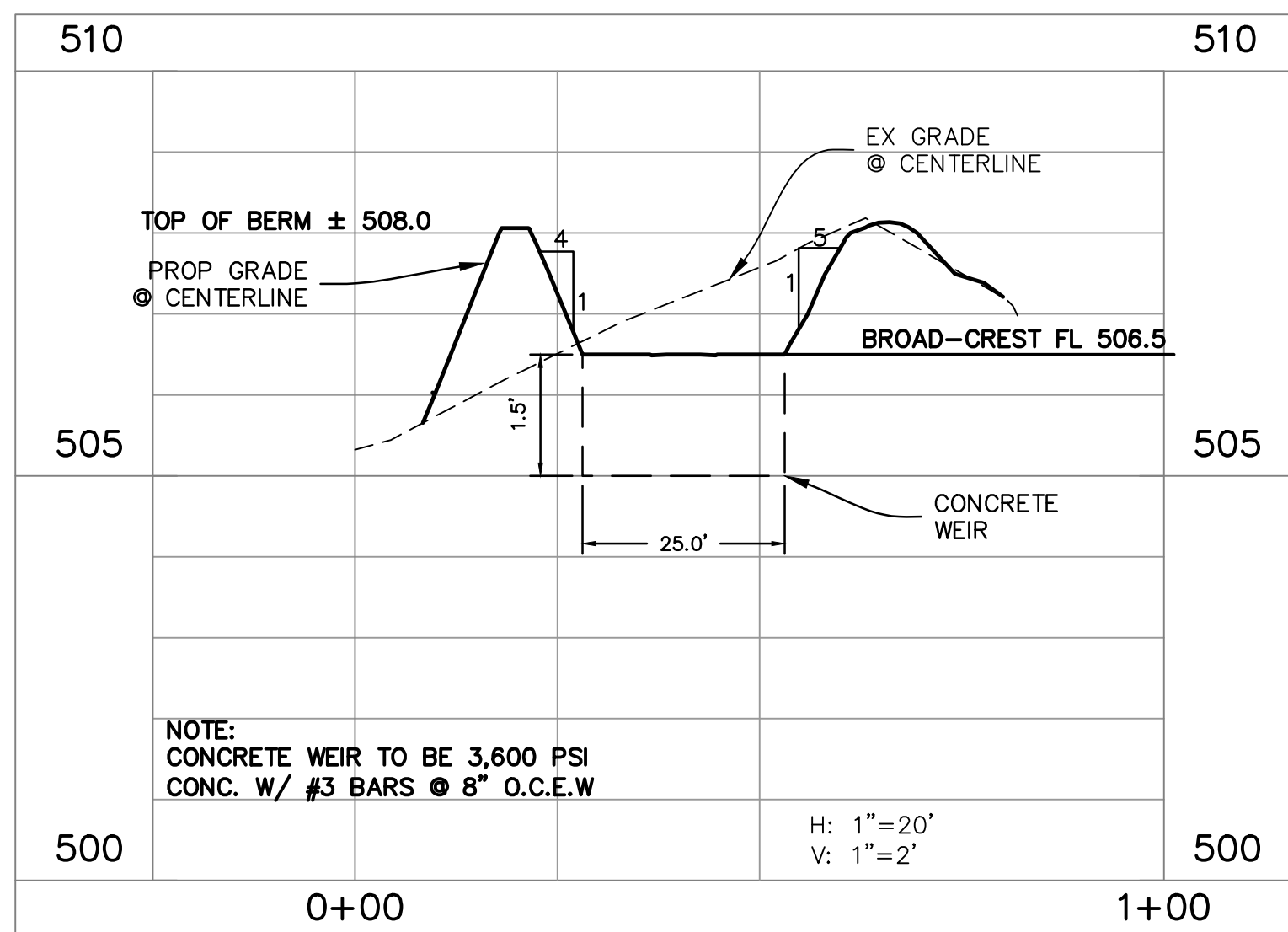
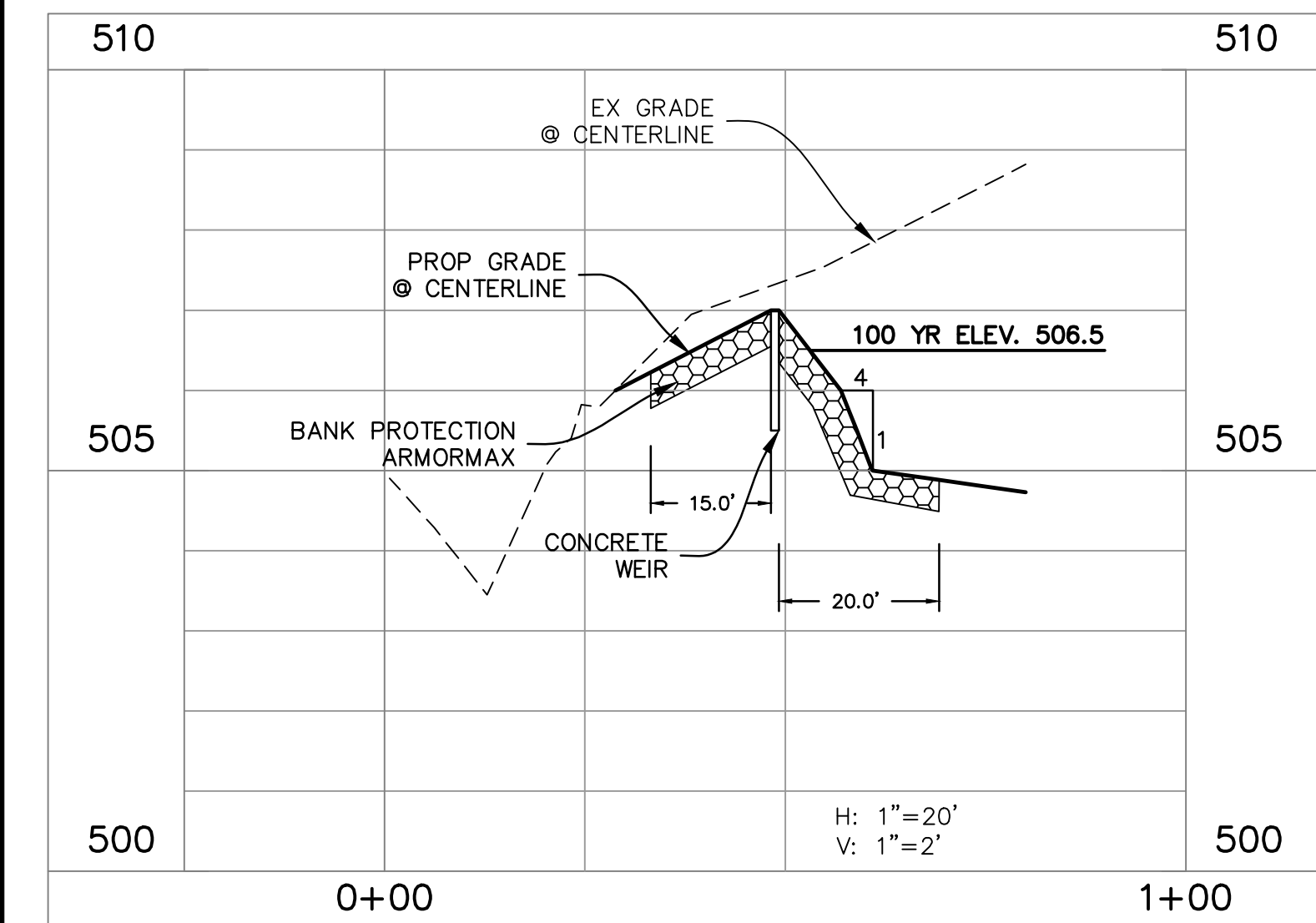


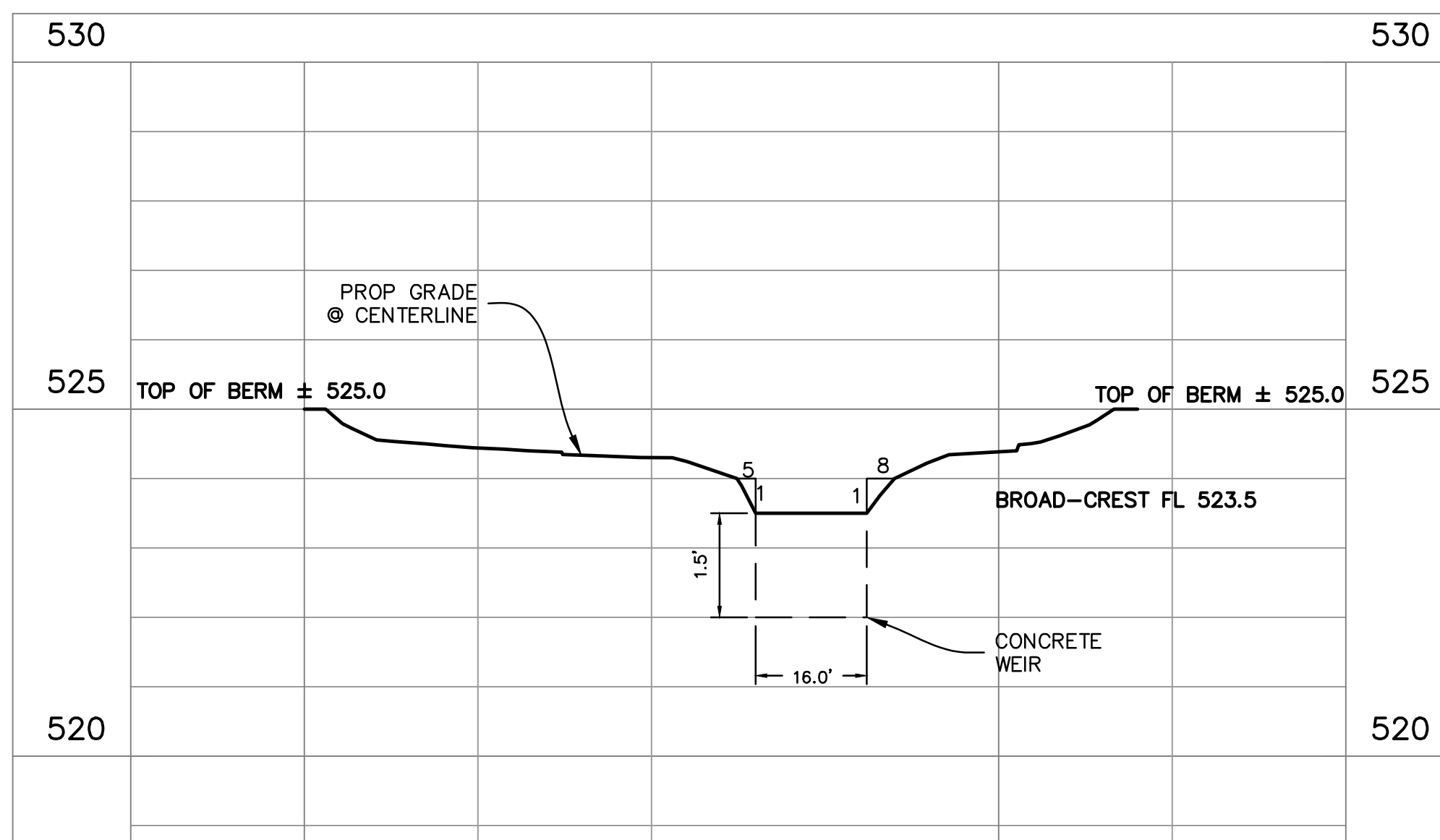
NORTH POND EMERGENCY SPILLWAY



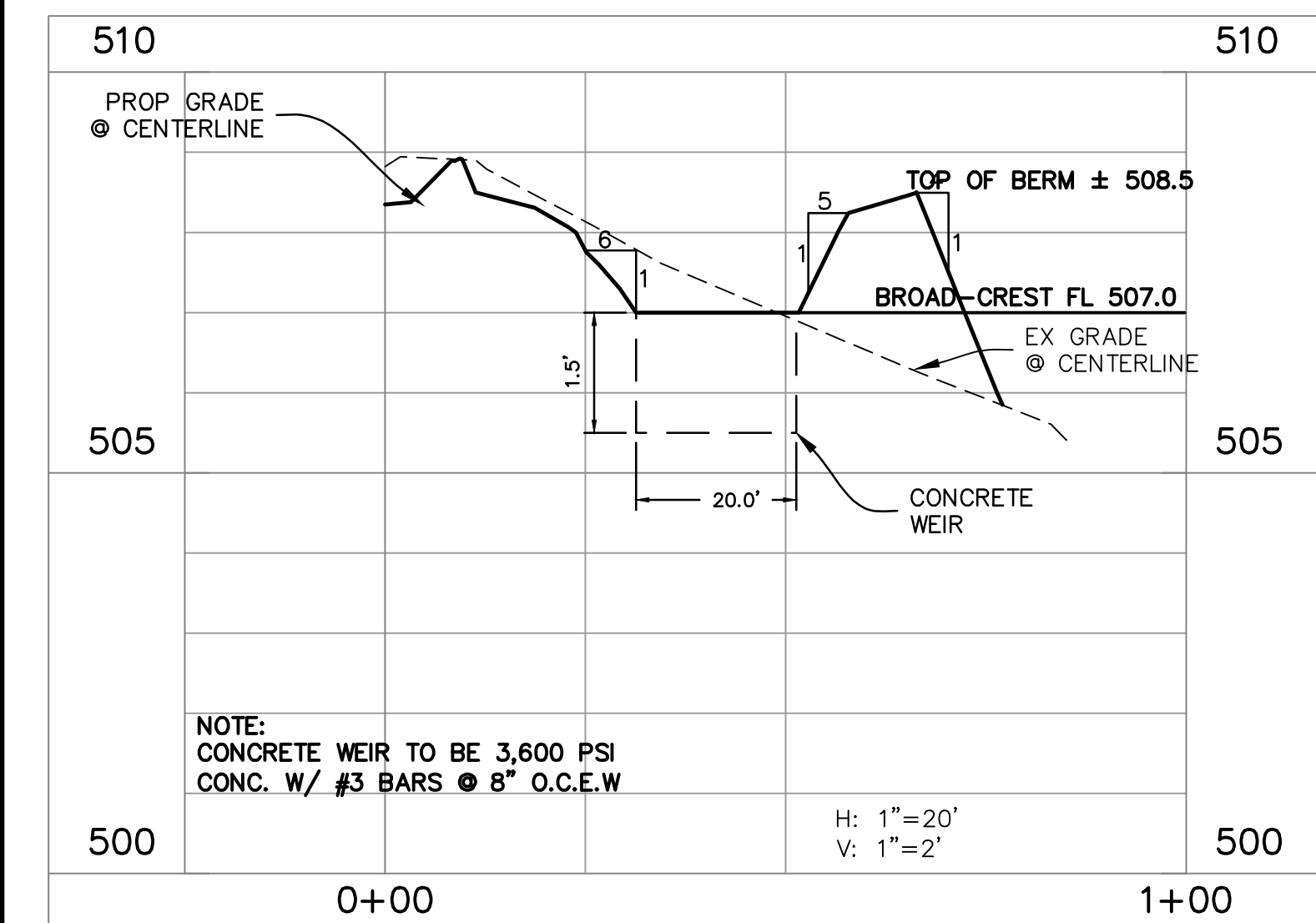
NORTH POND EMERGENCY SPILLWAY SECTION



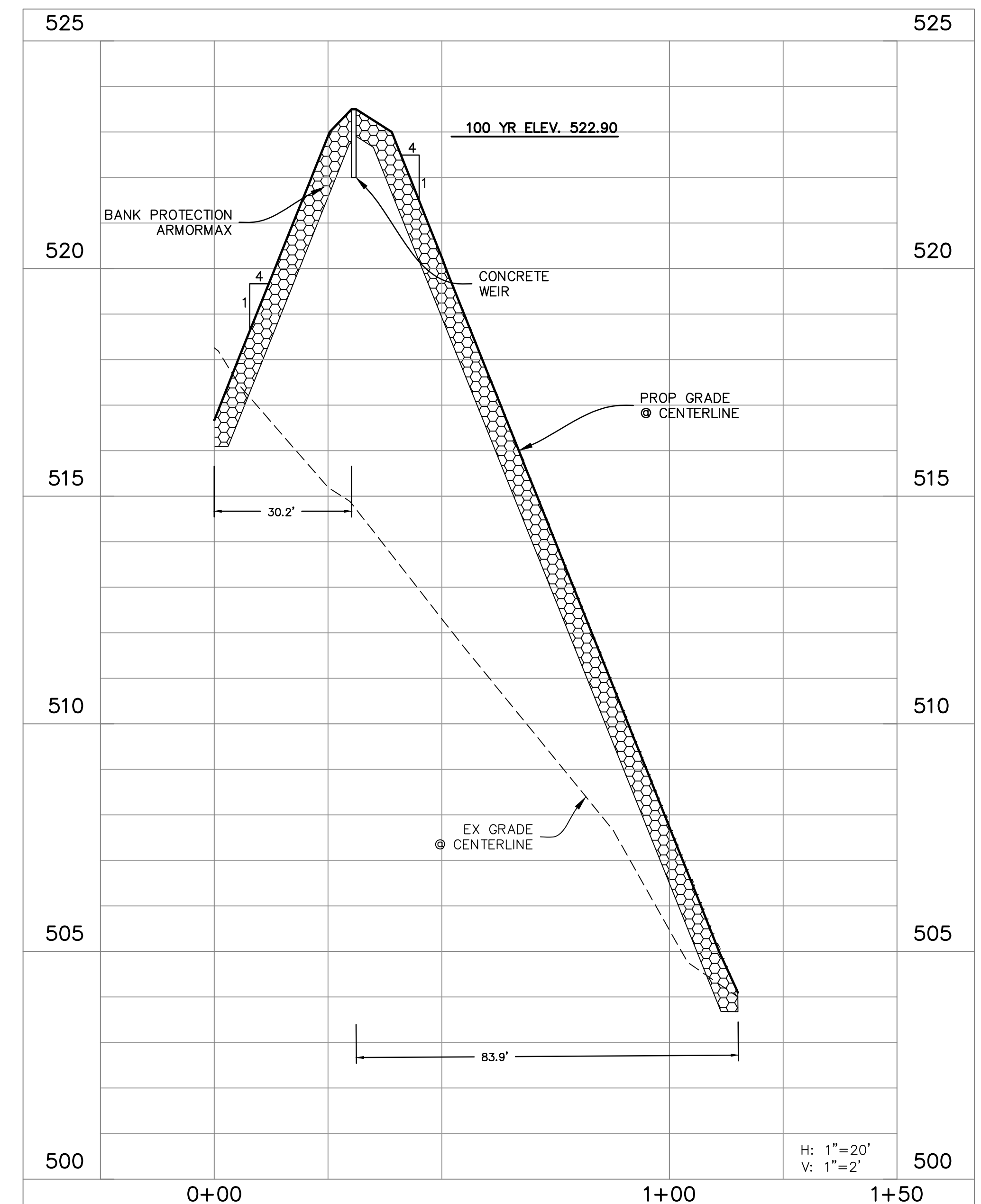
SOUTH POND EMERGENCY SPILLWAY



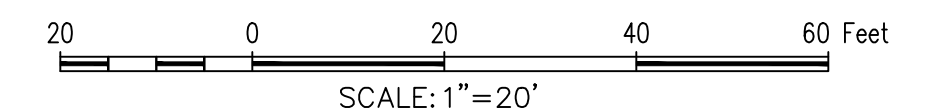
EAST POND EMERGENCY SPILLWAY SECTION



SOUTH POND EMERGENCY SPILLWAY SECTION



EAST POND EMERGENCY SPILLWAY



Emergency Spillway - North Pond

* Spillway to convey the fully urbanized 100-year storm event.
Calculations:

$$Q = CLH^{3/2}$$

$$Q = (3.2)(25)(1.5)^{3/2}$$

$$Q = 147.0 \text{ cfs} > 102.9 \text{ cfs}$$

Q=100-yr discharge
C=coefficient of discharge
L=effective length of spillway, ft
H=total head on spillway

Emergency Spillway - South Pond

* Spillway to convey the fully urbanized 100-year storm event.
Calculations:

$$Q = CLH^{3/2}$$

$$Q = (3.2)(20)(1.5)^{3/2}$$

$$Q = 117.6 \text{ cfs} > 78.5 \text{ cfs}$$

Q=100-yr discharge
C=coefficient of discharge
L=effective length of spillway, ft
H=total head on spillway

Emergency Spillway - East Pond

* Spillway to convey the fully urbanized 100-year storm event.
Calculations:

$$Q = CLH^{3/2}$$

$$Q = (3.2)(16)(1.5)^{3/2}$$

$$Q = 94.1 \text{ cfs} > 64.9 \text{ cfs}$$

Q=100-yr discharge
C=coefficient of discharge
L=effective length of spillway, ft
H=total head on spillway

AS-BUILT RECORD DRAWING
 MCADAMS, TBPE: 19762
 TO THE BEST OF OUR KNOWLEDGE, THE JOHN R. MCADAMS COMPANY, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.
 M.D. Duval
 5/21/2020

GENERAL NOTES

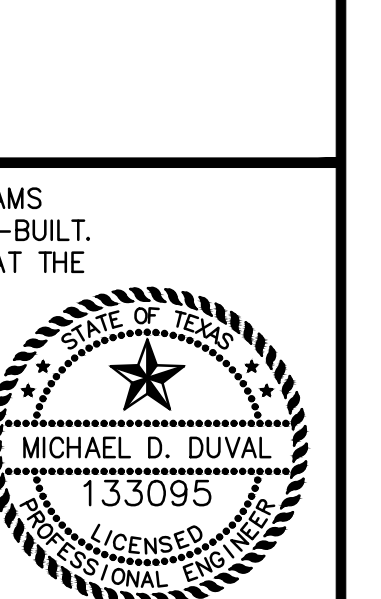
- ALL RESPONSIBILITIES FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.
- REGIONAL DETENTION PONDS SIZED FOR RESIDENTIAL DEVELOPMENT, WILL NEED TO BE RESIZED FOR FUTURE COMMERCIAL DEVELOPMENT.
- FOR MORE INFORMATION ON THE CROSS SECTIONS FOR THE ULTIMATE 100 YR FLOODPLAIN REFER TO "HYDROLOGIC AND HYDRAULIC STUDY IN SUPPORT OF LADERA ROCKWALL DEVELOPMENT" PREPARED BY JEA-HYDROTECH ENGINEERING, INC.

OWNER/DEVELOPER
 RW LADERA, LLC
 361 W. BYRON NELSON BLVD, STE 104
 ROANOKE, TX 76262
 Ph. 817.430.3318
 Contact: John Dellin

The John R. McAdams Company, Inc.
 111 Hillside Drive
 Lewisville, Texas 75057
 972.436.9712
 201 Country View Drive
 Rockwall, TX 75087
 940.240.1012
 TBPE: 19762 TBPLS: 10194440
 www.mcadamsco.com

MCADAMS
 LADERA ROCKWALL PHASE 1
 Lot 1, Block A & Lot 1, Block B
 LADERA ROCKWALL
 47,694 Acres
 M. JONES SURVEY, ABSTRACT NO. 122
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

DETENTION DETAILS



MCADAMS TBPE: 19762

Drawn By: MD	Date: 02/23/2018
Scale: 1"=20'	
Revisions:	
04/23/2018	
07/16/2018	
09/06/2018	
01/28/2019	
02/11/2019	
03/11/2019	Signed

17191

C36.1

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