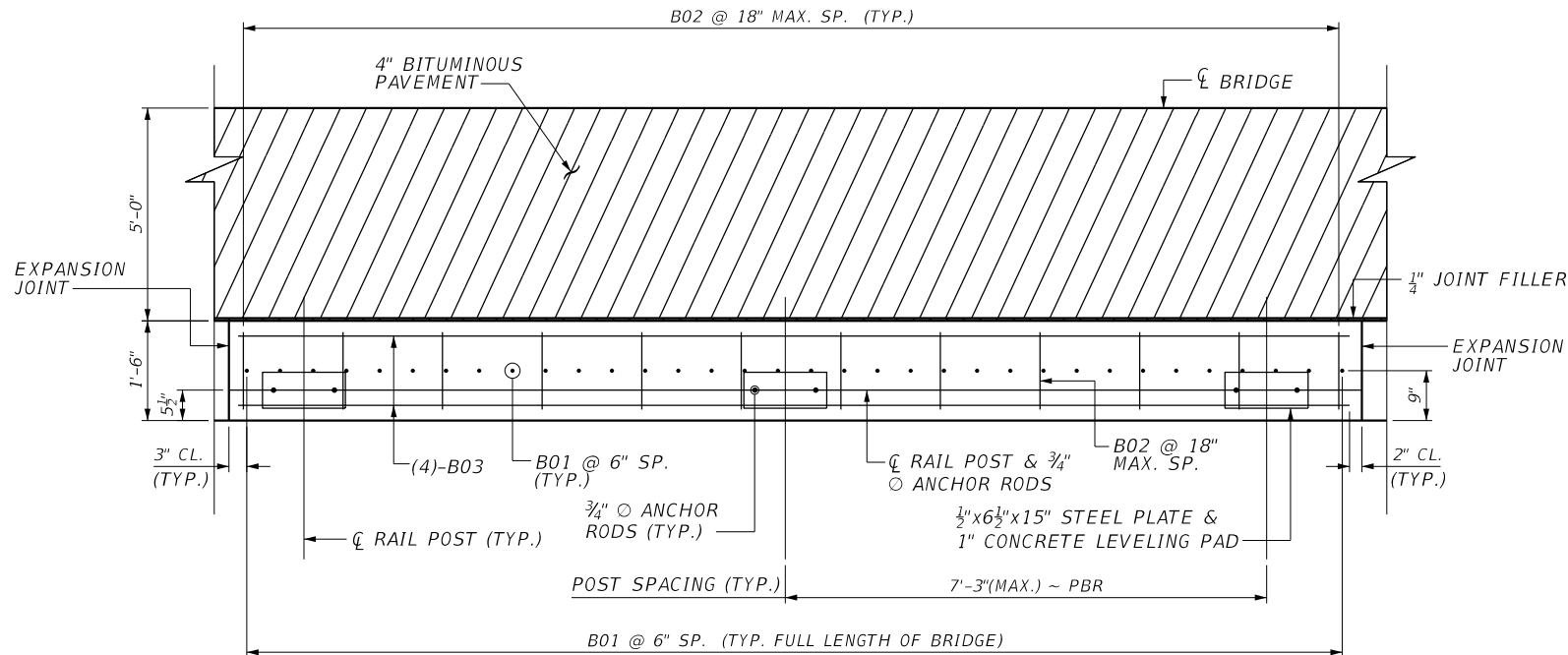
THE JOINT FILLER MATERIAL SHALL BE PLACED ADJACENT TO THE NEW 1'-2"x1'-6" CIP CURB BASE AS SHOWN IN THE PLANS. THE MATERIAL SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS AND APPROVED BY THE ENGINEER.

THE JOINT FILLER MATERIAL SHALL BE CONSIDERED SUBSIDIARY TO CLASS IV CONCRETE SUPERSTRUCTURE.



VIEW B-B

Scale: N.T.S.



VIEW C-C

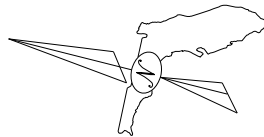
Scale: N.T.S.

(RAILING NOT SHOWN)

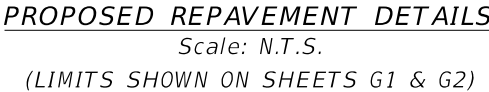
NOTE: MIRRORED ABOUT CL OF BRIDGE

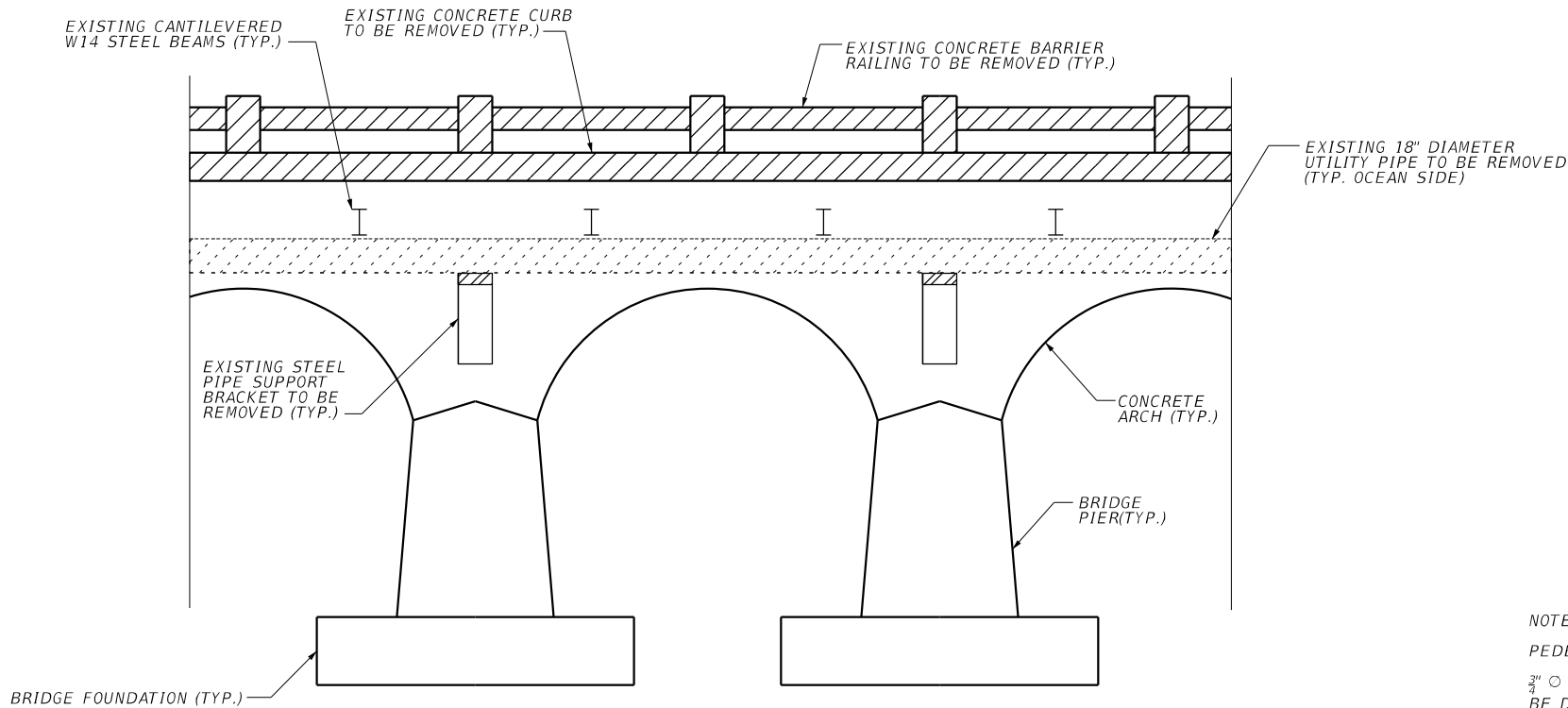
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been originally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.		CONSULTANT : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317				Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300	
SHEET TITLE SIDE WALL DETAILS		DESIGNER : CJR DRAWN BY: CJR REVIEWED BY: JSW		ISSUE DATE: 2-6-2024 COMP. FILE No.: STATE PROJECT No: 61418C		SYMBOL A B		DATE REVISION	
PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN									
SHEET NO.									

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300



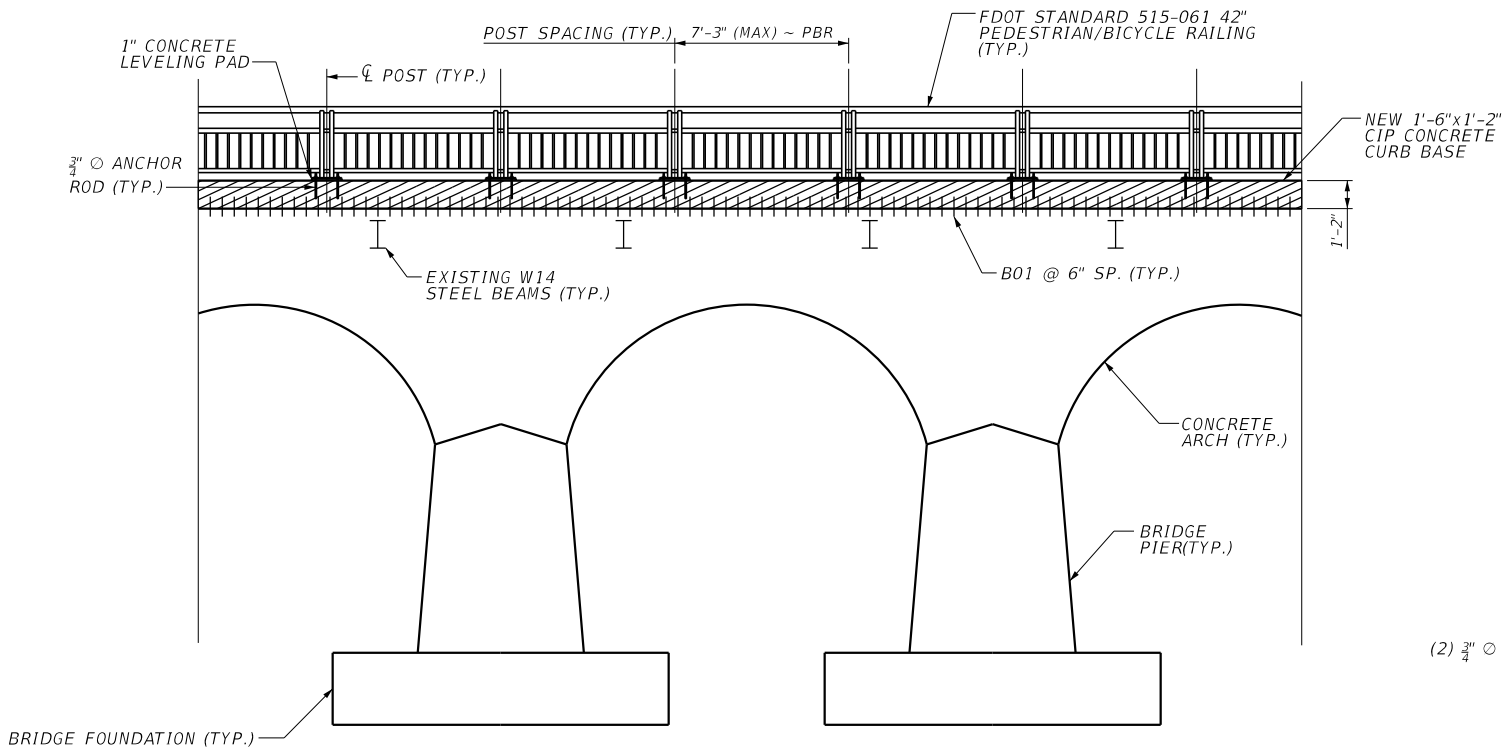
NOTE: SIZE OF PROPOSED REPAIRS ARE ESTIMATED





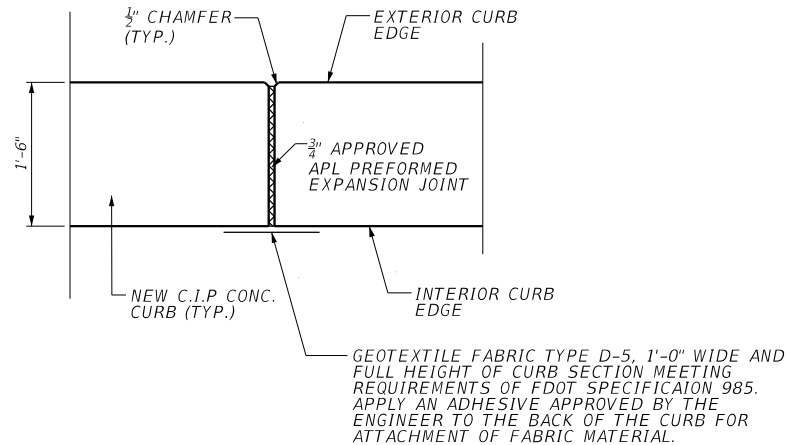
TYPICAL BRIDGE ELEVATION - EXISTING

Scale: $\frac{1}{8}$ " = 1'-0"



TYPICAL BRIDGE ELEVATION - PROPOSED

Scale: $\frac{1}{8}$ " = 1'-0"



EXPANSION JOINT DETAIL

(SEE DWG. NO. B1-6 THRU B1-13 FOR LOCATIONS)

Scale: 1" = 1'-0"

NOTES:

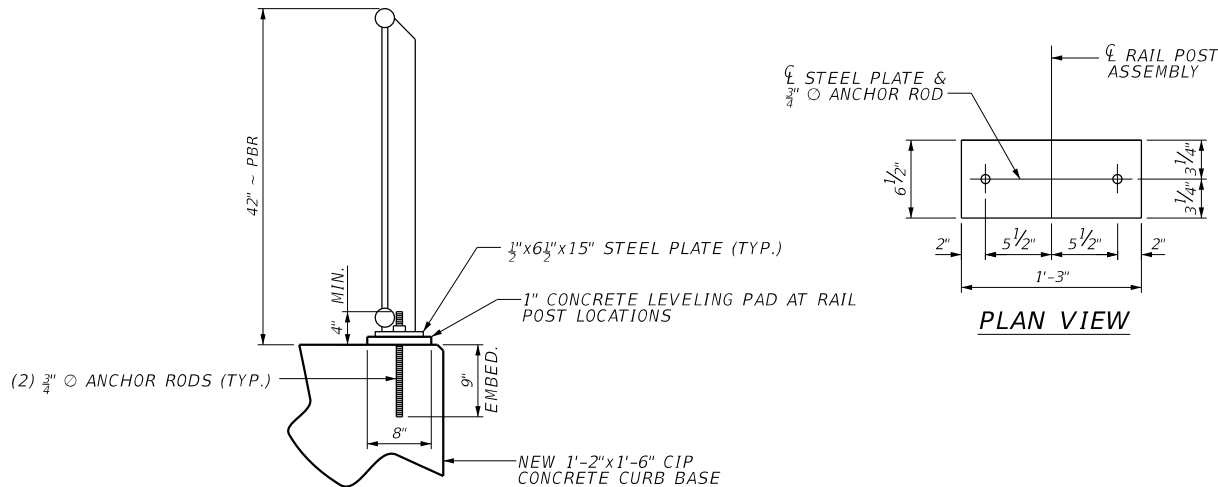
PEDESTRIAN/BICYCLE RAILING SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 515-061 42".

$\frac{3}{4}$ " $\varnothing$ ANCHOR RODS SHALL BE SET INTO THE NEW CAST IN PLACE 1'-2"x1'-6" CURB BASE. BAR B01 SHALL BE DRILLED AND GROUTED INTO THE EXISTING CONCRETE ARCH. THE GROUT SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS AND APPROVED BY THE ENGINEER. THE EMBEDMENT REQUIRED FOR BAR B01 SHALL BE PER PLAN AND/OR PER THE GROUT MANUFACTURERS RECOMMENDATION.

CONCRETE EXPANSION JOINTS SHALL BE PLACED AT A 30'-0" MAXIMUM SPACING AND IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 515-061 42". EXPANSION JOINT MATERIAL AND ANY ADDITIONAL MATERIALS REQUIRED FOR THE CONCRETE EXPANSION JOINTS SHALL BE CONSIDERED SUBSIDIARY TO CLASS IV CONCRETE SUPERSTRUCTURE.

ANCHOR RODS, STEEL PLATES, CONCRETE LEVELING PADS AND ANY ADDITIONAL MATERIALS REQUIRED FOR THE PEDESTRIAN/BICYCLE RAILING SHALL BE CONSIDERED SUBSIDIARY TO PEDESTRIAN/BICYCLE RAILING, ALUMINUM ONLY, 42" TYPE I.

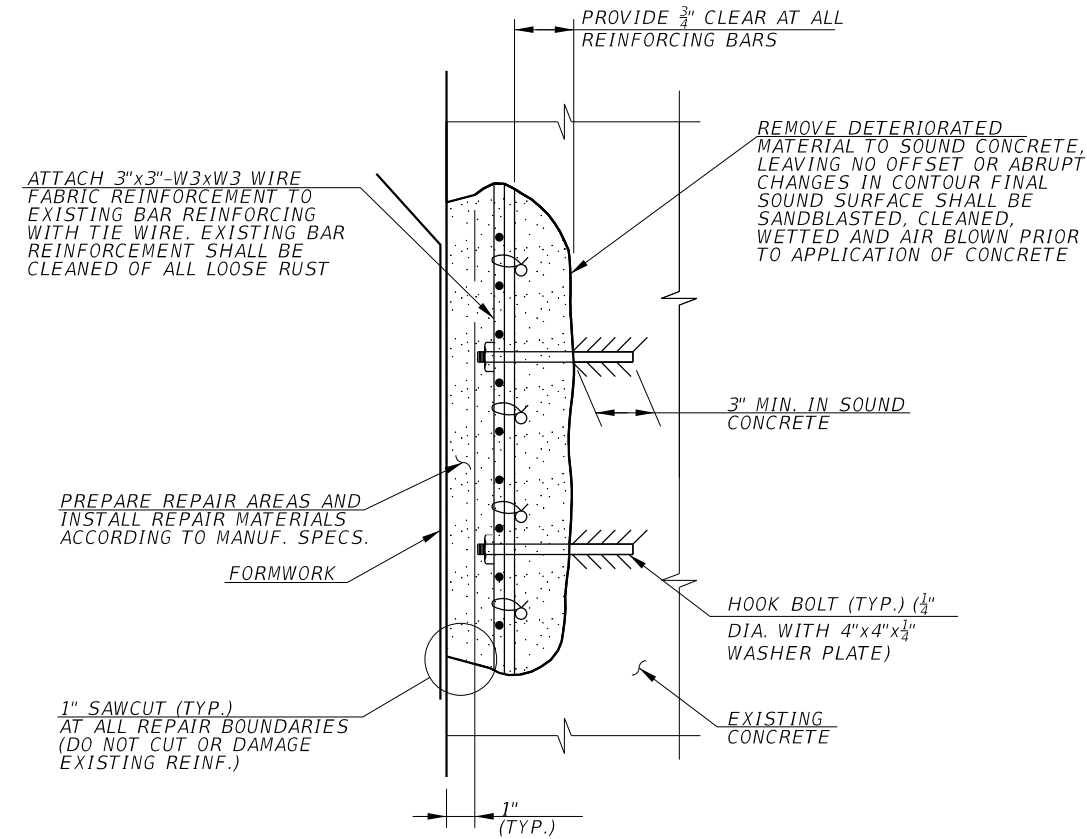
ESTIMATED STRUCTURAL STEEL QUANTITIES		
ITEM	UNIT	QUANTITY
ANCHOR RODS & ASSEMBLY	LB	2,100
STEEL PLATES	LB	7,797



TYPICAL SECTION THROUGH PEDESTAL MOUNTED RAILING

Scale: $\frac{1}{16}$ " = 1'-0"

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300					
ISSUE DATE: 2-6-2024 COMP. FILE NO.: STATE PROJECT NO. 61418C					
DESIGNER: C.J.R. DRAWN BY: C.J.R. REVIEWED BY: J.S.W.					
Consultant: GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317					
JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not valid unless the digital signature and the seal are verified on any electronic copies.					
FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)					
SHEET TITLE TYPICAL BRIDGE ELEVATION					
PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN					
SHEET NO. B1-17					



CONCRETE REPAIR DETAIL

SCALE: N.T.S.

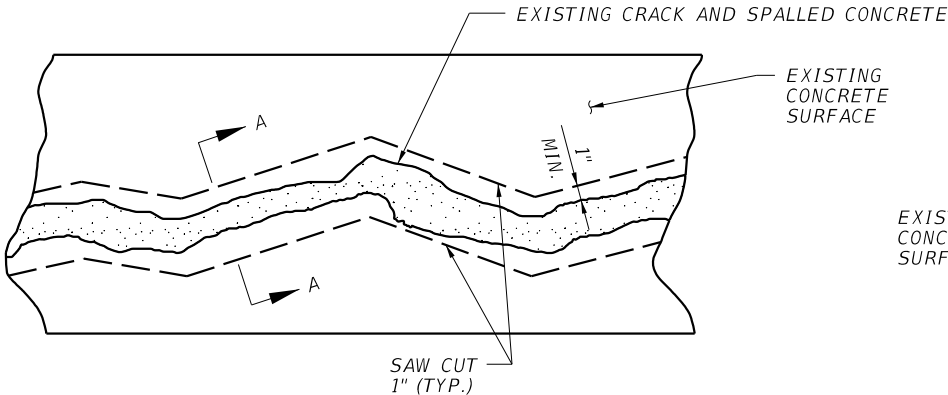
CONCRETE REPAIR GENERAL PREPARATION

SAW CUT EDGE OF EFFECTED AREA USING A STRAIGH EDGED REGULAR SHAPED PATTERN. CHIP ALL CONCREETE TO SOUND CONCRETE TO BOUNDARY EDGES. IF PRESENT, CLEAN ALL EXPOSED STEEL AND REMOVE LOOSE RUST USING HAND TOOLS. SAND BALSTING IS THE PREFERRED METHOD. (SANDBLAST TO WHITE METAL)

COAT EXPOSED EXIST. CONC. & STEEL WITH BASF CONCRESE LIQUID LPL BOND COAT. PATCH AREA USING BASF EMACO 66 S CI STRUCTURAL REPAIR CONCRETE. CURE PER MANUFACTURER'S RECOMMENDATIONS. IF ANODES ARE USED, BAR COATING IS NOT REQUIRED.

IF CORROSION OF REINFORCING IS OBSERVED, NOTIFY ENGINEER.

IF NO REINFORCING IS PRESENT, THE MAXIMUM SIZE REPAIR IS 4 SQ. FT. FOR LARGER AREAS, NOTIFY ENGINEER.



DETAIL SHOWING CRACKED CONCRETE SURFACE TO BE REPAIRED

NOTE: THE CONTRACTOR MAY OBTAIN A LIST OF ACCEPTABLE BRANDS OF EPOXY CONCRETE FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TEST.

SPECIAL NOTES FOR EPOXY INJECTION

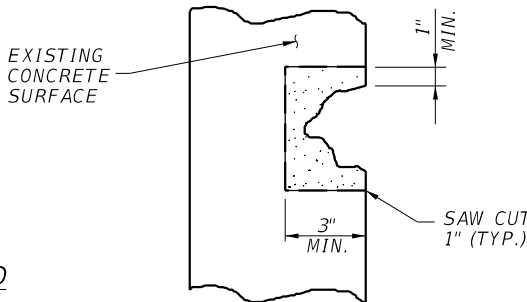
NOTE: UNLESS OTHERWISE NOTED, THE INTENT OF THIS SPECIFICATION IS FOR DESIGNATED CRACKS TO BE INJECTED THEIR FULL LENGTH AND DEPTH.

NOTE: DESIGNATED CRACKS SHALL BE INJECTED WITH AN APPROVED EPOXY RESIN ADHESIVE FILLING ALL VOIDS FOR THE CRACK DEPTH OR THICKNESS OF THE MEMBER. THE EPOXY RESIN ADHESIVE SHALL BE ON THE CURRENT QUALIFIED PRODUCTS LIST MAINTAINED BY THE DIVISION OF MATERIALS AND TEST. ALL CRACKS SHALL BE INJECTED USING AN ADHESIVE SUITABLE FOR THE FIELD CONDITIONS (CRACK WIDTH, TEMPERATURE, HUMIDITY, ETC.) RECOMMENDED BY THE ADHESIVE MANUFACTURER AS SHOWN ON MATERIAL DATA SHEETS. FOLLOWING INJECTION, ALL INJECTION PORTS AND CAPPING MATERIAL SHALL BE REMOVED FROM EXPOSED SURFACES LEAVING THE SURFACE SMOOTH AND FLUSH WITH THE SURROUNDING CONCRETE SURFACES.

NOTE: THE CONTRACTOR SHALL HAVE SUFFICIENT EXPERIENCE AND TRAINING TO PERFORM THE EPOXY INJECTION IN ACCORDANCE WITH THESE PLANS. PRIOR TO PERFORMING ANY WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A WRITTEN PROCEDURE FOR PERFORMING THE EPOXY INJECTION. THE PROCEDURE SHALL DESCRIBE IN DETAIL HOW THE WORK WILL BE PERFORMED. THE PROCEDURE SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING INFORMATION.

- 1) DESCRIPTION OF EQUIPMENT.
 - A. THE INJECTION EQUIPMENT SHALL BE OF THE TYPE THAT MIXES ADHESIVE COMPONENTS AT THE INJECTION HEAD.
 - B. THE INJECTION EQUIPMENT SHALL BE CAPABLE OF DISCHARGING MIXED ADHESIVE AT ANY PRESSURE UP TO 300 PSI. THE INJECTION EQUIPMENT SHALL BE EQUIPPED WITH GAUGES WHICH CAN MEASURE THE INJECTION PRESSURE AND VOLUME.
- 2) EQUIPMENT CALIBRATION PROCEDURES AND SCHEDULE.
- 3) MATERIALS TO BE USED (INCLUDING MANUFACTURER DATA SHEETS).
 - A. CAPPING MATERIAL
 - B. EPOXY ADHESIVE (TYPE TO BE APPROPRIATE FOR CRACK SIZES TO BE INJECTED).
- 4) PORT SPACING
 - A. PORT SPACING SHALL NOT BE LESS THAN THE THICKNESS OF THE CONCRETE IN THAT LOCATION.
- 5) INJECTION SEQUENCE
 - A. INJECTION SHALL PROCEED FROM LOWER END OF CRACK ALONG ADJACENT PARTS.
 - B. SKIPPING OF PORTS DURING INJECTION SHALL NOT BE ALLOWED.

NOTE: THE CONTRACTOR SHALL HAVE THE MANUFACTURER'S INSTRUCTIONS FOR PROPORTIONING AND MIXING AVAILABLE AT THE JOB SITE AT ALL TIMES AND SHALL ENSURE THAT THE EQUIPMENT IS SUPPLYING THE MIXED ADHESIVE IN THE CORRECT PROPORTIONS.



SECTION A-A

NOTE: TO ENSURE PROPER MIXING AND PROPORTIONING, SAMPLES SHALL BE TAKEN AT THE START OF EACH WORKDAY AND EACH TIME THE ADHESIVE RESERVOIRS ARE REFILLED. THE SAMPLES SHALL BE IN A TEST CUP. THE SAMPLE SHALL BE MONITORED TO ENSURE THAT THE CURE TIME IS IN COMPLIANCE WITH THE MANUFACTURER'S DATA SHEETS. IF THE SAMPLES DO NOT CURE IN THE SPECIFIED TIME THEN THE EQUIPMENT USED TO PRODUCE THE SAMPLE SHALL NOT BE USED UNTIL THE PROBLEM IS CORRECTED.

NOTE: CORE SAMPLES SHALL BE TAKEN AS VERIFICATION OF THE QUALITY OF WORK. THE CONTRACTOR SHALL TAKE ONE (1) ONE (1) INCH DIAMETER (FULL DEPTH OF CONCRETE AT LOCATION CORED) CORE SAMPLE STARTING WITH THE FIRST REPAIR LOCATION THEN EVERY THIRD REPAIR LOCATION AFTERWARDS (DESIGNER: MAY NOT NEED EVERY THIRD LOCATION-DEPENDS ON HOW MUCH INJECTION WILL BE DONE) WORK SHALL NOT PROCEED UNTIL THE CORE SAMPLE IS TAKEN AND ACCEPTED. ALL CORE SAMPLES AND HOLES SHALL BE INDEXED FOR FUTURE REFERENCE. THE ENGINEER SHALL DESIGNATE ALL LOCATIONS TO BE CORED. IF ANY CORES SHOW UNACCEPTABLE RESULTS, ALL WORK SHALL BE STOPPED UNTIL THE CONTRACTOR SUBMITS A PROPOSAL FOR CORRECTING UNACCEPTABLE WORK.

NOTE: THE INITIAL CORE WILL ALSO SERVE TO QUALIFY THE FOREMAN FOR THIS WORK. IF AT ANY TIME A NEW FOREMAN IS USED, HE SHALL BE QUALIFIED WITH A CORE SAMPLE.

NOTE: THE CONTRACTOR, AT HIS EXPENSE, SHALL REPAIR ALL CORE HOLES WITH AN APPROVED CEMENTITIOUS PATCHING MATERIAL.

NOTE: CORE SAMPLES SHALL BE VISUALLY INSPECTED TO CONFIRM THAT CRACKS ARE COMPLETELY FILLED WITH ADHESIVE. ANY CORE HAVING LESS THAN 95% OF THE CRACK FILLED WITH ADHESIVE SHALL BE CONSIDERED UNACCEPTABLE AND BE REJECTED.

NOTE: CORE SAMPLES SHALL BE TESTED FOR BOND STRENGTH. SAMPLES MAY BE FRACTURED BY HAMMER BLOW TO CRACK AREA OR THROWN AT A HARD SURFACE. IF ADHESIVE FAILURE OCCURS BEFORE CONCRETE FAILURE, THE CORE SHALL BE CONSIDERED UNACCEPTABLE AND REJECTED.

NOTE: NO PAYMENT SHALL BE MADE FOR REWORK DEEMED NECESSARY BY FAILURE OF ADHESIVE SAMPLES OR CORE SAMPLES.

NOTE: ALL WORK INCLUDING SAMPLING AND TESTING SHALL BE IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE OR CONTRACT INSPECTORS. ANY WORK DONE WITHOUT INSPECTORS PRESENT SHALL NOT BE PAID FOR. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WEEKLY SCHEDULES OF WORK TO BE PERFORMED. SCHEDULES SHALL BE SUBMITTED AT LEAST THREE (3) DAYS IN ADVANCE OF WORK TO BE DONE. THE ENGINEER SHALL BE NOTIFIED OF ANY CHANGE IN THE SCHEDULE A MINIMUM OF TWENTY-FOUR (24) HOURS IN ADVANCE OF CHANGE.

FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		JOHN STEVEN WERES, P.E. State of Florida, Professional Engineer, License No. 65243 This has been digitally signed and sealed by JOHN STEVEN WERES, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.		DESIGNER : BGW		ISSUE DATE: 2-6-2024		SYMBOL		REVISION		DATE	
				DRAWN BY: BGW		COMP. FILE No.:		SYMBOL		REVISION		DATE	
SPALL REPAIR AND CRACK REPAIR DETAILS		PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN		REVIEWED BY: JSW		STATE PROJECT No.:61418C		SYMBOL		REVISION		DATE	
								SYMBOL		REVISION		DATE	
SHEET NO.		B1-18		 Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317 Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300									

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300



MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION						SUPERSTRUCTURE														NO. REQUIRED = 1													
6	B01	1- 6		7,952	1			1- 0																									
4	B02	4- 9		2,650	4	4 ¹ / ₂	4 ¹ / ₂	0- 10		1- 2																							
5	B03	29- 4		536	1			29- 4																									
LOCATION						APPROACH SLAB RAILING														NO. REQUIRED = 2													
4	B04	2- 8		48	1			2- 8																									
4	B05	15- 1		28	1			15- 1																									
4	B06	2- 4		32	11			0- 4		1- 0		1- 0																					

END OF LIST

NOTES:

WORK THIS SHEET WITH FDOT STANDARD PLANS INDEX 415-001.

FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)

SHEET TITLE

REINFORCEMENT BAR LIST

PROJECT TITLE

SHARK CHANNEL BRIDGE REHABILITATION DESIGN

DESIGNER : CJR

DRAWN BY: CJR

REVIEWED BY: JSW

ISSUE DATE: 2-6-2024

COMP. FILE No.:

STATE PROJECT No.: 61418C

JOHN STEVEN WERES, P.E.
State of Florida, Professional
Engineer, License No. 65243
This has been digitally
signed and sealed by JOHN
STEVEN WERES, P.E. on the
date indicated here. Printed
copies of this document are
not considered signed and
sealed and the signatures must
be verified on any electronic
copies.

GRESHAM SMITH
JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317

SYMBOL

DATE

REVISION

SYMBOL

DATE

REVISION

U

B

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300

SHEET NO.

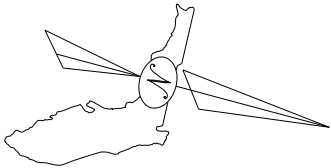
B1-20



EXISTING ELEVATION VIEW OF SPAN NO(S). 1 THRU 12
(LIDAR SCAN-OCEAN SIDE)



EXISTING PLAN VIEW OF SPAN NO(S). 1 THRU 12
(LIDAR SCAN)



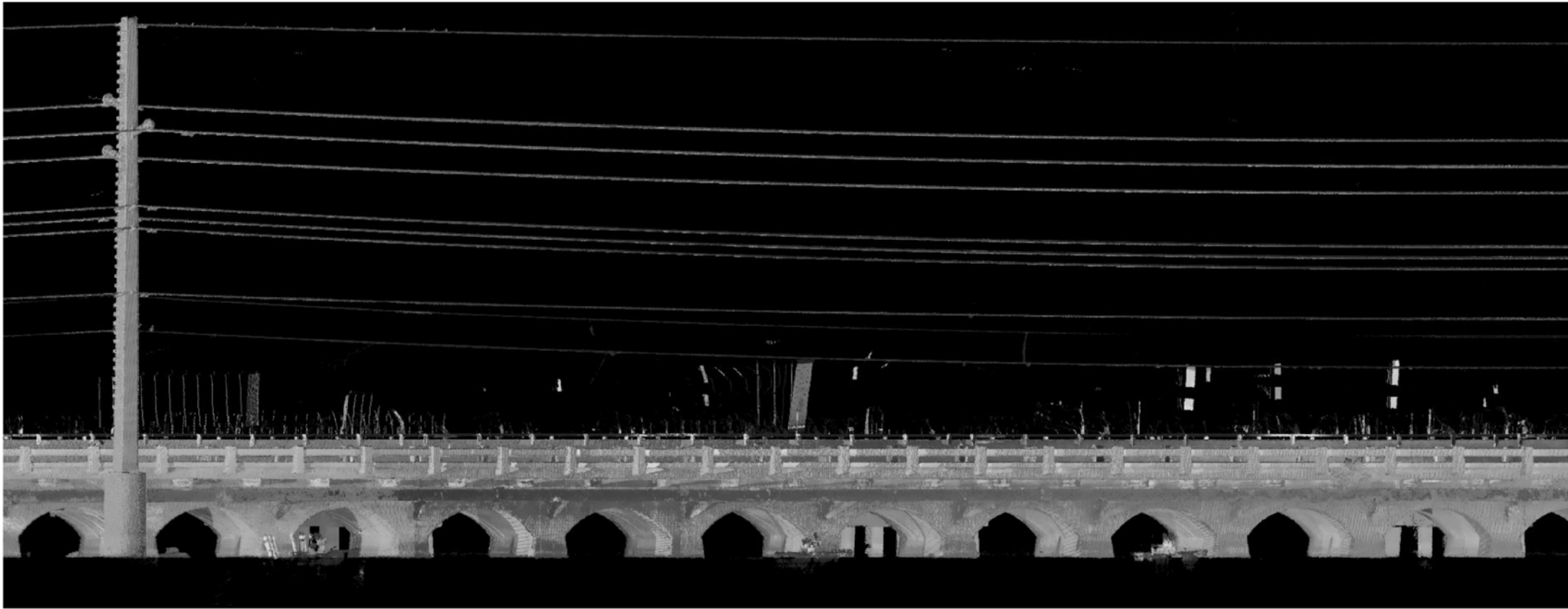
JOHN STEVEN WERES, P.E.
State of Florida, Professional
Engineer, License No. 65243
This has been digitally
signed and sealed by JOHN
STEVEN WERES, P.E. on the
date indicated here. Printed
copies of this document are not
valid. The signed and sealed
and the signed and sealed
verified on any electronic
copies.

DESIGNER : C.J.R.
DRAWN BY: C.J.R.
REVIEWED BY: JSW

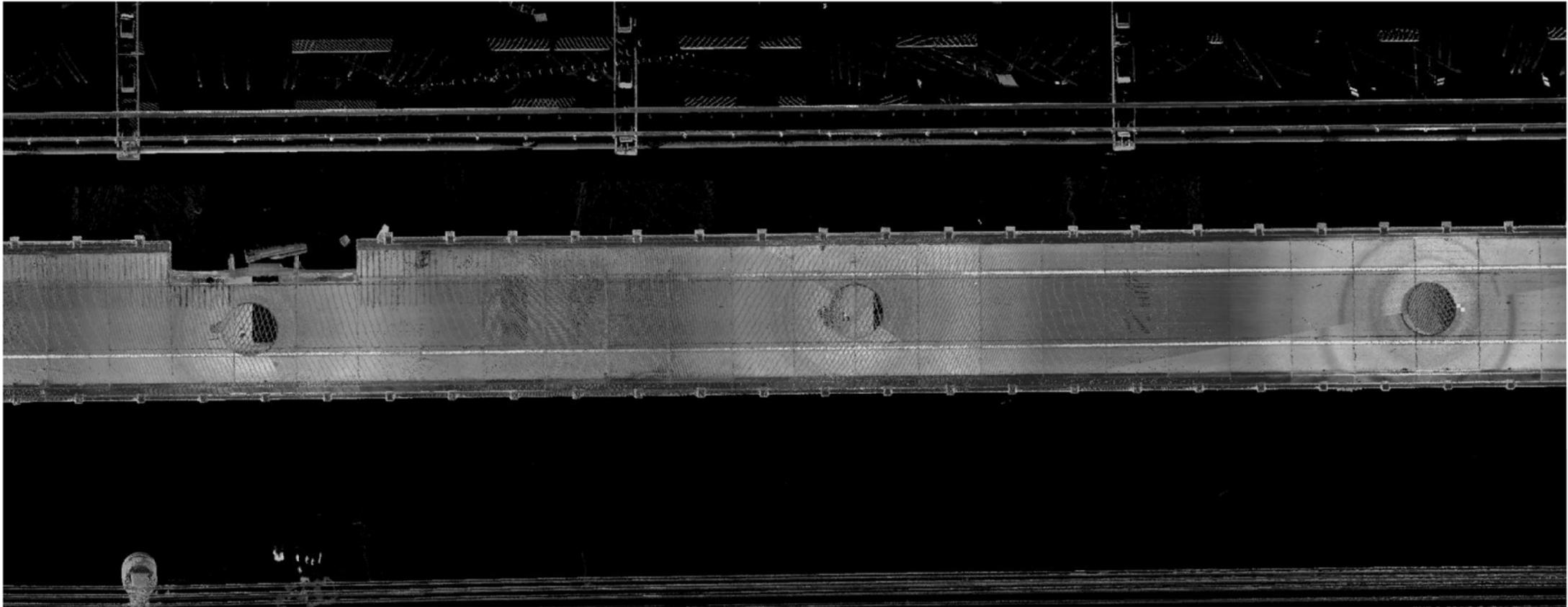
ISSUE DATE: 2-6-2024
COMP. FILE NO.:
STATE PROJECT No. 61418C

SYMBOL
SYMBOL
DATE
DATE
REVISION
REVISION

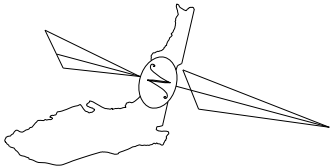
Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300



EXISTING ELEVATION VIEW OF SPAN NO(S). 13 THRU 24
(LIDAR SCAN-OCEAN SIDE)



EXISTING PLAN VIEW OF SPAN NO(S). 13 THRU 24
(LIDAR SCAN)



SHEET NO.

B1-22

FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)

SHEET TITLE
LIDAR SCANS - SHEET 2 OF 8

PROJECT TITLE
SHARK CHANNEL BRIDGE REHABILITATION DESIGN

JOHN STEVEN WERES, P.E.
State of Florida, Professional
Engineer, License No. 65243
This has been digitally
signed and sealed by JOHN
STEVEN WERES, P.E. on the
date indicated here. Printed
copies of this document sealed
and the signatures must be
verified on any electronic
copies.

DESIGNER : CJR

DRAWN BY: CJR

REVIEWED BY: JSW

Consultant : GRESHAM SMITH
JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317

ISSUE DATE: 2-6-2024

COMP. FILE No:

STATE PROJECT No.61418C

SYMBOL

(A)

(B)

REVISION

DATE

SYMBOL

(C)

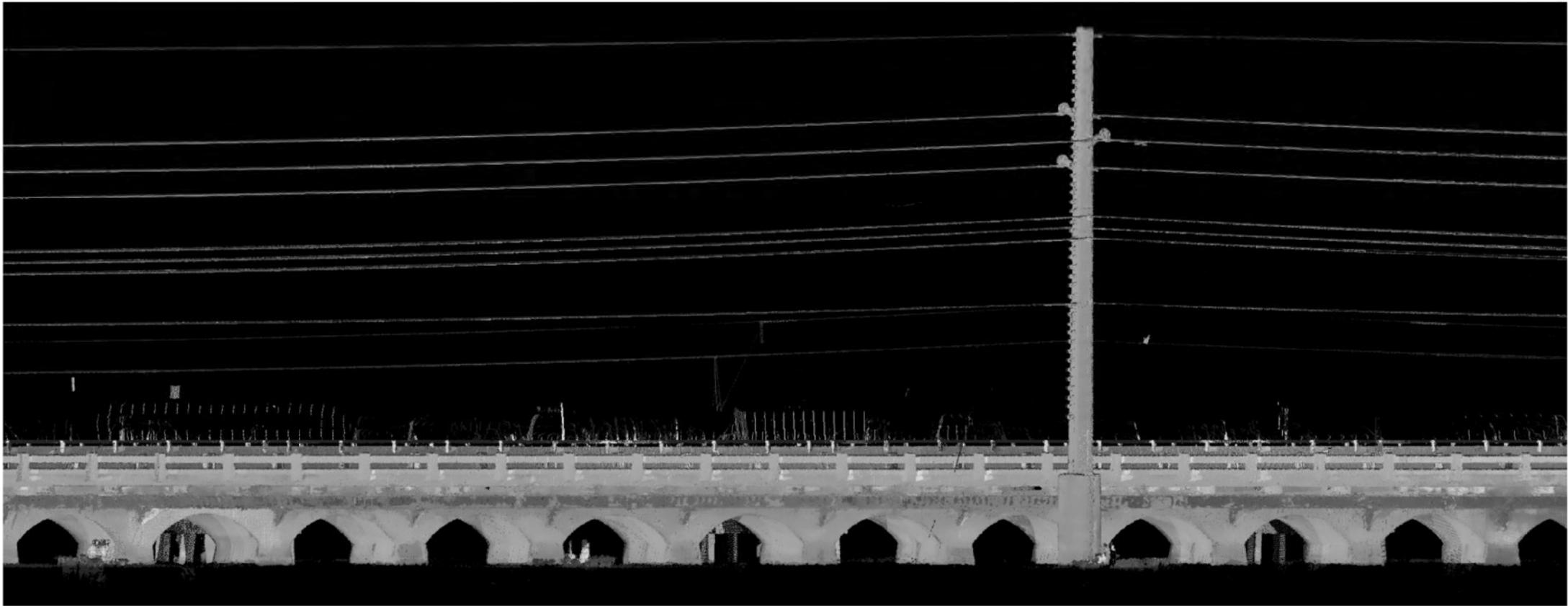
(D)

REVISION

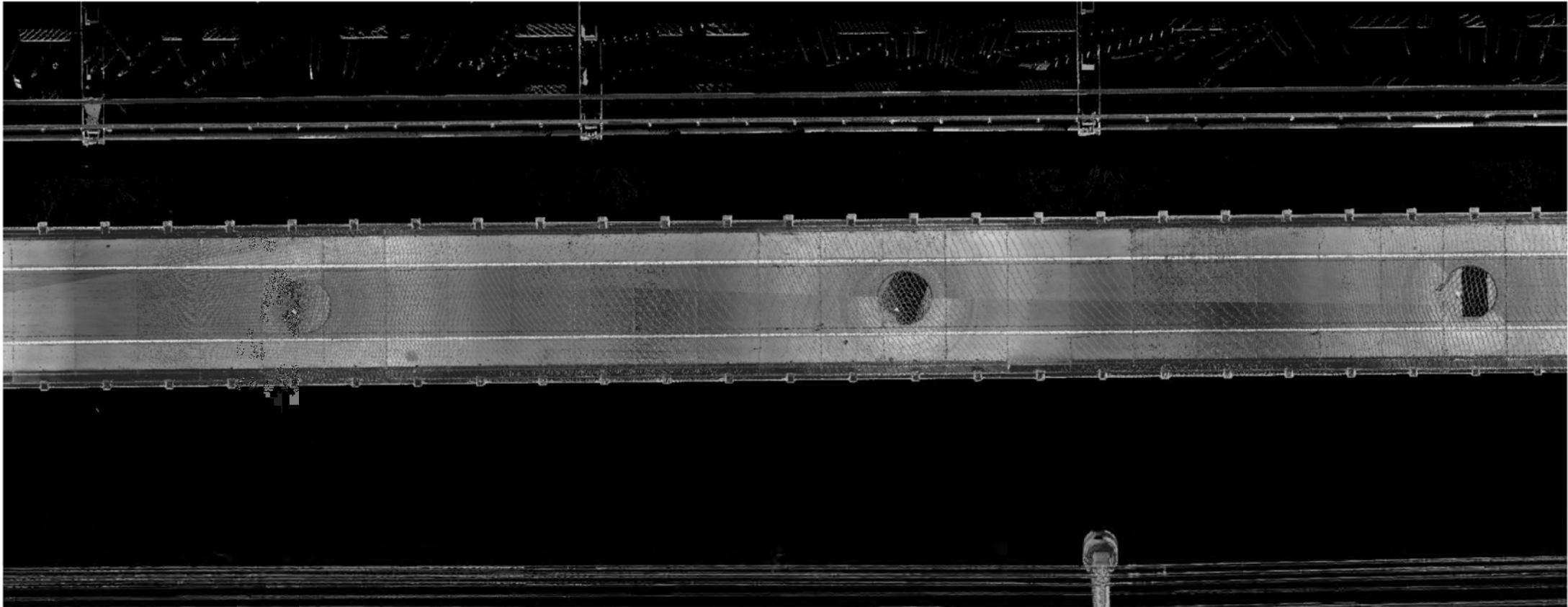
DATE

Department of Environmental Protection
Office of Operations
Bureau of Design and Construction

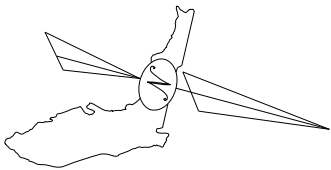
3800 Commonweath Blvd., Tallahassee, FL 32399 (850) 426-2300



EXISTING ELEVATION VIEW OF SPAN NO(S). 25 THRU 36
(LIDAR SCAN - OCEAN SIDE)



EXISTING PLAN VIEW OF SPAN NO(S). 25 THRU 36
(LIDAR SCAN)

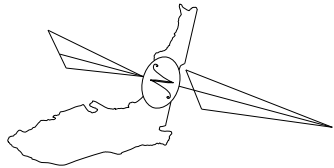




EXISTING ELEVATION VIEW OF SPAN NO(S). 37 THRU 48
(LIDAR SCAN-OCEAN SIDE)

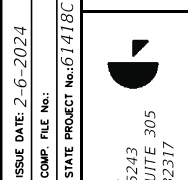


EXISTING PLAN VIEW OF SPAN NO(S). 37 THRU 48
(LIDAR SCAN)



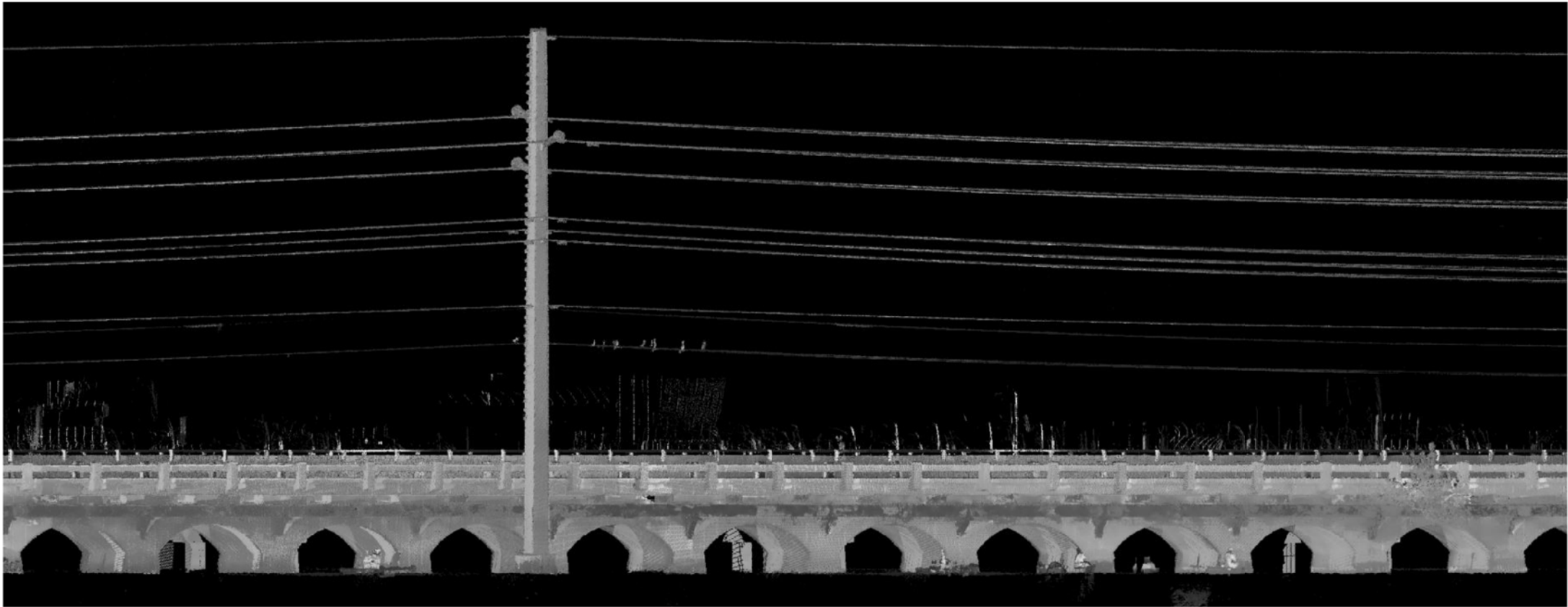
JOHN STEVEN WERES, P.E.
State of Florida, Professional
Engineer, License No. 65243
This has been digitally
signed and sealed by JOHN
STEVEN WERES, P.E., on the
date indicated here. Printed
copies of this document are not
considered signed and sealed
and any signature must be
verified on electronic
copies.

DESIGNER : C.J.R.
DRAWN BY: C.J.R.
REVIEWED BY: JSW
Consultant : GRESHAM SMITH
JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317



Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300

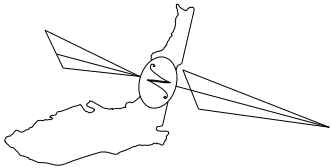
ISSUE DATE: 2-6-2024	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No:	(A)			(C)		
STATE PROJECT No.61418C	(B)			(D)		



EXISTING ELEVATION VIEW OF SPAN NO(S). 49 THRU 60
(LIDAR SCAN-OCEAN SIDE)

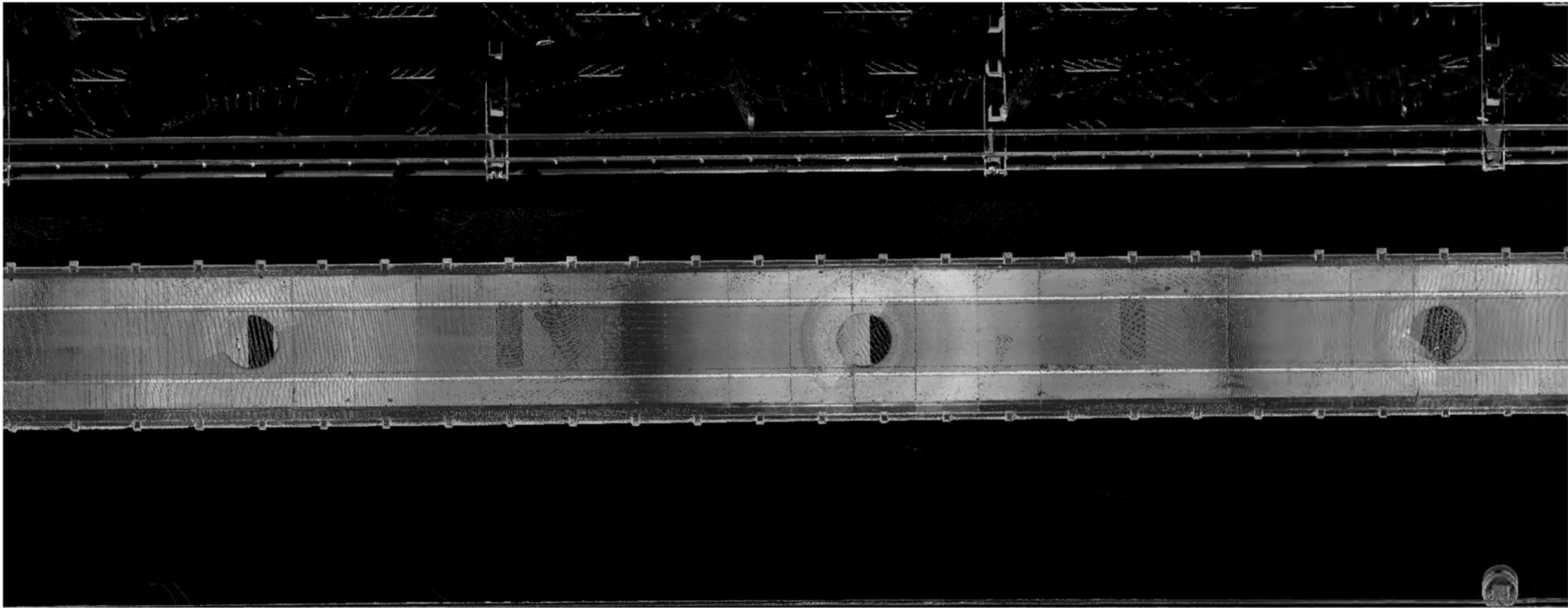


EXISTING PLAN VIEW OF SPAN NO(S). 49 THRU 60
(LIDAR SCAN)

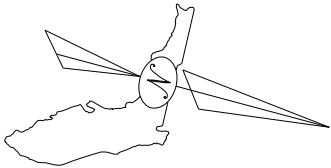




EXISTING ELEVATION VIEW OF SPAN NO(S). 61 THRU 72
(LIDAR SCAN-OCEAN SIDE)

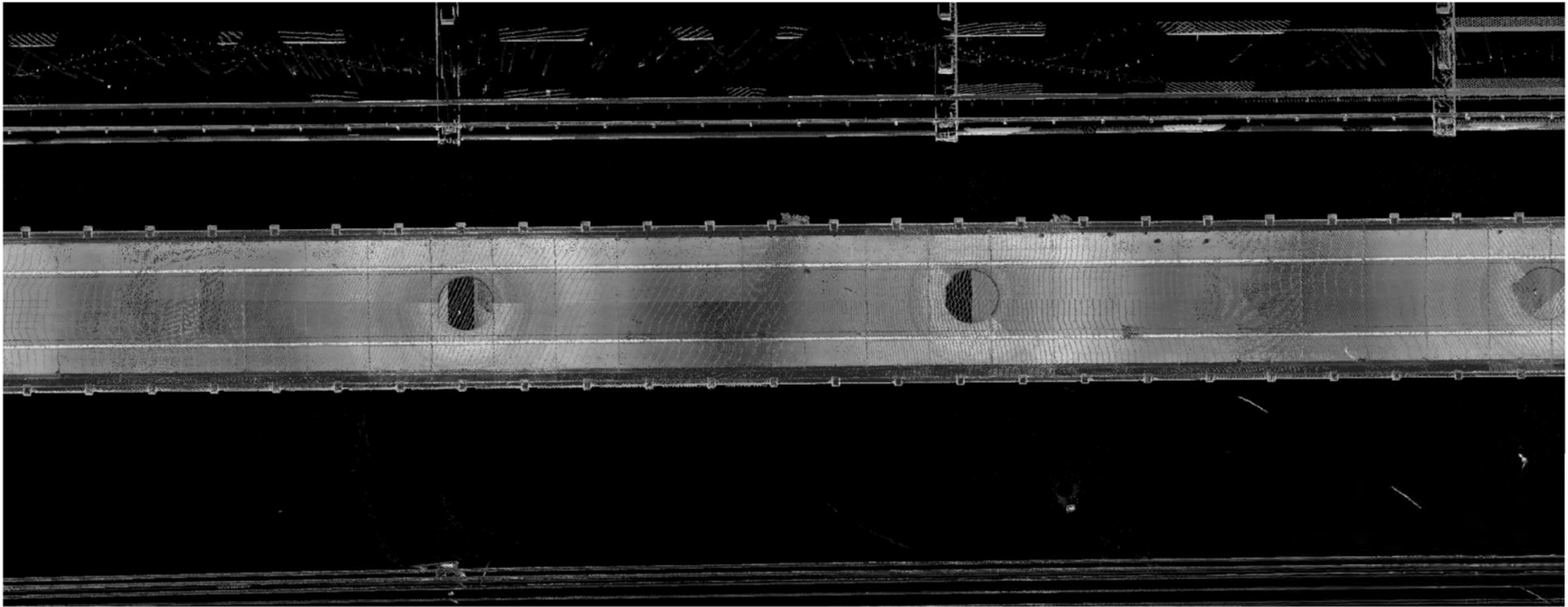


EXISTING PLAN VIEW OF SPAN NO(S). 61 THRU 72
(LIDAR SCAN)

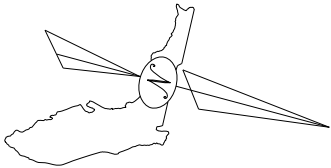


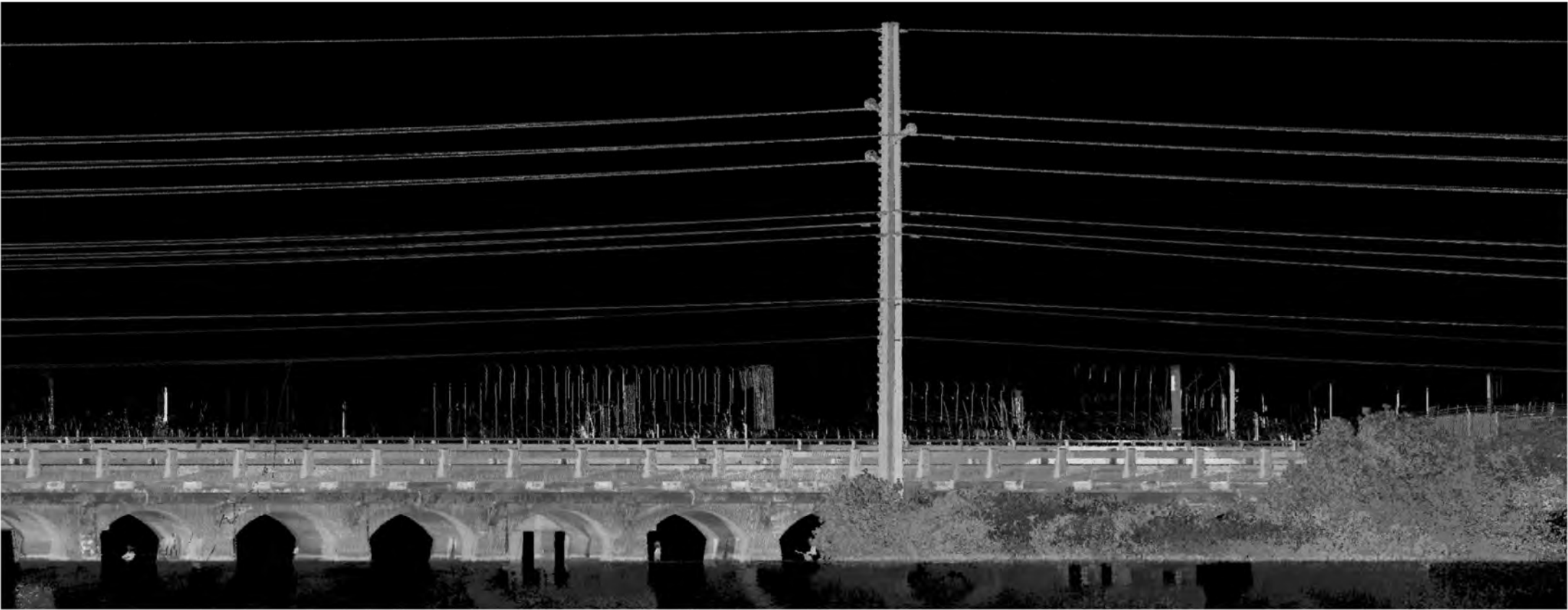


EXISTING ELEVATION VIEW OF SPAN NO(S). 73 THRU 84
(LIDAR SCAN-OCEAN SIDE)



EXISTING PLAN VIEW OF SPAN NO(S). 73 THRU 84
(LIDAR SCAN)

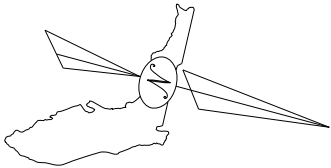




EXISTING ELEVATION VIEW OF SPAN NO(S). 85 THRU 97
(LIDAR SCAN-OCEAN SIDE)



EXISTING PLAN VIEW OF SPAN NO(S). 85 THRU 97
(LIDAR SCAN)



SHEET NO.

B1-28

FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)

SHEET TITLE
LIDAR SCANS - SHEET 8 OF 8

PROJECT TITLE
SHARK CHANNEL BRIDGE REHABILITATION DESIGN

JOHN STEVEN WERES, P.E.
State of Florida, Professional
Engineer, License No. 65243
This has been digitally
signed and sealed by JOHN
STEVEN WERES, P.E. on the
date indicated here. Printed
copies of this document
not considered signed and
sealed and the signatures must
be verified on any electronic
copies.

DESIGNER : C.J.R

DRAWN BY: C.J.R

REVIEWED BY: JSW

Consultant : GRESHAM SMITH
JOHN S. WERES, P.E.
P.E. LICENSE NUMBER 65243
2073 SUMMIT LAKE DRIVE, SUITE 305
TALLAHASSEE, FLORIDA 32317

ISSUE DATE: 2-6-2024

COMP. FILE No:

STATE PROJECT No.61418C

SYMBOL

(A)

(B)

REVISION

DATE

SYMBOL

DATE

REVISION

DATE

SYMBOL

(C)

(D)

REVISION

DATE

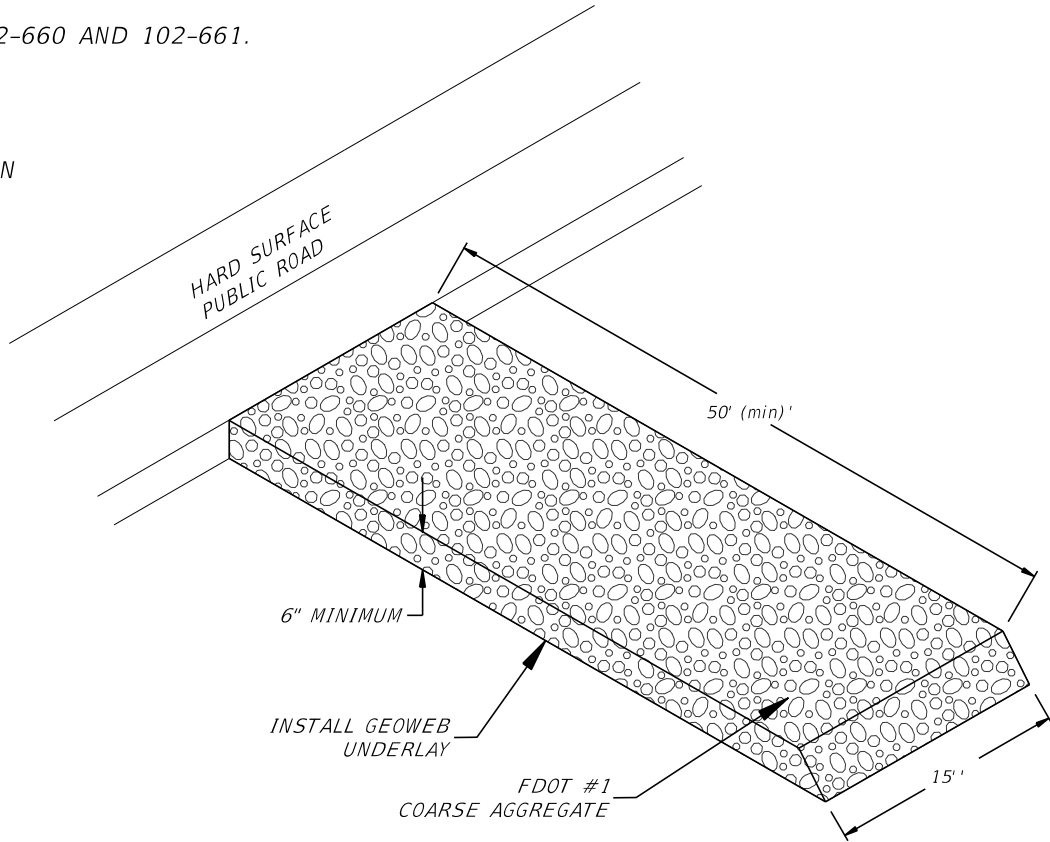
Department of Environmental Protection
Office of Operations
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300

TRAFFIC CONTROL GENERAL NOTES
=====

1. LANE CLOSURES ON SR 5 (US 1) WILL BE PROHIBITED FROM 6:30 A.M. TO 9:30 P.M. MONDAY THROUGH THURSDAY, AND FROM FRIDAY AT 6:30 A.M. TO SUNDAY AT 9:30 P.M.
2. ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF AN EVACUATION NOTICE FOR A HURRICANE OR ANY OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN UNTIL OTHERWISE DIRECTED BY THE ENGINEER.
3. A POSTED SPEED LIMIT OF 55 MPH SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. REFER TO STANDARD PLANS INDEX 102-600 TO ADDRESS ANY DROP-OFF HAZARDS THAT MAY OCCUR DURING CONSTRUCTION.
5. THERE WILL BE NO EQUIPMENT OR MATERIALS STAGING ON FDOT ROW UNLESS PRIOR APPROVAL IS OBTAINED FROM THE FDOT MAINTENANCE DEPARTMENT.

PHASE NOTES
=====

1. MAINTAIN EXISTING TRAFFIC PATTERNS ON EXISTING ROADWAY. INSTALL APPROPRIATE ADVANCE WARNING SIGNS, TRAFFIC CONTROL SIGNS, AND CHANNELIZING DEVICES PER STANDARD PLANS INDEX 102-600, 102-601, 102-602 & 102-603.
2. INSTALL TEMPORARY SIDEWALK AND BICYCLE FACILITY CLOSURE SIGNS PER STANDARD INDEX 102-660 AND 102-661.
3. CONSTRUCT/PLACE EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY THE PERMIT.
4. INSTALL TEMPORARY BARRIER PER STANDARD PLANS INDEX 102-100 & 102-110 AND AS SHOWN IN TEMPORARY TRAFFIC CONTROL PLANS.
5. CONSTRUCT BRIDGE IMPROVEMENTS PER STRUCTURAL PLANS.



GRAVEL CONSTRUCTION ENTRANCE DETAIL
N.T.S.

FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		ISSUE DATE: 2-6-2024	DESIGNER: KRA	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
SHEET TITLE TEMPORARY TRAFFIC CONTROL PLAN		COMP. FILE No:	DRAWN BY: JRB	(A)			(C)		
PROJECT TITLE SHARK CHANNEL BRIDGE REHABILITATION DESIGN		STATE PROJECT No.: 61418C	REVIEWED BY: JSW	(B)			(D)		
		Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317							
		Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 426-2300							



SHEET NO.		FLORIDA KEYS OVERSEAS HISTORICAL TRAIL (FKOHT)		DESIGNER : C/JR	ISSUE DATE: 2-6-2024	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
PROJECT TITLE		REPAVING SURFACE FINISH LIMITS		DRAWN BY: C/JR	COMP. FILE No:	(A)			(A)		
PROJECT TITLE		SHARK CHANNEL BRIDGE REHABILITATION DESIGN		REVIEWED BY: JSW	STATE PROJECT No: 61418C	(B)			(B)		
				Consultant : GRESHAM SMITH JOHN S. WERES, P.E. P.E. LICENSE NUMBER 65243 2073 SUMMIT LAKE DRIVE, SUITE 305 TALLAHASSEE, FLORIDA 32317							
				Department of Environmental Protection Office of Operations Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 425-2300							

TREE PROTECTION:
TREE PROTECTION SHALL BE PROVIDED AT MEDIAN AND IMMEDIATE SHOULDER AREAS WHERE TREES APPEAR TO HAVE BEEN PLANTED AS PART OF THE STREETSCAPE PROJECT. THE PROTECTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 110-100 AND AS DIRECTED BY THE ENGINEER.

