PROJECT TEAM:

<u>OWNER:</u>

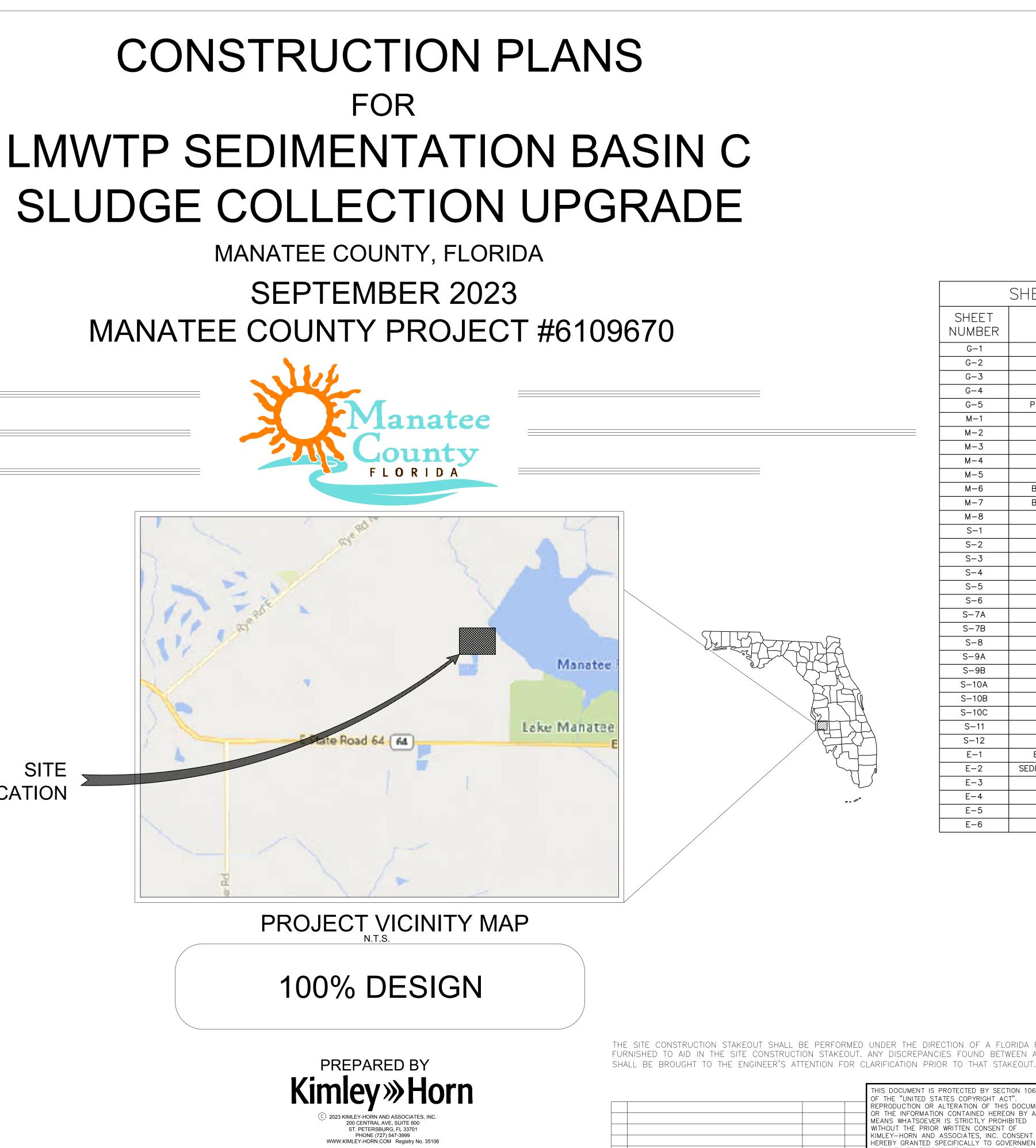
MANATEE COUNTY 1022 26TH AVE. E. BRADENTON, FL 34208 CONTACT: TOM GREENE, P.E. 941-708-7450 EXT. 7412

ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 105N ST. PETERSBURG, FL 33701 CONTACT: MICHAEL A. SEMAGO, P.E. 727-498-3633

ELECTRICAL ENGINEER: THOMAS ENGINEERING 777 S. HARBOUR ISLAND BLVD. TAMPA, FLORIDA 33602 CONTACT: TIM THOMAS, P.E. 813-227-9190

SITE LOCATION



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THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS

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DATE BY	AGENCIES TO REPRODUCE THIS DOCUMENT IN COMPLIANCE WITH F.S. CHAPTER 119.	87501 date:	

REVISIONS



Kimley »Horn	KHA PROJECT 148400096 DATE SEP 2023	Manatee		LICENSED PROFESSIONAL
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.	SCALE AS SHOWN	LMWTP SEDIMENTATION BASIN C		
200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701	DESIGNED BY MAS			FL LICENSE NUMBER
PHONE: 727-547-3999	DRAWN BY JAK	SLUDGE COLLECTION UPGRADE		87501
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	CHECKED BY JWW	MANATEE COUNTY	FL dat	TE:

REVISIONS

DATE BY

THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.

2. ALL UTILITY CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST VERSION OF THE MANATEE

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE FOLLOWING JURISDICTIONAL

MANATEE COUNTY PUBLIC WORKS BRETT GOCKA, P.E. 1022 26TH AVENUE EAST

BRADENTON, FL 34206-3926 941-708-7450 EXT. 7232

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF

REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

3. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

4. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL

5. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2

LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

2. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED

3. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

4. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE

5. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

7. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

8. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.

9. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD. THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

10. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO

RESTORATION AND MISCELLANEOUS NOTES

1. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES

2. THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, CURBS, SIDEWALKS, FENCES, LANDSCAPING, AND OTHER IMPROVEMENTS WITH THE SAME OR BETTER TYPE AND QUANTITY OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.

3. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE

4. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED WITH SOD IN LIKE KIND UNLESS OTHERWISE DIRECTED BY OWNER. CONTRACTOR SHALL ROLL ALL SODDED AREAS.

KIMLEY HORN ABBREVIATIONS

DIP	_	DUCTILE IRON PIPE
R/W	—	RIGHT-OF-WAY
HDD	_	HORIZONTAL DIRECTIONAL
[DRIL	L
RCP	_	REINFORCED CONCRETE PIPE
HDPE	—	HIGH DENSITY POLYETHYLENE
PVC	_	POLYVINYL CHLORIDE
ST	_	STORM DRAIN
EX.	_	EXISTING
BE	_	BURIED ELECTRIC
ΒT	—	BURIED TELEPHONE
SS	—	SANITARY SEWER
FM	—	FORCE MAIN
WM	_	WATER MAIN

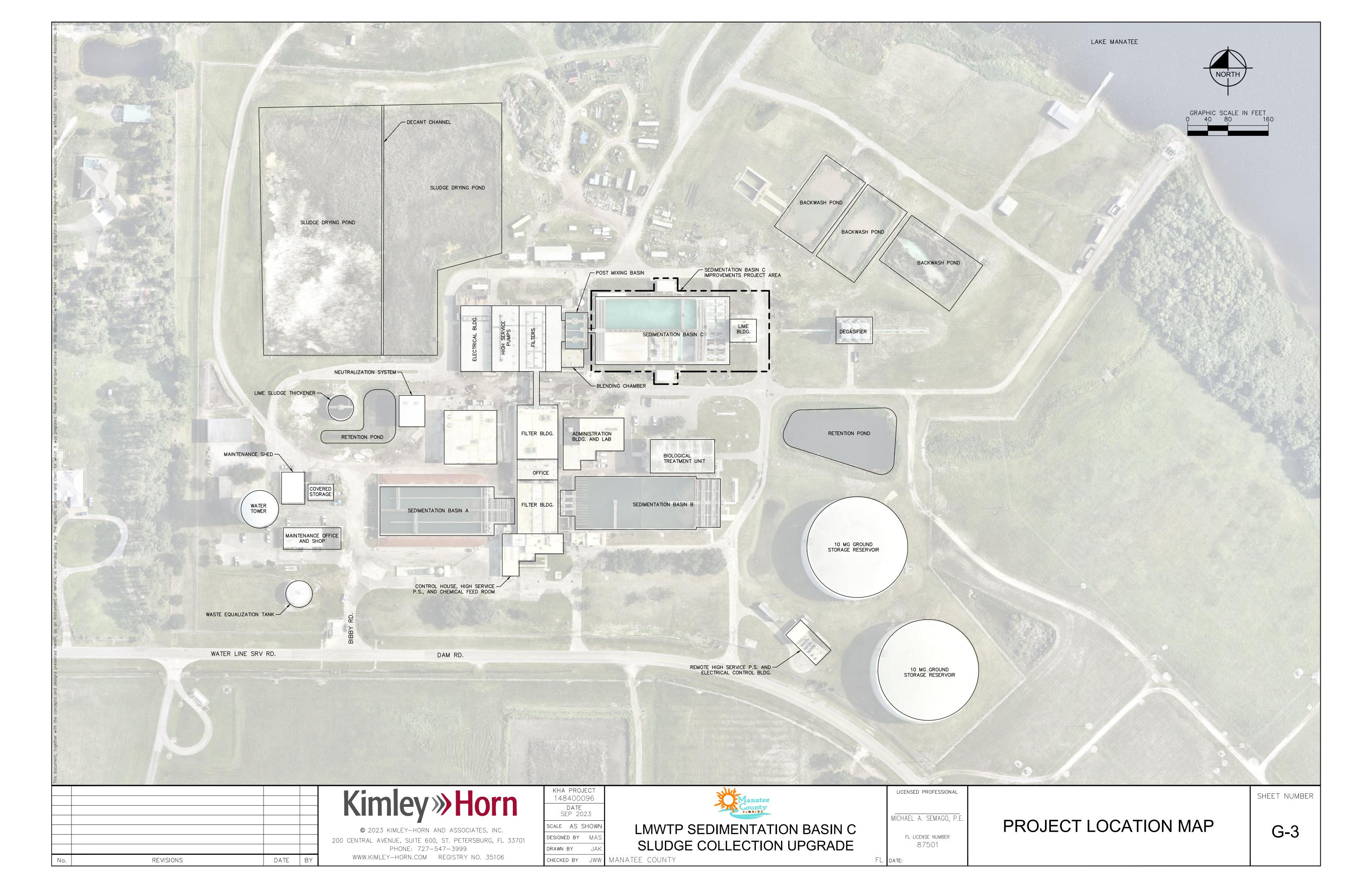
RW – RECLAIM WATER MAIN OHE – OVERHEAD ELECTRIC

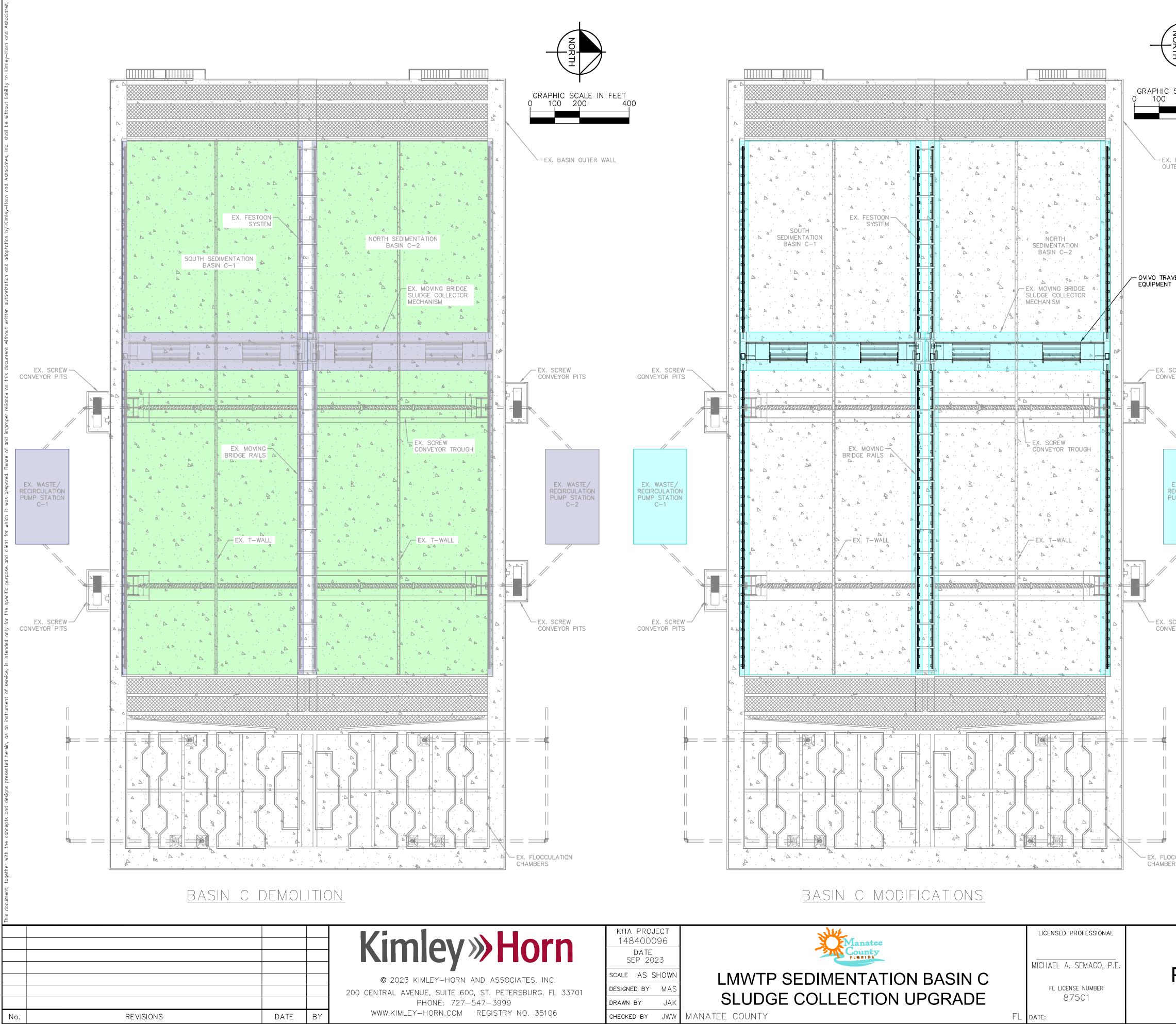
PLAN CALLOUT L	<u>EGEND</u>	
		DETAIL NAME
⟨7⟩ KEY NOTE	2	
A KEY TAG		

GENERAL NOTES

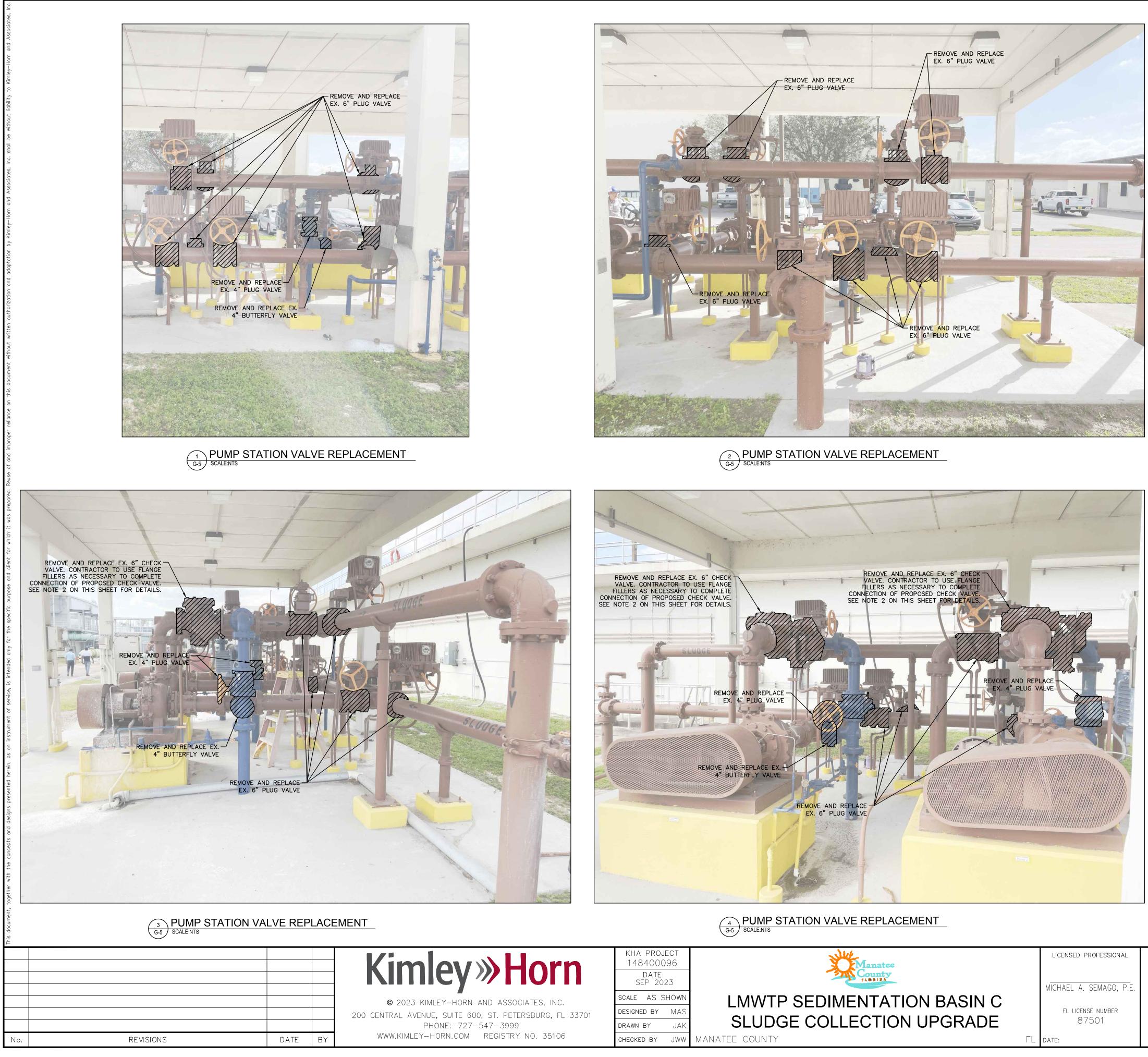
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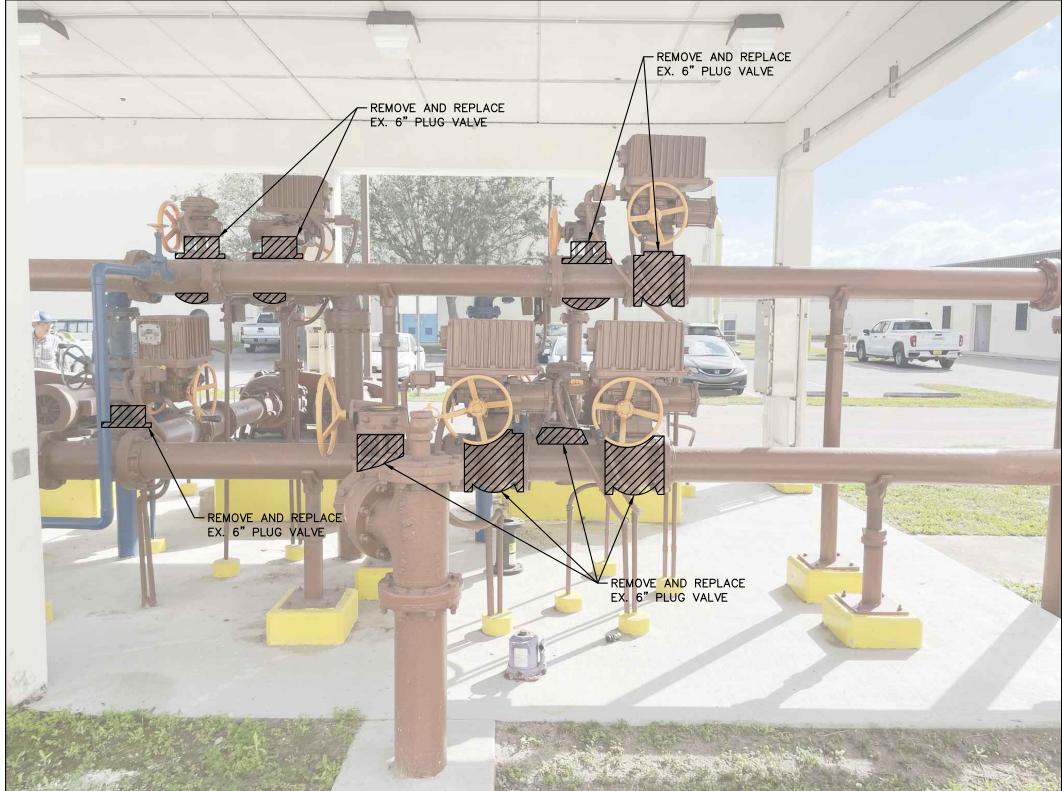
G-2





T	CONST	RUCTION SEQUENCING:	
		PHASE I BASIN OPERATION	
	PHASE	I MAINTENANCE OF BASIN OPERATION:	
I Cale in feet	$\langle 1 \rangle$	COORDINATE WITH PLANT OPERATOR TO ISOLATE AND D BASIN C-2 A MINIMUM OF 30-DAYS PRIOR TO BEGINNII	NG CONSTRUCTION.
	2	COMPLETION OF INSTALLATION, CERTIFICATION, AND APP TRAVELING BRIDGE SYSTEM SHALL BE COMPLETED WITHI START OF CONSTRUCTION WHILE BASIN C IS BEING BYP	N 3 MONTHS OF THE
		PHASE I DEMOLITION	
	PHASE	I DEMOLITION/REMOVAL OF EXISTING EQUIPMENT:	
ASIN WALLS	$\langle 3 \rangle$	COUNTY STAFF WILL CLEAN AND REMOVE LIME SLUDGE BASIN C-1 AND BASIN C-2. THIS OPERATION WILL TAK CONTRACTOR CAN WORK ON REMOVAL OF ACTIONS 4, 5 THE BASINS ARE BEING CLEANED	E 2 WEEKS.
	4	REMOVE EXISTING TRAVELING BRIDGE AND EQUIPMENT	
	$\langle 5 \rangle$	REMOVE EXISTING TRAVELING BRIDGE RAIL SYSTEM	
	6	REMOVE AND REPLACE VALVES AT THE EXISTING WASTE STATIONS. SEE SHEET $G-5$ FOR DETAILS	Z/RECIRCULATION PUMP
		PHASE I MODIFICATIONS	
ING BRIDGE	PHASE	I BASIN C MODIFICATIONS:	
	$\langle 7A \rangle$	COMPLETE REQUIRED INTERIOR STRUCTURAL BASIN SPO STRUCTURAL SHEETS FOR DETAILS	T-REPAIRS. SEE
	(7В)	PERFORM REQUIRED EXTERIOR STRUCTURAL BASIN COND SPOT-REPAIRS. SEE STRUCTURAL SHEETS FOR DETAILS REPAIRS CAN BE COMPLETED AFTER THE INSTALLATION BRIDGES ARE COMPLETE)	(EXTERNAL BASIN
EW DR PITS	8	THE OVIVO TRAVELING BRIDGE COG TRACK AND RUNNIN INSTALLED IN 6-PLATE INCREMENTS PER THE MANUFAC RECOMMENDATIONS AND SPECIFICATION SECTION 464314 COMPLETE INSTALLATION OF THE 6-PLATE LONG COG T ALIGNMENT, THEN MOVE TO THE NEXT 6-PLATE LONG I	TURERS I. CONTRACTOR TO RACK, VERIFY
	(9)	UPON COMPLETION OF TRAVELING BRIDGE COG TRACK A INSTALL OVIVO TRAVELING BRIDGE MECHANISM, AND EQU	AND RUNNING RAIL,
	(10)	THE OVIVO TRAVELING BRIDGE SYSTEM MUST BE IN OPE TWO WEEKS OR OBTAIN COUNTY APPROVAL PRIOR TO C APPROVAL TO BEGIN NORMAL OPERATION	
WASTE/ RCULATION P STATION C-2			
EW DR PITS	[PLANT OPERATIONS HAS PRIORITY AT ALL TIMES. TH TREATMENT PLANT IS FUNCTIONAL AT ALL TIMES AN SECURITY MUST BE MAINTAINED. THE CONTRACTOR S PROVIDE 30-DAYS NOTICE MINIMUM TO THE COUNTY THE CONTRACTOR IS TO START WORK ON THE BASIN	D SHALL BEFORE
		PROVIDE THE COUNTY TIME TO CLEAN OUT THE BAS	
JLATION			
			SHEET NUMBER
'ROJEC 1	[PH	ASING PLAN	G-4





NOTES:

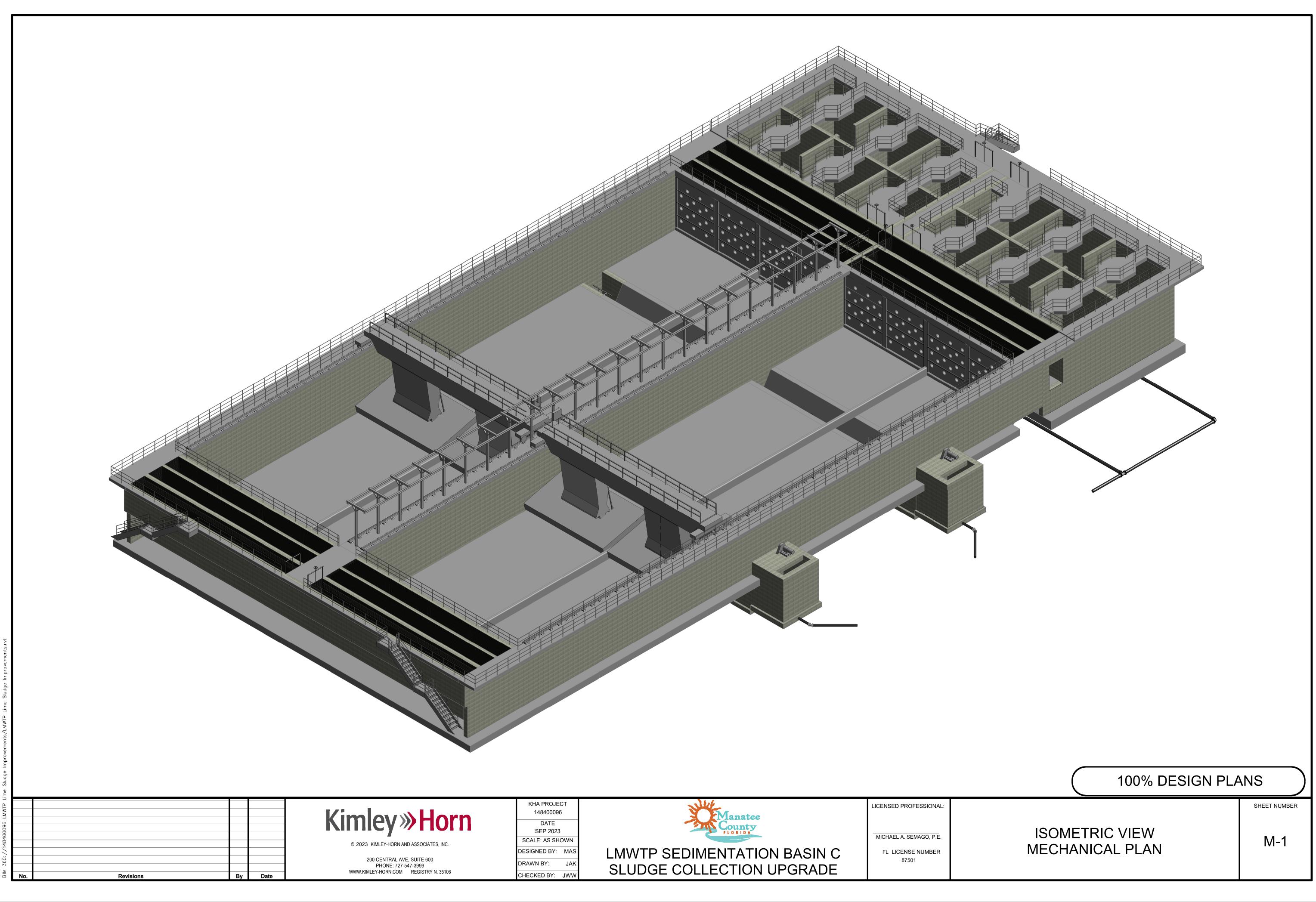
- 1. MANATEE COUNTY HAS THE RIGHT OF REFUSAL FOR ALL DEMOLISHED EQUIPMENT
- 2. CONTRACTOR TO USE FLANGE FILLERS AS NECESSARY TO CONNECT PROPOSED VALVES TO EXISTING PIPING ASSEMBLY. CONTRACTOR TO MEASURE AND VERIFY DIMENSIONS TO BE APPROVED BY THE COUNTY AND ENGINEER PRIOR TO PURCHASE AND INSTALLATION OF FLANGE FILLERS.
- 3. ALL PUMP STATION VALVES SHALL BE REMOVED AND REPLACED. REFER TO THE TABLE BELOW FOR QUANTITY AND MODEL NUMBERS:

PUMP STATION NAME	QTY.	VALVE SIZE AND MANUFACTURER	MODEL NUMBER
	3	6" DEZURIK	APCO CVS-6000-AC SWING CHECK VALVE WITH AIR CUSHION SPECIFICATION
	12	6" PRATT (MUELLER)	0600–601N1–TC, 6"601 FULL ROUND PORT PLUG VALVE, 175 PSI, FLANGED ENDS
SOUTH C-1	3	4" PRATT (MUELLER)	0400–601N1–TC, 4"601 FULL ROUND PORT PLUG VALVE, 175 PSI, FLANGED ENDS
	3	4" VALMATIC	VM-2004SV-M, 4" AWWA CLASS 150B AMERICAN BFV W/ HANDWHEEL
	3 6" DEZURIK		APCO CVS-6000-AC SWING CHECK VALVE WITH AIR CUSHION SPECIFICATION
	12	6" PRATT (MUELLER)	0600–601N1–TC, 6"601 FULL ROUND PORT PLUG VALVE, 175 PSI, FLANGED ENDS
NORTH C-2	3	4" PRATT (MUELLER)	0400–601N1–TC, 4"601 FULL ROUND PORT PLUG VALVE, 175 PSI, FLANGED ENDS
	3	4" VALMATIC	VM-2004SV-M, 4" AWWA CLASS 150B AMERICAN BFV W/ HANDWHEEL

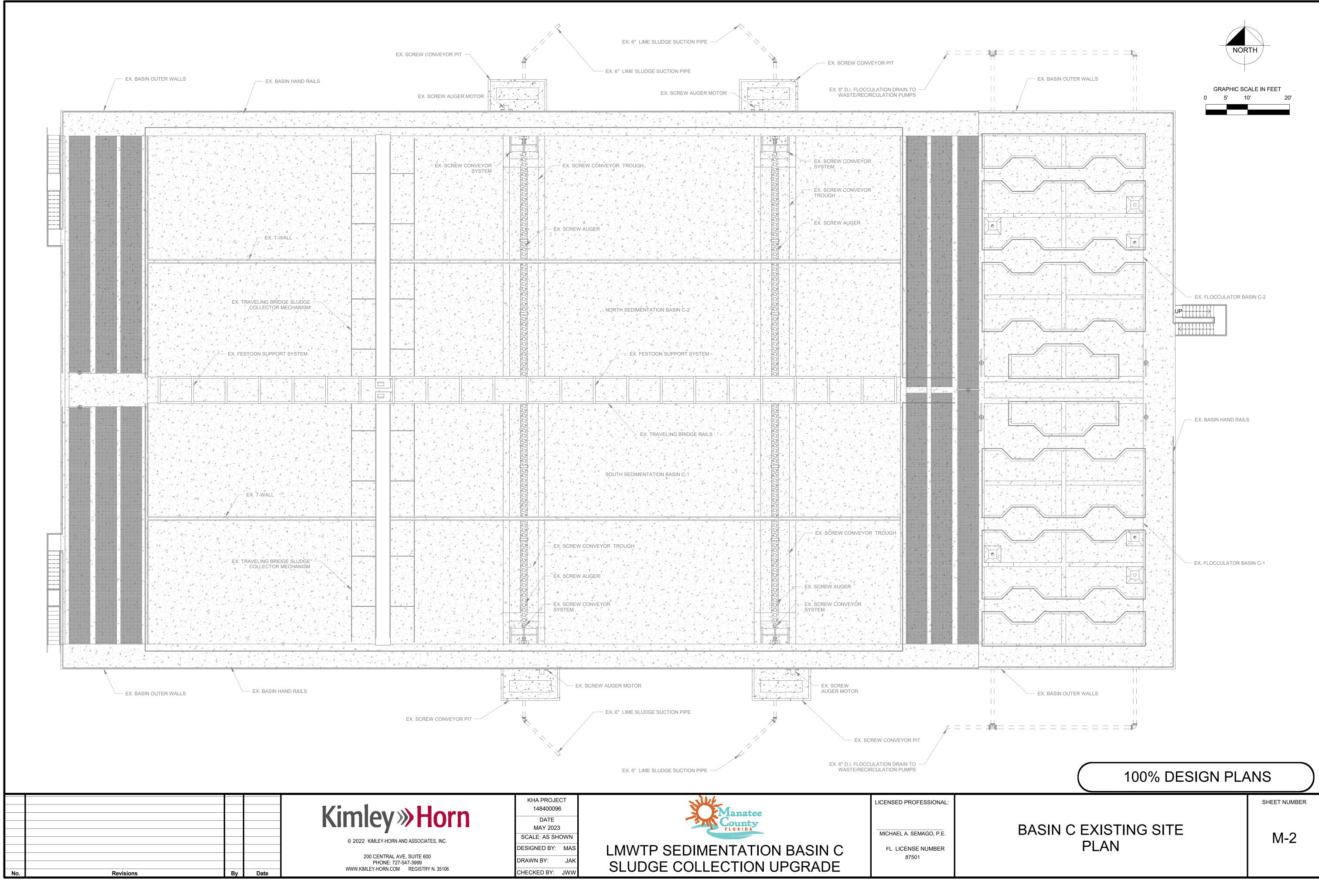
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PUMP STATION VALVE REPLACEMENT PLAN

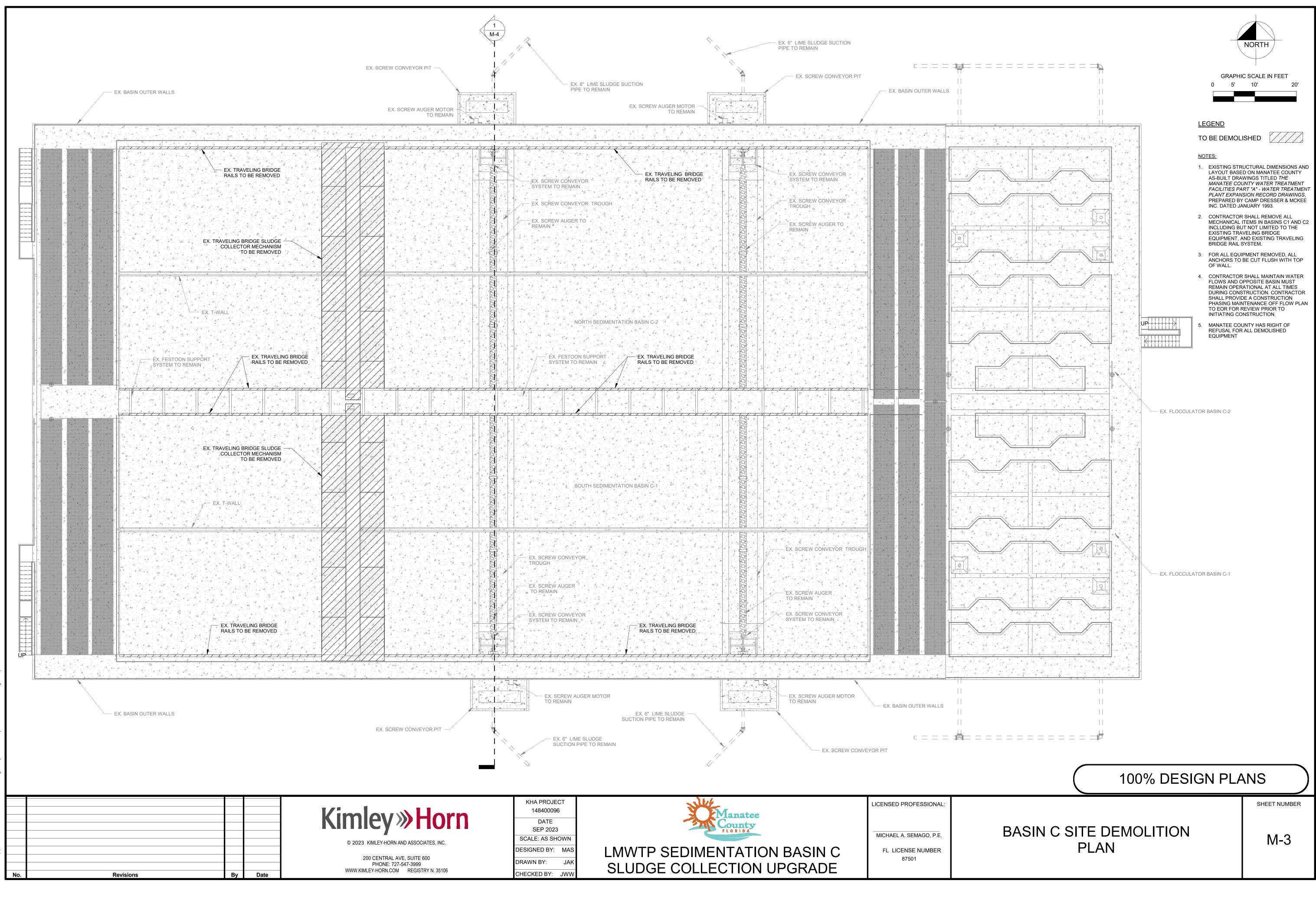
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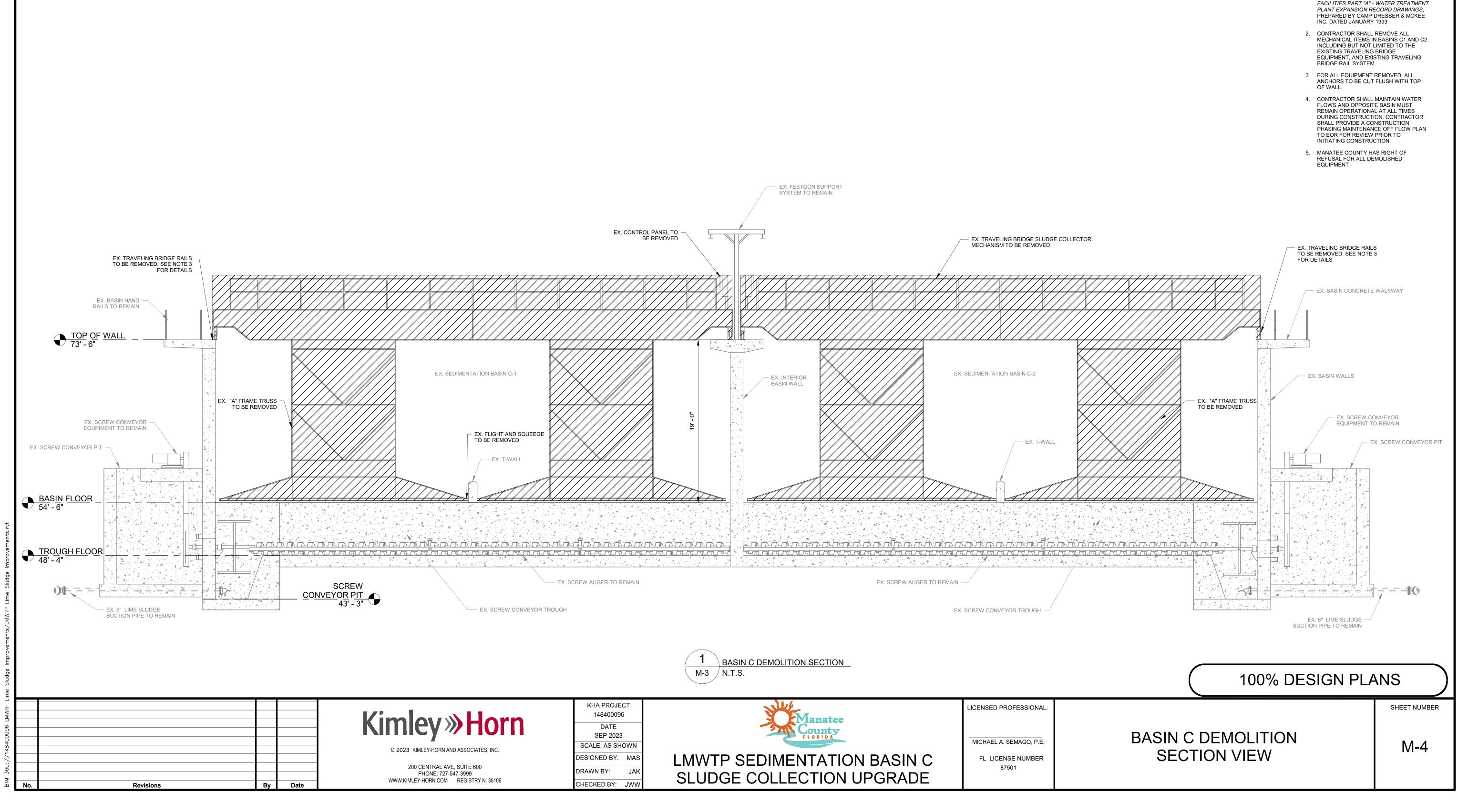
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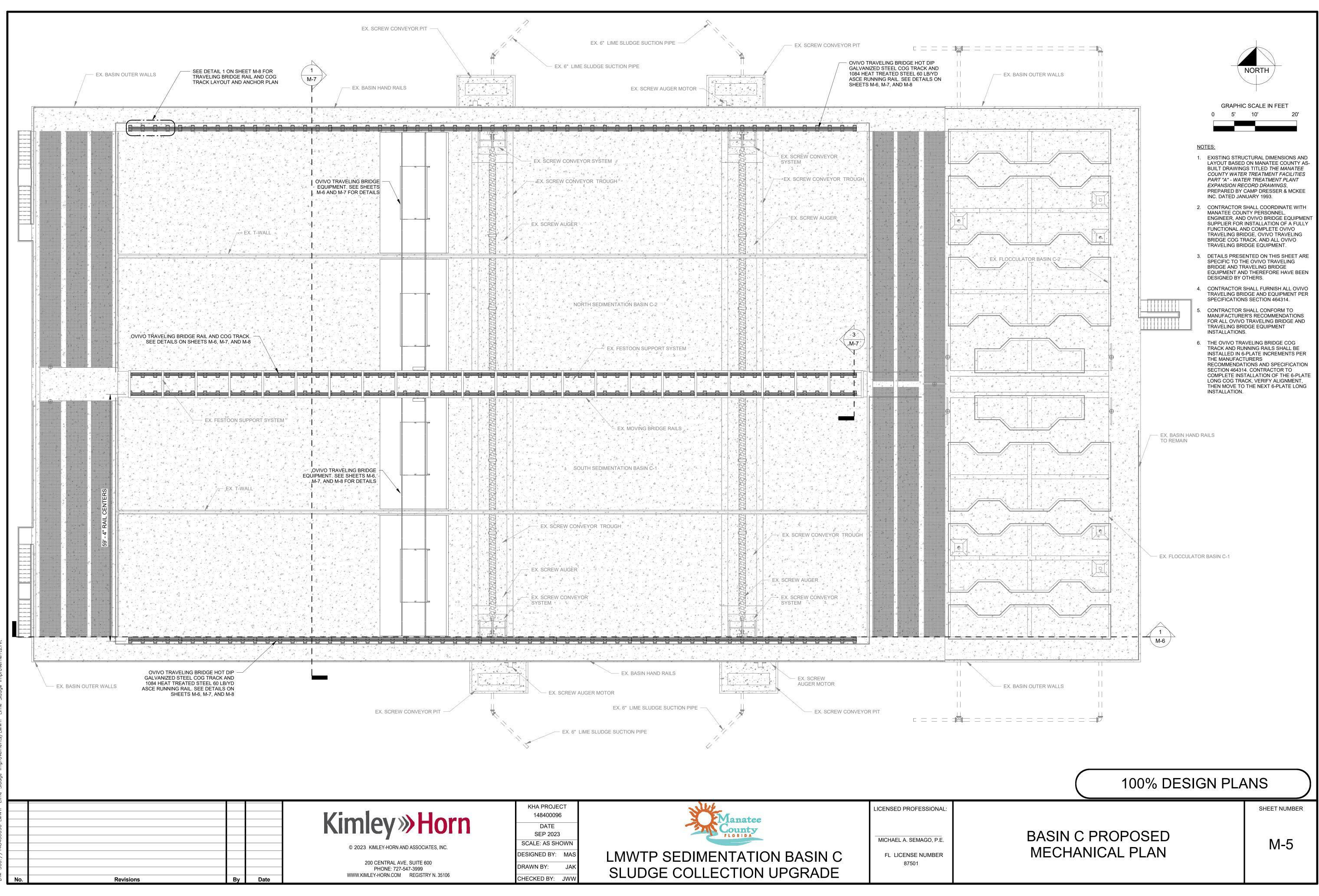


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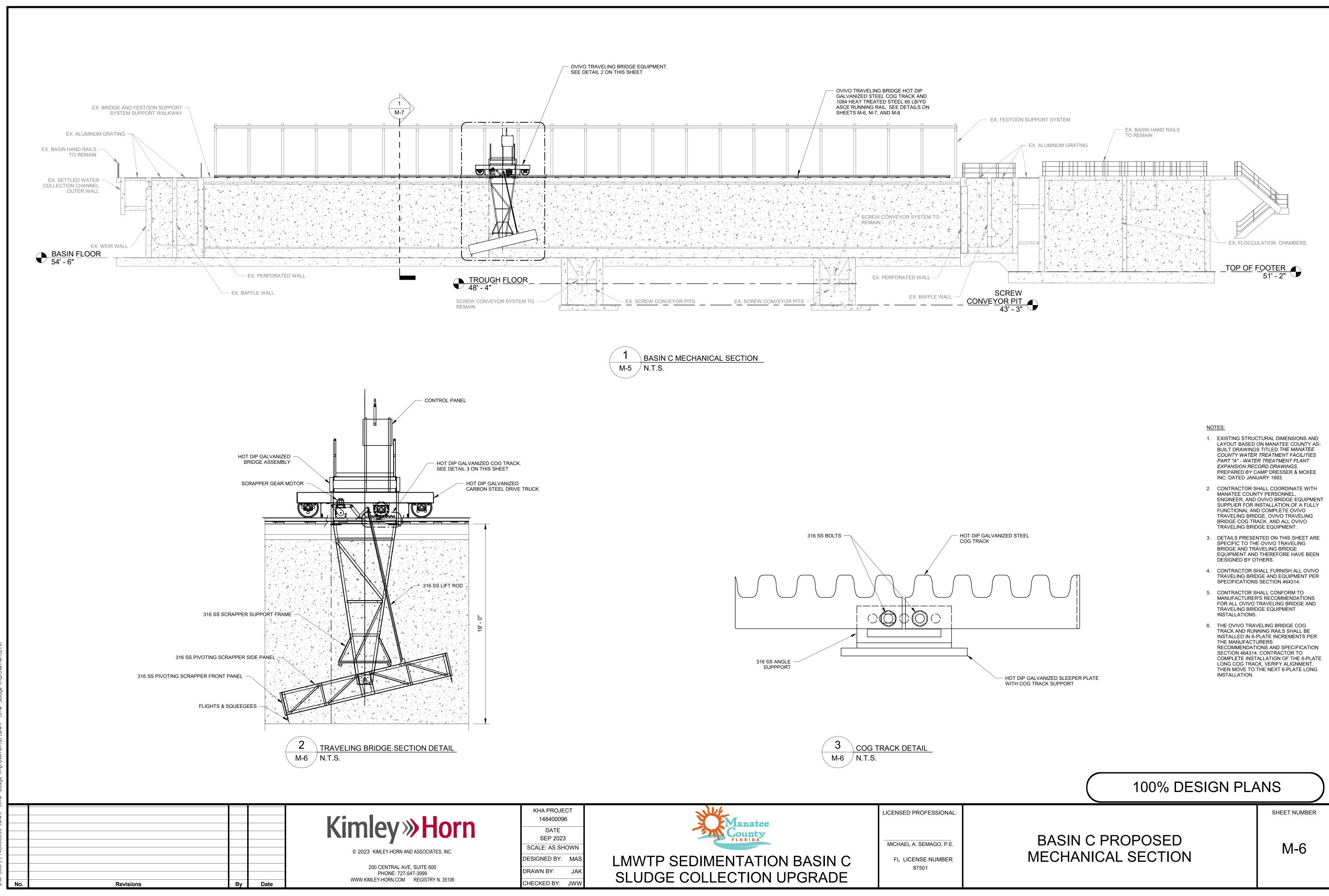
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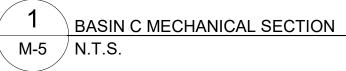
1. EXISTING STRUCTURAL DIMENSIONS AND LAYOUT BASED ON MANATEE COUNTY AS-BUILT DRAWINGS TITLED THE MANATEE COUNTY WATER TREATMENT

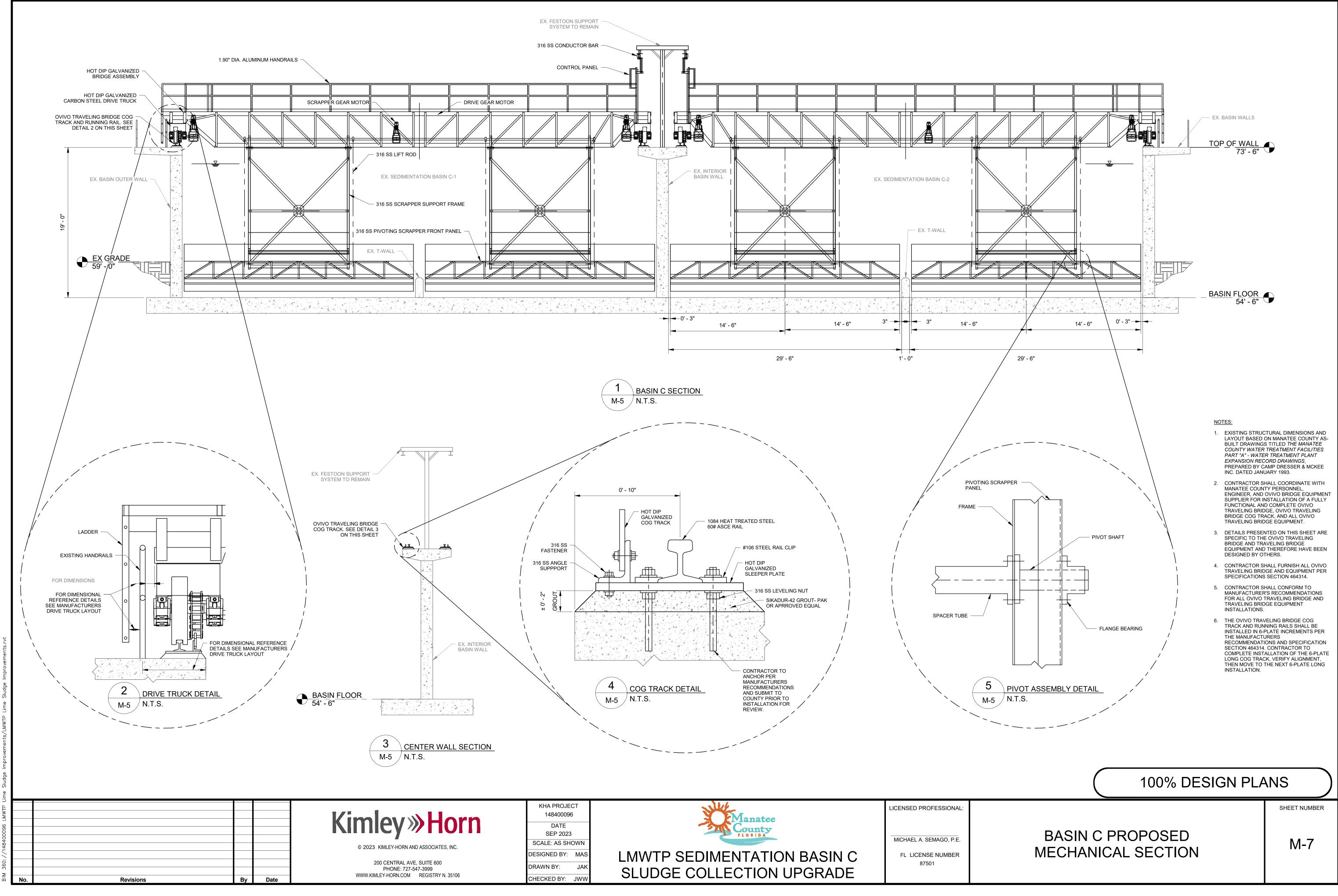


SCALE: AS SHOWN		
DESIGNED BY:	MAS	
DRAWN BY:	JAK	
CHECKED BY:	JWW	

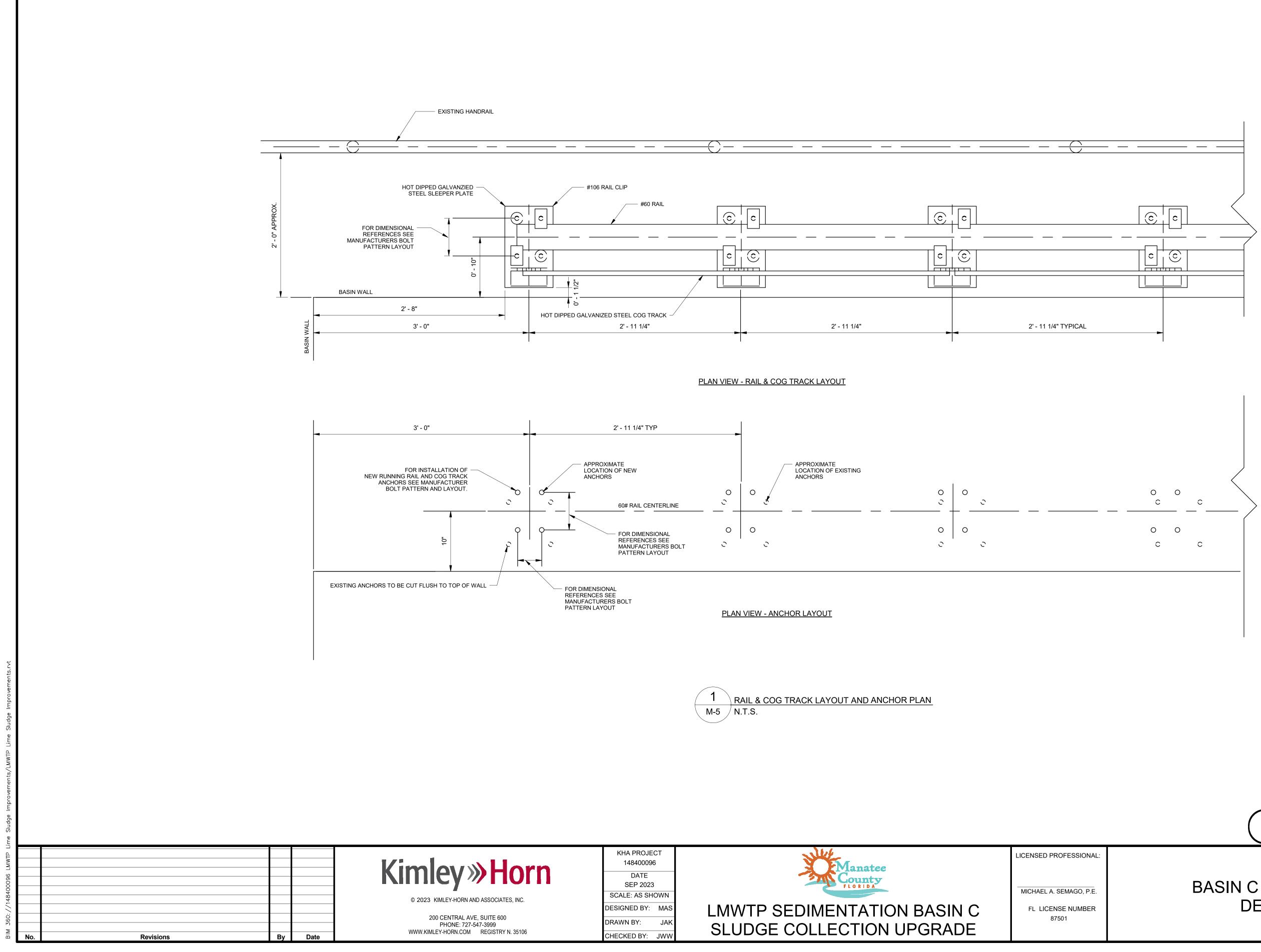


	OVIVO TRAVELING BRIDGE EQUIPMENT. SEE DETAIL 2 ON THIS SHEET	
· · · · · · · · · · · · · · · · · · ·	OVIVO TRAVELING BRIDGI GALVANIZED STEEL COG 1084 HEAT TREATED STEEL ASCE RUNNING RAIL. SEE SHEETS M-6, M-7, AND M-8	TRACK AND EL 60 LB/YD E DETAILS ON
		YOR SYSTEM TO
TROUGH FLOOR 48' - 4" SCREW CONVEYOR SYSTEM TO REMAIN		PRATED WALL





	KHA PROJECT 148400096	Manatee	LICENSED PROFESSIONAL:	
orn	DATE SEP 2023 SCALE: AS SHOWN	County	MICHAEL A. SEMAGO, P.E.	
NC. 5106	DESIGNED BY: MAS DRAWN BY: JAK CHECKED BY: JWW	LMWTP SEDIMENTATION BASIN C SLUDGE COLLECTION UPGRADE	FL LICENSE NUMBER 87501	



NOTES:

- 1. EXISTING STRUCTURAL DIMENSIONS AND LAYOUT BASED ON MANATEE COUNTY AS-BUILT DRAWINGS TITLED THE MANATEE COUNTY WATER TREATMENT FACILITIES PART "A" - WATER TREATMENT PLANT EXPANSION RECORD DRAWINGS, PREPARED BY CAMP DRESSER & MCKEE INC. DATED JANUARY 1993.
- 2. CONTRACTOR SHALL COORDINATE WITH MANATEE COUNTY PERSONNEL, ENGINEER, AND OVIVO BRIDGE EQUIPMENT SUPPLIER FOR INSTALLATION OF A FULLY FUNCTIONAL AND COMPLETE OVIVO TRAVELING BRIDGE, OVIVO TRAVELING BRIDGE COG TRACK, AND ALL OVIVO TRAVELING BRIDGE EQUIPMENT.
- 3. DETAILS PRESENTED ON THIS SHEET ARE SPECIFIC TO THE OVIVO TRAVELING BRIDGE AND TRAVELING BRIDGE EQUIPMENT AND THEREFORE HAVE BEEN DESIGNED BY OTHERS.
- 4. CONTRACTOR SHALL FURNISH ALL OVIVO TRAVELING BRIDGE AND EQUIPMENT PER SPECIFICATIONS SECTION 464314.
- 5. CONTRACTOR SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR ALL OVIVO TRAVELING BRIDGE AND TRAVELING BRIDGE EQUIPMENT INSTALLATIONS.
- 6. THE OVIVO TRAVELING BRIDGE COG TRACK AND RUNNING RAILS SHALL BE INSTALLED IN 6-PLATE INCREMENTS PER THE MANUFACTURERS RECOMMENDATIONS AND SPECIFICATION SECTION 464314. CONTRACTOR TO COMPLETE INSTALLATION OF THE 6-PLATE LONG COG TRACK, VERIFY ALIGNMENT, THEN MOVE TO THE NEXT 6-PLATE LONG INSTALLATION.

100% DESIGN PLANS

SHEET NUMBER

BASIN C PROPOSED DETAILS

M-8

STRUCTURAL NOTES

GENERAL NOTES AND SPECIFICATIONS:

- 1. THESE NOTES ARE NOT INTENDED TO REPLACE THE PROJECT SPECIFICATIONS OR CONSTRUCTION DRAWING NOTES & DETAILS. IN CASE OF CONFLICT BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS/CONSTRUCTION DRAWINGS AND THESE NOTES, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- 2. THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, SEVENTH EDITION (2020)
- 3. THE CONTRACT DOCUMENTS HAVE MADE NO INTENT TO GIVE SPECIFIC INSTRUCTIONS CONCERNING THE MEANS. METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND ASSIGNMENT OF WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SUPERVISING AND DIRECTING THE WORK.
- 4. TO THE BEST OF OUR KNOWLEDGE, THESE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
- 5. CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
- 6. CONTRACTOR SHALL VISIT PROJECT SITE AND BE FAMILAR WITH THE PROPOSED WORK. TAKE FIELD MEASUREMENTS AND VERIFY ALL FIELD CONDITIONS, AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 7. CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS DIMENSIONS AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING ANY WORK. REPORT ANY DISCREPANCIES VERBALLY AND IN WRITING IMMEDIATELY TO ENGINEER PRIOR TO PROCEEDING WITH WORK. WORK SHALL NOT COMMENCE UNTIL THE DISCREPANCIES ARE RESOLVED. DO NOT CHANGE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE PROJECT ENGINEER OF RECORD. DISCREPANCIES OMISSIONS OR VARIATIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING AND AFTER THE BIDDING PERIOD SHALL BE IMMEDIATELY COMMUNICATED IN WRITING TO THE ENGINEER.
- 8. CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM DAMAGE AND SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY, CONSTRUCTION PROCEDURES AND DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.
- 9. CONTRACTOR SHALL SUITABLY DOCUMENT EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK, AND SHALL RESTORE ALL DAMAGED OR DISTURBED AREAS TO MEET OR EXCEED ORIGINAL SITE CONDITIONS TO THE OWNER'S SATISFACTION.
- 10. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR INSTRUCTION FOR ANY DIMENSION NOT GIVEN ON DRAWINGS.
- 11. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.
- 12. CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM ADVANCE NOTICE FOR ALL REQUIRED FIELD REVIEWS.
- 13. CONTRACTOR SHALL COORDINATE WITH OWNER ALL ITEMS TO BE CONTRACTED, SUPPLIED OR INSTALLED BY OTHERS.
- 14. CONTRACTOR IS RESPONSIBLE FOR ALL BUILDING, PERMIT, REVIEW, LICENSE AND DEVELOPMENT FEES REQUIRED TO COMPLETE THE PROJECT.
- 15. CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS AND PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND WITH INDUSTRY/ASSOCIATION STANDARDS. MATERIALS OR WORK DESCRIBED IN WORDS WHICH HAVE A WELL-KNOWN TECHNICAL TRADE MEANING SHALL BE HELD TO REFER TO THE RECOGNIZED STANDARD. ALL MATERIALS SHALL BE NEW, U.O.N.
- 16. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK, HOWEVER, NO CHANGES THAT ALTER THE CHARACTER INTENT OF THE DESIGN WILL BE MADE WITHOUT A CHANGE ORDER.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, LICENSES, AND BONDS AS REQUIRED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN COPIES OF AND FAMILIARIZE HIMSELF AND HIS SUBCONTRACTORS WITH THE PERMIT

REVISIONS

CONDITIONS OF ALL OWNER OBTAINED PERMITS FOR THE WORK.

18. ANY DAMAGE TO PRIVATE PROPERTY MADE BY THE CONTRACTOR SHALL BE PROMPTLY REPAIRED TO AN EQUAL OR BETTER CONDITION AS IT WAS BEFORE COMMENCEMENT OF THE WORK.

DOCUMENTS AND LIMITATIONS

- 1. THE DRAWINGS, CALCULATIONS, AND REPRODUCTIONS RELATING TO THE STRUCTURAL PART OF THE PROJECT ARE INSTRUMENTS OF SERVICE TO BE USED FOR THIS PROJECT ONLY.
- 2. IT IS UNDERSTOOD THAT THE ENGINEER MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO THE FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OR PROFESSIONAL ADVICE EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRACTICES.

SHOP DRAWINGS AND OTHER SUBMITTALS

- 1. REVIEW OF SUBMITTALS IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SUBMITTALS REQUIRED TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT REVIEW.
- 2. ALL SUBMITTALS SHALL BE ACCOMPANIED BY A LETTER OF TRANSMITTAL. CONTRACTOR'S SUBMITTAL NUMBER SHALL BE INDICATED ON TRANSMITTAL. DO NOT COMBINE DIFFERENT SUBMITTALS ON THE SAME TRANSMITTAL. SUBMIT SHOP DRAWINGS IN A TIMELY MANNER, CONSISTENT WITH THE ABOVE, AND PRIOR TO FABRICATION, INSTALLATION OR COMMENCEMENT OF THE WORK. ALLOW UP TO 10 WORKING DAYS FOR ENGINEER TO REVIEW AND RETURN SHOP DRAWINGS. NUMBER OF COPIES OF EACH SUBMITTED SHOP DRAWING SHALL BE SUFFICIENT FOR OWNER TO RETAIN 2 COPIES.
- 3. ALL SUBMITTALS MUST BEAR EVIDENCE OF CONTRACTOR'S REVIEW (INCLUDING COMPANY STAMP AND DATED SIGNATURE OF REVIEWER) AND MUST BE APPROVED OR APPROVED AS NOTED BY HIM PRIOR TO SUBMITTING.
- 4. ALL CHANGES AND ADDITIONS MADE ON RESUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RESUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RESUBMITTAL.
- 5. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS ERECTION, PLACING OR FABRICATION DRAWINGS.
- 6. SUBMITTALS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER FABRICATION WILL NOT BE REVIEWED.
- 7. SUBMITTALS:

AS A MINIMUM. THE FOLLOWING SHALL BE SUBMITTED. AS APPLICABLE, FOR REVIEW AND COMPLIANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS PRIOR TO FABRICATION, INSTALLATION, OR COMMENCEMENT OF THE WORK

- A. CONCRETE, MORTAR AND GROUT MIX DESIGNS,
- INCLUDING ADMIXTURE DATA SHEETS. B. BILL OF REINFORCING AND LAYOUT.
- C. MISCELLANEOUS METAL FABRICATIONS D. REPAIR MORTAR AND COATINGS
- 8. WELDER CERTIFICATIONS FOR ALL WELDERS SHALL BE SUBMITTED. CERTIFICATIONS MUST HAVE BEEN ISSUED WITHIN 3 YEARS PRIOR TO PERFORMING WORK ON THE PROJECT.
- 9. REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SUBMIT 3 COPIES OF ALL PRODUCT DATA AND CUT SHEETS AS NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT REQUIREMENTS. CONTRACTOR SHALL BEAR THE BURDEN OF OBTAINING AUTHORIZATION FOR USE OF ITEMS TO BE SUBSTITUTED. ENGINEER'S DECISION REGARDING SUBSTITUTION SHALL BE FINAL.

REINFORCED CONCRETE

- 1. ALL CONCRETE MATERIALS, PLACING AND HANDLING SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE PUBLICATIONS ACI 301 AND ACI 318, LATEST EDITION.
- 2. CURING OF CONCRETE SHALL BE IN STRICT ACCORDANCE WITH ACI 301 PROVISIONS, LATEST EDITION.
- 3. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI.
- 4. USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL

		Kimley»Hor
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REVISIONS	RY	WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

DATE BY

MEMBERS. DO NOT USE CALCIUM CHLORIDE IN ANY CONCRETE. ALL STRUCTURAL CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.40.

PROVIDE A 4 INCH SLUMP WITH A TOLERANCE OF +/-1INCH

- 6. IF CONCRETE IS PUMPED, SLUMP MAY BE INCREASED TO 6 INCHES AT THE TRUCK, PROVIDED THE SLUMP SPECIFIED ABOVE IS MAINTAINED AT THE DISCHARGE END. USE A MINIMUM 4 INCH PUMP. TAKE CONCRETE SAMPLES FOR SLUMP AT TRUCK AND AT DISCHARGE END, AND FOR CYLINDER TESTING AT DISCHARGE END.
- 7. WATER SHALL NOT BE ADDED TO CONCRETE AT THE JOBSITE UNLESS SPECIFIC AUTHORIZATION IS INDICATED ON THE DELIVERY TICKET. NOTIFY ENGINEER OF TOTAL QUANTITY OF WATER ADDED TO ANY TRUCK. REPEAT NECESSARY TESTING IF WATER IS ADDED AFTER INITIAL SAMPLING.
- 8. COARSE AGGREGATE SHALL CONFORM TO ASTM C33. PEAROCK AGGREGATE SHALL NOT BE USED.
- 9. ALL CONCRETE SHALL BE PLACED IN THE DRY. ALL FORMS SHALL BE FREE OF STANDING WATER.
- 10. ALL CONCRETE SHALL BE VIBRATED IN PLACE IN ACCORDANCE WITH ACI RECOMMENDED PRACTICES. NO PLACING OF CONCRETE WILL BE COMMENCED UNLESS THERE ARE TWO OPERABLE CONCRETE VIBRATORS ON THE JOB SITE.
- 11. CONCRETE COVER OVER REINFORCING STEEL SHALL BE 3 IN UNLESS OTHERWISE NOTED.
- 12. PROVIDE 3/4 INCH CHAMFERS ON ALL EXPOSED EDGES ADJACENT TO EXPANSION JOINTS, EXCEPT AS OTHERWISE NOTED.
- 13. FORM TIES AND REINFORCING BAR SUPPORTS SHALL BE OF NON-CORROSIVE MATERIAL INCLUDING, BUT NOT LIMITED TO, FIBERGLASS, PLASTIC, AND CONCRETE BLOCK. BAR SUPPORTS PLACED ATOP VAPOR BARRIERS SHALL BE CONCRETE BLOCK.
- 14. ANY TIES, STRAPS OR OTHER METALLIC FORMWORK ITEMS SHALL BE REMOVED TO A DEPTH OF 1-1/2 INCHES MINIMUM BELOW FINISHED CONCRETE SURFACE. CONCRETE SHALL BE REPAIRED IN ACCORDANCE WITH ACI 301.
- 15. CONCRETE FINISHES:
 - A. FORMED SURFACES SHALL RECEIVE A SMOOTH-FORM FINISH IN ACCORDANCE WITH ACI 301. OFFSET BETWEEN ADJACENT PIECES OF FORMWORK FACING MATERIAL SHALL NOT EXCEED "CLASS A" TOLERANCE REQUIREMENTS OF ACI 117 (I.E. 1/8 INCH MAX. OFFSET).
 - B. SLAB ŚURFACES SHALL RECEIVE A TROWELED FINISH IN ACCORDANCE WITH ACI 301. FINISH TOLERANCES SHALL BE IN ACCORDANCE WITH "VERY FLAT" CLASSIFICATION REQUIREMENTS OF ACI 117 (I.E. 1/8 INCH MAX. IN 10 FEET).
 - C. WHERE A NONSLIP FINISH IS REQUIRED. GIVE THE SURFACE A BROOM FINISH OR DRY-SHAKE APPLICATION OF FINELY CRUSHED ABRASIVE PARTICLES.
- 16. COORDINATE SIZE, TYPE AND LOCATION OF ALL PENETRATIONS, CONDUIT, CHAMFERS AND EMBEDDED ITEMS PRIOR TO CONCRETE PLACEMENT.
- 17. DO NOT IMPOSE SERVICE LOADS ON CONCRETE ELEMENTS UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED MINIMUM COMPRESSIVE STRENGTH.
- 18. ALL GROUT SHALL BE NON-SHRINK, NON-METALLIC.
- 19. ALL CONCRETE SHALL INCLUDE CORROSION INHIBITING ADMIXTURE DCI-S BY WR GRACE (4.0 GAL/CY) OR APPROVED EQUIVALENT.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE OF DOMESTIC MANUFACTURE AND IN ACCORDANCE WITH ASTM A615 WITH SUPPLEMENT, GRADE 60.
- 2. TOLERANCES FOR REINFORCING BAR FABRICATION SHALL CONFORM TO THE CURRENT CRSI MANUAL OF STANDARD PRACTICE.
- 3. ALL REINFORCING STEEL SHALL BE UNCOATED (BLACK) DEFORMED BARS AND SHALL BE FREE FROM LOOSE RUST, SCALE OR OTHER COATINGS.
- 4. ALL REINFORCING STEEL SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS. VERIFY THAT PLACEMENT OF REINFORCING STEEL WILL NOT CONFLICT WITH SUBSEQUENT

INSTALLATION OF ANCHOR BOLTS, FASTENERS OR FIELD-DRILLED COMPONENTS.

- 5. UNLESS OTHERWISE NOTED, LAP BOTTOM STEEL OVER STRUCTURAL SUPPORTS AND TOP STEEL AT MIDSPAN.
- 6. ALL LAP LENGTHS SHALL BE IN ACCORDANCE WITH ACI 318, ACI 530 AND CRSI STANDARD PRACTICES, U.O.N.
- 7. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS AND ALL BARS IN WALLS U.O.N.
- 8. ACI STANDARD HOOKS SHALL BE USED AS A MINIMUM, U.O.N.
- 9. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING BARS ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
- 10. SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO FABRICATING REINFORCING STEEL. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS PLACING DRAWINGS OR SHOP DRAWINGS.

CLEAN UP

- 1. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS EMPLOYEES.
- 2. CONTRACTOR SHALL VISUALLY INSPECT INTERIOR AND EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES, STAINS, SPLASHED MATERIAL, PAINT DROPPINGS AND OTHER FOREIGN MATTER PRIOR TO COMPLETION OF THE WORK.

BID ITEMS

- 1. PAYMENT FOR ALL INCIDENTALS IS TO BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
- 2. COST FOR REMOVAL AND DISPOSAL OF VARIOUS MATERIALS, WHERE REQUIRED, SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

STRUCTURAL ALUMINUM

- 1. STRUCTURAL ALUMINUM SHALL BE DOMESTIC ALLOY 6061-T6.
- 2. ALUMINUM WORK SHALL BE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATIONS FOR ALUMINUM STRUCTURES, LATEST EDITION.
- 3. FASTENERS: UNLESS NOTED OTHERWISE, ALL FASTENERS SHALL BE 316 STAINLESS STEEL MEETING THE REQUIREMENTS OF ASTM F593 FOR BOLTS AND WASHERS AND ASTM F594 FOR NUTS. ALL CONNECTIONS WITH DISSIMILAR MATERIALS (E.G. 316 STAINLESS STEEL TO ALUMINUM) SHALL RECEIVE NEOPRENE OR VINYL WASHER. WASHER SHALL BE LARGER THAN BOLT HEAD.
- 4. ALL WELDING SHALL CONFORM WITH AWS D1.2, LATEST STRUCTURAL WELDING CODE - ALUMINUM.
- 5. ALL FILLET WELDS SHALL HAVE A MINIMUM SIZE OF 1/4" WITH 5356 FILLER ALLOY UNLESS OTHERWISE NOTED.
- 6. PROVIDE SHOP DRAWINGS FOR ALUMINUM FRAMING PRIOR TO FABRICATION AND INSTALLATION.
- 7. WHERE THE CONTACT OF DISSIMILAR MATERIALS MAY CAUSE ELECTROLYSIS OR WHERE ALUMINUM WILL COME IN CONTACT WITH CONCRETE, MORTAR, OR PLASTER, THE CONTACT SURFACE OF THE ALUMINUM SHALL BE COATED WITH ONE HEAVY COAT OF BITUMINOUS PAINT.

STRUCTURAL STEEL:

- (A) DESIGN, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE LATEST EDITION OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS." WITH COMMENTARY. AND ALL OSHA REQUIREMENTS.
- (B) VERIFY ALL DIMENSIONS AS REQUIRED PRIOR TO FABRICATION OF ANY STRUCTURAL STEEL.
- (C) MATERIALS:
 - ROUND HSS SHALL CONFORM TO ASTM A500 GR. C (FY=42KSI, FU=58KSI), U.O.N.
 - RECTANGULAR AND SQUARE HSS SHALL CONFORM TO ASTM A500 GR. B (FY=46KSI, FU=58KSI), U.O.N. • STEEL PIPE SHALL CONFORM TO ASTM A53 GR. B
 - (FY=35KSI, FU=60KSI). • STRUCTURAL PLATES SHALL CONFORM TO ASTM A36 (FY=36KSI, FU=58KSI).
 - STRUCTURAL W-SHAPES SHALL CONFORM TO ASTM A992 (FY=50KSI, FU=65KSI)



- STRUCTURAL CHANNELS SHALL CONFORM TO ASTM A36 (FY=36KSI, FU=58KSI).
- ANGLES SHALL CONFORM TO ASTM A36 (FY=36KSI, FU=58KSI).
- BOLTS SHALL CONFORM TO ASTM A325-X, TYPE 1
- (D) BOLTS FOR CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. UNLESS OTHERWISE NOTED, ALL BOLTS SHALL BE PROVIDED WITH HEAVY HEX NUTS CONFORMING TO ASTM A563, AND HARDENED STEEL WASHERS CONFORMING TO ASTM F436. PLACE HARDENED WASHERS UNDER PART BEING TURNED.
- (E) PROVIDE ALL BOLTS, NUTS AND WASHERS IN SETS THAT ARE NEW AND DOMESTICALLY MANUFACTURED. DO NOT REUSE BOLTS.
- (F) ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
- (G) USE STRUCTURAL STEEL THAT IS FULLY WELDABLE WITHIN GRADES AND FROM ANY GRADE TO ANY OTHER GRADE. WELD ALL SHOP CONNECTIONS, U.O.N.
- (H) USE ELECTRODES CONFORMING TO AWS D1.1, E70 SERIES, U.O.N.
- (I) ALL WELDING SHALL BE DONE BY AN AWS CERTIFIED WELDER AND IN COMPLIANCE WITH AWS D1.1. ALL WELD SIZES SHALL BE THE MAXIMUM ALLOWED BY THE MATERIAL BEING WELDED WITH E70XX ELECTRODES UNLESS NOTED OTHERWISE.
- (J) AT THE CONTRACTOR'S OPTION, SUBSTITUTION OF SHOP WELDS FOR FIELD WELDS MAY BE REQUESTED. ALL SUCH SUBSTITUTIONS SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND CONSTRUCTION.
- (K) CAP OR SEAL ALL PIPES AS REQUIRED TO PREVENT RAINWATER INTRUSION.
- (L) CONNECTIONS NOT DETAILED IN THE STRUCTURAL DRAWINGS AT THE TIME DRAWINGS ARE ISSUED FOR CONSTRUCTION SHALL BE DESIGNED AND DETAILED BY FABRICATOR ACCORDING TO AISC SPECIFICATIONS.
- (M) ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE. MISSING OR MISALIGNED BOLT HOLES SHALL BE CORRECTED BY DRILLING OR PUNCHING. FLAME CUTTING OF NEW BOLT HOLES OR FOR ENLARGING EXISTING HOLES WILL NOT BE PERMITTED. MINIMUM EDGE DISTANCE REQUIREMENTS SHALL CONFORM TO AISC SPECIFICATIONS.
- (N) SUBMIT STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO FABRICATION. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.

DESIGN CRITERIA

FLORIDA BUILDING CODE, SEVENTH EDITION (2020) ACI 318-14 ASCE 7-16

DESIGN LOADING

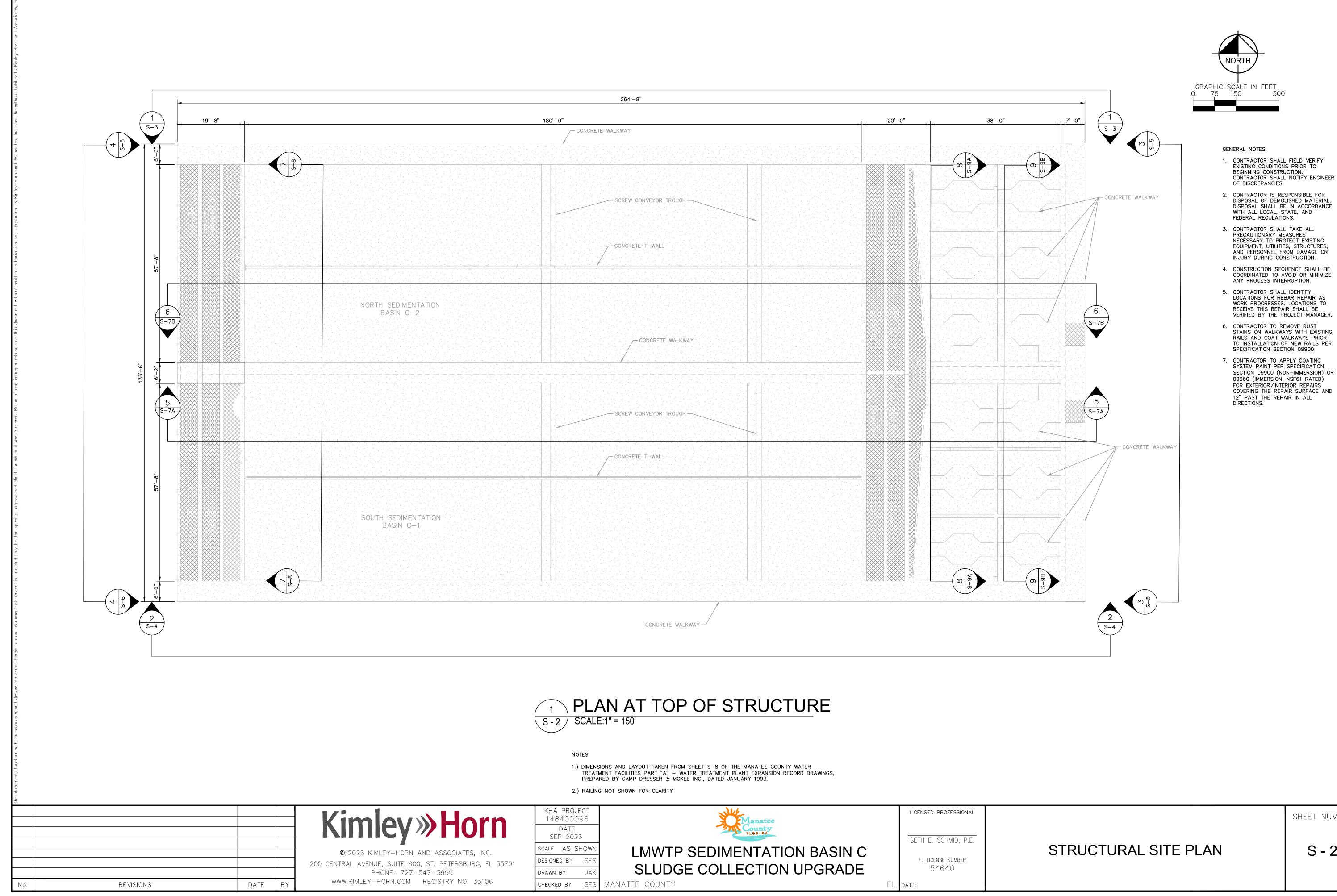
PEDESTRIAN SURCHARGE 125 PSF

ABBREVIATIONS

A.F.F.	ABOVE FINISH FL
ODR	CONTROL JOINT
CLR.	CLEAR
CONT.	CONTINUOUS
EA.	EACH
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
E.W.	EACH WAY
MAX.	MAXIMUM
MIN.	MINIMUM
0.C.	ON CENTER
PL	PLATE
STD.	STANDARD
TYP.	TYPICAL
TYQ.	U.O.N. UNLESS OTHERWISE NOTED
W.P.	WORK POINT

SHEET NUMBER

STRUCTURAL NOTES

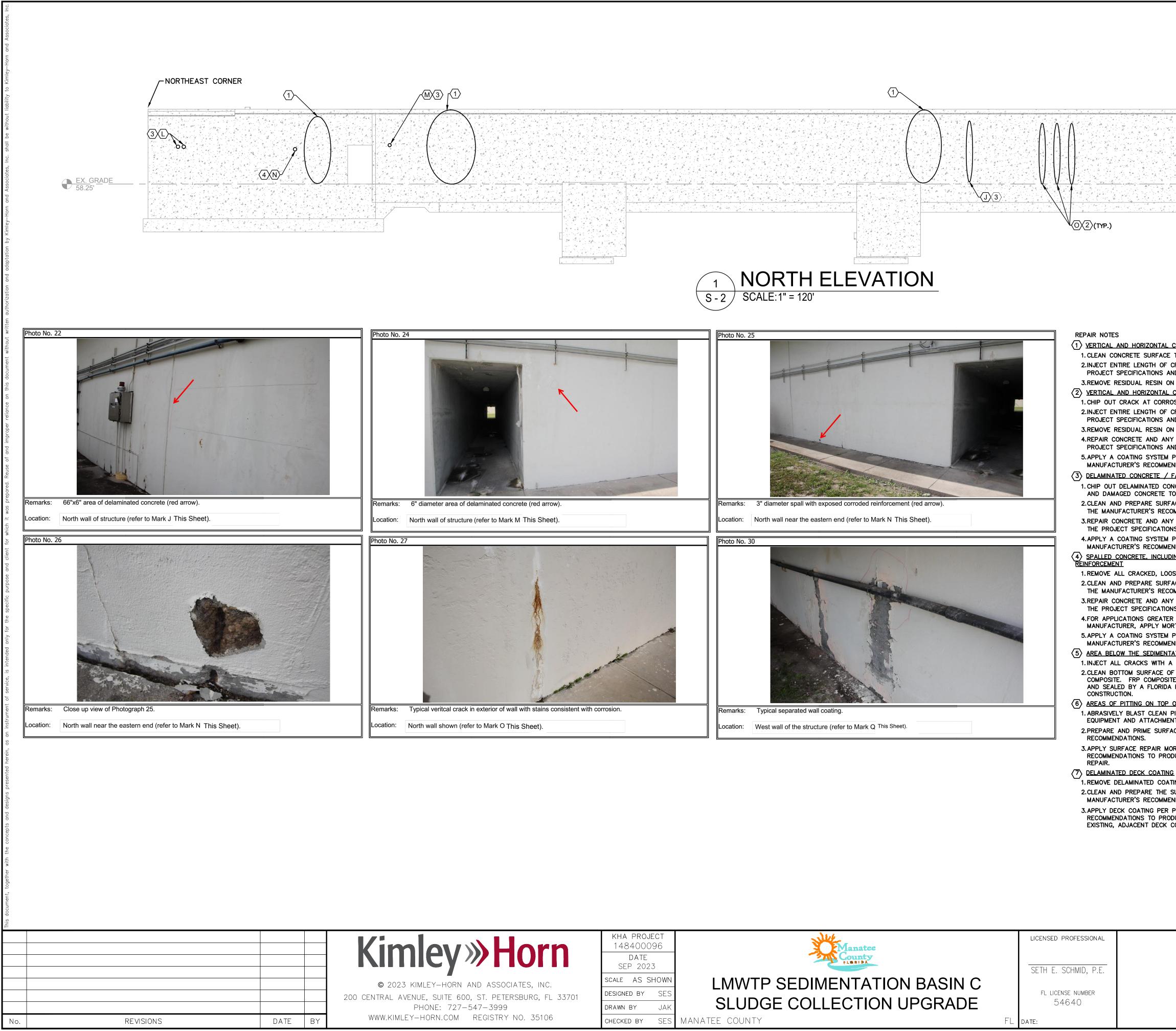


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180	·0"		20'-0"	38'-(
	CONCRETE WALKWAY			
	SCREW CONVEYOR TROUGH			
	CONCRETE T-WALL			
	CONCRETE WALKWAY			
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	CONCRETE WALKWAY			



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S - 2



NORTHWEST CORNER-

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1 VERTICAL AND HORIZONTAL CRACKS WITH EFFLORESCENCE AND/OR ALGAE STAINS 1. CLEAN CONCRETE SURFACE TO COMPLETELY REMOVE EFFLORESCENCE AND ALGAE STAINS. 2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. 3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM THE CRACK. (2) VERTICAL AND HORIZONTAL CRACKS WITH CORROSION STAINS

1. CHIP OUT CRACK AT CORROSION STAIN TO EXPOSE UNDERLYING REINFORCEMENT. 2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM THE CRACK. 4.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

5. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09900 AND THE MANUFACTURER'S RECOMMENDATIONS.

(3) DELAMINATED CONCRETE / FAILED PATCHES

1. CHIP OUT DELAMINATED CONCRETE AND/OR EXISTING PATCH MATERIAL. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND MATERIAL.

2. CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.

3.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

4. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09900 AND THE MANUFACTURER'S RECOMMENDATIONS. (4) SPALLED CONCRETE, INCLUDING INCIPIENT SPALLS. WITH OR WITHOUT EXPOSED, CORRODED

1. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND MATERIAL.

2.CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.

3. REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. 4.FOR APPLICATIONS GREATER THAN THE MAXIMUM LIFT THICKNESS RECOMMENDED BY THE MANUFACTURER, APPLY MORTAR IN LIFTS. SCOUR TOP SURFACE OF EACH INTERMEDIATE LIFT.

5.APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09900 AND THE MANUFACTURER'S RECOMMENDATIONS.

(5) AREA BELOW THE SEDIMENTATION AND FLOCCULATION BASINS 1. INJECT ALL CRACKS WITH A REPAIR EPOXY.

2.CLEAN BOTTOM SURFACE OF CONCRETE SLAB AND REINFORCE WITHIN LIMITS SHOWN WITH FRP COMPOSITE. FRP COMPOSITE TO BE DESIGNED BY DELEGATE ENGINEER. SUBMIT CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER PRIOR TO FABRICATION AND

(6) AREAS OF PITTING ON TOP OF WALKWAYS

1. ABRASIVELY BLAST CLEAN PITTED SURFACES OF EXISTING CONCRETE DECK. PROTECT EXISTING EQUIPMENT AND ATTACHMENTS ON DECK FROM DAMAGE. 2.PREPARE AND PRIME SURFACE FOR REPAIR PER PROJECT SPECIFICATIONS AND MANUFACTURER'S

3. APPLY SURFACE REPAIR MORTAR PER PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. PROVIDE A BROOM FINISH ON

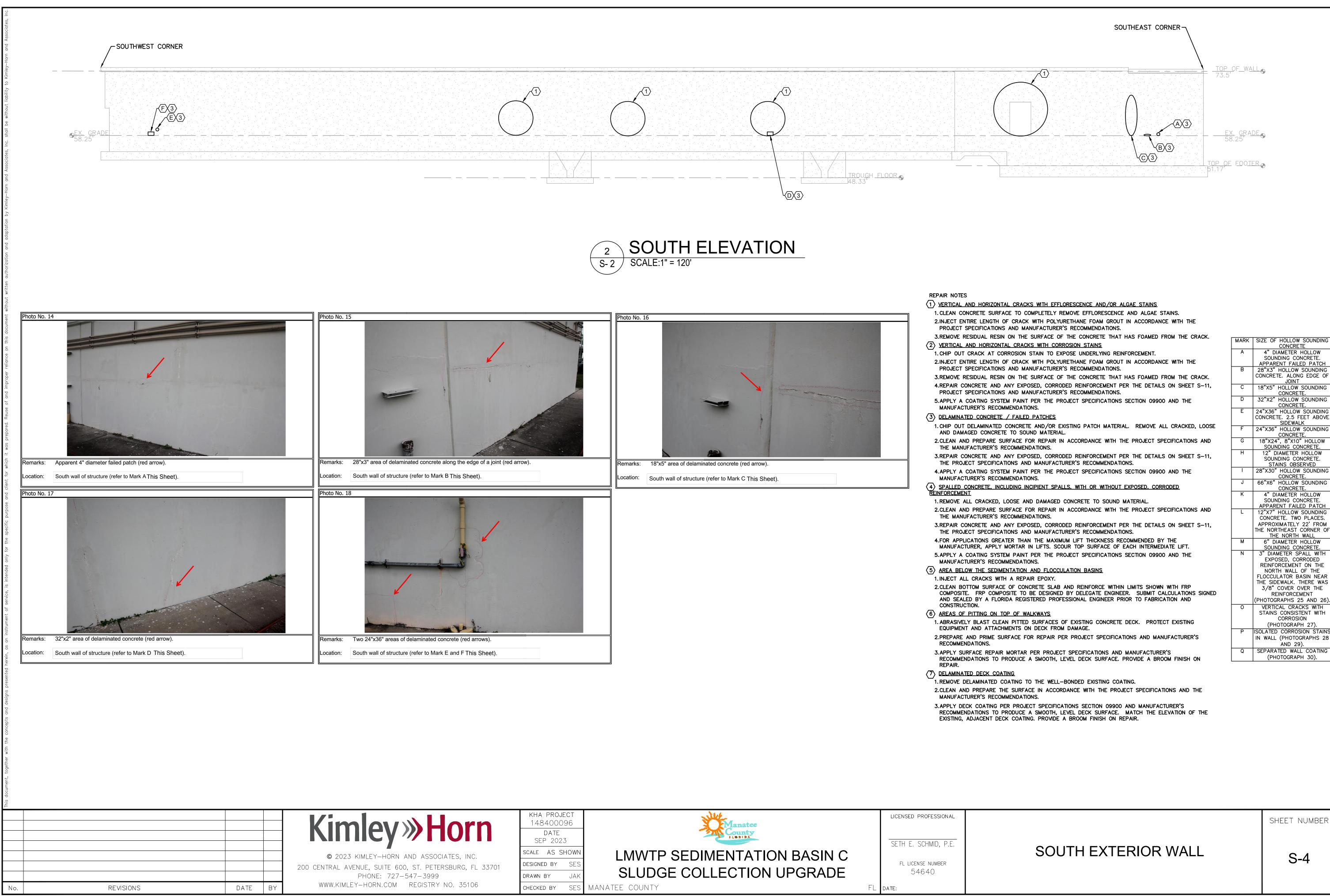
1. REMOVE DELAMINATED COATING TO THE WELL-BONDED EXISTING COATING. 2. CLEAN AND PREPARE THE SURFACE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.

3. APPLY DECK COATING PER PROJECT SPECIFICATIONS SECTION 09900 AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. MATCH THE ELEVATION OF THE EXISTING, ADJACENT DECK COATING. PROVIDE A BROOM FINISH ON REPAIR.

MARK	SIZE OF HOLLOW SOUNDING CONCRETE
A	4" DIAMETER HOLLOW
	SOUNDING CONCRETE.
	APPARENT FAILED PATCH
B	28"X3" HOLLOW SOUNDING
	CONCRETE. ALONG EDGE OF
С	JOINT 18"X5" HOLLOW SOUNDING
	CONCRETE.
D	CONCRETE. 32"X2" HOLLOW SOUNDING
E	CONCRETE. 24"X36" HOLLOW SOUNDING
_	CONCRETE. 2.5 FEET ABOVE
	SIDEWALK
F	SIDEWALK 24"X36" HOLLOW SOUNDING
G	CONCRETE. 18"X24", 8"X10" HOLLOW
Ĭ	SOUNDING CONCRETE
н	SOUNDING CONCRETE. 12" DIAMETER HOLLOW
	SOUNDING CONCRETE.
	STAINS OBSEDVED
	STAINS OBSERVED 28"X30" HOLLOW SOUNDING
	28 X30 HOLLOW SOUNDING
J	CONCRETE. 66"X6" HOLLOW SOUNDING
	66 X6 HOLLOW SOUNDING
ĸ	CONCRETE. 4" DIAMETER HOLLOW
ĸ	4 DIAMETER HOLLOW
	SOUNDING CONCRETE.
	APPARENT FAILED PATCH
L	12"X7" HOLLOW SOUNDING
	CONCRETE. TWO PLACES.
	APPROXIMATELY 22' FROM
	THE NORTHEAST CORNER OF
	THE NORTH WALL 6" DIAMETER HOLLOW
М	6" DIAMETER HOLLOW
	SOUNDING CONCRETE. 3" DIAMETER SPALL WITH
N	3" DIAMETER SPALL WITH
	EXPOSED, CORRODED
	REINFORCEMENT ON THE
	NORTH WALL OF THE
	FLOCCULATOR BASIN NEAR
	THE SIDEWALK. THERE WAS
	3/8" COVER OVER THE
	REINFORCEMENT
	(PHOTOGRAPHS 25 AND 26).
0	VERTICAL CRACKS WITH
_	STAINS CONSISTENT WITH
	CORROSION
	(PHOTOGRAPH 27).
P	ISOLATED CORROSION STAINS
'	IN WALL (PHOTOGRAPHS 28
	AND 29).
Q	SEPARATED WALL COATING
	(PHOTOGRAPH 30).

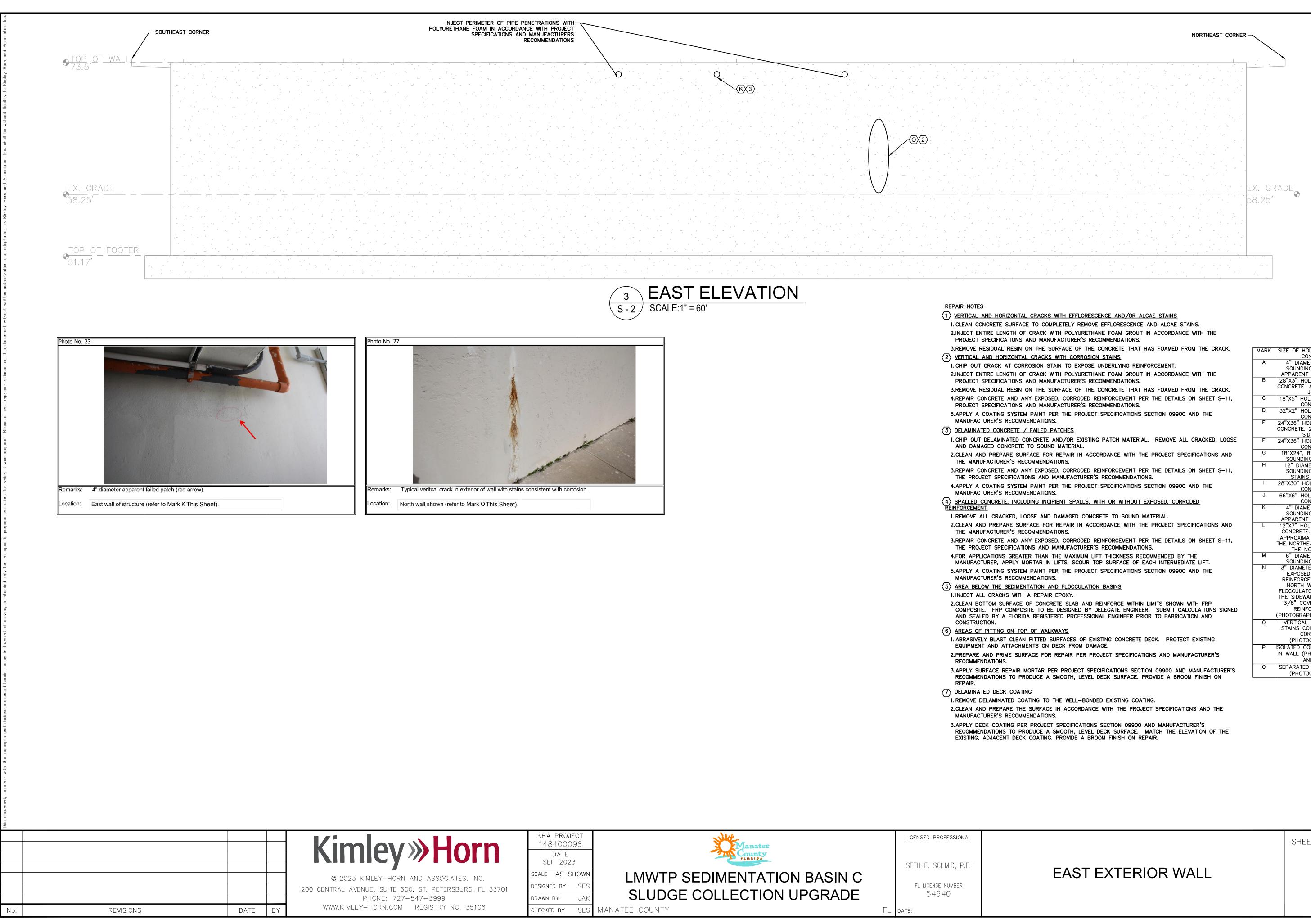
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NORTH EXTERIOR WALL



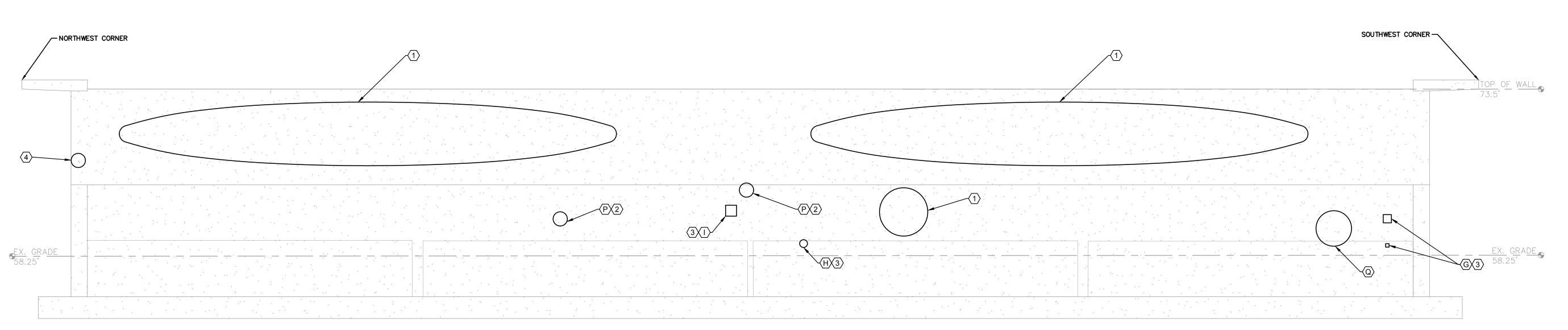
	CONCRETE
A	4" DIAMETER HOLLOW
	SOUNDING CONCRETE.
	APPARENT FAILED PATCH
В	28"X3" HOLLOW SOUNDING
	CONCRETE. ALONG EDGE OF
c	JOINT 18"X5" HOLLOW SOUNDING
	CONCRETE.
D	32"X2" HOLLOW SOUNDING CONCRETE.
E	24"X36" HOLLOW SOUNDING
	CONCRETE. 2.5 FEET ABOVE SIDEWALK
F	SIDEWALK 24"X36" HOLLOW SOUNDING
G	
	CONCRETE. 18"X24", 8"X10" HOLLOW SOUNDING CONCRETE.
н	12" DIAMETER HOLLOW
	SOUNDING CONCRETE.
	STAINS OBSERVED
·	28"X30" HOLLOW SOUNDING CONCRETE. 66"X6" HOLLOW SOUNDING
J	66"X6" HOLLOW SOUNDING
	CONCRETE.
K	4" DIAMETER HOLLOW
	SOUNDING CONCRETE. APPARENT FAILED PATCH
	12"X7" HOLLOW SOUNDING
-	CONCRETE. TWO PLACES.
	APPROXIMATELY 22' FROM
	THE NORTHEAST CORNER OF
	THE NORTH WALL
М	6" DIAMETER HOLLOW
	SOUNDING CONCRETE. 3" DIAMETER SPALL WITH
N	3" DIAMETER SPALL WITH EXPOSED, CORRODED
	REINFORCEMENT ON THE
	NORTH WALL OF THE
	FLOCCULATOR BASIN NEAR
	THE SIDEWALK. THERE WAS
	3/8" COVER OVER THE
	REINFORCEMENT
	(PHOTOGRAPHS 25 AND 26).
0	VERTICAL CRACKS WITH
	STAINS CONSISTENT WITH
	CORROSION (PHOTOGRAPH 27).
P	ISOLATED CORROSION STAINS
"	IN WALL (PHOTOGRAPHS 28
	AND 29).
Q	SEPARATED WALL COATING
	(PHOTOGRAPH 30).

SHEET NUMBER

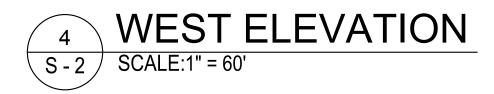


MARK	SIZE OF HOLLOW SOUNDING CONCRETE
Α	4" DIAMETER HOLLOW
	SOUNDING CONCRETE.
	APPARENT FAILED PATCH
В	28"X3" HOLLOW SOUNDING
	CONCRETE. ALONG EDGE OF
	JOINT
С	JOINT 18"X5" HOLLOW SOUNDING
-	CONCRETE.
D	32"X2" HOLLOW SOUNDING
0	CONCRETE.
E	24"X36" HOLLOW SOUNDING
Ľ	CONCRETE. 2.5 FEET ABOVE
	SIDEWALK
F	24"X36" HOLLOW SOUNDING
	CONCRETE.
G	18"X24", 8"X10" HOLLOW
	SOUNDING CONCRETE.
Н	12" DIAMETER HOLLOW
	SOUNDING CONCRETE.
	STAINS OBSERVED
	28"X30" HOLLOW SOUNDING
	CONCRETE.
J	CONCRETE. 66"X6" HOLLOW SOUNDING
	CONCRETE.
K	4" DIAMETER HOLLOW
	SOUNDING CONCRETE.
	APPARENT FAILED PATCH
	12"X7" HOLLOW SOUNDING
-	CONCRETE TWO PLACES
	CONCRETE. TWO PLACES. APPROXIMATELY 22' FROM
	THE NORTHEAST CORNER OF
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0	VERTICAL CRACKS WITH
	STAINS CONSISTENT WITH
	CORROSION
	(PHOTOGRAPH 27).
Р	ISOLATED CORROSION STAINS
•	IN WALL (PHOTOGRAPHS 28
	AND 29).
Q	SEPARATED WALL COATING
	(PHOTOGRAPH 30).

SHEET NUMBER







WEST EXTERIOR WALL

RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. PROVIDE A BROOM FINISH ON

1. REMOVE DELAMINATED COATING TO THE WELL-BONDED EXISTING COATING. 2. CLEAN AND PREPARE THE SURFACE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE

MANUFACTURER'S RECOMMENDATIONS.

3. APPLY DECK COATING PER PROJECT SPECIFICATIONS SECTION 09900 AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. MATCH THE ELEVATION OF THE EXISTING, ADJACENT DECK COATING. PROVIDE A BROOM FINISH ON REPAIR.

24"X36" HOLLOW SOUNDING CONCRETE. 18"X24", 8"X10" HOLLOW SOUNDING CONCRETE. 12" DIAMETER HOLLOW SOUNDING CONCRETE. STAINS OBSERVED 28"X30" HOLLOW SOUNDING CONCRETE. 66"X6" HOLLOW SOUNDING CONCRETE. 4" DIAMETER HOLLOW SOUNDING CONCRETE. APPARENT FAILED PATCH 12"X7" HOLLOW SOUNDING CONCRETE. TWO PLACES. APPROXIMATELY 22' FROM THE NORTHEAST CORNER OF THE NORTH WALL 6" DIAMETER HOLLOW SOUNDING CONCRETE. EXPOSED, CORRODED REINFORCEMENT ON THE NORTH WALL OF THE LOCCULATOR BASIN NEAR THE SIDEWALK. THERE WAS 3/8" COVER OVER THE REINFORCEMENT PHOTOGRAPHS 25 AND 26) VERTICAL CRACKS WITH STAINS CONSISTENT WITH CORROSION (PHOTOGRAPH 27). P ISOLATED CORROSION STAINS IN WALL (PHOTOGRAPHS 28 AND 29). Q SEPARATED WALL COATING (PHOTOGRAPH 30).

MARK | SIZE OF HOLLOW SOUNDING

B 28"X3" HOLLOW SOUNDING

D 32"X2" HOLLOW SOUNDING

E 24"X36" HOLLOW SOUNDING

CONCRETE 4" DIAMETER HOLLOW SOUNDING CONCRETE. APPARENT FAILED PATCH

CONCRETE. ALONG EDGE OF

CONCRETE.

CONCRETE.

CONCRETE. 2.5 FEET ABOVE

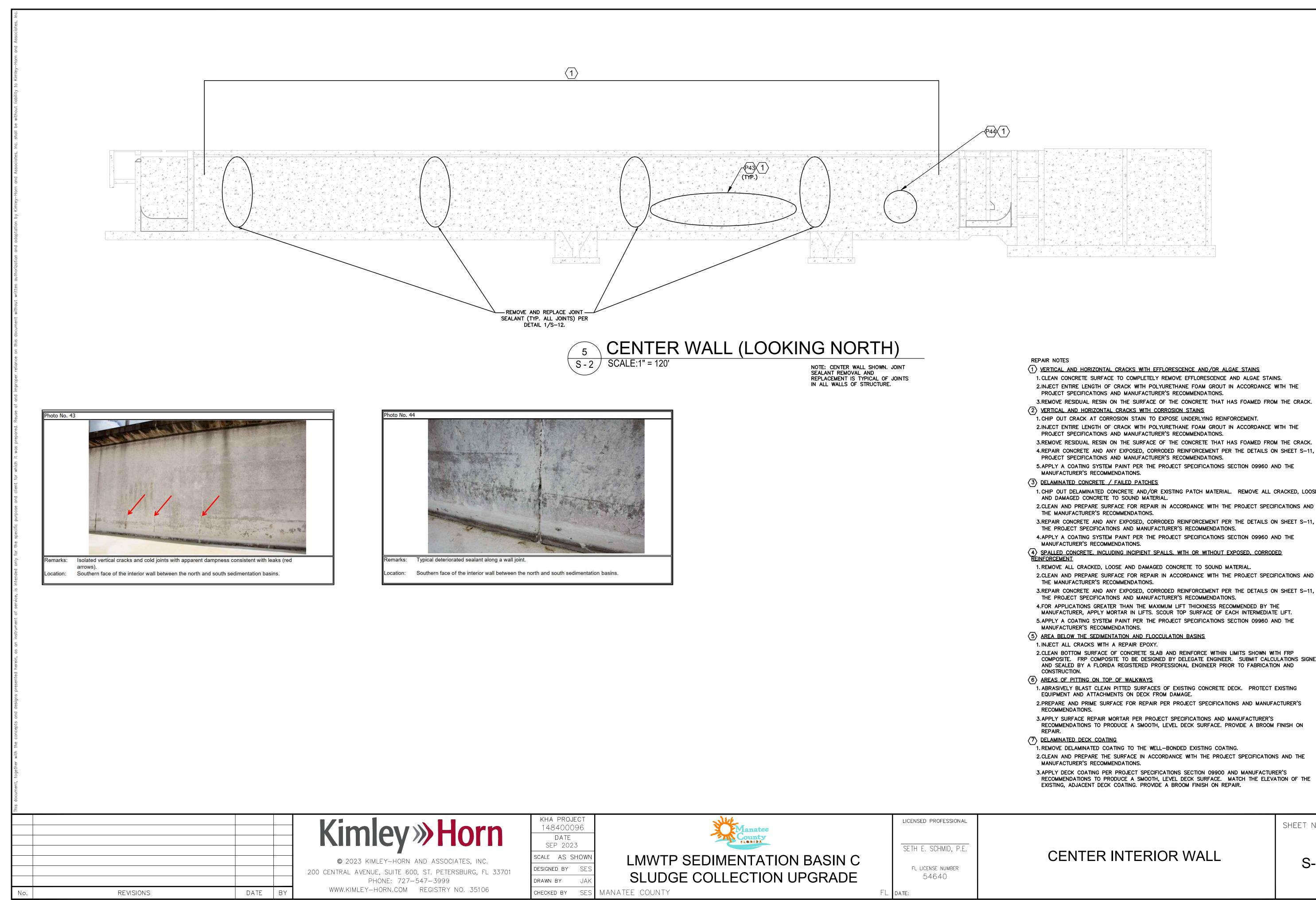
SIDEWALK

JOINT 18"X5" HOLLOW SOUNDING

REPAIR NOTES (1) VERTICAL AND HORIZONTAL CRACKS WITH EFFLORESCENCE AND/OR ALGAE STAINS

1. CLEAN CONCRETE SURFACE TO COMPLETELY REMOVE EFFLORESCENCE AND ALGAE STAINS.

SHEET NUMBER



- 1 VERTICAL AND HORIZONTAL CRACKS WITH EFFLORESCENCE AND/OR ALGAE STAINS
- 1. CLEAN CONCRETE SURFACE TO COMPLETELY REMOVE EFFLORESCENCE AND ALGAE STAINS. 2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE
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- 3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM THE CRACK. 4.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11,
- 5. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AND THE
- 1. CHIP OUT DELAMINATED CONCRETE AND/OR EXISTING PATCH MATERIAL. REMOVE ALL CRACKED, LOOSE
- 3.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- (4) <u>SPALLED CONCRETE. INCLUDING INCIPIENT SPALLS. WITH OR WITHOUT EXPOSED. CORRODED</u>

- 2. CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND
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- 4.FOR APPLICATIONS GREATER THAN THE MAXIMUM LIFT THICKNESS RECOMMENDED BY THE
- MANUFACTURER, APPLY MORTAR IN LIFTS. SCOUR TOP SURFACE OF EACH INTERMEDIATE LIFT. 5.APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AND THE

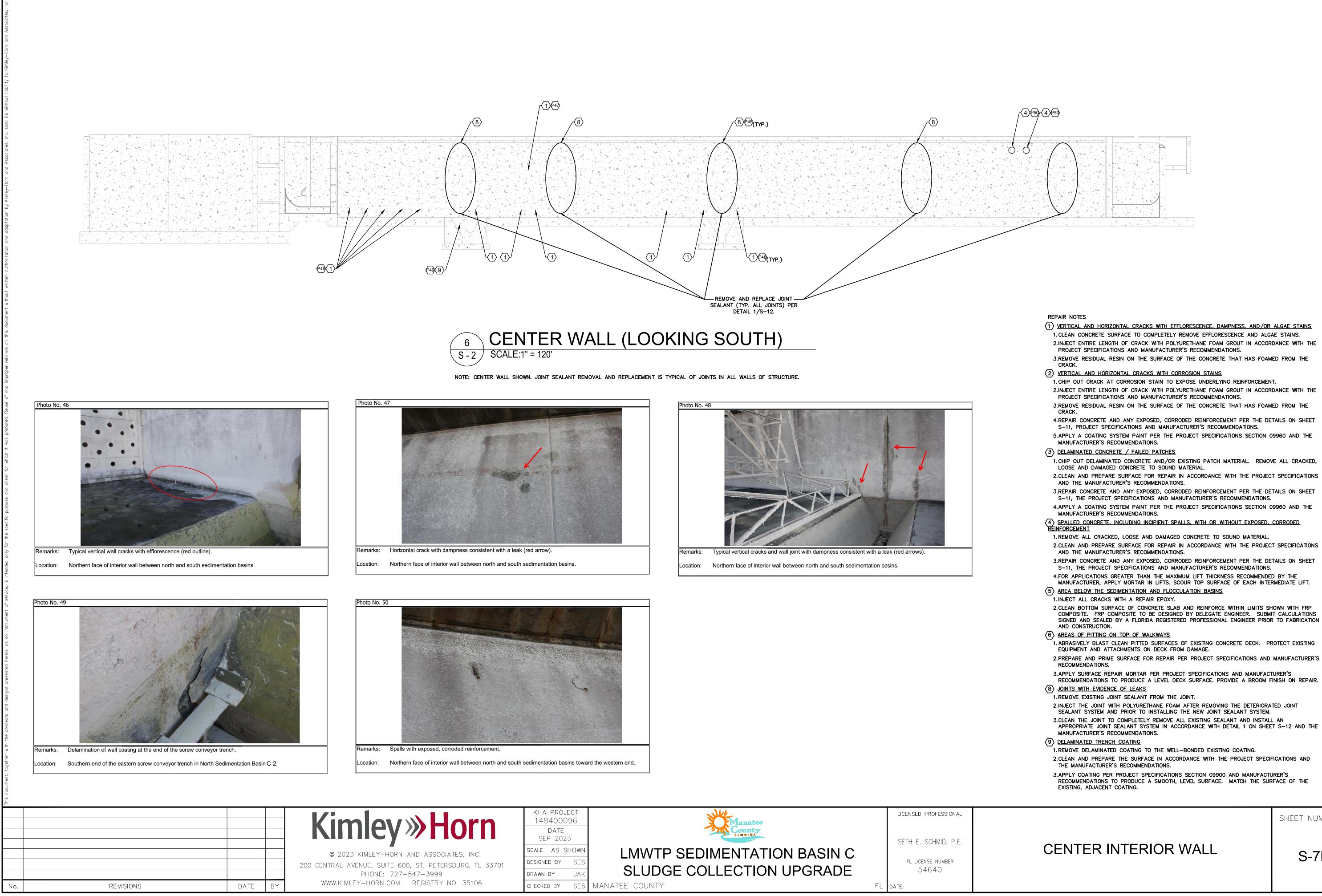
2.CLEAN BOTTOM SURFACE OF CONCRETE SLAB AND REINFORCE WITHIN LIMITS SHOWN WITH FRP COMPOSITE. FRP COMPOSITE TO BE DESIGNED BY DELEGATE ENGINEER. SUBMIT CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER PRIOR TO FABRICATION AND

- 1. ABRASIVELY BLAST CLEAN PITTED SURFACES OF EXISTING CONCRETE DECK. PROTECT EXISTING
- RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. PROVIDE A BROOM FINISH ON
- 1. REMOVE DELAMINATED COATING TO THE WELL-BONDED EXISTING COATING.
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- 3. APPLY DECK COATING PER PROJECT SPECIFICATIONS SECTION 09900 AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. MATCH THE ELEVATION OF THE EXISTING, ADJACENT DECK COATING. PROVIDE A BROOM FINISH ON REPAIR.

SHEET NUMBER

S-7A

CENTER INTERIOR WALL



CENTER INTERIOR WALL

SHEET NUMBER

S-7B

SEALANT SYSTEM AND PRIOR TO INSTALLING THE NEW JOINT SEALANT SYSTEM.

3. CLEAN THE JOINT TO COMPLETELY REMOVE ALL EXISTING SEALANT AND INSTALL AN APPROPRIATE JOINT SEALANT SYSTEM IN ACCORDANCE WITH DETAIL 1 ON SHEET S-12 AND THE

- 1. REMOVE DELAMINATED COATING TO THE WELL-BONDED EXISTING COATING.

2.CLEAN AND PREPARE THE SURFACE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND

3.APPLY COATING PER PROJECT SPECIFICATIONS SECTION 09900 AND MANUFACTURER'S

RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL SURFACE. MATCH THE SURFACE OF THE

SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER PRIOR TO FABRICATION

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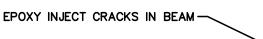
2.CLEAN BOTTOM SURFACE OF CONCRETE SLAB AND REINFORCE WITHIN LIMITS SHOWN WITH FRP COMPOSITE. FRP COMPOSITE TO BE DESIGNED BY DELEGATE ENGINEER. SUBMIT CALCULATIONS

- MANUFACTURER, APPLY MORTAR IN LIFTS. SCOUR TOP SURFACE OF EACH INTERMEDIATE LIFT.
- 4.FOR APPLICATIONS GREATER THAN THE MAXIMUM LIFT THICKNESS RECOMMENDED BY THE (5) AREA BELOW THE SEDIMENTATION AND FLOCCULATION BASINS
- S-11, THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- 3.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET
- 2.CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS
- 1. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND MATERIAL.
- (4) SPALLED CONCRETE. INCLUDING INCIPIENT SPALLS. WITH OR WITHOUT EXPOSED. CORRODED
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- 2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE
- $\langle 2 \rangle$ vertical and horizontal cracks with corrosion stains 1. CHIP OUT CRACK AT CORROSION STAIN TO EXPOSE UNDERLYING REINFORCEMENT.
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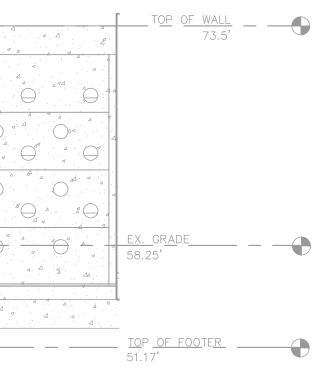
(1) VERTICAL AND HORIZONTAL CRACKS WITH EFFLORESCENCE. DAMPNESS. AND/OR ALGAE STAINS 1. CLEAN CONCRETE SURFACE TO COMPLETELY REMOVE EFFLORESCENCE AND ALGAE STAINS.

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			© 2023 KIMLEY-HORN AND ASSOCIATES, INC.	SEP 2023 SCALE AS SHOWN	LMWTP SEDIMENTATION BASIN C	SETH E. SCHMID, P.E.
			200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701	DESIGNED BY SES	SLUDGE COLLECTION UPGRADE	FL LICENSE NUMBER 54640
			PHONE: 727-547-3999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	DRAWN BY JAK CHECKED BY SES MAN	NATEE COUNTY	FL DATE:
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REPAIR NOTES

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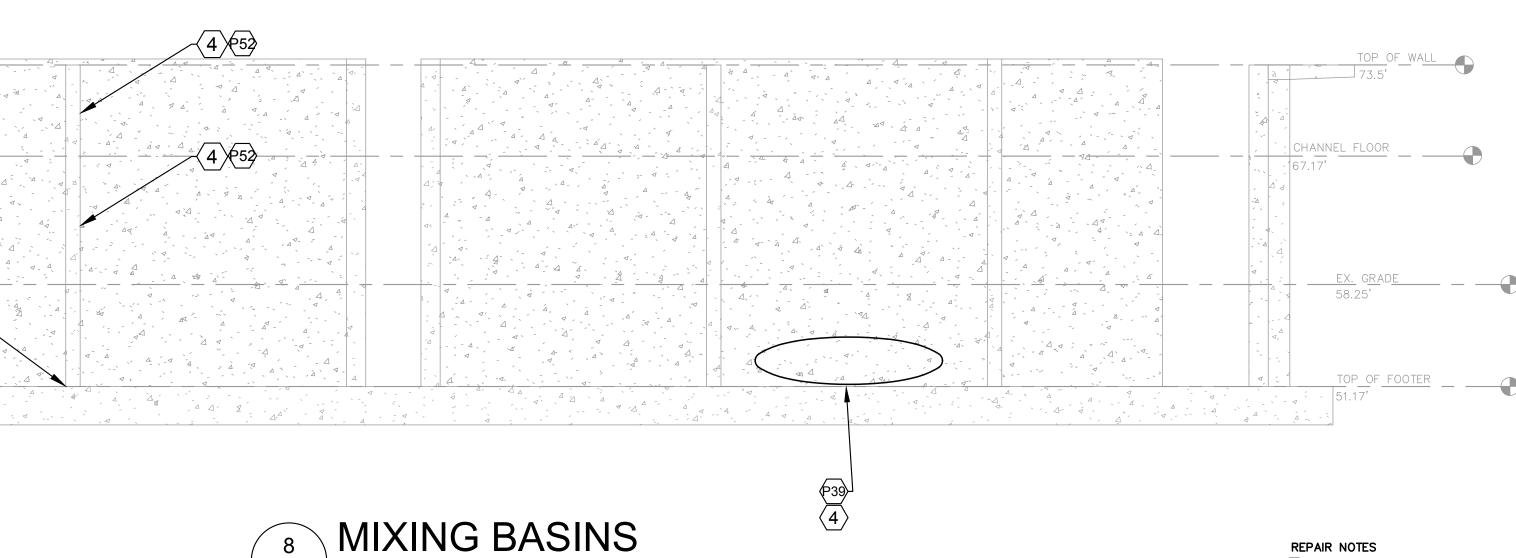
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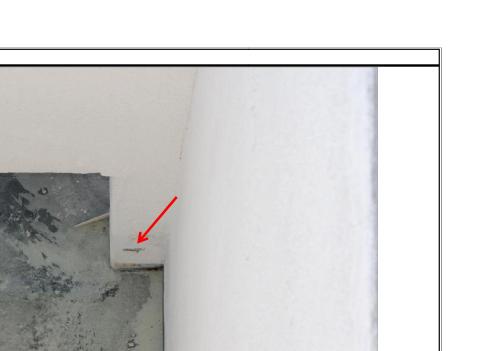
- 6 AREAS OF PITTING ON TOP OF WALKWAYS
- 1. ABRASIVELY BLAST CLEAN PITTED SURFACES OF EXISTING CONCRETE DECK. PROTECT EXISTING EQUIPMENT AND ATTACHMENTS ON DECK FROM DAMAGE. 2. PREPARE AND PRIME SURFACE FOR REPAIR PER PROJECT SPECIFICATIONS AND MANUFACTURER'S
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SHEET NUMBER

WEST INTERIOR WALL

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 No.	REVISIONS	 © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL PHONE: 727–547–3999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

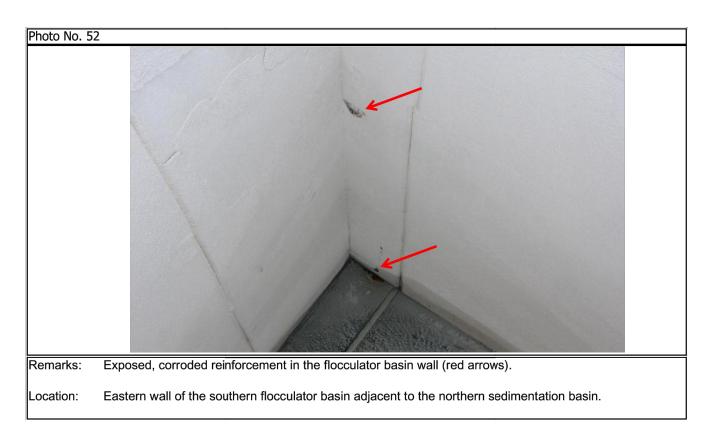




8

S-2 / SCALE:1" = 80'

cement in the flocculator basin wall (red arrow). le flocculator basin adjacent to the northern sedimentation basin.





REPAIR NOTES

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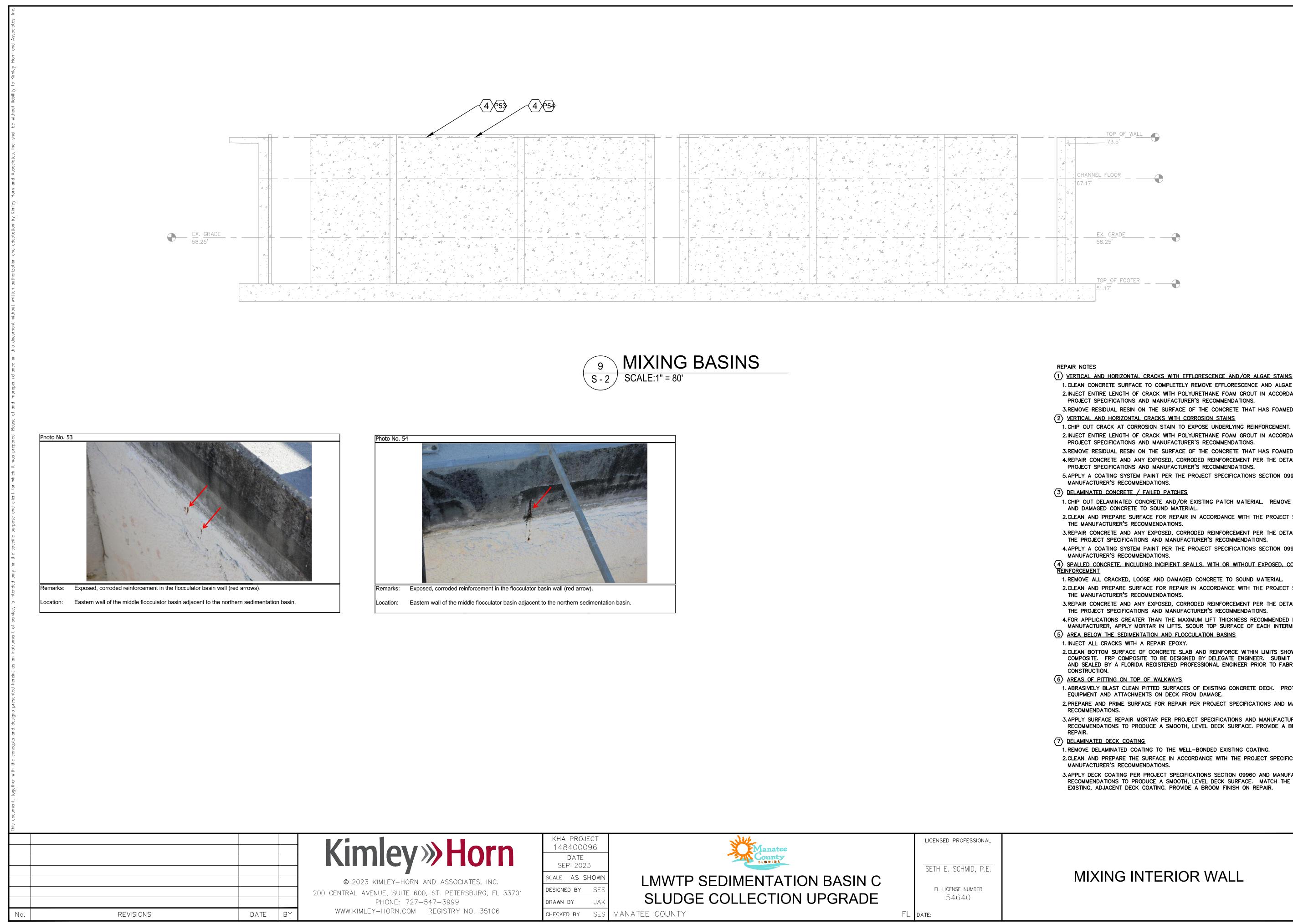
MANUFACTURER'S RECOMMENDATIONS. (4) <u>SPALLED CONCRETE. INCLUDING INCIPIENT SPALLS. WITH OR WITHOUT EXPOSED. CORRODED</u>

REINFORCEMENT

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S-9A

MIXING INTERIOR WALL



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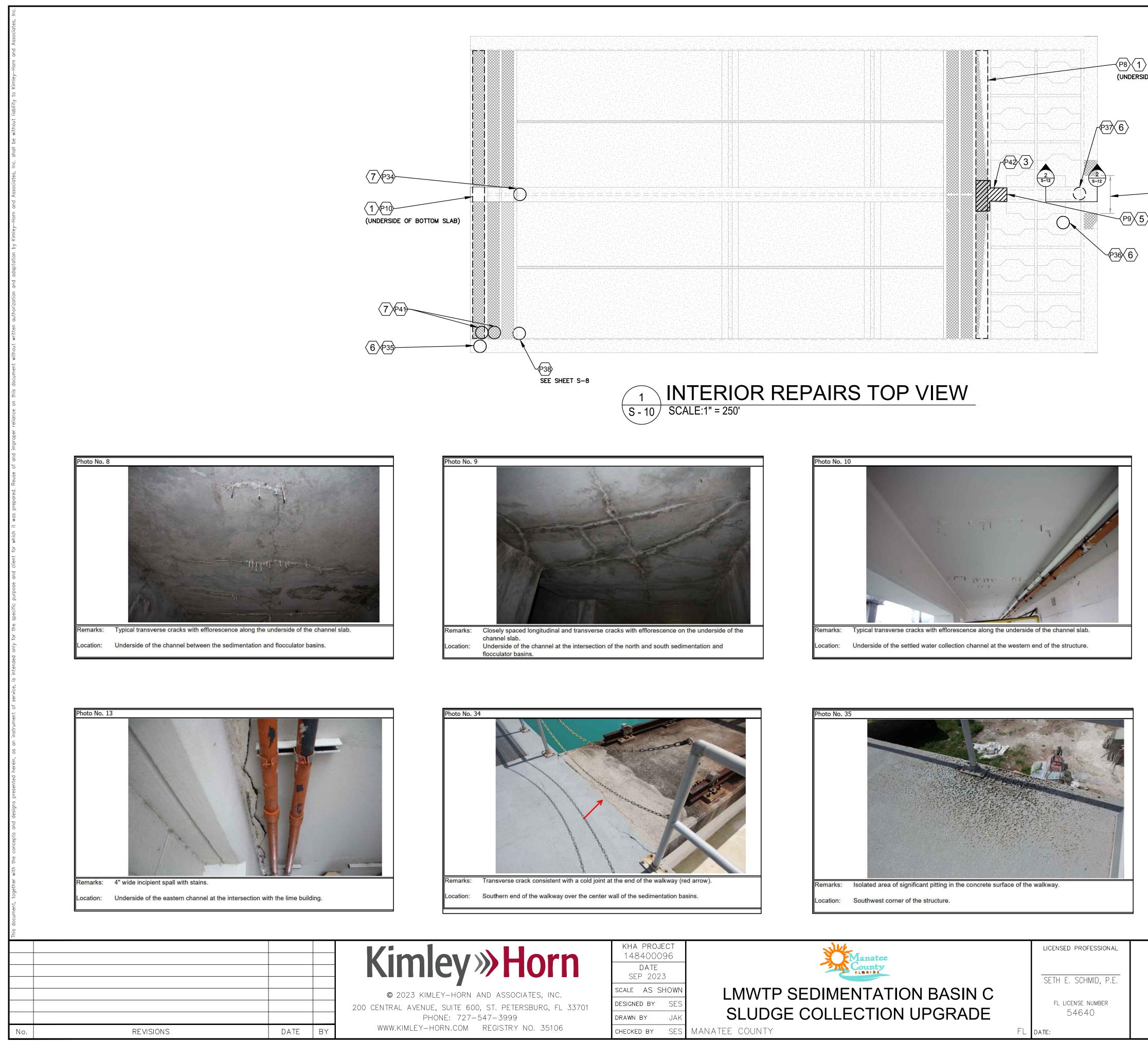


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MIXING INTERIOR WALL

S-9B



INTERIOR WALLS TOP VIEW

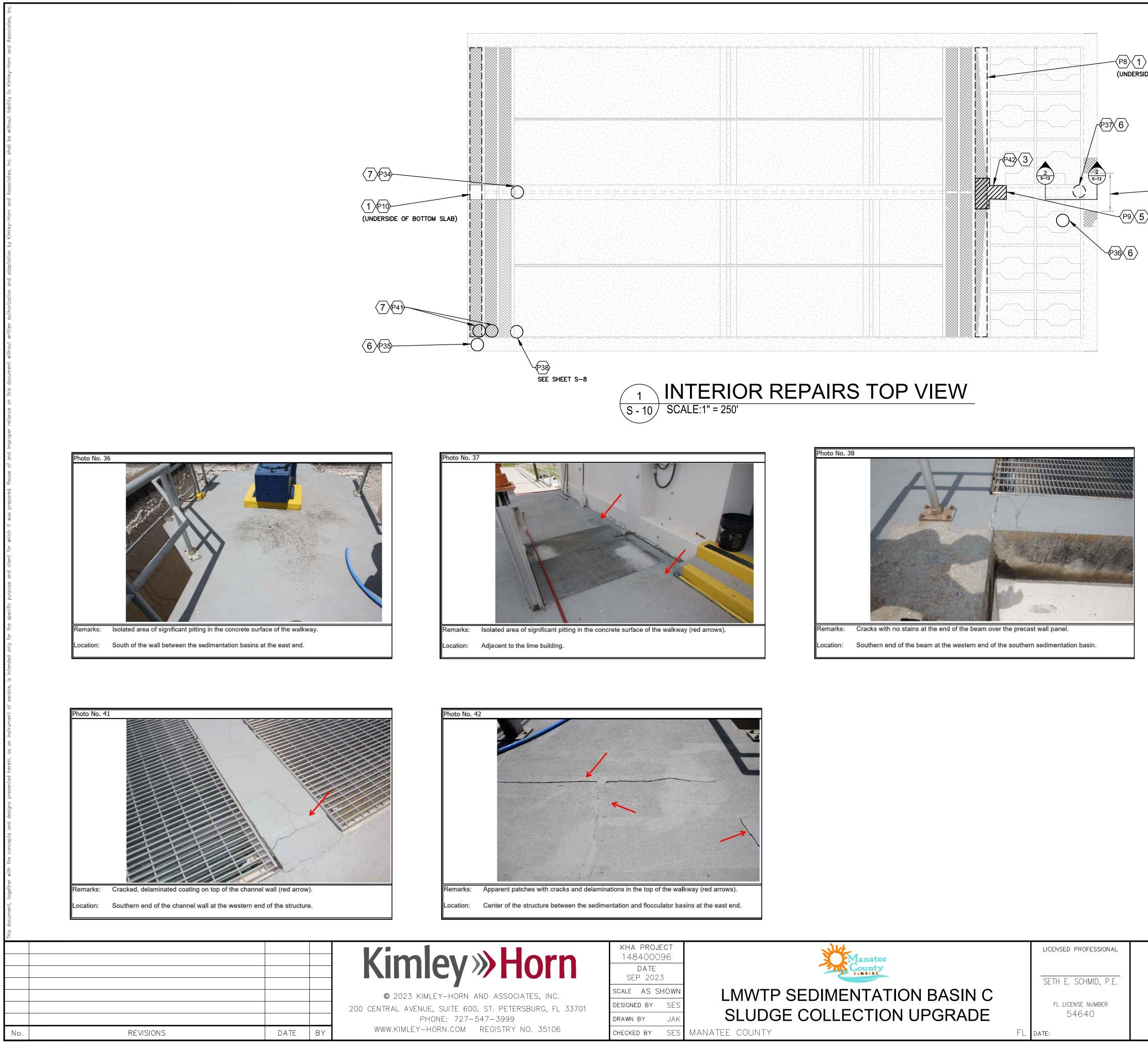
S-10A

TEINFORCEMENT	
1. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND MATERIAL.	
2. CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECI THE MANUFACTURER'S RECOMMENDATIONS.	FICATIONS AND
3.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS OF THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.	N SHEET S-11,
4.FOR APPLICATIONS GREATER THAN THE MAXIMUM LIFT THICKNESS RECOMMENDED BY TH MANUFACTURER, APPLY MORTAR IN LIFTS. SCOUR TOP SURFACE OF EACH INTERMEDIAT	
5. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 A MANUFACTURER'S RECOMMENDATIONS.	ND THE
5 AREA BELOW THE SEDIMENTATION AND FLOCCULATION BASINS	
1. INJECT ALL CRACKS WITH A REPAIR EPOXY.	
2.CLEAN BOTTOM SURFACE OF CONCRETE SLAB AND REINFORCE WITHIN LIMITS SHOWN WI COMPOSITE. FRP COMPOSITE TO BE DESIGNED BY DELEGATE ENGINEER. SUBMIT CALCU AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER PRIOR TO FABRICATIO CONSTRUCTION.	ULATIONS SIGNED
6 AREAS OF PITTING ON TOP OF WALKWAYS	
1. ABRASIVELY BLAST CLEAN PITTED SURFACES OF EXISTING CONCRETE DECK. PROTECT EQUIPMENT AND ATTACHMENTS ON DECK FROM DAMAGE.	EXISTING
2. PREPARE AND PRIME SURFACE FOR REPAIR PER PROJECT SPECIFICATIONS AND MANUFARECOMMENDATIONS.	ACTURER'S
3.APPLY SURFACE REPAIR MORTAR PER PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. PROVIDE A BROOM REPAIR.	FINISH ON
7) DELAMINATED DECK COATING	
2. CLEAN AND PREPARE THE SURFACE IN ACCORDANCE WITH THE PROJECT SPECIFICATION MANUFACTURER'S RECOMMENDATIONS.	S AND THE
3. APPLY DECK COATING PER PROJECT SPECIFICATIONS SECTION 09900 AND MANUFACTUR RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. MATCH THE ELEV/ EXISTING, ADJACENT DECK COATING. PROVIDE A BROOM FINISH ON REPAIR.	
	SHEET NUMBER

- MANUFACTURER'S RECOMMENDATIONS. 4 SPALLED CONCRETE, INCLUDING INCIPIENT SPALLS, WITH OR WITHOUT EXPOSED, CORRODED
- 4. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AND THE
- THE MANUFACTURER'S RECOMMENDATIONS. 3. REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- 1. CHIP OUT DELAMINATED CONCRETE AND/OR EXISTING PATCH MATERIAL. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND MATERIAL. 2.CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND
- 5. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AND THE MANUFACTURER'S RECOMMENDATIONS. (3) DELAMINATED CONCRETE / FAILED PATCHES
- 4.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- 1. CHIP OUT CRACK AT CORROSION STAIN TO EXPOSE UNDERLYING REINFORCEMENT. 2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. 3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM THE CRACK.
- 3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM THE CRACK. (2) VERTICAL AND HORIZONTAL CRACKS WITH CORROSION STAINS
- 1. CLEAN CONCRETE SURFACE TO COMPLETELY REMOVE EFFLORESCENCE AND ALGAE STAINS. 2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- REPAIR NOTES (1) VERTICAL AND HORIZONTAL CRACKS WITH EFFLORESCENCE AND/OR ALGAE STAINS

SEE DETAIL 2 ON SHEET S-12 (HATCH INDICATES APPROXIMATE LIMITS OF FRP COMPOSITE ON UNDERSIDE OF BOTTOM SLAB)

(UNDERSIDE OF BOTTOM SLAB)



INTERIOR WALLS TOP VIEW

S-10B

3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM	I THE CRACK.
4.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS OF PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.	N SHEET S-11,
5. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AI MANUFACTURER'S RECOMMENDATIONS.	ND THE
3 DELAMINATED CONCRETE / FAILED PATCHES	
1. CHIP OUT DELAMINATED CONCRETE AND/OR EXISTING PATCH MATERIAL. REMOVE ALL C AND DAMAGED CONCRETE TO SOUND MATERIAL.	CRACKED, LOOSE
2.CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIF THE MANUFACTURER'S RECOMMENDATIONS.	FICATIONS AND
3.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS OF THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.	N SHEET S-11,
4. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AI MANUFACTURER'S RECOMMENDATIONS.	ND THE
4 SPALLED CONCRETE. INCLUDING INCIPIENT SPALLS. WITH OR WITHOUT EXPOSED. CORROD REINFORCEMENT	<u>ED</u>
1. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND MATERIAL.	
2.CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIF THE MANUFACTURER'S RECOMMENDATIONS.	FICATIONS AND
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6 AREAS OF PITTING ON TOP OF WALKWAYS	
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2. PREPARE AND PRIME SURFACE FOR REPAIR PER PROJECT SPECIFICATIONS AND MANUFA RECOMMENDATIONS.	CTURER'S
3. APPLY SURFACE REPAIR MORTAR PER PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. PROVIDE A BROOM REPAIR.	FINISH ON
7 DELAMINATED DECK COATING	
1. REMOVE DELAMINATED COATING TO THE WELL-BONDED EXISTING COATING.	
2. CLEAN AND PREPARE THE SURFACE IN ACCORDANCE WITH THE PROJECT SPECIFICATION MANUFACTURER'S RECOMMENDATIONS.	S AND THE
3. APPLY DECK COATING PER PROJECT SPECIFICATIONS SECTION 09900 AND MANUFACTUR RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. MATCH THE ELEVA EXISTING, ADJACENT DECK COATING. PROVIDE A BROOM FINISH ON REPAIR.	
	SHEET NUMBER

REPAIR NOTES

 $\langle 1 \rangle$ vertical and horizontal cracks with efflorescence and/or algae stains

1. CHIP OUT CRACK AT CORROSION STAIN TO EXPOSE UNDERLYING REINFORCEMENT.

PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

(2) VERTICAL AND HORIZONTAL CRACKS WITH CORROSION STAINS

1. CLEAN CONCRETE SURFACE TO COMPLETELY REMOVE EFFLORESCENCE AND ALGAE STAINS.

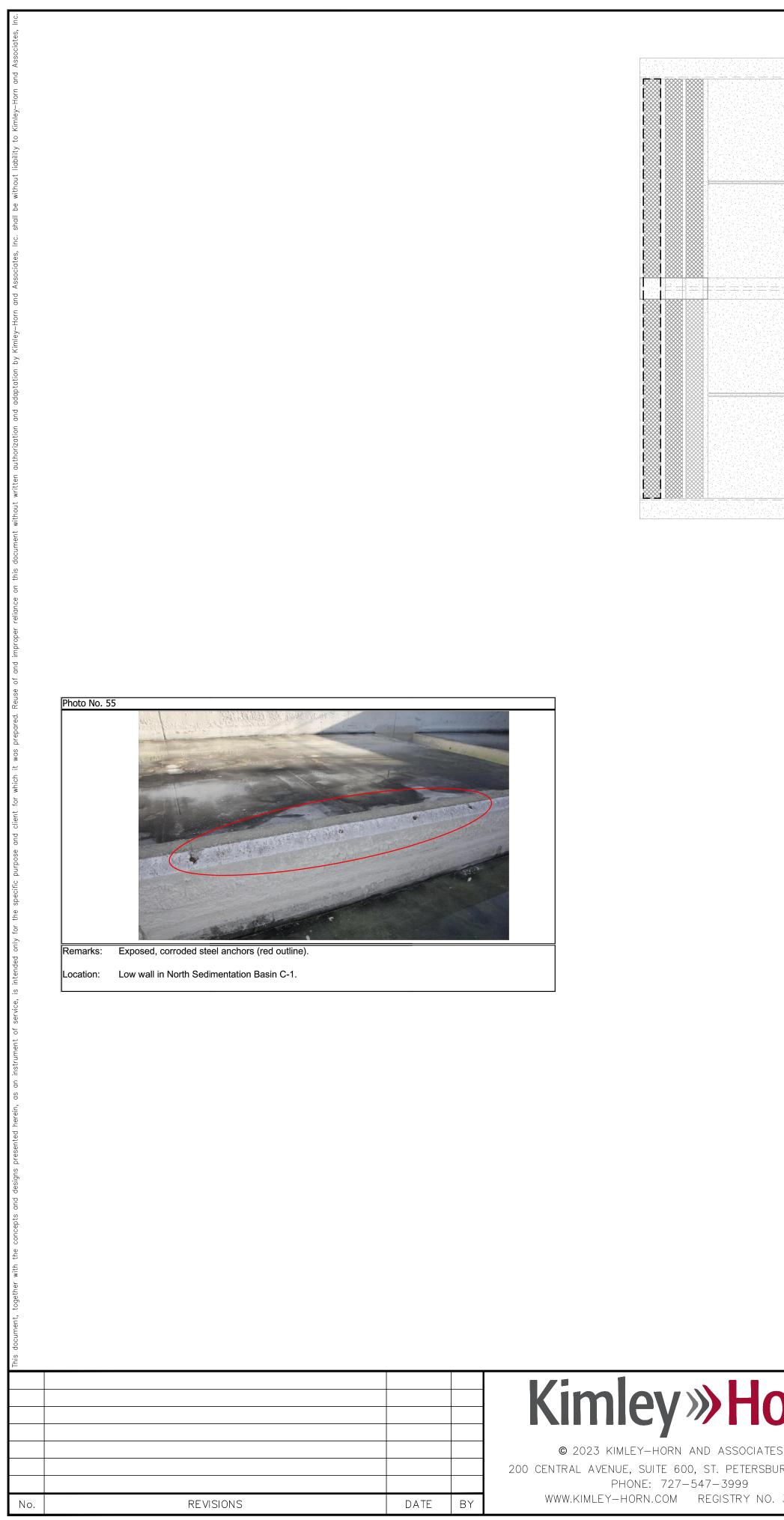
2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE

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3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM THE CRACK.

SEE DETAIL 2 ON SHEET S-12 (HATCH INDICATES APPROXIMATE LIMITS OF FRP COMPOSITE ON UNDERSIDE OF BOTTOM SLAB)

(UNDERSIDE OF BOTTOM SLAB)



	P55(11)	



REPAIR NOTES

(2) VERTICAL AND HORIZONTAL CRACKS WITH CORROSION STAINS 1. CHIP OUT CRACK AT CORROSION STAIN TO EXPOSE UNDERLYING REINFORCEMENT.

MANUFACTURER'S RECOMMENDATIONS.

(3) DELAMINATED CONCRETE / FAILED PATCHES

MATERIAL.

1. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND MATERIAL. 2.CLEAN AND PREPARE SURFACE FOR REPAIR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS. 3. REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, THE PROJECT SPECIFICATIONS AND

MANUFACTURER'S RECOMMENDATIONS. 4.FOR APPLICATIONS GREATER THAN THE MAXIMUM LIFT THICKNESS RECOMMENDED BY THE MANUFACTURER, APPLY MORTAR IN LIFTS. SCOUR TOP

SURFACE OF EACH INTERMEDIATE LIFT.

1. INJECT ALL CRACKS WITH A REPAIR EPOXY. 2. CLEAN BOTTOM SURFACE OF CONCRETE SLAB AND REINFORCE WITHIN LIMITS SHOWN WITH FRP COMPOSITE. FRP COMPOSITE TO BE DESIGNED BY DELEGATE ENGINEER. SUBMIT CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER PRIOR TO

FABRICATION AND CONSTRUCTION. (6) AREAS OF PITTING ON TOP OF WALKWAYS

DAMAGE.

(7) <u>DELAMINATED DECK COATING</u>

(11) EXPOSED STEEL ANCHORS 1. REMOVE CONCRETE IN THE VICINITY OF THE EMBEDDED STEEL ANCHOR TO A DEPTH OF 2 INCHES.

2.CUT OFF THE STEEL ANCHOR FLUSH WITH THE BOTTOM OF THE CHIPPED CONCRETE.

THE MANUFACTURER'S RECOMMENDATIONS.

)rn	KHA PROJECT 148400096 DATE	Manatee		LICENSED PROFESSIONAL	
	SEP 2023	FLORIDA		SETH E. SCHMID, P.E.	
S. INC.	scale AS SHOW	LMWTP SEDIMENTATION BASIN C			
IRG, FL 33701	DESIGNED BY SE			FL LICENSE NUMBER	
	DRAWN BY JA	SLUDGE COLLECTION UPGRADE		54640	
35106	CHECKED BY SE	MANATEE COUNTY	FL	DATE:	
	-			-	-

INTERIOR WALLS TOP VIEW

SHEET NUMBER

S-10C

SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS. 4. REPAIR THE AREA FLUSH WITH THE WALL USING AN APPROPRIATE REPAIR MORTAR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND

3. COAT THE AREA TO BE REPAIRED WITH A BONDING AGENT CONTAINING A CORROSION INHIBITOR IN ACCORDANCE WITH THE PROJECT

1. REMOVE DELAMINATED COATING TO THE WELL-BONDED EXISTING COATING. 2.CLEAN AND PREPARE THE SURFACE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS. 3. APPLY DECK COATING PER PROJECT SPECIFICATIONS SECTION 09900 AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE. MATCH THE ELEVATION OF THE EXISTING, ADJACENT DECK COATING. PROVIDE A BROOM FINISH ON REPAIR.

3. APPLY SURFACE REPAIR MORTAR PER PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS TO PRODUCE A LEVEL DECK SURFACE. PROVIDE A BROOM FINISH ON REPAIR.

1. ABRASIVELY BLAST CLEAN PITTED SURFACES OF EXISTING CONCRETE DECK. PROTECT EXISTING EQUIPMENT AND ATTACHMENTS ON DECK FROM 2.PREPARE AND PRIME SURFACE FOR REPAIR PER PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

(5) AREA BELOW THE SEDIMENTATION AND FLOCCULATION BASINS

5. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AND THE MANUFACTURER'S RECOMMENDATIONS.

(4) <u>SPALLED CONCRETE. INCLUDING INCIPIENT SPALLS. WITH OR WITHOUT EXPOSED. CORRODED REINFORCEMENT</u>

4. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AND THE MANUFACTURER'S RECOMMENDATIONS.

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1. CHIP OUT DELAMINATED CONCRETE AND/OR EXISTING PATCH MATERIAL. REMOVE ALL CRACKED, LOOSE AND DAMAGED CONCRETE TO SOUND

5. APPLY A COATING SYSTEM PAINT PER THE PROJECT SPECIFICATIONS SECTION 09960 AND THE MANUFACTURER'S RECOMMENDATIONS.

4.REPAIR CONCRETE AND ANY EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEET S-11, PROJECT SPECIFICATIONS AND

3. REMOVE RESIDUAL RESIN ON THE SURFACE OF THE CONCRETE THAT HAS FOAMED FROM THE CRACK.

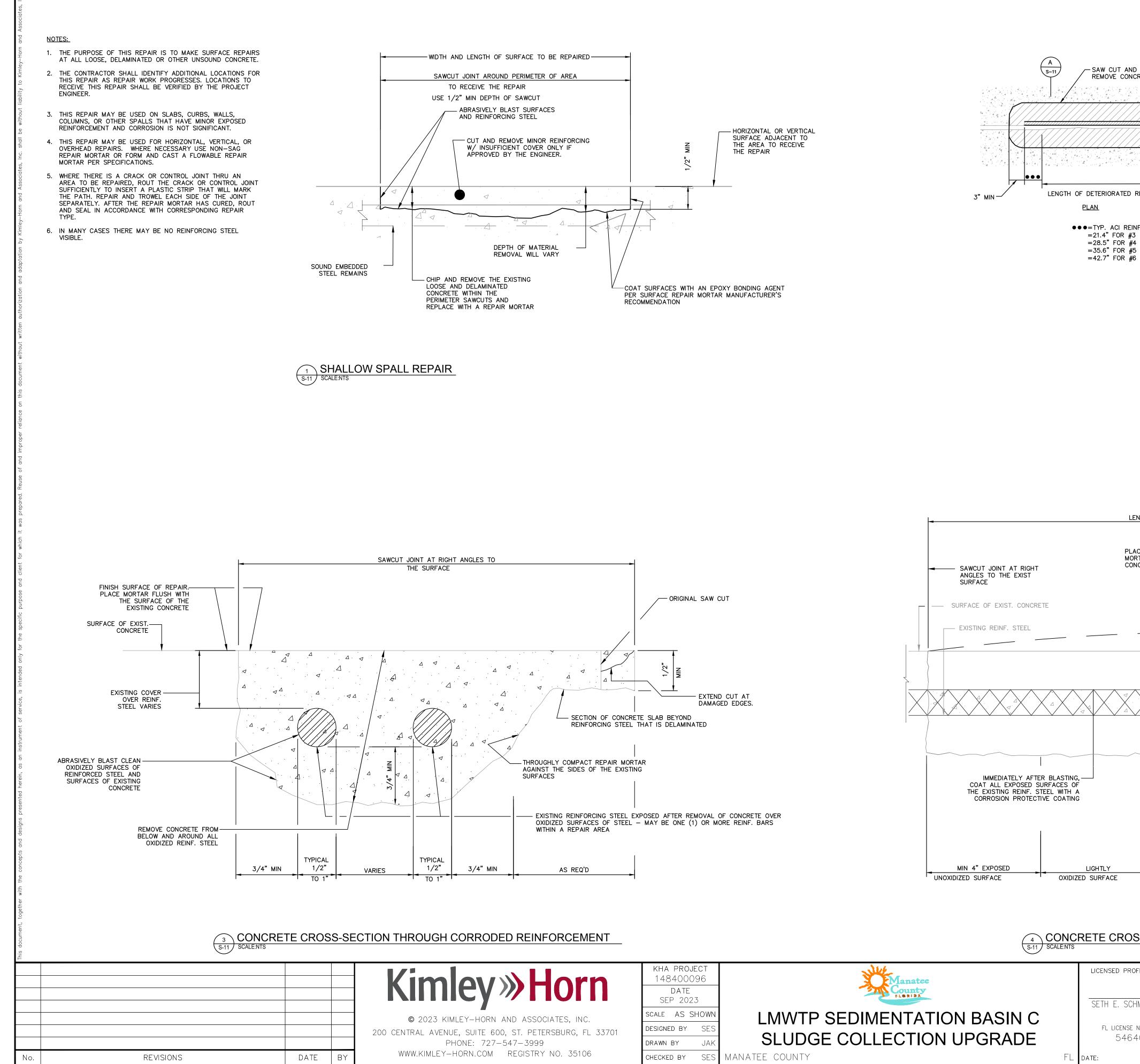
2.INJECT ENTIRE LENGTH OF CRACK WITH POLYURETHANE FOAM GROUT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

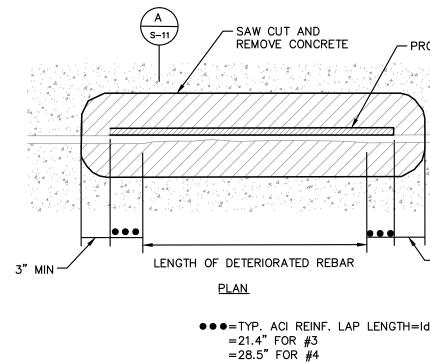
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MANUFACTURER'S RECOMMENDATIONS.

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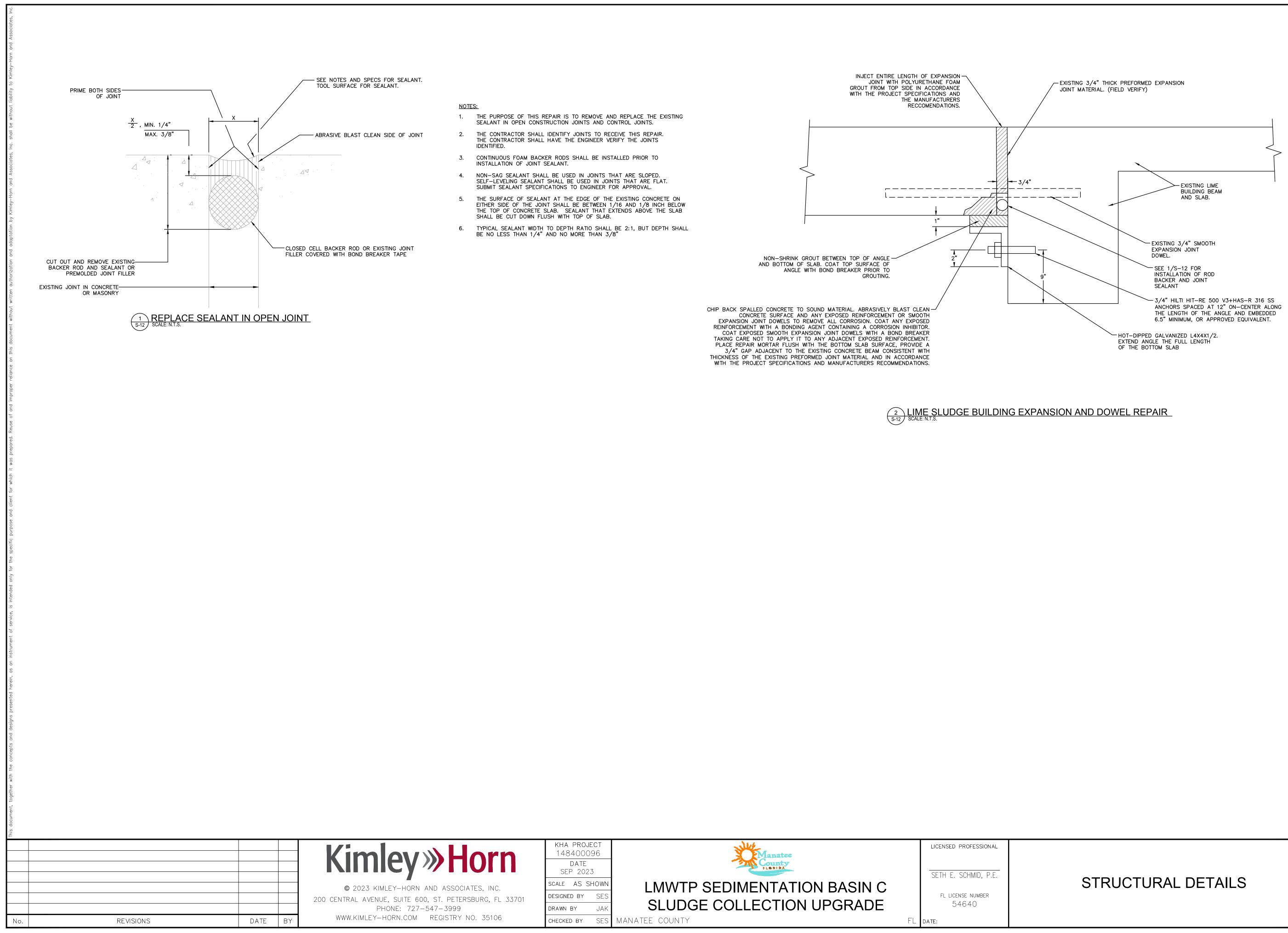
(1) VERTICAL AND HORIZONTAL CRACKS WITH EFFLORESCENCE AND/OR ALGAE STAINS 1. CLEAN CONCRETE SURFACE TO COMPLETELY REMOVE EFFLORESCENCE AND ALGAE STAINS.

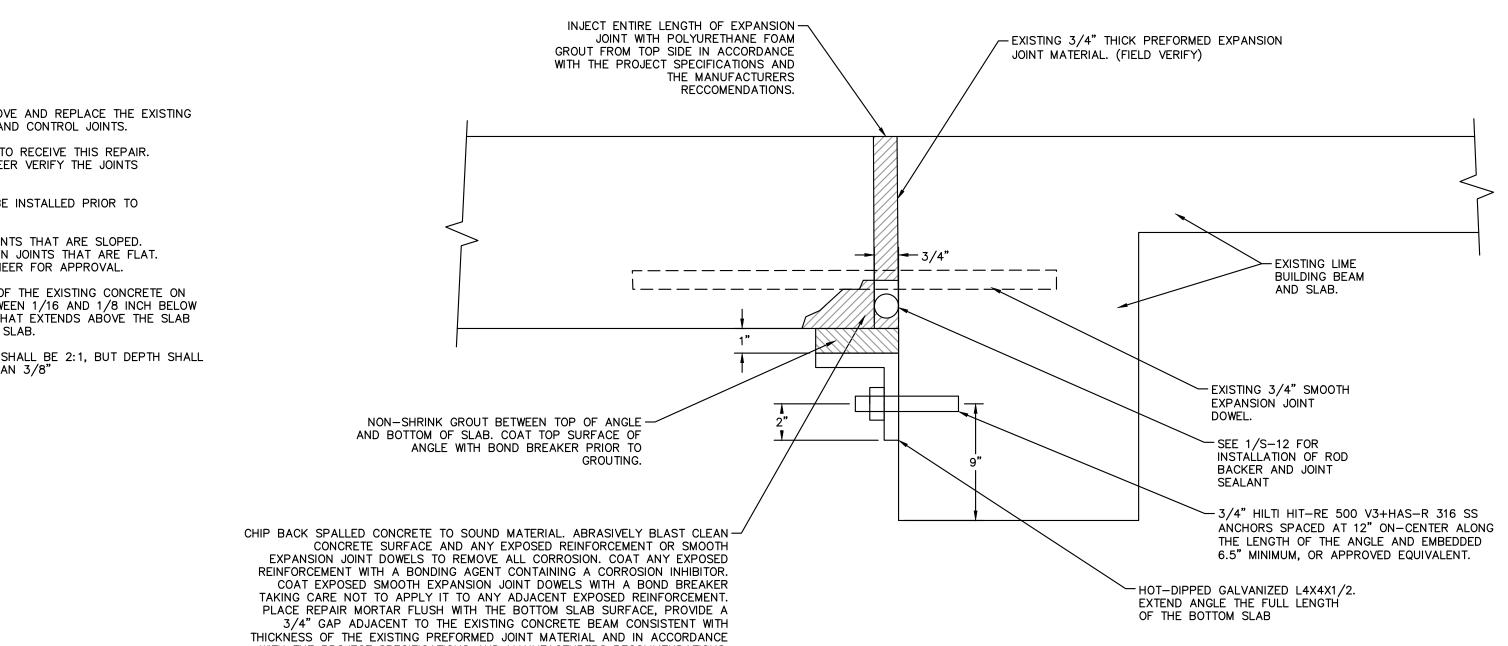




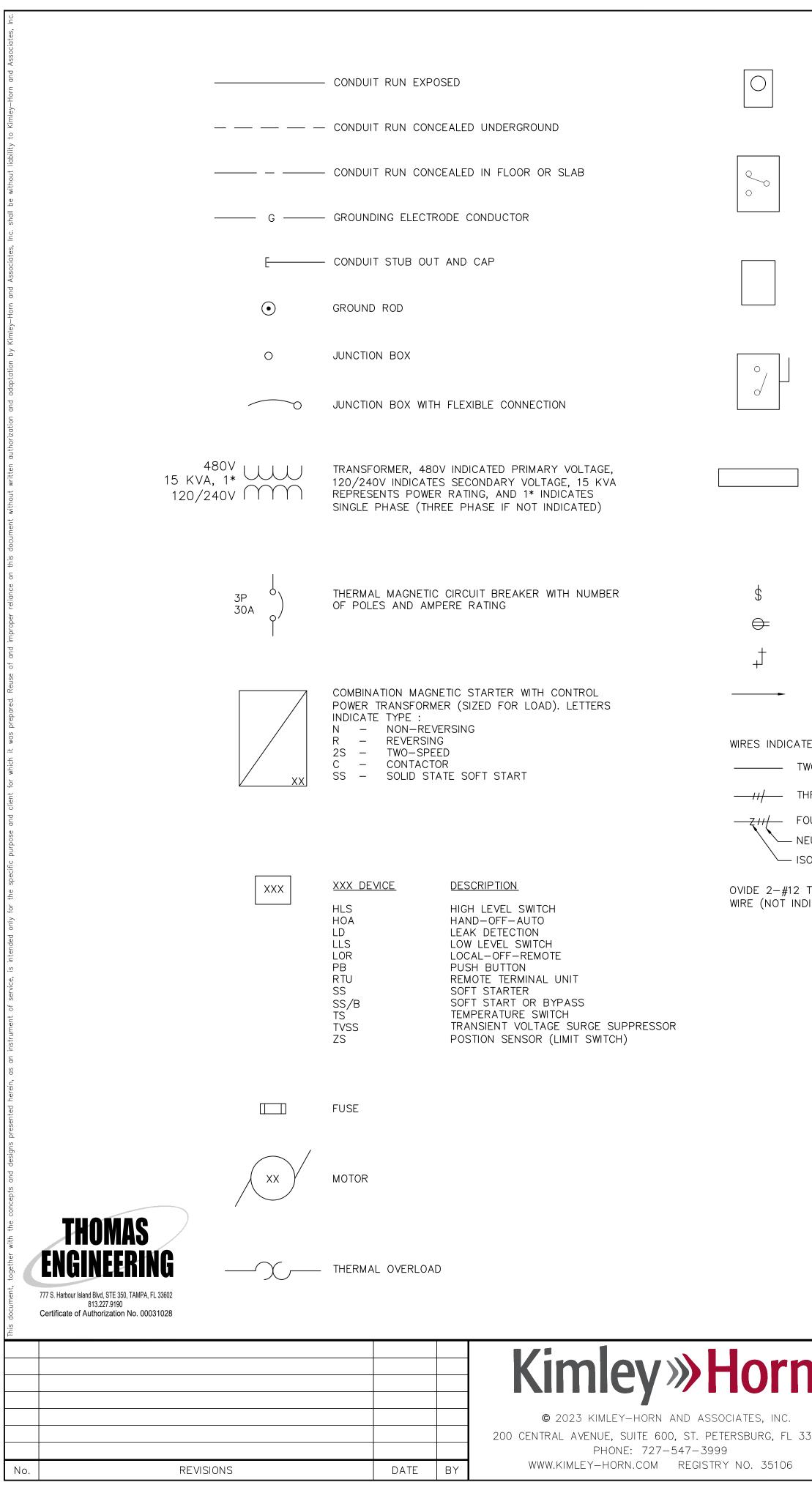
4 CONCRETE CROSS-SECTION S-11 SCALE:NTS LICENSED PROFESSIONAL SETH E. SCHMID, P.E. FL LICENSE NUMBER 54640

AND CONCRETE	SAWCUT 3/4" MIN. BEYOND SOUND PROVIDE TO MATCH EXISTING CONCRETE	
	EXISTING REBAR	EAN AND DRY DNCRETE SUBSTRATE ND APPLY BONDING GENT PER SPECIFICATIONS
hhhhhhhhhh Alana	DETERIORATED REBAR EXISTING LIMITS OF	3/4" MIN
	SOUND CONCRETE PRO	TYP. AROUND EXIST. AND POSED REBARS)
TED REBAR	Jarring PATCH Jarring W/ REPAIR MORTAR PER SPECIFICATIONS SECTION 'A' PROPOSED MATCH EXIS	
REINF. LAP LENGT R #3 R #4	H=Id	
R #5 R #6		
	2 EXPOSED REBAR REPAIR S-11 SCALE:NTS	
	THICKEN REPAIR ABOVE	
	COVER A REPAIR NECESSARY TO MAINTAIN	
	COMPACT AND FINISH SURFACE OF REPAIR MORTAR LEVEL WITH THE SURFACE OF THE EXISTING	
	ED REINF. BAR	
	MIN MIN TIES) MAT COL TIES)	
	3/4" MIN MIN MIN STEEL STEEL	
0	BRASIVELY BLAST SURFACES THE EXISTING REINF. STEEL	
	ND CONCRETE	
	AN APPROVED MANNER.	
	AREA AFFECTED LIGHTLY MIN 4" EXPOSED BY CORROSION OXIDIZED SURFACE UNOXIDIZED SURFACE	
ROSS-SECTI	ON ALONG CORRODED REINFORCEMENT	
PROFESSIONAL		SHEET NUMBER
SCHMID, P.E.	STRUCTURAL DETAILS	
ense number 4640		S-11



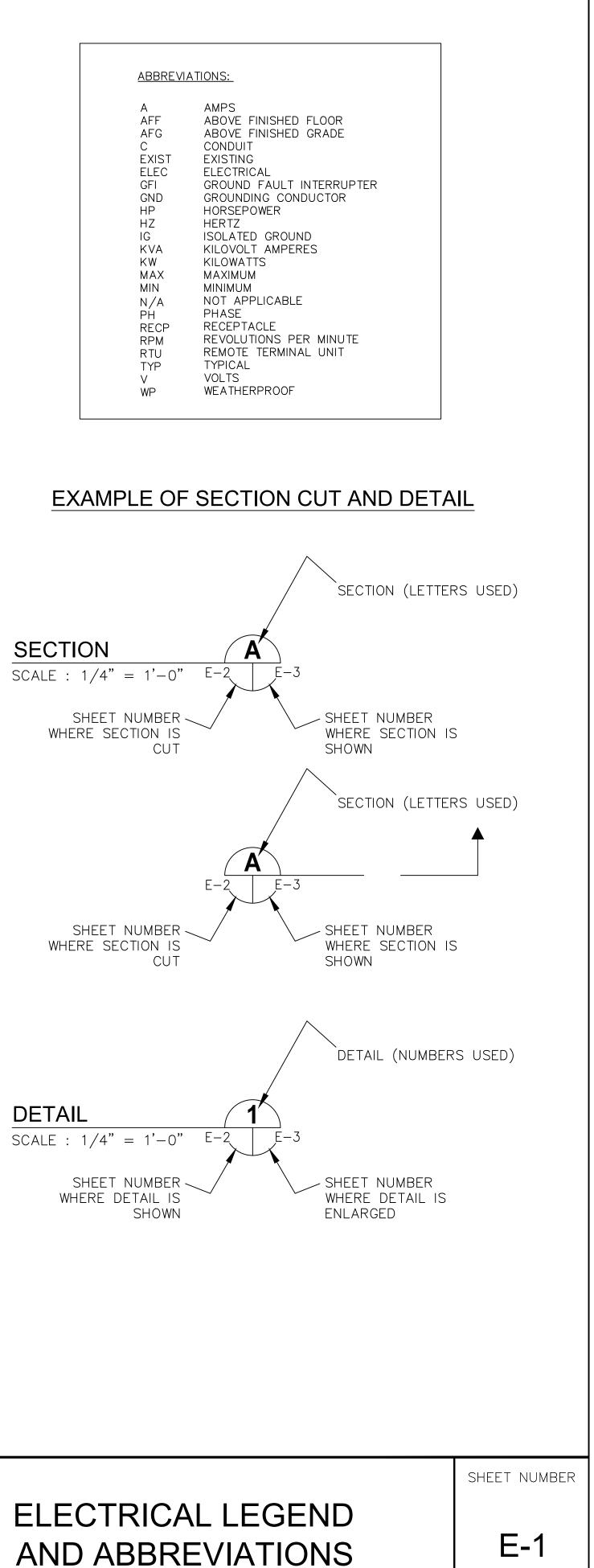


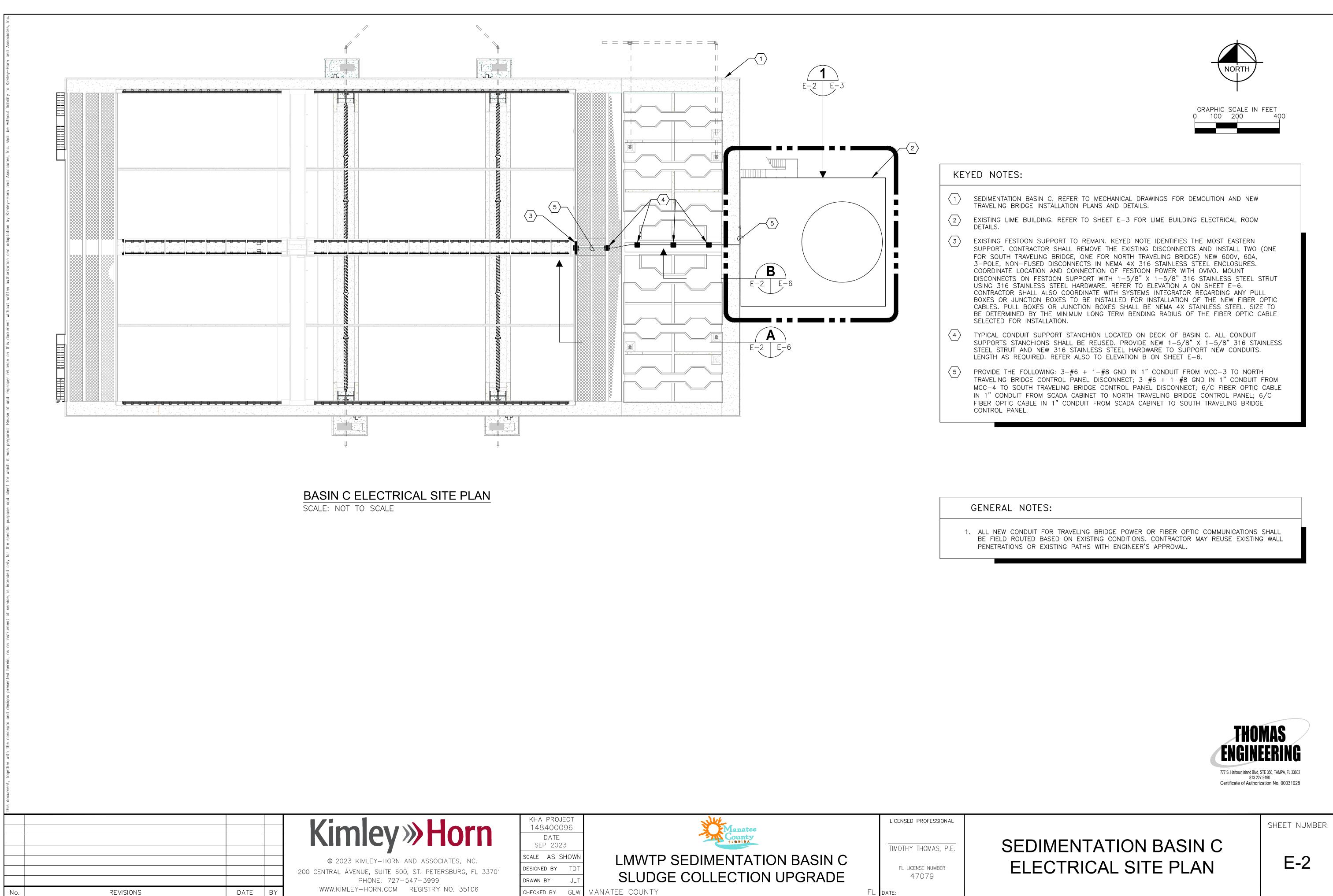
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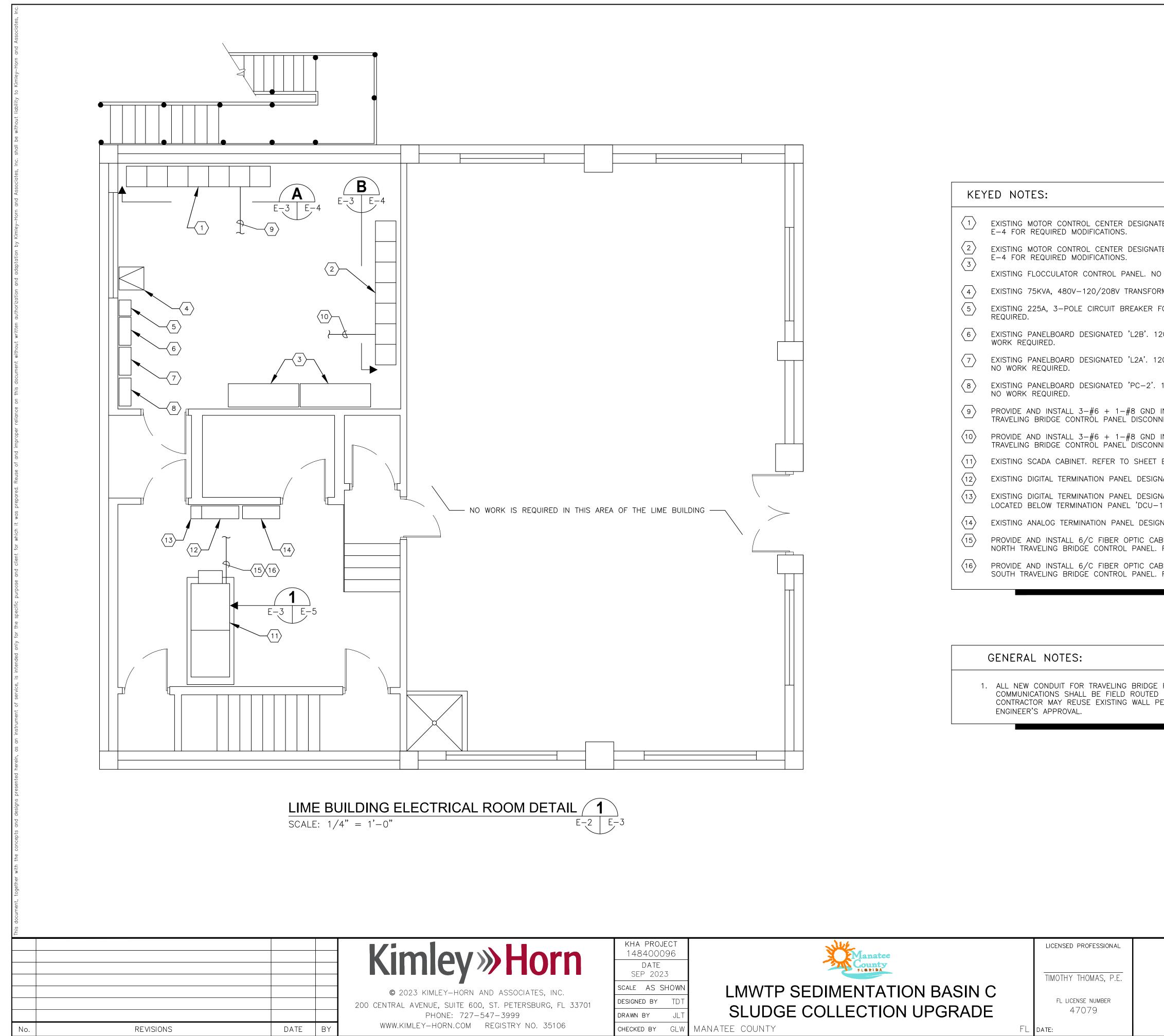


	UTILITY METER		FIELD WIRING
	TRANSFER SWITCH	-\$- 0-	FLOAT SWITCH. OPENS ON LOW LEVEL.
		-0-1-0-	FLOAT SWITCH. CLOSES ON LOW LEVEL.
	ELECTRIC PANELBOARD		NORMALLY OPEN (N.O.) CONTACT
		/ /	NORMALLY CLOSED (N.C.) CONTACT
	DISCONNECT OR SAFETY SWITCH	-1	FUSE
1			GROUND CONNECTION
J	CHAIN HUNG 8' INDUSTRIAL FLUORESCENT LIGHTING FIXTURE. REFER TO FIXTURE SCHEDULE.	Ro	INDICATING PILOT LIGHT LETTER INDICATES COLOR OF LENS
	SINGLE POLE SWITCH, 20A, 120/277V. MOUNT 44" AFF OR AS NOTED.	-0~0-	DISCONNECT OR TOGGLE SWITCH
	DUPLEX RECEPTACLE, 20A 125VAC. MOUNT 18" AFF OR AS NOTED.	-0 0-	NORMALLY OPEN MOMENTARY CIRCUIT CLOSING PUSH-BUTTON SWITCH SPRING OPEN. NUMBER OF ELECTRICAL CONTACTS ON SWITCH SHOWN ON CONTROL SCHEMATIC
	HOME RUN TO PANELBOARD. CIRCUIT(S) AS INDICATED.	- <u>o o</u> -	NORMALLY CLOSED MOMENTARY CIRCUIT OPENING PUSH-BUTTON SWITCH SPRING CLOSE. NUMBER OF ELECTRICAL CONTACTS ON SWITCH SHOWN ON CONTROL SCHEMATIC
	ED AS FOLLOWS :		CONTROL SCHEMATIC
	REE WIRES:	-0-10-	LIMIT SWITCH NORMALLY CLOSED CONTACT CONTACT OPENS WHEN ACTUATED
NE	UR WIRES ETC: UTRAL WIRE DLATED GROUND WIRE	-0-0-	TORQUE SWITCH NORMALLY CLOSED CONTACT CONTACT OPENS WHEN ACTUATED
	THWN CU IN 1/2" C. UNLESS OTHERWISE NOTED, AND GROUND ICATED) IN ALL POWER AND LIGHTING RACEWAYS.	- <u>></u> -> 	PUMP THERMAL SENSOR
			FAN THERMOSTAT

n	KHA PROJECT 148400096	Manatee		LICENSED PROFESSIONAL	
n	DATE SEP 2023	FLORIDA		TIMOTHY THOMAS, P.E.	
	SCALE AS SHOWN	LMWTP SEDIMENTATION BASIN C			
_ 33701	DESIGNED BY TDT			FL LICENSE NUMBER	
	DRAWN BY JLT	SLUDGE COLLECTION UPGRADE		47079	
5	CHECKED BY GLW	MANATEE COUNTY	FL	DATE:	

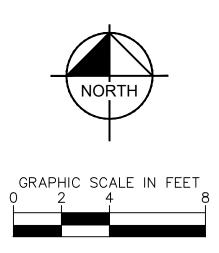






$\langle 1 \rangle$	EXISTING MOTOR CONTROL CENTER DESIGNATED AS E-4 FOR REQUIRED MODIFICATIONS.
$\begin{pmatrix} 2 \\ \hline \end{array}$	EXISTING MOTOR CONTROL CENTER DESIGNATED AS E-4 FOR REQUIRED MODIFICATIONS.
$\langle 3 \rangle$	EXISTING FLOCCULATOR CONTROL PANEL. NO WORK
4	EXISTING 75KVA, 480V-120/208V TRANSFORMER.
$\left< 5 \right>$	EXISTING 225A, 3-POLE CIRCUIT BREAKER FOR PAREQUIRED.
6	EXISTING PANELBOARD DESIGNATED 'L2B'. 120/208 WORK REQUIRED.
7	EXISTING PANELBOARD DESIGNATED 'L2A'. 120/208 NO WORK REQUIRED.
8	EXISTING PANELBOARD DESIGNATED 'PC-2'. 120/2 NO WORK REQUIRED.
9	PROVIDE AND INSTALL 3-#6 + 1-#8 GND IN 1" TRAVELING BRIDGE CONTROL PANEL DISCONNECT. I
(10)	PROVIDE AND INSTALL 3-#6 + 1-#8 GND IN 1" TRAVELING BRIDGE CONTROL PANEL DISCONNECT. I
$\langle 11 \rangle$	EXISTING SCADA CABINET. REFER TO SHEET E-5 F
(12)	EXISTING DIGITAL TERMINATION PANEL DESIGNATED
(13)	EXISTING DIGITAL TERMINATION PANEL DESIGNATED LOCATED BELOW TERMINATION PANEL 'DCU-1-1').
(14)	EXISTING ANALOG TERMINATION PANEL DESIGNATED
(15)	PROVIDE AND INSTALL 6/C FIBER OPTIC CABLE IN NORTH TRAVELING BRIDGE CONTROL PANEL. REFER
(16)	PROVIDE AND INSTALL 6/C FIBER OPTIC CABLE IN SOUTH TRAVELING BRIDGE CONTROL PANEL. REFER
L	

1. ALL NEW CONDUIT FOR TRAVELING BRIDGE POWER OR FIBER OPTIC COMMUNICATIONS SHALL BE FIELD ROUTED BASED ON EXISTING CONDITIONS. CONTRACTOR MAY REUSE EXISTING WALL PENETRATIONS OR EXISTING PATHS WITH



AS 'MCC-3'. REFER TO ELEVATION ON SHEET AS 'MCC-4'. REFER TO ELEVATION ON SHEET RK REQUIRED. NO WORK REQUIRED. PANELBOARDS 'L2A' AND 'L2B'. NO WORK 08V, 3Ø, 4-WIRE, 100A WITH 60A M.C.B. NO 08V, 3Ø, 4-WIRE, 100A WITH 100A M.C.B. 208V, 3ø, 4-WIRE, 100A WITH 60A M.C.B. CONDUIT FROM MCC-3 TO NORTH REFER TO SHEET E-2 FOR CONTINUATION. CONDUIT FROM MCC-4 TO SOUTH REFER TO SHEET E-2 FOR CONTINUATION. FOR WORK REQUIRED. 'DCU-1-1'. 'DCU-1-2' (TERMINATION PANEL IS 'DCU-1-3'. NO WORK REQUIRED. 1" CONDUIT FROM SCADA CABINET TO ER TO SHEET E-2 FOR CONTINUATION. 1" CONDUIT FROM SCADA CABINET TO ER TO SHEET E-2 FOR CONTINUATION.

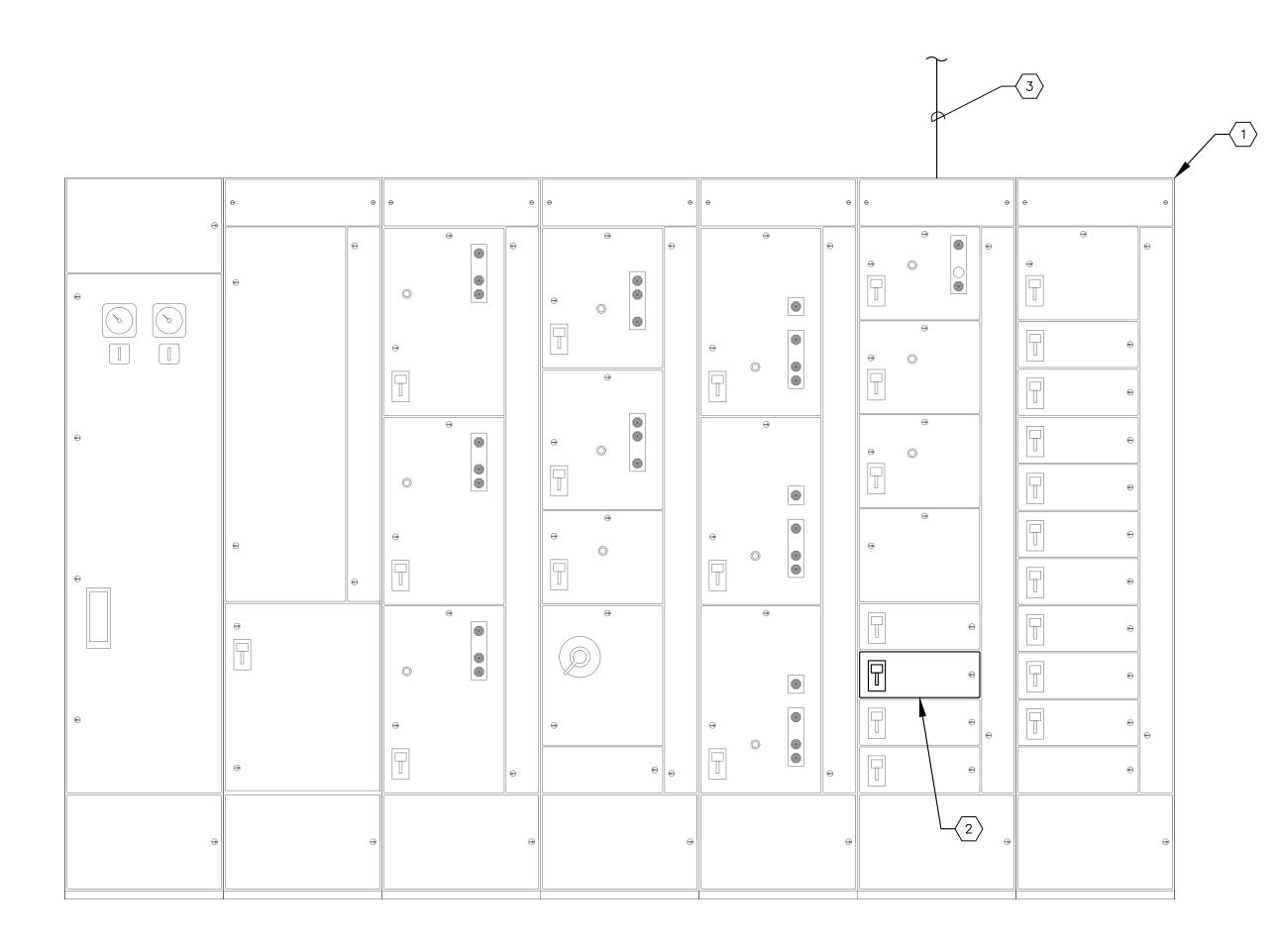


777 S. Harbour Island Blvd, STE 350, TAMPA, FL 33602 813.227.9190 Certificate of Authorization No. 00031028

SHEET NUMBER

LIME BUILDING ELECTRICAL ROOM





MOTOR CONTROL CENTER 'MCC-3' ELEVATION (A) E-3 E-4

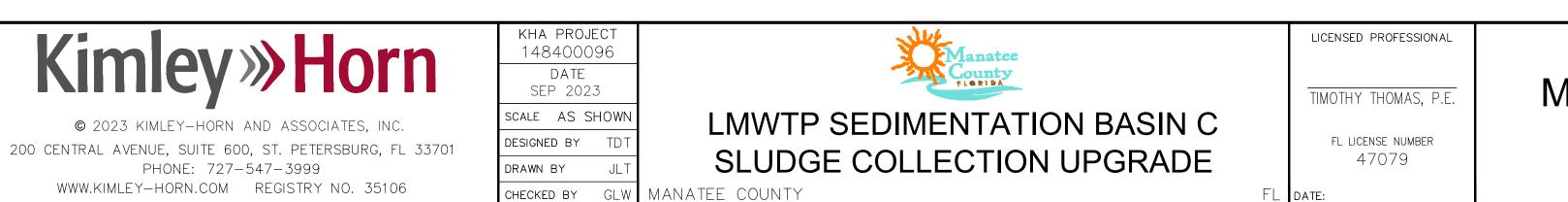
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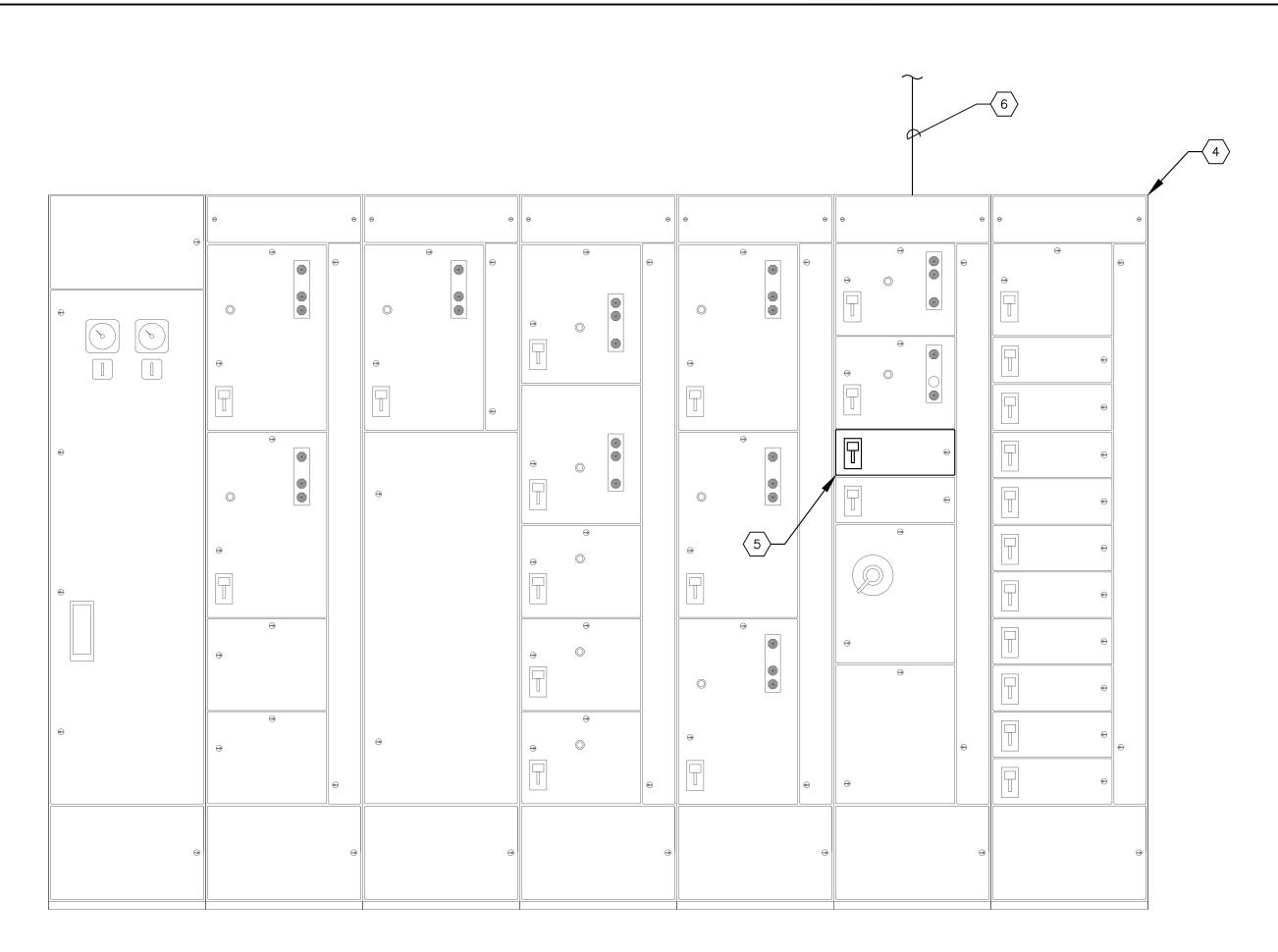




813.227.9190 Certificate of Authorization No. 00031028

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MOTOR CONTROL CENTER 'MCC-4' ELEVATION

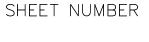
SCALE: NOT TO SCALE

KEYED NOTES:

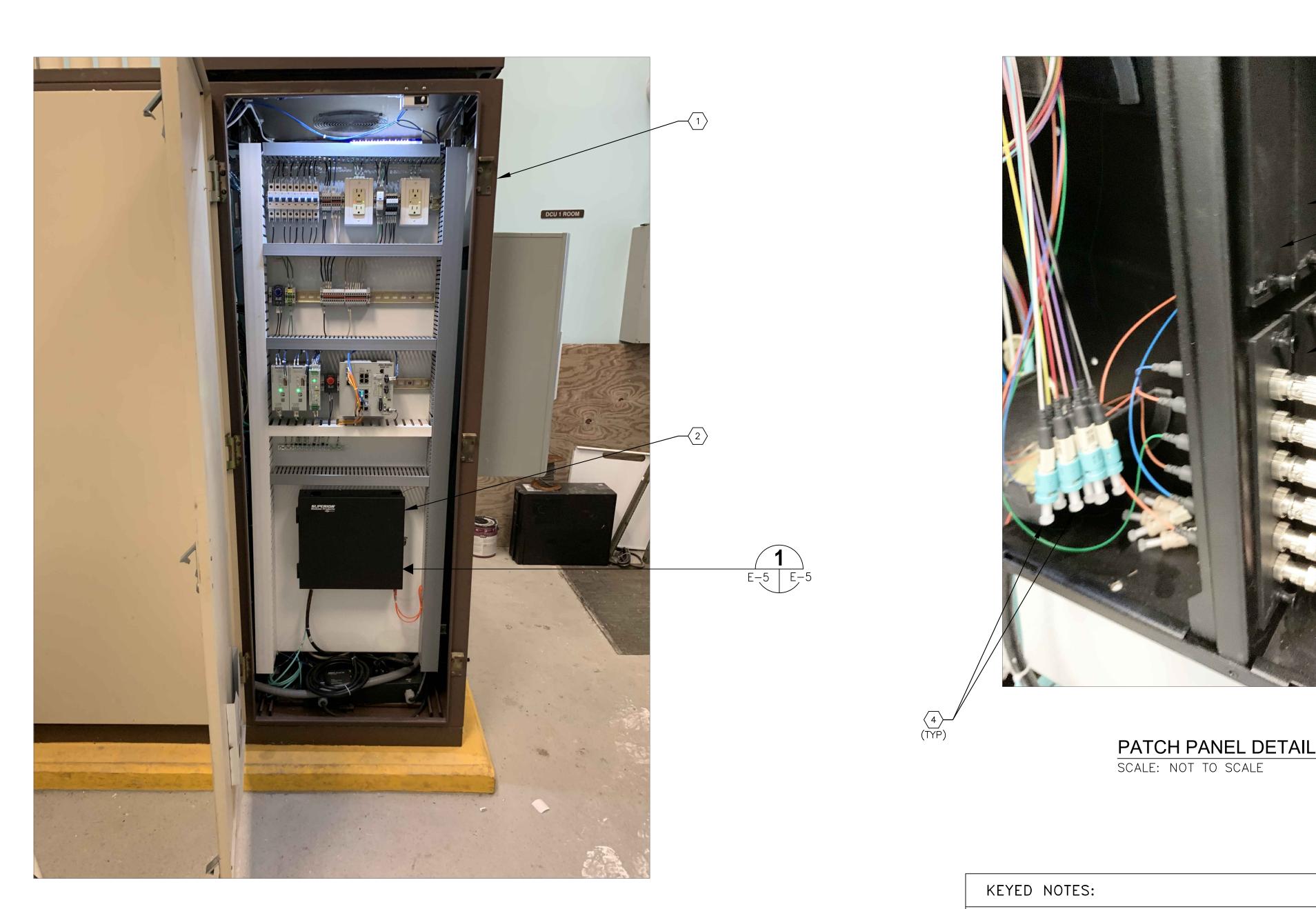
- $\langle 1 \rangle$ EXISTING MOTOR CONTROL CENTER DESIGNATED AS 'MCC-3'.
- $\langle 2 \rangle$ EXISTING 600V, 60A, 3-POLE CIRCUIT BREAKER TO BE REUSED TO FEED THE NEW NORTH TRAVELING BRIDGE CONTROL PANEL.
- $\langle 3 \rangle$ PROVIDE AND INSTALL 3-#6 + 1-#8 GND IN 1" CONDUIT FROM MCC-3 TO NORTH TRAVELING BRIDGE CONTROL PANEL DISCONNECT. REFER TO SHEET E-3 FOR CONTINUATION.
- $\langle 4 \rangle$ EXISTING MOTOR CONTROL CENTER DESIGNATED AS 'MCC-4'.
- $\left< 5 \right>$ EXISTING 600V, 60A, 3-POLE CIRCUIT BREAKER TO BE REUSED TO FEED THE NEW SOUTH TRAVELING BRIDGE CONTROL PANEL.
- 6 PROVIDE AND INSTALL 3-#6 + 1-#8 GND IN 1" CONDUIT FROM MCC-3 TO SOUTH TRAVELING BRIDGE CONTROL PANEL DISCONNECT. REFER TO SHEET E-3 FOR CONTINUATION.



MOTOR CONTROL CENTER ELEVATIONS







EXISTING SCADA CABINET DETAIL SCALE: NOT TO SCALE



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1 E-3 | E-5

(1) EXISTING SCADA CABINET.

- EXISTING FIBER OPTIC PATCH PANEL. REFER TO DETAIL ON THIS SHEET FOR WORK REQUIRED. $\langle 2 \rangle$
- $\langle 3 \rangle$ PROVIDE AND INSTALL TWO (2) NEW 6-PORT HOUSING CONNECTOR PANELS FOR NEW TRAVELING BRIDGE FIBER OPTIC CABLE CONNECTIONS (ONE FOR NORTH, ONE FOR SOUTH TRAVELING BRIDGE).
- EXISTING FIBER OPTIC CABLE TO BE UTILIZED FOR TRAVELING BRIDGE FIBER OPTIC COMMUNICATIONS. A TOTAL OF FOUR (4) FIBERS SHALL BE REQUIRED (TWO FOR NORTH, TWO FOR SOUTH TRAVELING BRIDGE COMMUNICATIONS). $\langle 4 \rangle$
- $\left< 5 \right>$ PROVIDE AND INSTALL ONE (1) NEW 6-PORT HOUSING CONNECTOR PANEL TO TERMINATE EXISTING FIBERS SHOWN IN NOTE #4 ABOVE. PROVIDE FIBER PATCH CABLE AS REQUIRED TO TIE TRAVELING BRIDGE FIBERS TO THE COUNTY'S EXISTING SPARE FIBERS.

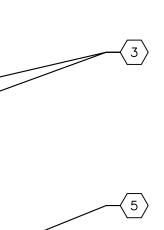
SCADA CABINET DETAILS

SHEET NUMBER

E-5









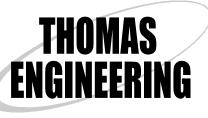
FESTOON AND EXISTING CONDUIT SUPPORT ELEVATION

SCALE: NOT TO SCALE

ΚE	YED NOTES:
$\langle 1 \rangle$	EXISTING FESTOON SU
2	CONTRACTOR SHALL R TRAVELING BRIDGE) N OF FESTOON POWER HARDWARE. CONTRACT OF THE NEW FIBER O BENDING RADIUS OF T
$\langle 3 \rangle$	TYPICAL CONDUIT SUP 316 STAINLESS STEEL
4	CONTRACTOR SHALL P
5	EXISTING FESTOON CA OPTIC CABLES.

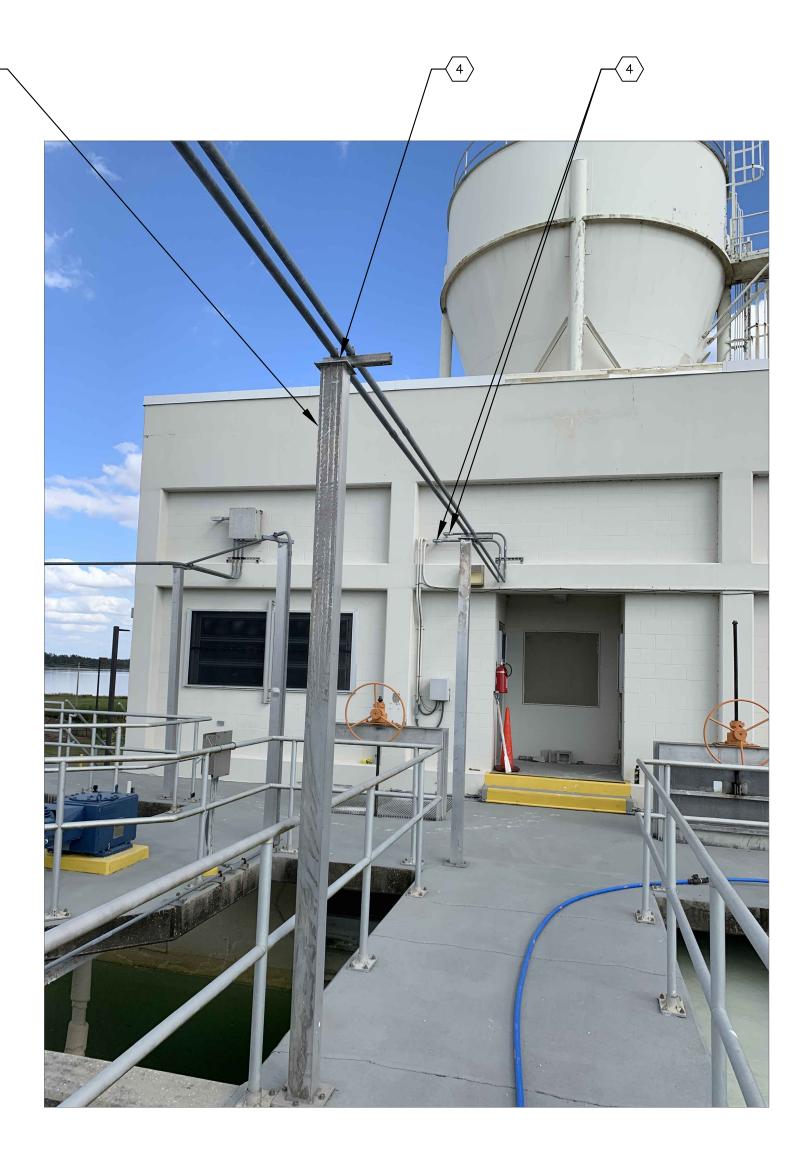
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SCALE: NOT TO SCALE

JPPORT TO REMAIN. KEYED NOTE IDENTIFIES THE MOST EASTERN SUPPORT. REMOVE THE EXISTING DISCONNECTS AND JUNCTION BOXES, THEN INSTALL TWO (ONE FOR SOUTH TRAVELING BRIDGE, ONE FOR NORTH NEW 600V, 60A, 3-POLE, NON-FUSED DISCONNECTS IN NEMA 4X 316 STAINLESS STEEL ENCLOSURES. COORDINATE LOCATION AND CONNECTION WITH OVIVO. MOUNT DISCONNECTS ON FESTOON SUPPORT WITH 1−5/8" X 1−5/8" 316 STAINLESS STEEL ENCLOSORES. COORDINATE LOCATION AND CONNECTION CTOR SHALL ALSO COORDINATE WITH SYSTEMS INTEGRATOR REGARDING ANY PULL BOXES OR JUNCTION BOXES TO BE INSTALLED FOR INSTALLATION OPTIC CABLES. PULL BOXES OR JUNCTION BOXES SHALL BE NEMA 4X STAINLESS STEEL. SIZE TO BE DETERMINED BY THE MINIMUM LONG TERM THE FIBER OPTIC CABLE SELECTED FOR INSTALLATION. IPPORT STANCHION LOCATED ON DECK OF BASIN C. ALL CONDUIT SUPPORTS STANCHIONS SHALL BE REUSED. PROVIDE NEW 1-5/8" X 1-5/8" IL STRUT AND NEW 316 STAINLESS STEEL HARDWARE TO SUPPORT NEW CONDUITS. STRUT LENGTH AS REQUIRED. PENETRATE EXISTING WALL WITH NEW CONDUITS AND GROUT AS REQUIRED TO PROVIDE WEATHERPROOF SEAL. ABLE TROLLEYS. COORDINATE WITH OVIVO FOR TROLLEYS TO BE REUSED OR REPLACED TO ACCOMMODATE TRAVELING BRIDGE POWER AND FIBER



EXISTING CONDUIT SUPPORT ELEVATION B E-2 E-6

ELECTRICAL DETAILS

SHEET NUMBER

E-6