# IOWA DEPARTMENT OF NATURAL RESOURCES LAND & WATERS BUREAU WALLACE STATE OFFICE BUILDING

GREEN VALLEY STATE PARK LAKE SPILLWAY REPAIRS UNION COUNTY, IOWA PROJECT NUMBER: 21-04-88-03

Date 03/08/2023

This Addendum is issued to modify, explain or correct the original Drawings and Specifications, and is hereby made a part of the Contract Documents. Please attach this Addendum to the Project Manual in your possession. Insert the number and issue date of this Addendum in the blank space provided on the Proposal Form.

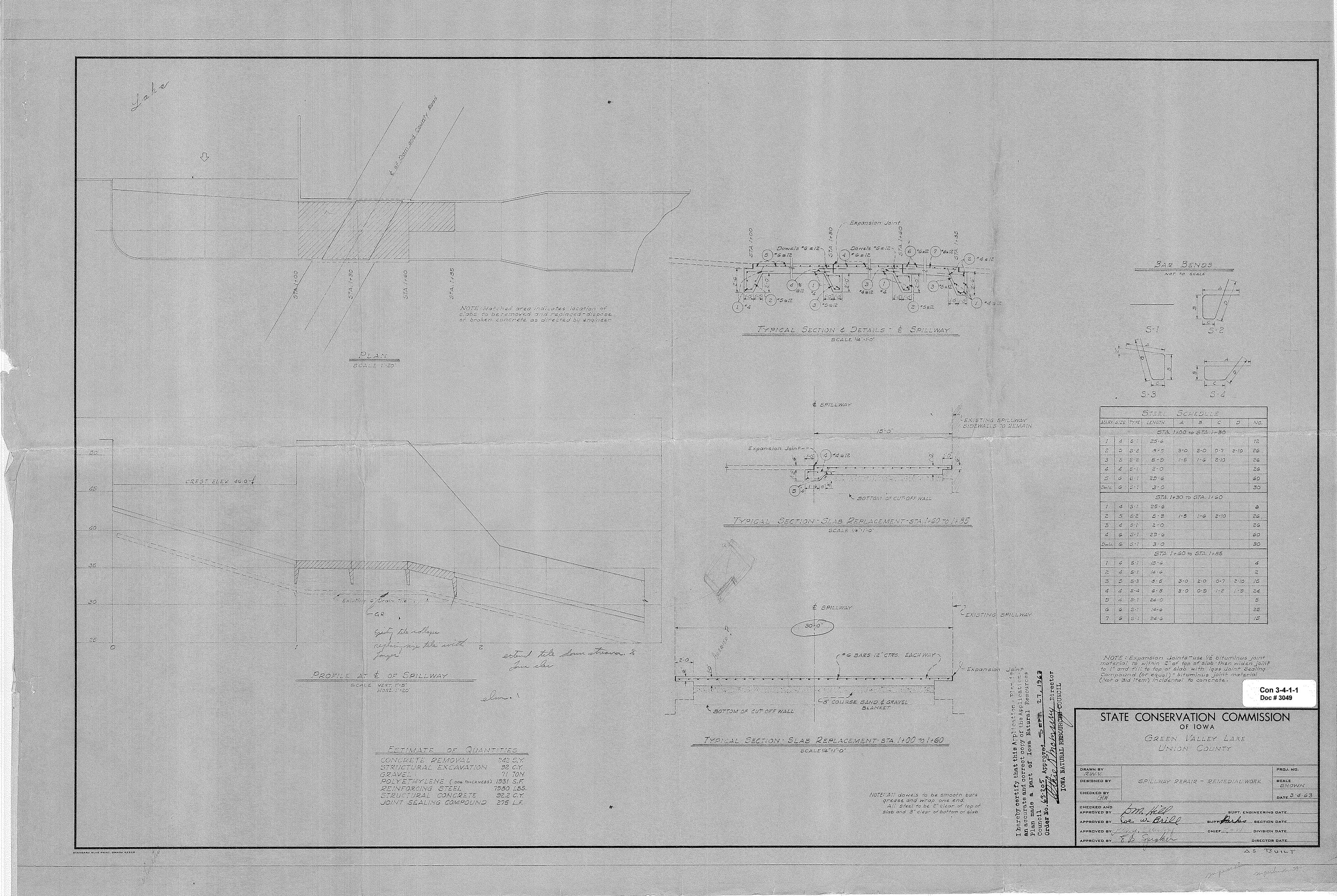
#### **GENERAL CLARIFICATION**

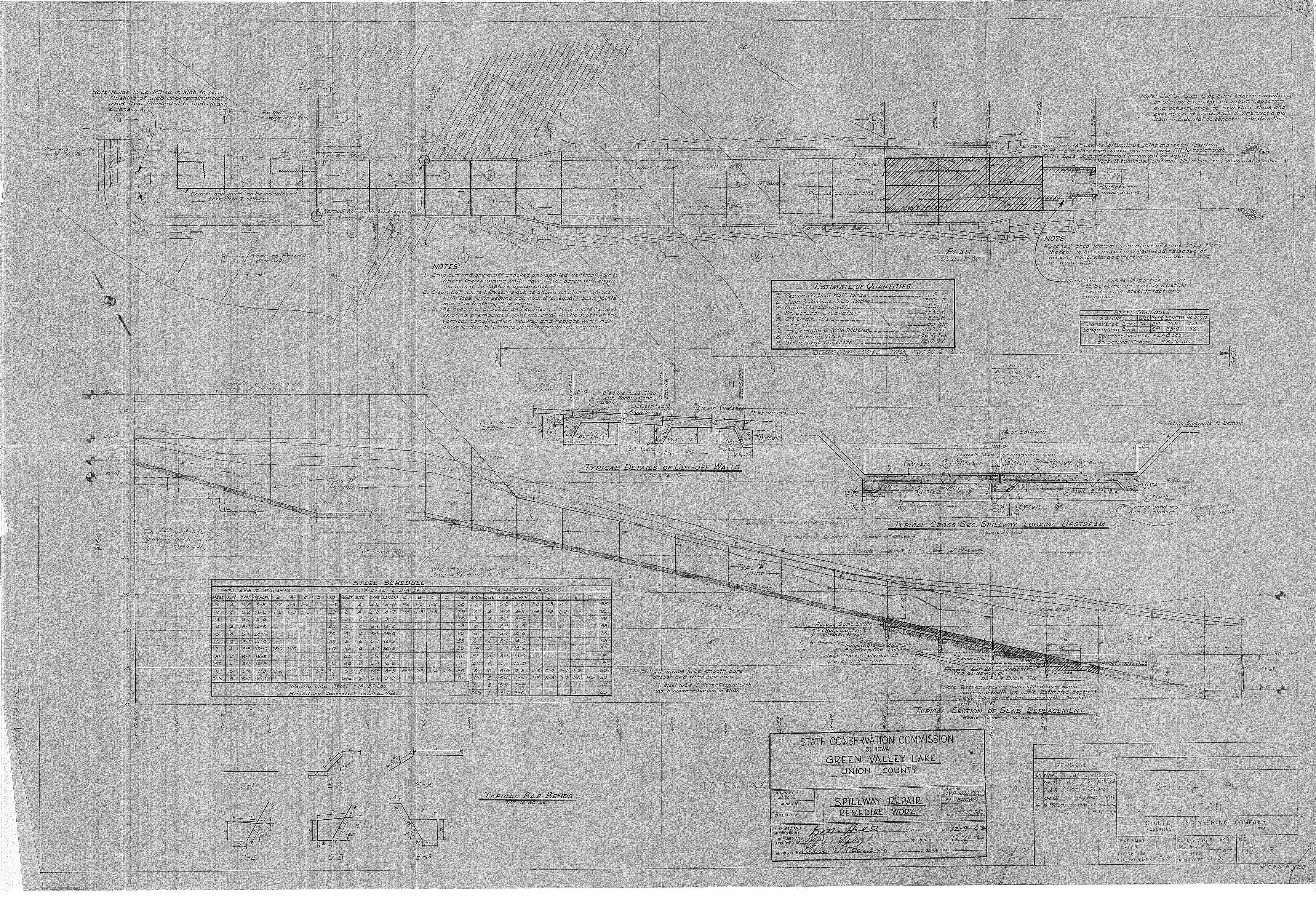
**Note for the Contractors:** Mitchel Marsh will be lowered to the extent feasible for ease of construction. It is suggested that the contractor works on the lower portion of the spillway first, as the marsh level will be raised again in the first week of August.

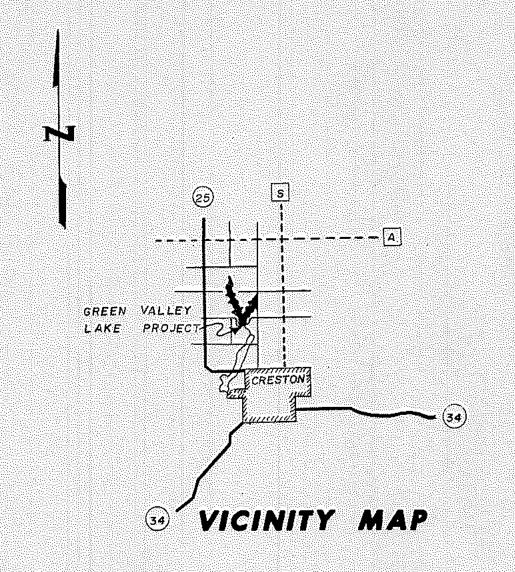
#### Plans:

A. Sheet C000

The referenced drawings mentioned on the sheet are attached in this addendum.

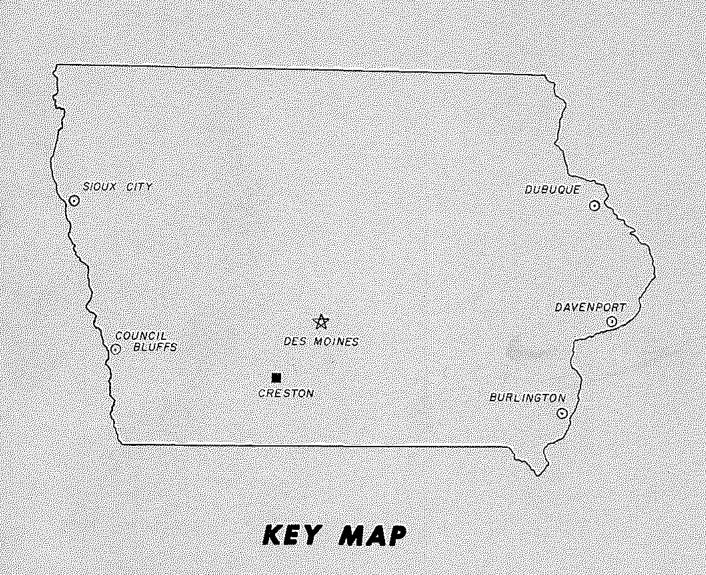






# IOWA STATE CONSERVATION COMMISSION

# CONSTRUCTION PLANS



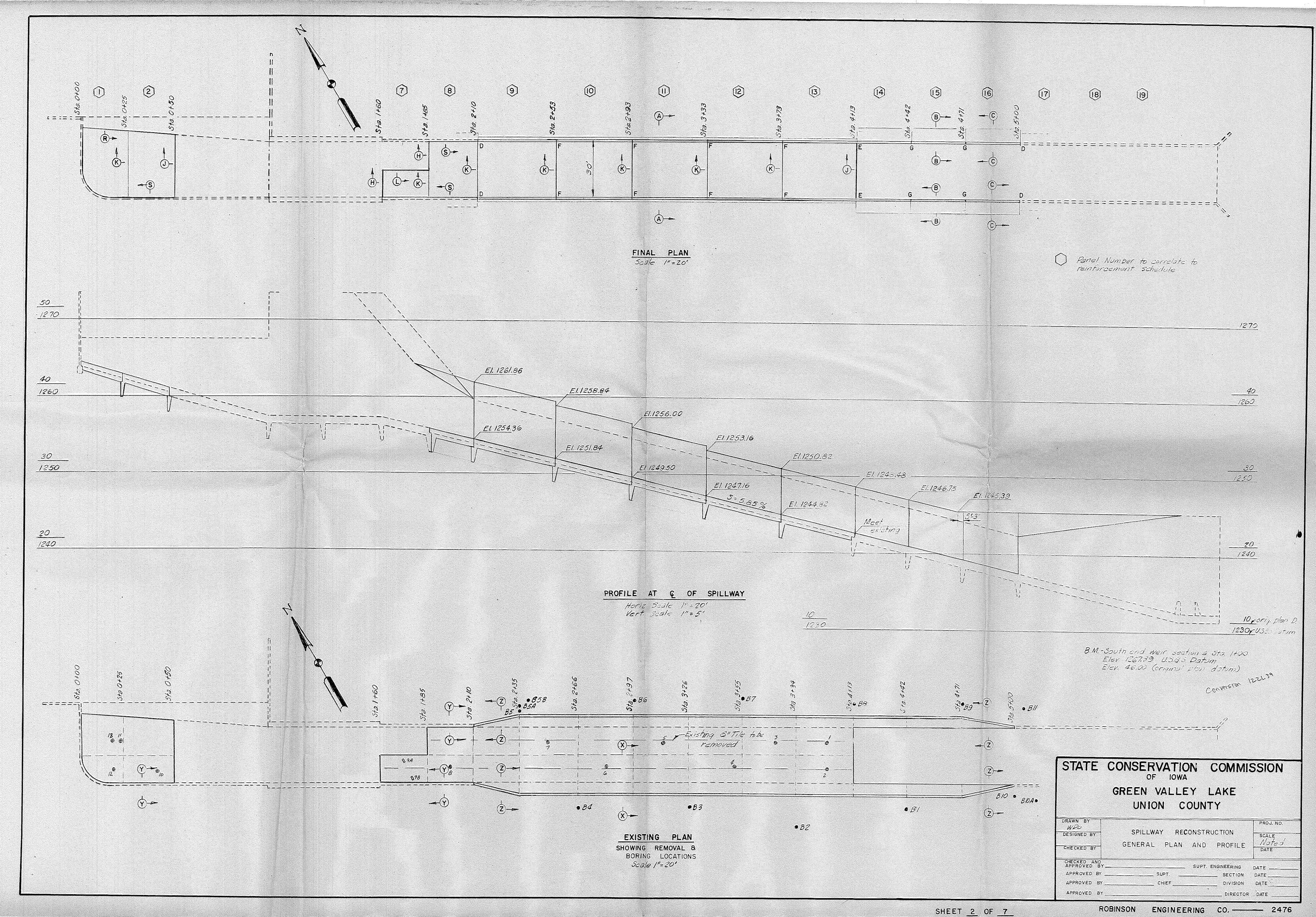
# FOR SPILLWAY RECONSTRUCTION GREEN VALLEY LAKE

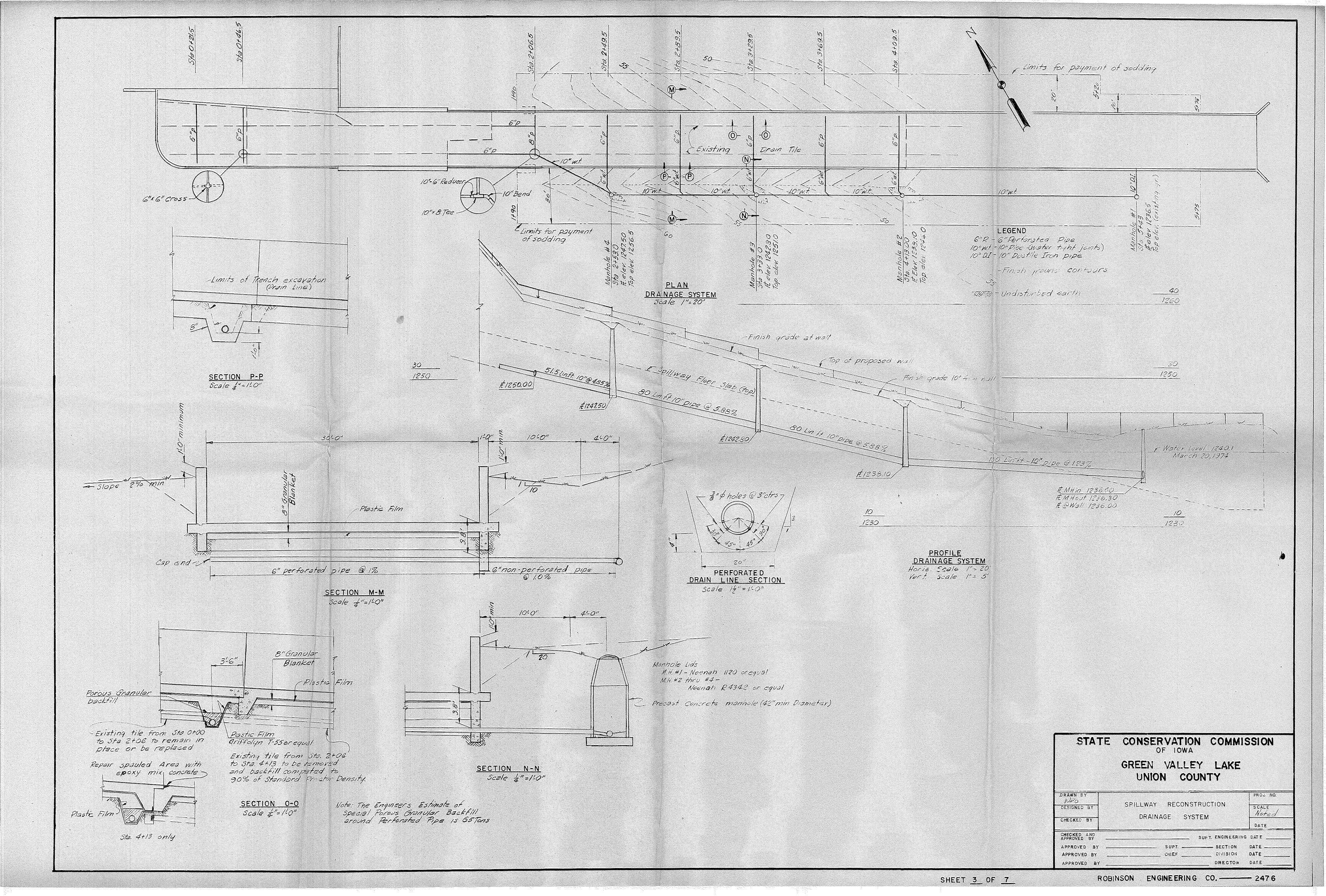
UNION COUNTY IOWA

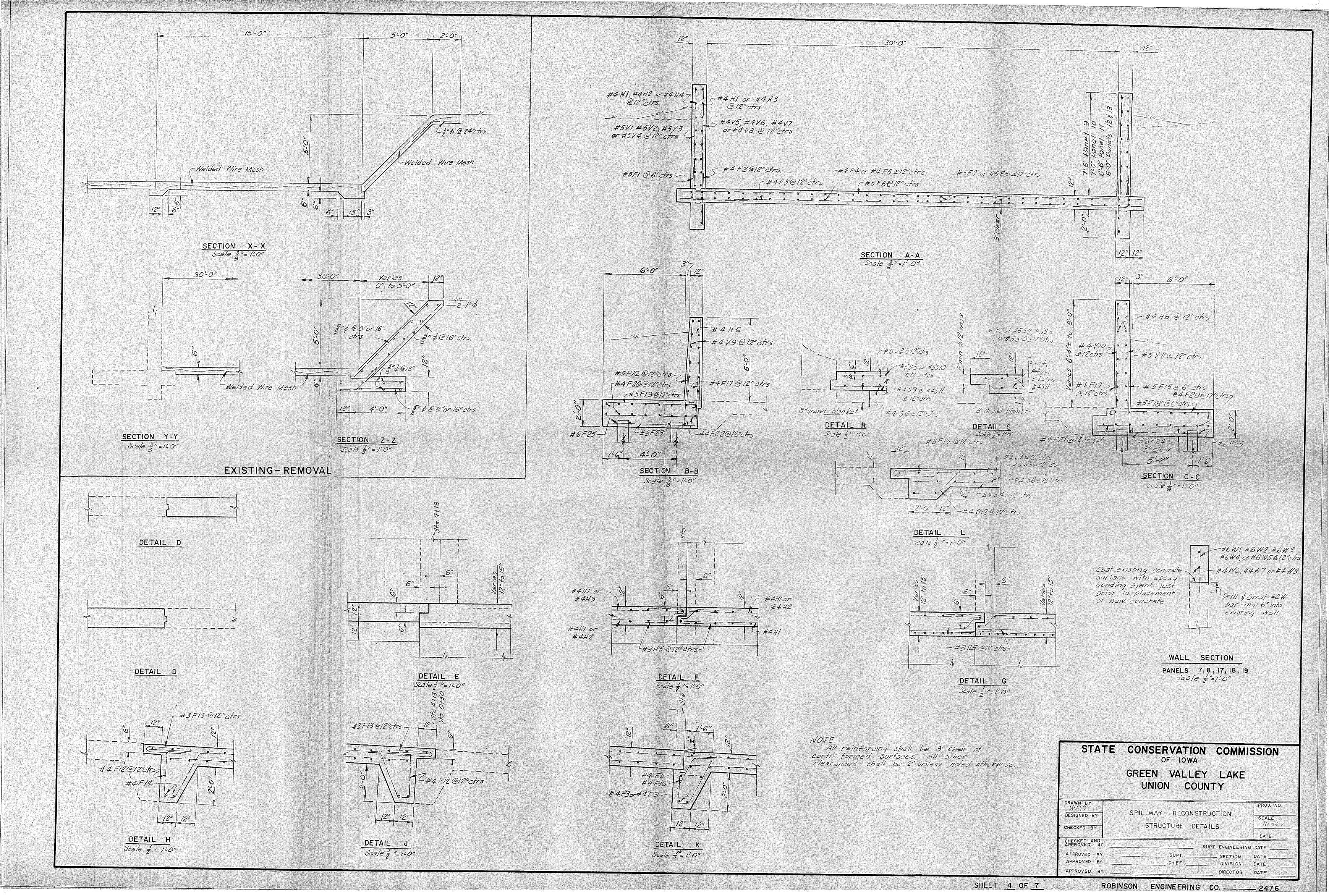
ITEM NO.	DESCRIPTION	QUAN	ITITIES
1	REMOVAL OF EXISTING STRUCTURE	310	Cu. Yds.
2	COFFER DAMS AND DEWATERING		Lump Sun
3	STRUCTURAL EXCAVATION	755	Cu. Yds.
4	WALL CONNECTION AND DUCTILE IRON PIPE		Lump Su
5	IO" COLLECTION PIPE	342	Lin. Ft.
6	8" PERFORATED PIPE	20	Lin. Ft.
7	6" PERFORATED PIPE	285	Lin. Ft.
8	6" NON PERFORATED PIPE	75	Lin. Ft.
9	INLET MANHOLE	4	Each
10	SUBGRADE STABILIZATION MATERIAL FOR PIPE	25	Tons
11	TEST PILING (6 of 35")	210	Lin. Ft.
12	PILING DELIVED AND DRIVEN	1200	Lin. Ft.
13	GRANULAR BLANKET	500	Tons
14	STRUCTURAL CONCRETE	672	Cu. Yds.
15	WINTER PROTECTION OF CONCRETE	336	Cu. Yds.
16	REINFORCING STEEL	60500	Lbs.
17	COMPACTED BACKFILL	700	Cu. Yds
18	SODDING	187	Squares
19	JOINT REPAIR	590	Lin. Ft
20	MISCELLANEOUS ITEMS		Lump Su

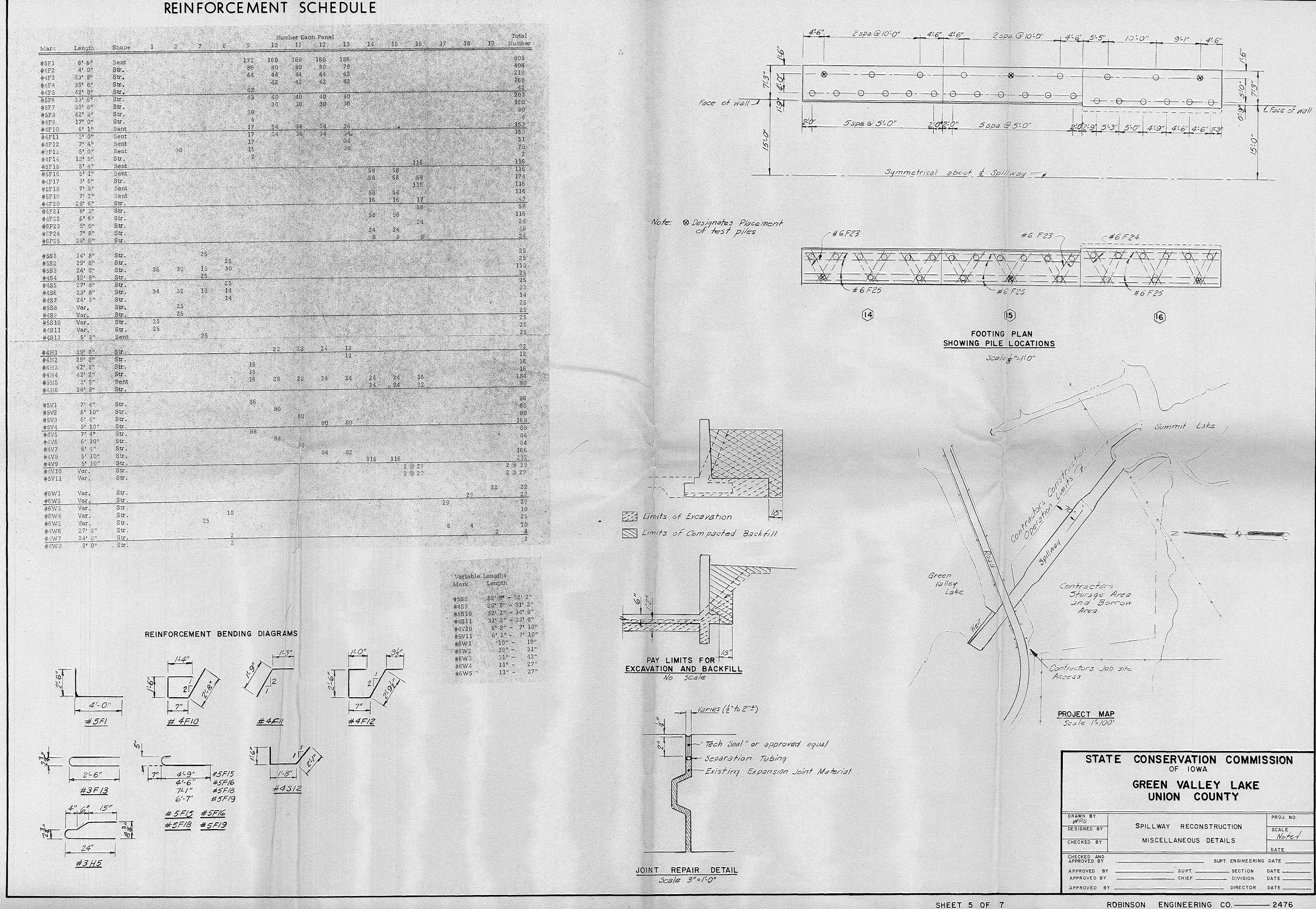
	PLANS PREPARED BY	
	ROBINSON ENGINEERING	CO.
	WATERLOO, IOWA	
	I HEREBY CERIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS IREPARED BY ME OR UNDER MY DIRECT PERSONAL SUFFICIENT AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.  NAME  DATED  JULY 5, 1974 PE. REG. NO. 3795	
APPROVED	BY Moure William of Engineering 7/	7/2/ DATE
APPROVED	BY SUPERINTENDENT SECTION	DATE
APPROVED	BY CHIEF DIVISION OF	DATE
APPROVED	BY	DATE

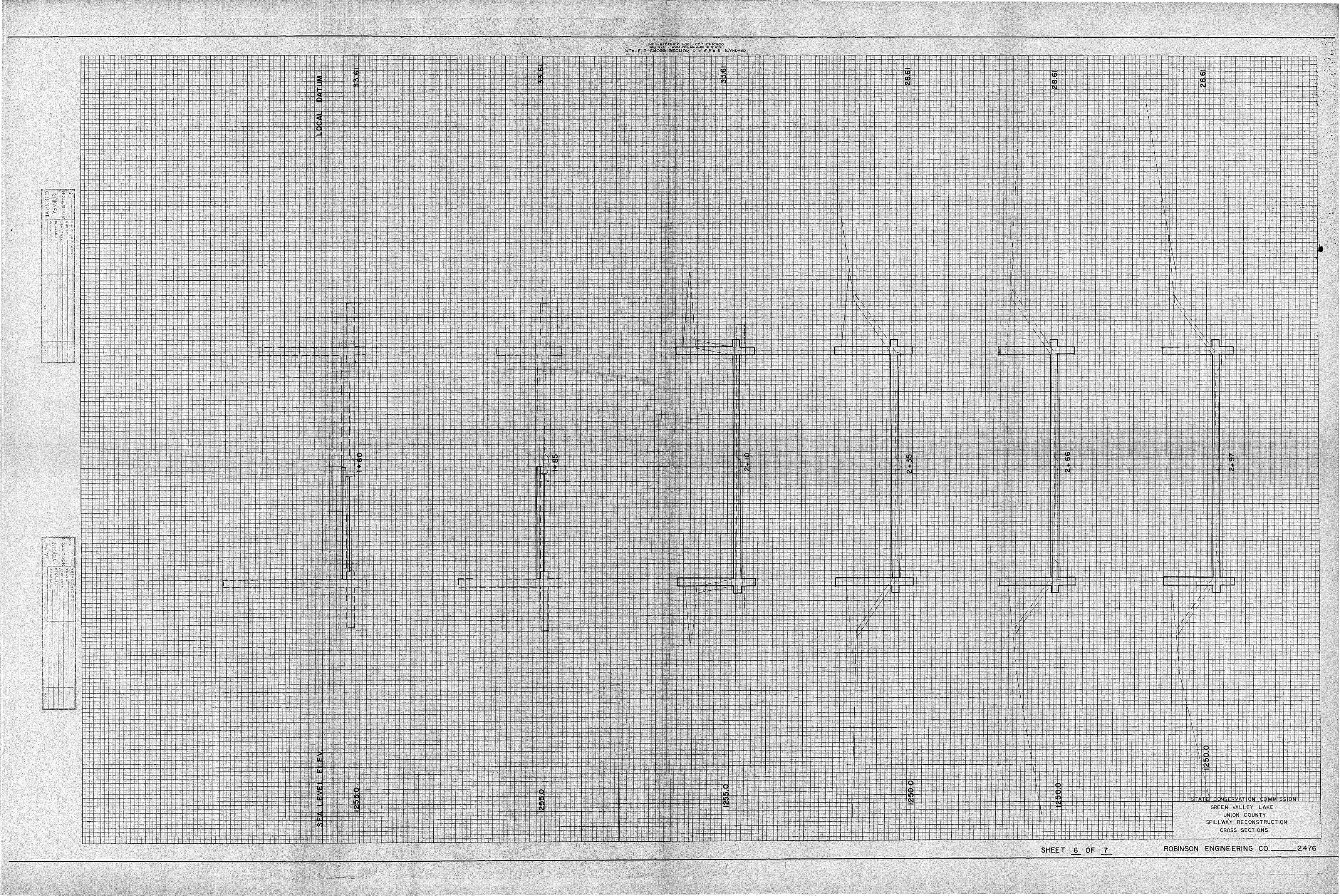
INDEX TO DRAWING	•
TITLE	SHEET NO.
TITLE SHEET  GENERAL PLAN AND PROFILE  DRAINAGE SYST M  STRUCTURE DETAILS  MISCELLANEOUS DETAILS  CROSS SECTIONS  CROSS SECTIONS	1 2 3 4 5 6 7

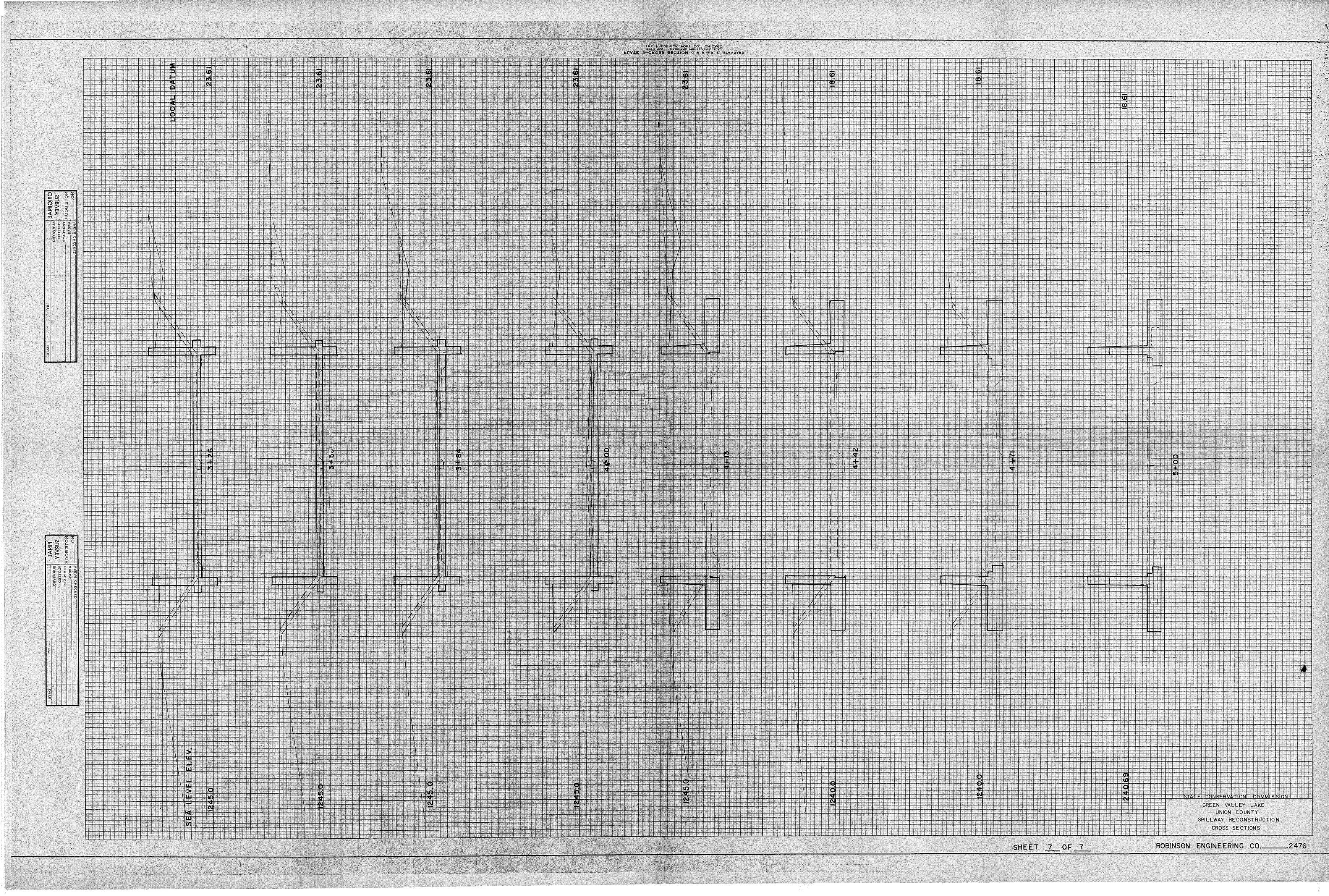












	ESTIMATED QUANTITI	ES	
NO.	DESCRIPTION	UNIT	QUANTITY
1	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	342
2	POROUS BACKFILL MATERIAL	CY	127 .
3	REMOVAL OF CONCRETE	CY	453
4	GRANULAR MATERIAL	CY	409
5	EXCAVATION	CY	4515
6	STRUCTURAL CONCRETE	CY	942
7	REINFORCING STEEL	LB	95770
8	CONCRETE REPAIR	SF	120
3	SUBDRAIN, PERFORATED PLASTIC PIPE, 6 IN. DIA.	LF	460
10	ENGINEERING FABRIC	ŞY	950
11	REVETMENT, RUBBLIZED CONCRETE	ÇY	320
12	FENCE, CHAIN LINK, 42 IN. HEIGHT	LF	214
13	JOINT CLEANING AND RESEALING	LF	200
14	SEEDING AND FERTILIZING	ACRE	0.40

### DEPARTMENT OF NATURAL RESOURCES ENGINEERING BUREAU

## CONSTRUCTION PLANS FOR

VALLEY STATE PARK GREEN

> MOIMU COUNTY, IOWA

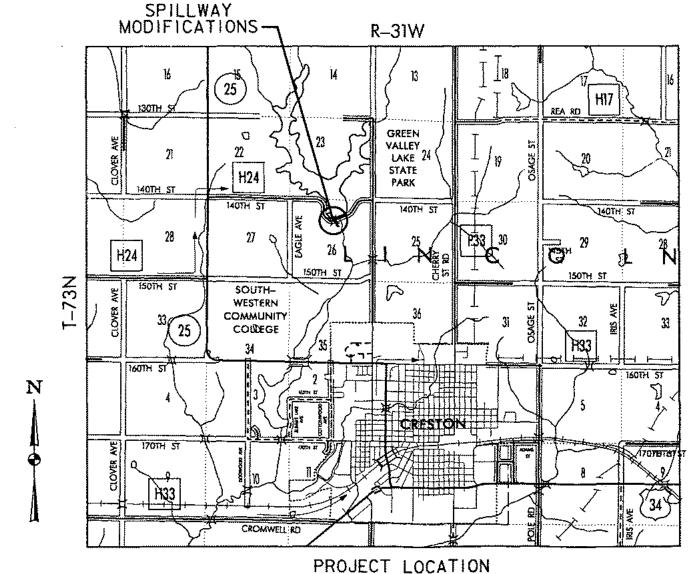
SPILLWAY MODIFICATIONS PROJECT NO. 09-04-88-01

	DRAWING INDEX	
SHEET NO.	DESCRIPTION	
A.C1	TITLE SHEET	
G.81	GRADING AND SUBDRAIN PLAN	
D.01	EXISTING SPILLWAY REMOVALS AND REPAIRS	
D.02	EXISTING SPILLWAY SECTIONS AND DETAILS	
D.03	EXISTING SPILLWAY SECTIONS AND DETAILS	
P.01	PROPOSED SPILLWAY PLAN AND PROFILE	
P.02	PROPOSED SPILLWAY SECTIONS AND DETAILS	
P.03	CONCRETE REPAIR DETAILS	
P.04	SAFETY FENCE DETAILS	

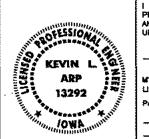
Department of Natural Resources APPROVED PLANS

Flood Plain Permit FP No. 2010-13

REVISIONS



11-17-08 DATE //-/7-08 11-17-0

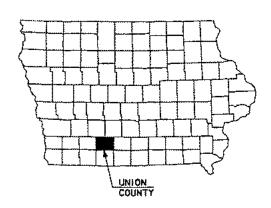


I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER

KEVIN L ARP, P.E. MY LICENSE RENEWAL DATE IS DECEMBER 31, LICENSE NO.: 13292 PAGES OR SHEETS COVERED BY THIS SEAL:

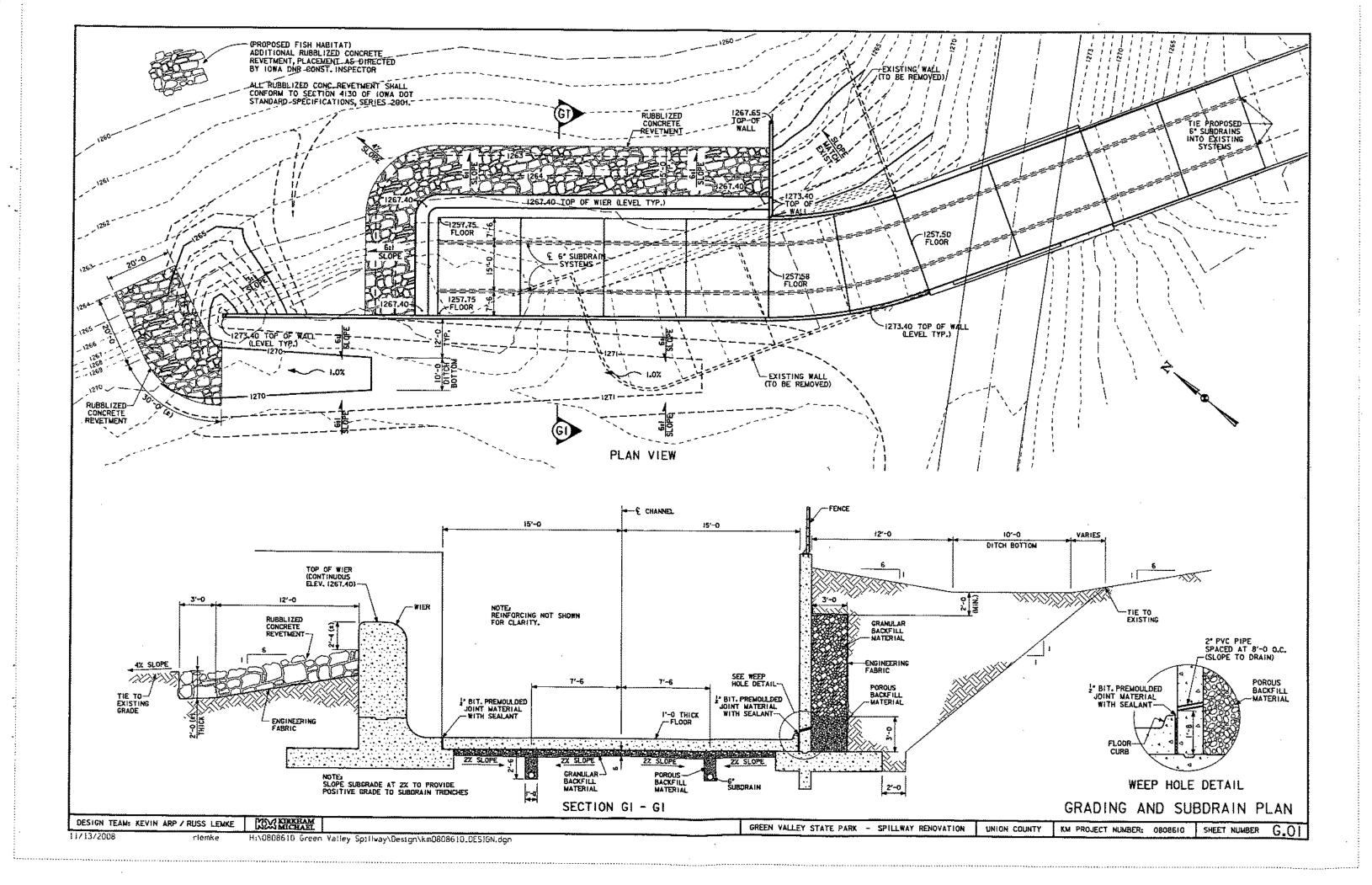
A.01

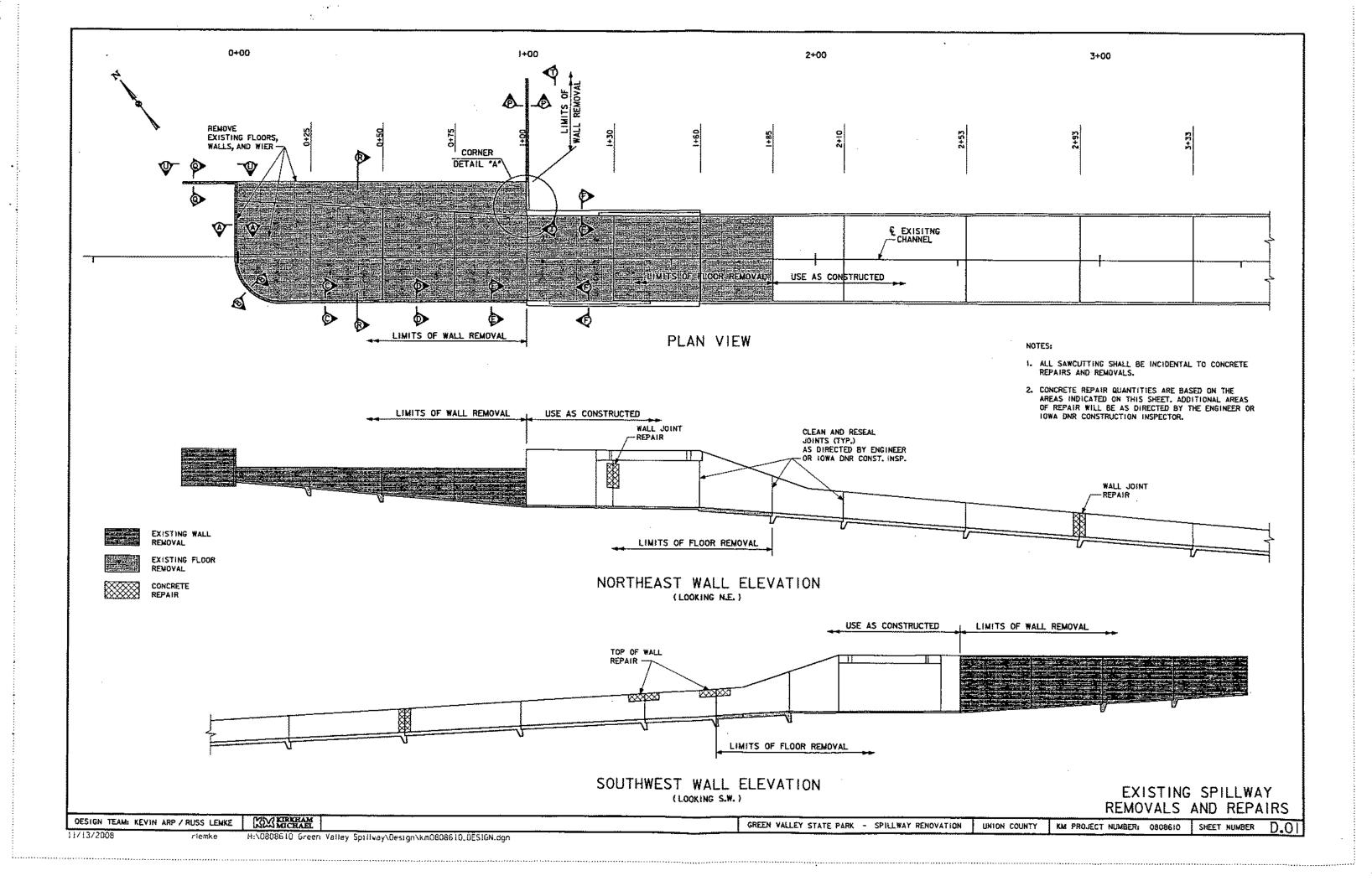


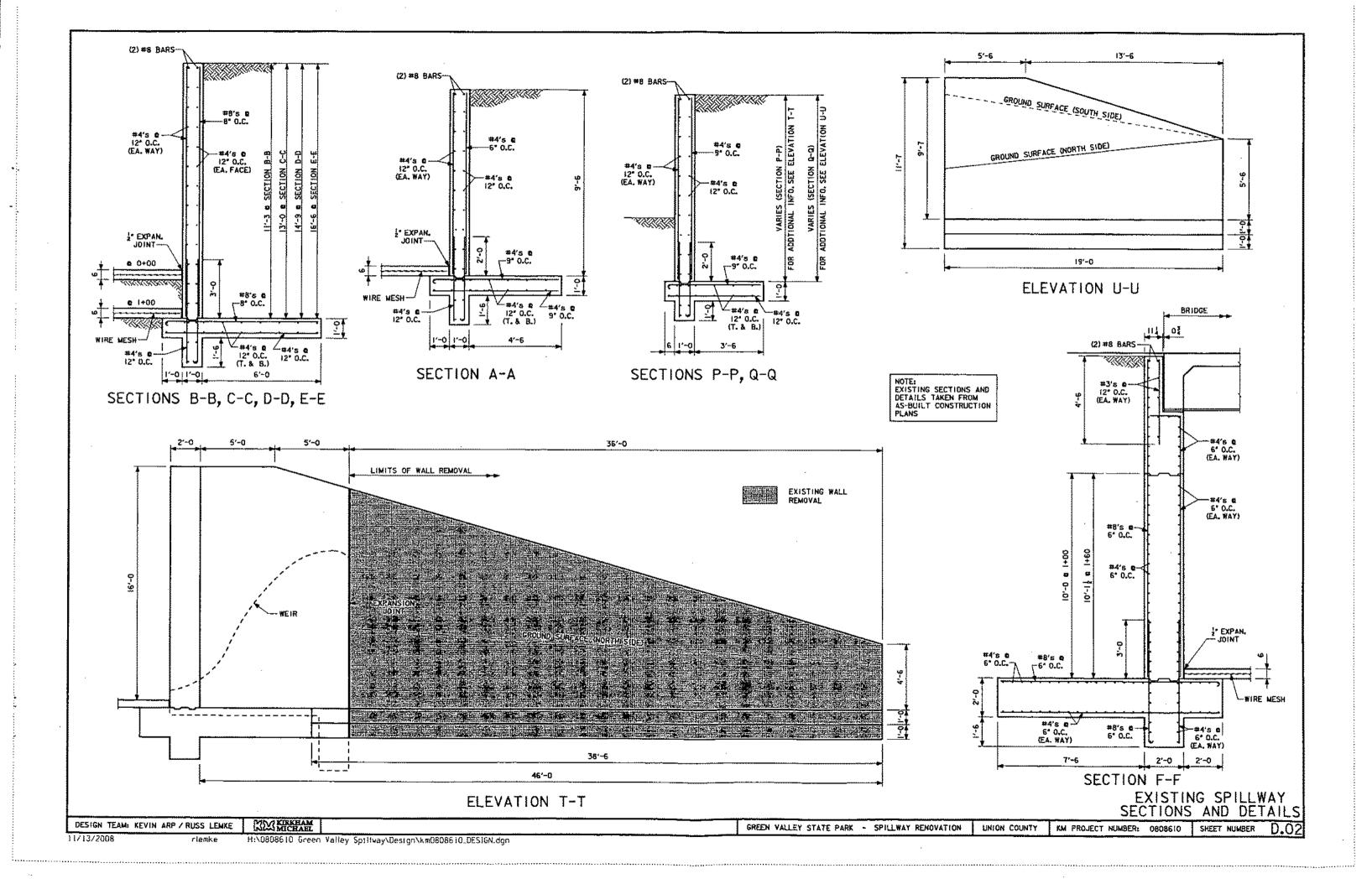


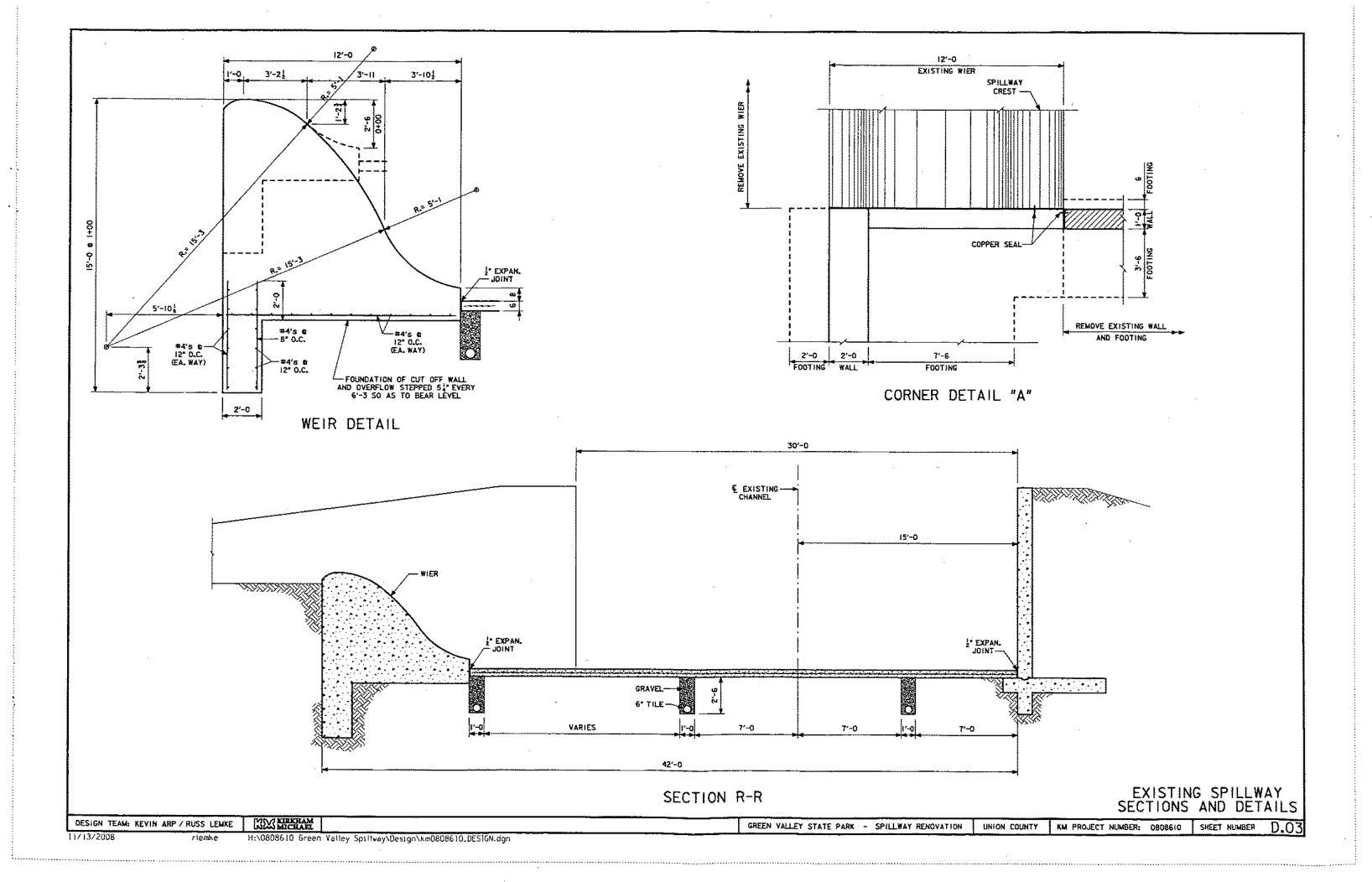


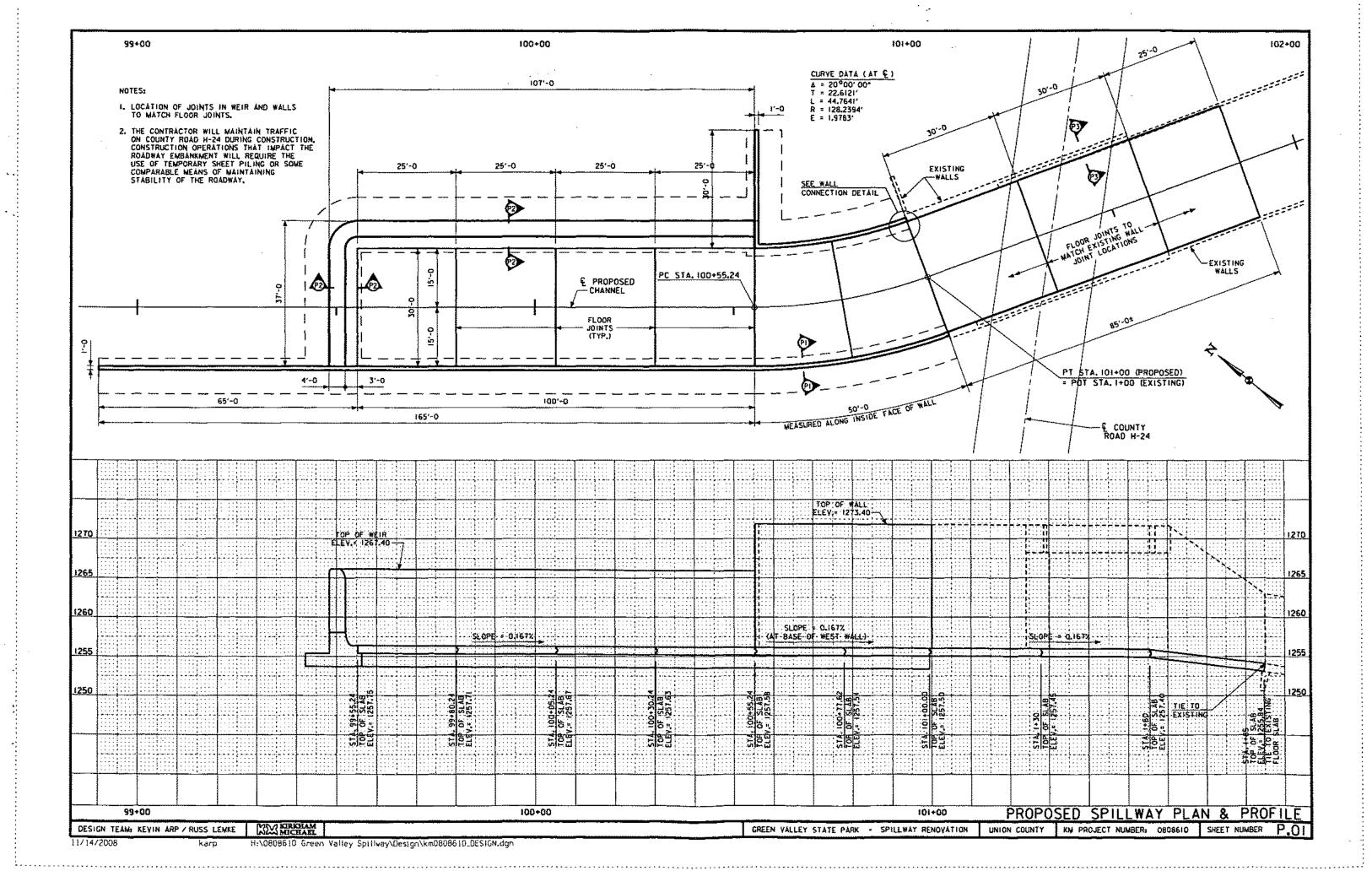
NOT TO SCALE

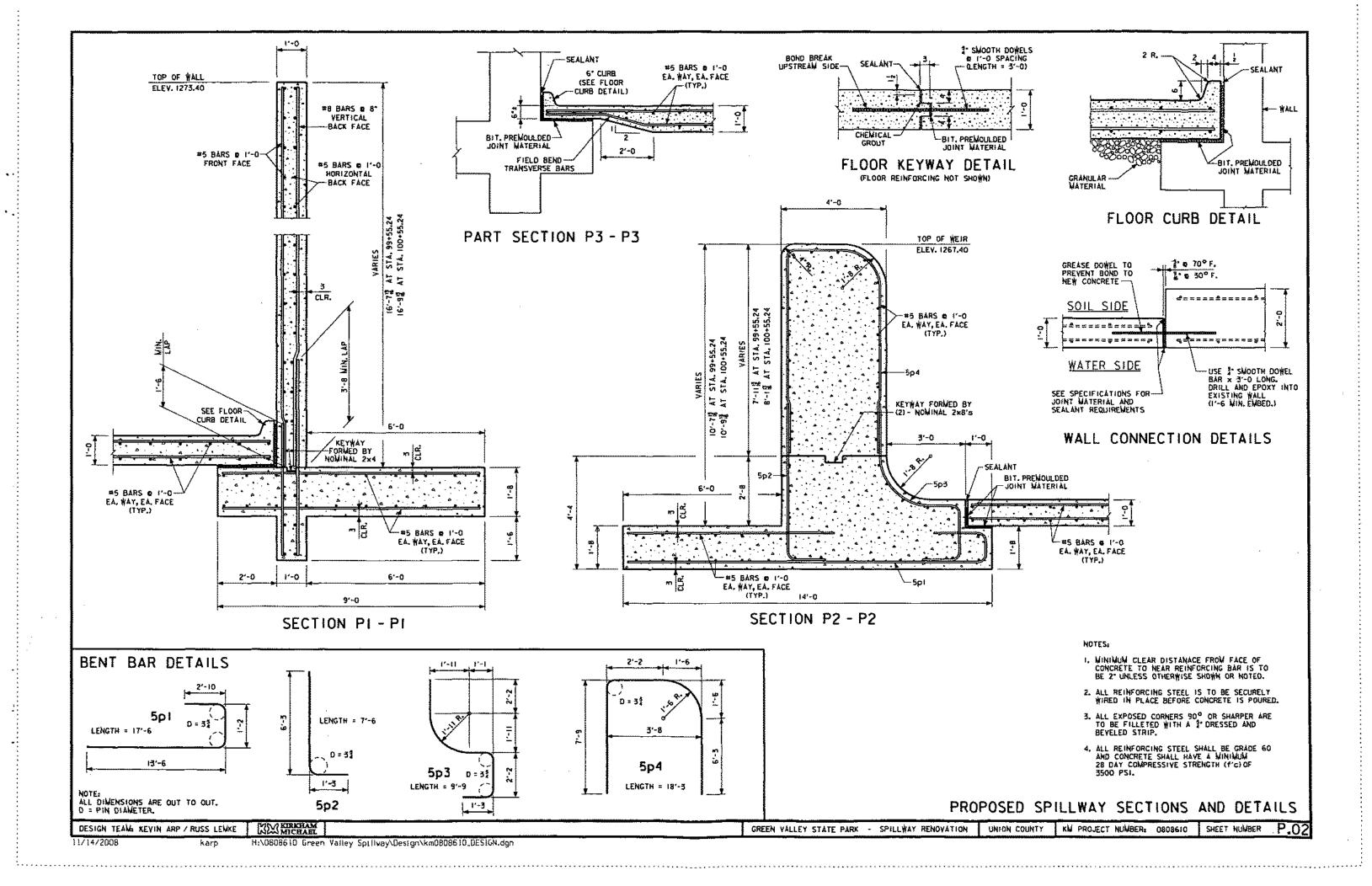


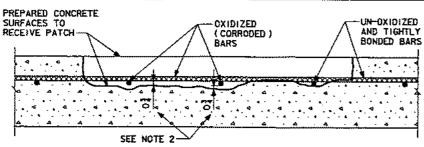








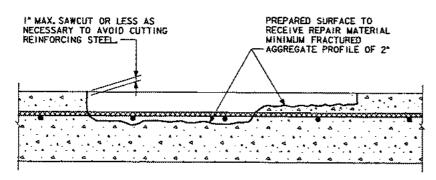




# EXPOSING AND UNDERCUTTING REINF. STEEL TYPICAL SECTION (APPLICABLE TO HORIZ., VERT. & OVERHEAD LOCATIONS)

#### NOTES:

- . REMOVE LODSE OR DELAMINATED CONCRETE ABOVE DXIDIZED REINFORCING STEEL DNCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED DXIDIZED (CORRODED) BARS.
- 2. PROVIDE MINIMUM 3 CLEARANCE BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE OR 4 LARGER THAN LARGEST AGGREGATE IN REPAIR MORTAR WHICH EVER IS GREATER.
- CONCRETE REMOVALS SHALL EXTEND ALONG THE BARS TO LCOATIONS ALONG THE BAR FREE OF BOND INHIBITING CORROSION, AND WEHRE THE BAR IS WELL BONDED TO SURROUNDING CONRETE.
- 4. IF UNOXIDIZED REINFORCING STEEL IS EXPOSED DURING THE UNDERCUTTING PROCESS, CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONRETE. IF BOND BETWEEN BAR AND CONCRETE IS BROKEN, UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
- 5. ANY REINFORCEMENT WHICH IS LOOSE SHALL BE SECURED IN PLACE BY TYING TO OTHER SECURED BARS.
- 6. REPAIR EXISITING REINFORCING STEEL AS SPECIFIED, PROVIDE MECHANICAL SPLICES OR LAP SPLICES FOR NEW REINFORCING STEEL BARS WHERE THE ORIGINAL CROSS SECTION IS DECREASED BY 25% OR MORE DUE TO CORROSION.



# EDGE AND SURFACE CONDITIONING TYPICAL SECTION (APPLICABLE TO HORIZ., VERT. & OVERHEAD LOCATIONS)

#### NOTES:

- I. BEFORE STARTING REMOVALS, REVIEW EFFECT OF REMOVALS ON STRUCTURAL INTEGRITY, PROVIDE SHORING OF MEMBER AS NECESSARY. PARTICULAR CARE SHALL BE EXCERCISED AT SLAB CONNECTIONS TO WALLS.
- REMOVE DELAMINATED CONCRETE, UNDERCUT REINFORCING STEEL (REFER TO REINFORCING STEEL UNDERCUTTING GUIDELINES), REMOVE ADDITIONAL CONCRETE AS REQUIRED TO PROVIDE MINIMUM REQUIRED THICKNESS OF REPAIR MATERIAL.
- 3. AT EDGE LOCATION PROVIDE RIGHT ANGLE CUTS. AVOID FEATHER EDGES. PATCH CONFIGURATIONS SHOULD BE KEPT AS SIMPLE AS POSSIBLE. FOR EXAMPLE:





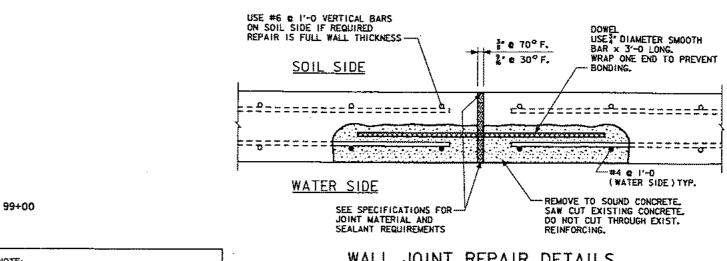




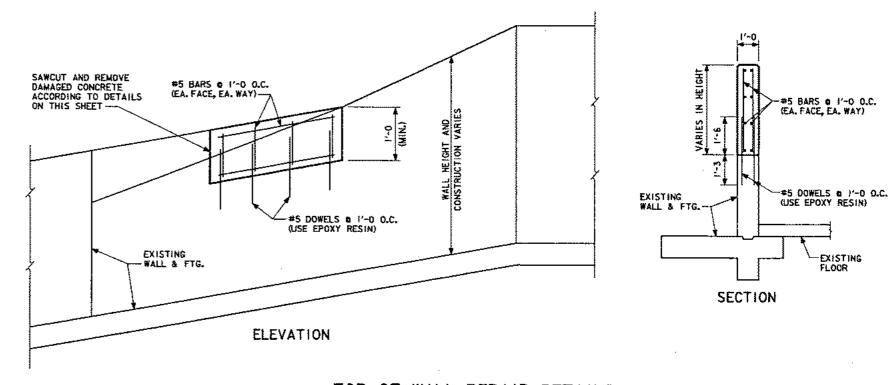
UN-ACCEPTABLE --- ACCEPTABLE

UN-ACCEPTABLE ----- ACCEPTABLE

4. AFTER REMOVALS AND EDGE CONDITIONING ARE COMPLETE, REMOVE BOND INHIBITING MATERIALS (DIRT, CONCRETE SLURRY, LOOSELY BONDED AGGREGATES) BY ABBRASIVE BLASTING OR HIGH PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVE, CHECK THE SURFACES AFTER CLEANING TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE, OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.



NOTE: ALL CONCRETE REMOVALS AND REQUIRED REINFORCEMENT FOR REPAIRS SHALL BE INCIDENTAL TO BID ITEM "CONCRETE REPAIR". WALL JOINT REPAIR DETAILS



TOP OF WALL REPAIR DETAILS

CONCRETE REPAIR DETAILS

DESIGN TEAM: KEVIN ARP / RUSS LEMKE

RMMRRAM

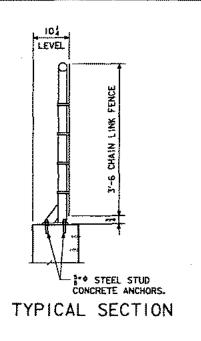
GREEN VALLEY STATE PARK - SPILLWAY RENOVATION

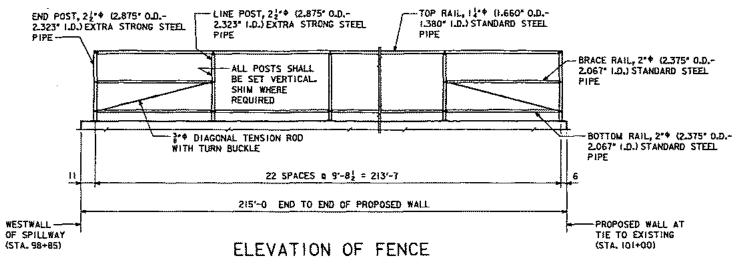
UNION COUNTY

KM PROJECT NUMBER: 0808610

SHEET NUMBER

NUMBER P





#### NOTES:

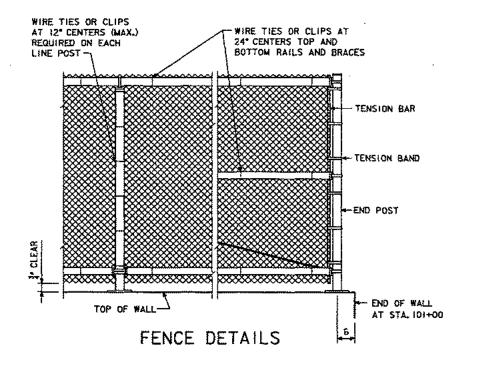
THE CHAIN LINK FENCE IS TO BE BID ON A LINEAR FOOT BASIS MEASURED FROM & TO & OF END POSTS. THE PRICE BID FOR "CHAIN LINK FENCE, 42" HEIGHT" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, INCLUDING CONCRETE ANCHORS AND SHIMS, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE FENCE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

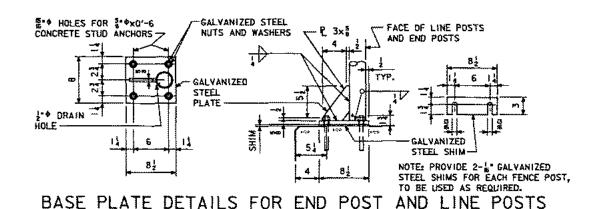
THE CHAIN LINK FENCE SHALL BE EITHER ZINC OR ALLMINUM COATED FABRIC, 2" MESH, NO. 9 WIRES, 42" HEIGHT WITH KNUCKLED SELVAGES TOP AND BOTTOM

THE STUD CONCRETE ANCHORS SHALL BE GALVANIZED AND HAVE A MINIMUM PULLOUT STRENGTH OF 8000 POUNDS BASED ON 4000 PSI CONCRETE.

THE MATERIAL FOR POSTS, BRACES AND RAILS SHALL BE STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, TYPE E OR S, GRADE B. BASE PLATES AND SHIMS SHALL MEET THE REQUIREMENTS OF ASTM A-36, POSTS AND BASE PLATES SHALL BE GALVANIZED, AFTER FABRICATION, IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A-123. SPECIAL FITTINGS SHALL BE AS SPECIFIED IN ARTICLE 4154.11, OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.

THE FENCE SHALL BE TRUE TO LINE, TAUT, AND COMPLY WITH THE BEST PRACTICE FOR FENCE CONSTRUCTION OF THIS TYPE, ALL ENDS OF WIRES SHALL BE TURNED SO THAT THEY EXTEND AWAY FROM THE SIDEWALK SIDE OF





SAFETY FENCE DETAILS