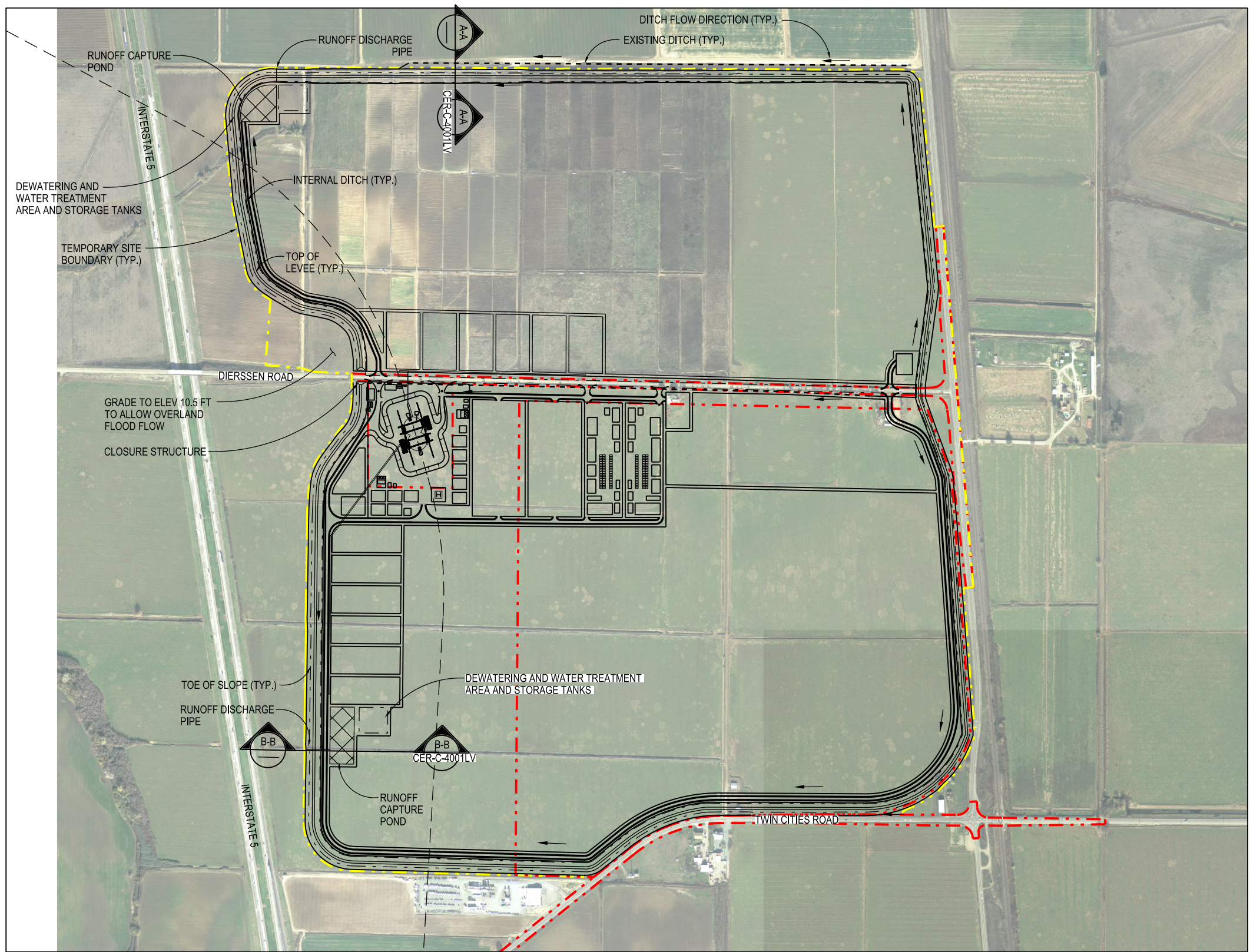


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- NOTES:**
1. RUNOFF CAPTURE PONDS TO BE CONSTRUCTED WITH AN AVERAGE DEPTH OF 4- FEET AT THE 2 LOCATIONS SHOWN.
 2. INTERIOR RUNOFF CAPTURE PONDS TO BE DRAINED TO THE EXISTING DRAINAGE DITCHES USING A GATED GRAVITY DRAIN PIPE THROUGH THE RING LEVEE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

RING LEVEE SITE PLAN
 0 400
 SCALE: 1"=400'



LEVEES

VERIFY SCALE
 BAR IS ONE INCH ON
 ORIGINAL DRAWING.
 0 1'

REV	DATE	DESCRIPTION	SUB.	APPD
SEP 2024		DELTA CONVEYANCE PROJECT CONCEPT ENGINEERING REPORT DRAWINGS		

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

CONCEPT
 PLANNING
 DOCUMENT

 NOT FOR
 CONSTRUCTION

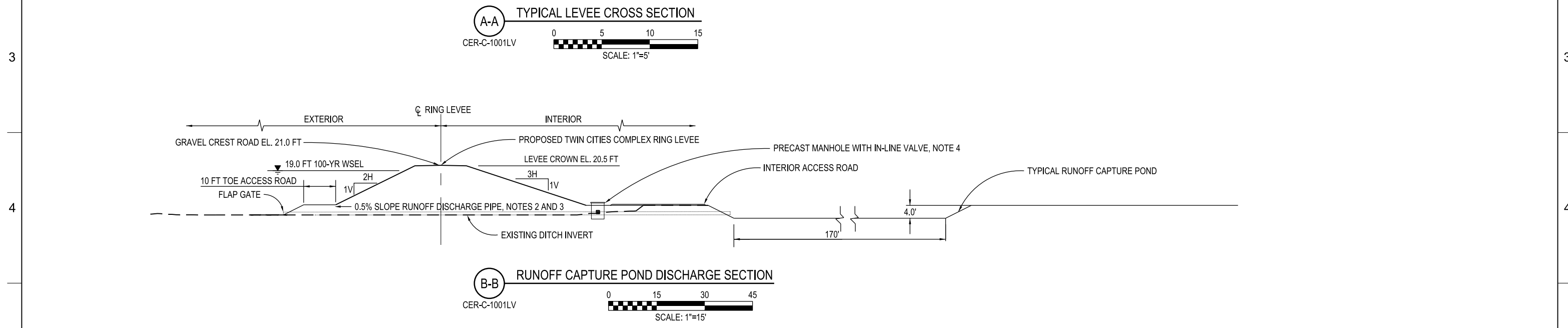
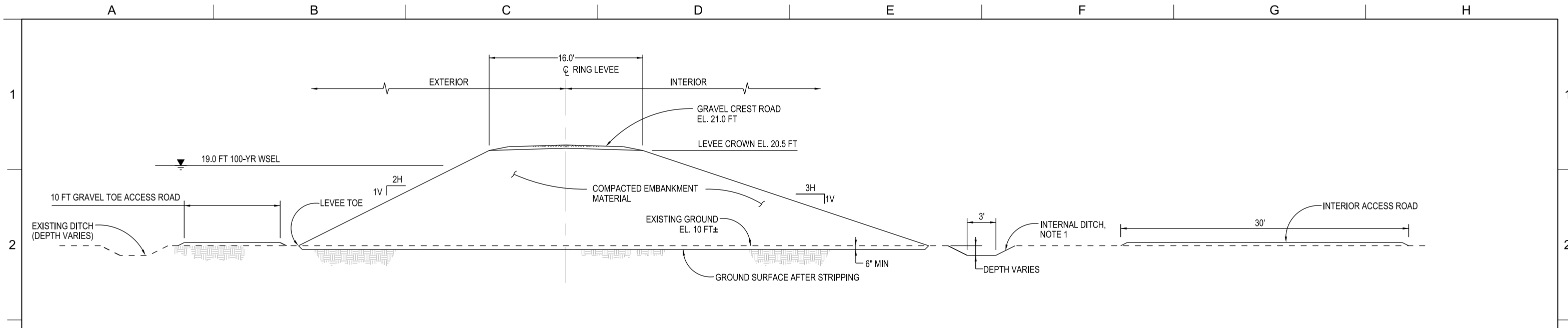


DELTA CONVEYANCE PROJECT
 CONCEPT ENGINEERING REPORT

**TWIN CITIES COMPLEX
 RING LEVEE SITE PLAN**

PROJECT NO.	W8X97000
SHEET NO.	CER-C-1001LV
REV	SEQUENCE NO.
	106

CER-C-1001LV_W8X97000.dgn



- NOTES:**
- UNLINED DITCH WITH 3-FOOT BOTTOM WIDTH SHOWN.
 - PROPOSED RUNOFF DISCHARGE PIPE WILL BE INSTALLED WITH 0.5 PERCENT SLOPE TO DISCHARGE INTO EXISTING DRAINAGE DITCH.
 - 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.
 - 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.
 - INTERIOR RUNOFF CAPTURE PONDS SHALL BE DRAINED USING MOBILE PUMP SYSTEMS DURING EXTERNAL HIGH-WATER EVENTS THAT PREVENT GRAVITY DRAINAGE.

CER-C-4001LV_W8X97000.dgn

LEVEES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1'

DESIGNED	J. PIETI	APPROVAL RECOMMENDED	
DRAWN	A. SCHULTZ	APPROVAL BY	
CHECKED	K. ROELL		
REV	DATE	DESCRIPTION	SUB. APPD
	SEP 2024	DELTA CONVEYANCE PROJECT CONCEPT ENGINEERING REPORT DRAWINGS	

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CONCEPT ENGINEERING REPORT

**TWIN CITIES COMPLEX
LEVEE TYPICAL CROSS SECTIONS**

PROJECT NO.	W8X97000
SHEET NO.	CER-C-4001LV
REV	SEQUENCE NO.
	108

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1

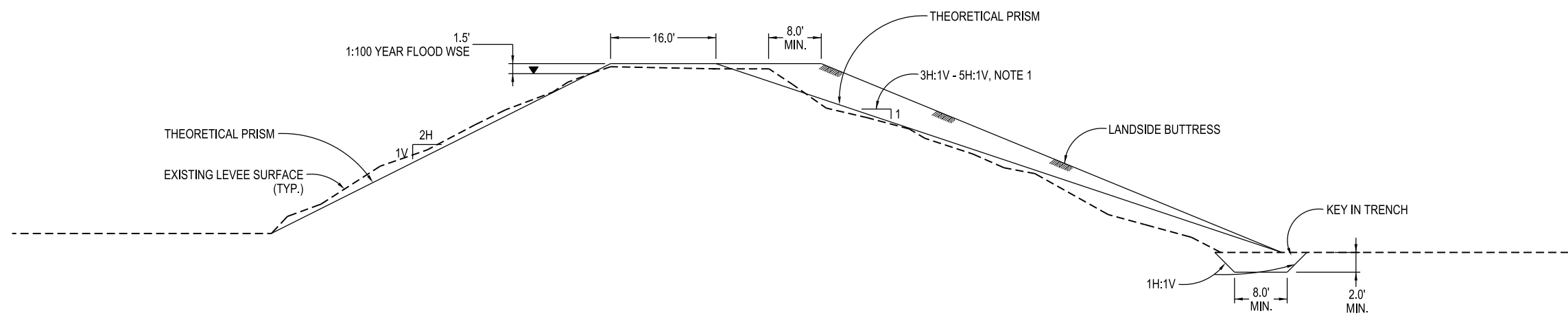
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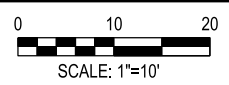
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D-D TYPICAL LEVEE IMPROVEMENT CROSS SECTION
 CER-C-1002LV
 SCALE: 1"=10'



NOTES:

- LEVEE IMPROVEMENTS INTENDED TO IMPROVE LEVEE GEOMETRY TO MEET DELTA SPECIFIC PL 84-99 GEOMETRY STANDARDS. GEOMETRY HAS 1.5 FT OF FREEBOARD ABOVE THE 100-YR WSE, AND A MINIMUM 2H:1V WATERSIDE SLOPE, 16 FT LEVEE CREST AND 3H:1V TO 5H:1V LANDSIDE SLOPE BASED ON LEVEE HEIGHT AND PEAT DEPTH.
- PROPOSED LEVEE IMPROVEMENTS MAY CREATE AN ACTUAL LEVEE PRISM LARGER THAN THE MINIMUM GEOMETRY REQUIRED BY DELTA SPECIFIC PL84-99 GEOMETRY. ACTUAL PRISM MAY BE ENLARGED TO ACCOMMODATE CONSTRUCTABILITY.
- TYPICAL SECTION SHOWS THE DESIRED FINISHED GEOMETRY; HOWEVER, IT DOES NOT ACCOUNT FOR THE VARIOUS CONSTRUCTION TECHNIQUES TO ACHIEVE THE IMPROVED CROSS SECTION. ADDITIONAL CONSTRUCTION DETAILS AND NOTES WILL BE ADDED DURING PRELIMINARY DESIGN EFFORTS.

CER-C-4002LV_W8X97000.dgn

LEVEES

VERIFY SCALE
 BAR IS ONE INCH ON
 ORIGINAL DRAWING.
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REV	DATE	DESCRIPTION	SUB.	APPD
SEP 2024		DELTA CONVEYANCE PROJECT CONCEPT ENGINEERING REPORT DRAWINGS		

DESIGNED	M. CONANT
DRAWN	A. SCHULTZ
CHECKED	K. ROELL

APPROVAL RECOMMENDED	
APPROVAL BY	

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 PLANNING
 DOCUMENT
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 CONSTRUCTION



DELTA CONVEYANCE PROJECT
 CONCEPT ENGINEERING REPORT
**LOWER ROBERTS LEVEE IMPROVEMENTS
 TYPICAL CROSS SECTION**

PROJECT NO.	W8X97000
SHEET NO.	CER-C-4002LV
REV	SEQUENCE NO.
	109