

- NOTES:
1. RUNOFF CAPTURE PONDS TO BE CONSTRUCTED WITH AN AVERAGE DEPTH OF 4-FEET AT THE 2 LOCATIONS SHOWN.
  2. INTERIOR RUNOFF CAPTURE PONDS TO BE DRAINED TO THE EXISTING DRAINAGE DITCHES USING A GATED GRAVITY DRAIN PIPE THROUGH THE RING LEVEE FOUNDATION (SEE SHEET STB-C-4001LV). ALTERNATIVE DRAINAGE WILL BE PERFORMED USING AUXILIARY PUMP SYSTEMS, AS NEEDED.



		DESIGNED	APPROVAL RECOMMENDED	
		M. CONANT		
		DRAWN	APPROVAL BY	
		A. SCHULTZ		
		CHECKED		
		K. ROELL		
REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		



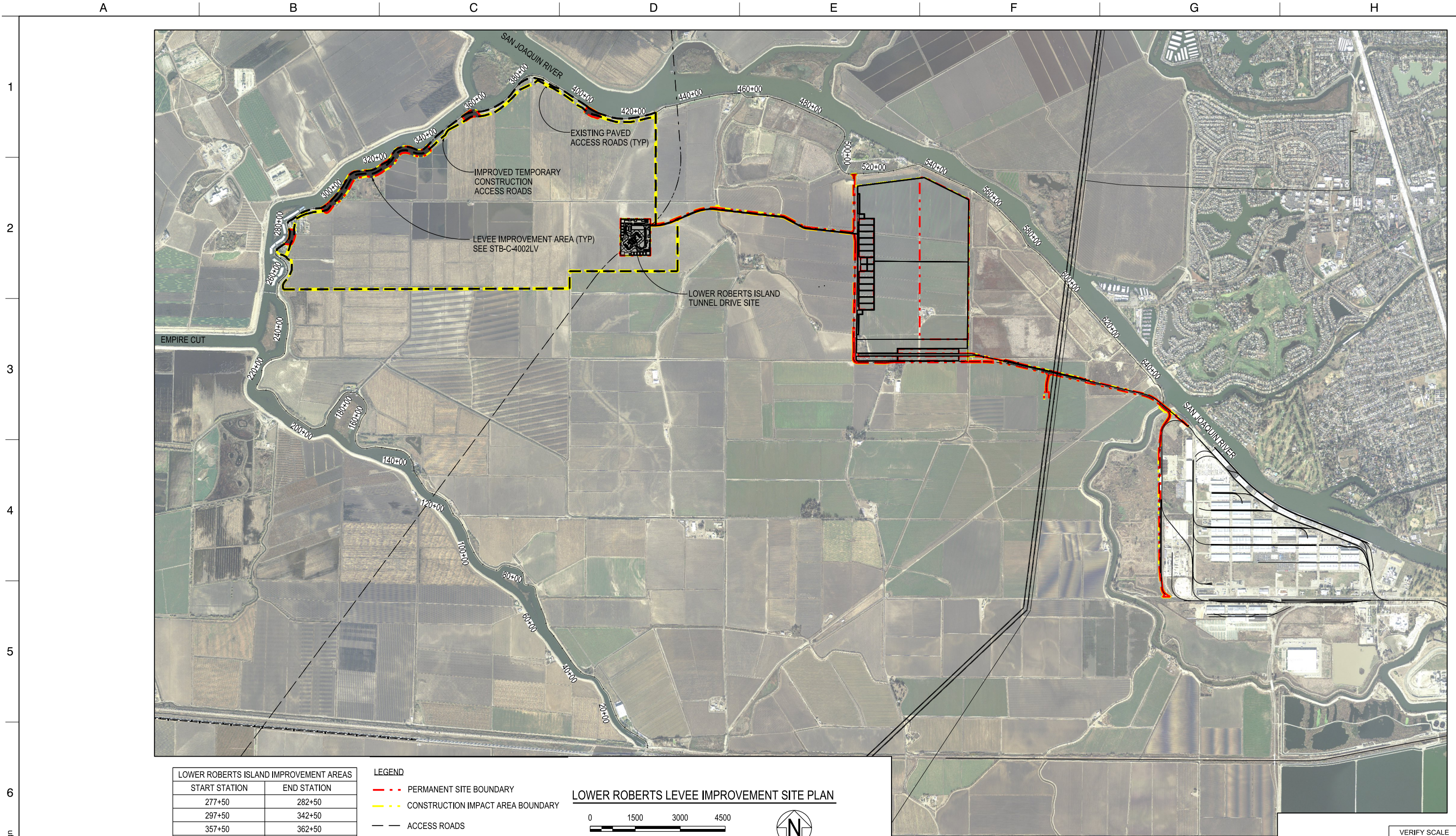
ENGINEERING PROJECT REPORT  
DELTA CONVEYANCE PROJECT  
SINGLE TUNNEL - BETHANY RESERVOIR ALTERNATIVE

**TWIN CITIES COMPLEX  
RING LEVEE SITE PLAN**

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 400	
PROJECT NO. W8X97000	
SHEET NO. STB-C-1001LV	
REV	SEQUENCE NO.
	X

STB-C-1001LV\_W8X97000.dgn

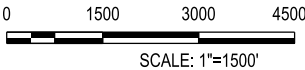




LOWER ROBERTS ISLAND IMPROVEMENT AREAS	
START STATION	END STATION
277+50	282+50
297+50	342+50
357+50	362+50
407+50	412+50

- LEGEND
- PERMANENT SITE BOUNDARY
  - CONSTRUCTION IMPACT AREA BOUNDARY
  - ACCESS ROADS
  - PERMANENT SITE IMPACT

LOWER ROBERTS LEVEE IMPROVEMENT SITE PLAN



REV	DATE	DESCRIPTION	SUB.	APPD.
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED	APPROVAL RECOMMENDED
DRAWN	APPROVAL BY
A. SCHULTZ	
CHECKED	
K. ROELL	



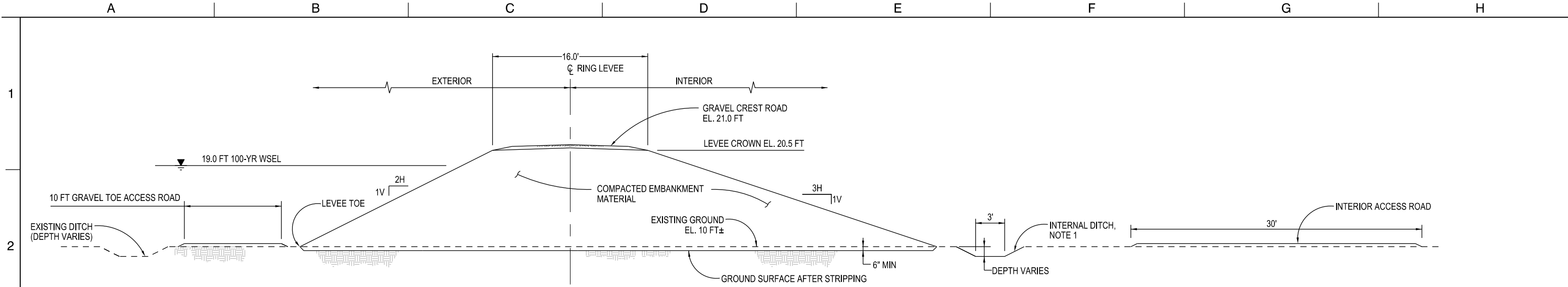
ENGINEERING PROJECT REPORT  
DELTA CONVEYANCE PROJECT  
SINGLE TUNNEL - BETHANY RESERVOIR ALTERNATIVE

LOWER ROBERTS LEVEE  
IMPROVEMENT SITE PLAN

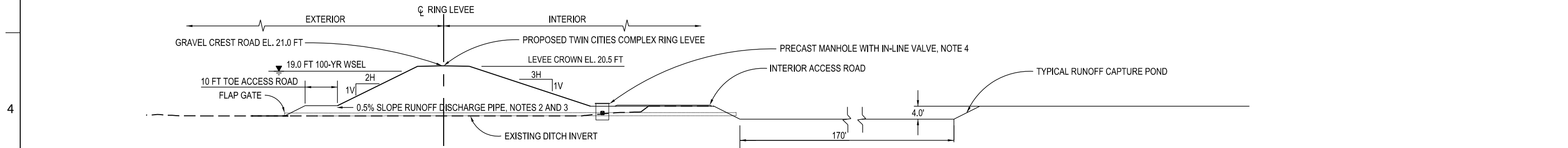
LEVEES	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0' 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"	
PROJECT NO.	W8X97000
SHEET NO.	STB-C-1002LV
REV	SEQUENCE NO.
	X

STB-C-1002LV\_W8X97000.dgn





A-A TYPICAL LEVEE CROSS SECTION  
STB-C-1001LV  
0 5 10 15  
SCALE: 1"=5'



B-B RUNOFF CAPTURE POND DISCHARGE SECTION  
STB-C-1001LV  
0 15 30 45  
SCALE: 1"=15'

- NOTES:
1. UNLINED DITCH WITH 3-FOOT BOTTOM WIDTH SHOWN.
  2. PROPOSED RUNOFF DISCHARGE PIPE WILL BE INSTALLED WITH 0.5 PERCENT SLOPE TO DISCHARGE INTO EXISTING DRAINAGE DITCH.
  3. PROPOSED RUNOFF DISCHARGE PIPE WILL CONSIST OF 12-INCH CMP PLACED BELOW GRADE IN AN EXCAVATED TRENCH WITH MINIMUM 6-INCHES OF ANNULUS. ANNULUS TO BE BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO ORIGINAL GRADE.
  4. DRAINAGE FROM INTERIOR RUNOFF CAPTURE PONDS SHALL BE CONTROLLED BY MANUALLY OPERATED IN-LINE VALVE WITHIN PRECAST MANHOLE STRUCTURE. EXTERNAL FLAP GATE WILL PREVENT BACKFLOW DURING EXTERNAL HIGH-WATER EVENTS.
  5. INTERIOR RUNOFF CAPTURE PONDS SHALL BE DRAINED USING MOBILE PUMP SYSTEMS DURING EXTERNAL HIGH-WATER EVENTS THAT PREVENT GRAVITY DRAINAGE.

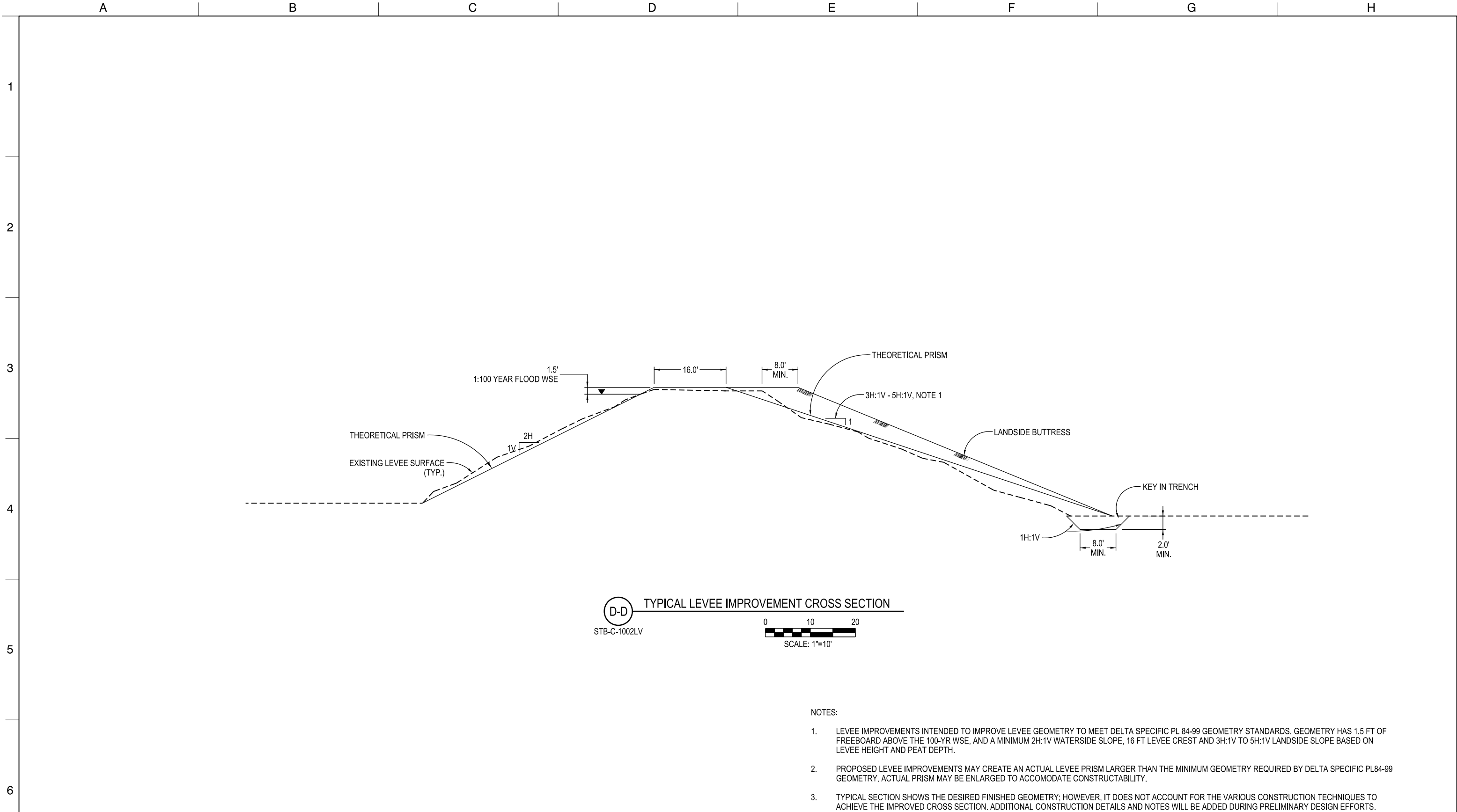
				DESIGNED	APPROVAL RECOMMENDED
				J. PIETI	
				DRAWN	APPROVAL BY
				A. SCHULTZ	
				CHECKED	
				K. ROELL	
REV	DATE	DESCRIPTION	SUB.	APPD	



ENGINEERING PROJECT REPORT  
DELTA CONVEYANCE PROJECT  
SINGLE TUNNEL - BETHANY RESERVOIR ALTERNATIVE  
  
TWIN CITIES COMPLEX  
LEVEE TYPICAL CROSS SECTIONS

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1'	
PROJECT NO. W8X97000	
SHEET NO. STB-C-4001LV	
REV	SEQUENCE NO.
	X

STB-C-4001LV\_W8X97000.dgn



STB-C-4002LV\_W8X97000.dgn

				DESIGNED	APPROVAL RECOMMENDED
				M. CONANT	
				DRAWN	APPROVAL BY
				A. SCHULTZ	
				CHECKED	
				K. ROELL	
REV	DATE	DESCRIPTION	SUB.	APPD	



ENGINEERING PROJECT REPORT  
DELTA CONVEYANCE PROJECT  
SINGLE TUNNEL - BETHANY RESERVOIR ALTERNATIVE

LOWER ROBERTS LEVEE IMPROVEMENTS  
TYPICAL CROSS SECTION

LEVEES

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
PROJECT NO. W8X97000	
SHEET NO. STB-C-4002LV	
REV	SEQUENCE NO.
	X