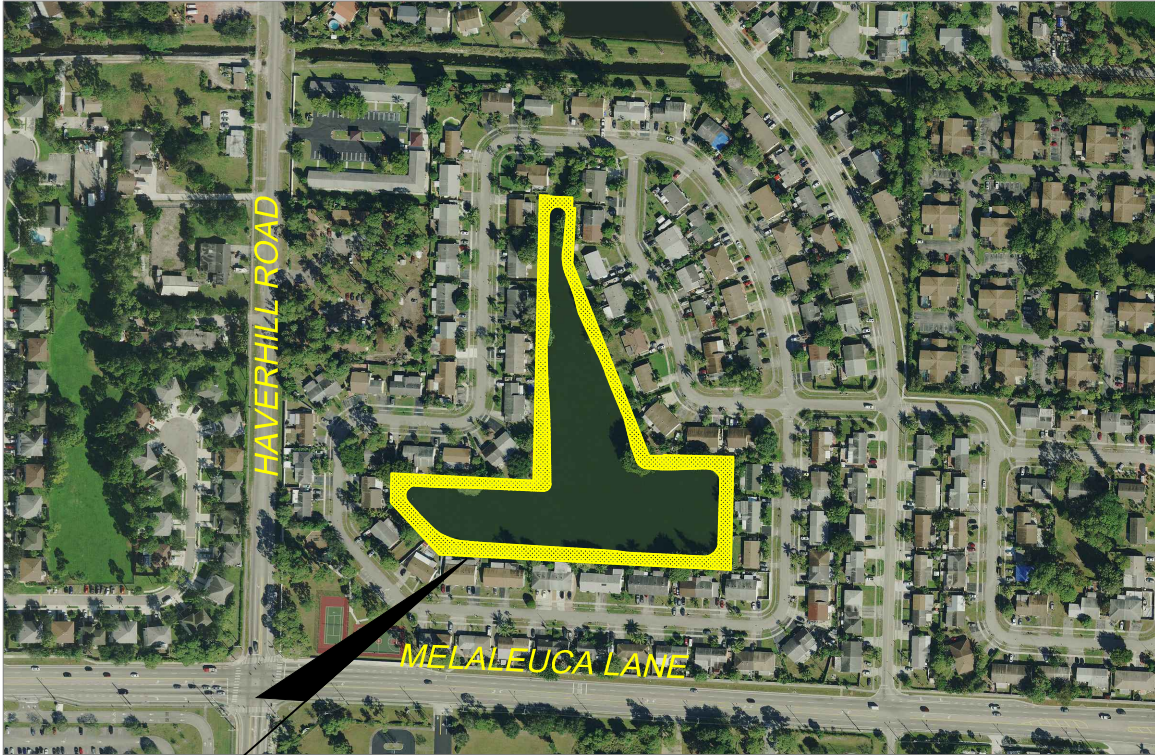


GLADIATOR LAKE DRAINAGE ENHANCEMENTS/MAINTENANCE

CITY OF GREENACRES
PALM BEACH COUNTY, FLORIDA



PROJECT LOCATION

LOCATION MAP

SECTION 25, TOWNSHIP 44 SOUTH, RANGE 42 EAST

SHEET INDEX

SHEET NO.	DESCRIPTION	REV
C-1	COVER SHEET	
C-2	EROSION CONTROL PLAN	
C-3	EMBANKMENT ARMORING PLAN	
C-4	MASTER GRADING & DRAINAGE PLAN	
C-5	GRADING & DRAINAGE KEY SHEET	
C-6 TO C-22	GRADING AND DRAINAGE PLAN	
C-23 TO C-48	GRADING & DRAINAGE SECTIONS	
C-49 TO C-52	EMBANKMENT ARMORING DETAILS	
C-53	FLOATING TURBIDITY BARRIER DETAIL	



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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

DATE: _____
SCALE: _____
DESIGN BY: _____
DRAWN BY: _____
CHECKED BY: _____
APPROVED BY: _____

COVER
PREPARED FOR: CITY OF GREENACRES

PROJECT NO.
17-0052

GLADIATOR LAKE
DRAINAGE ENHANCEMENTS

C-1
SHEET OF

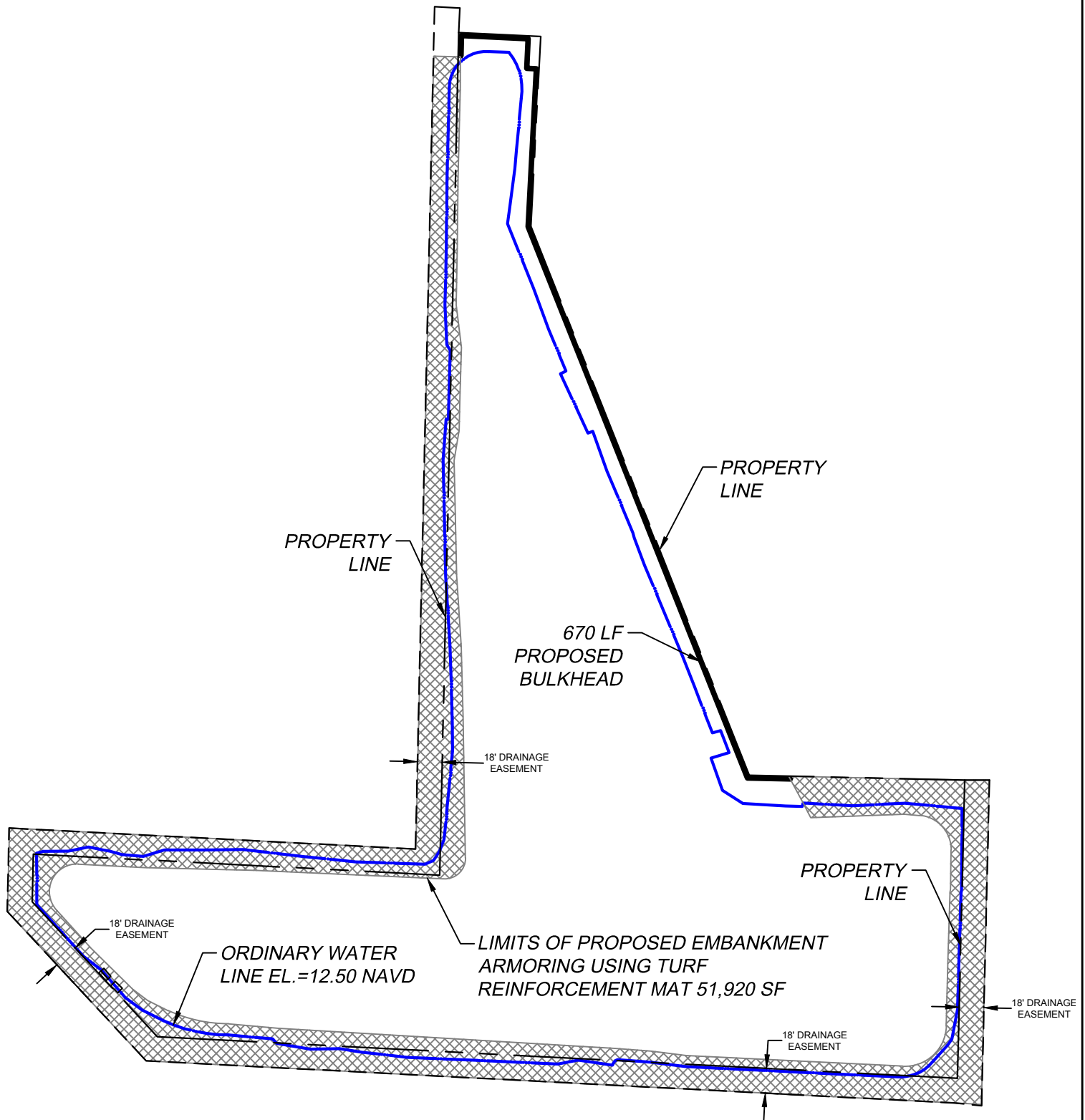
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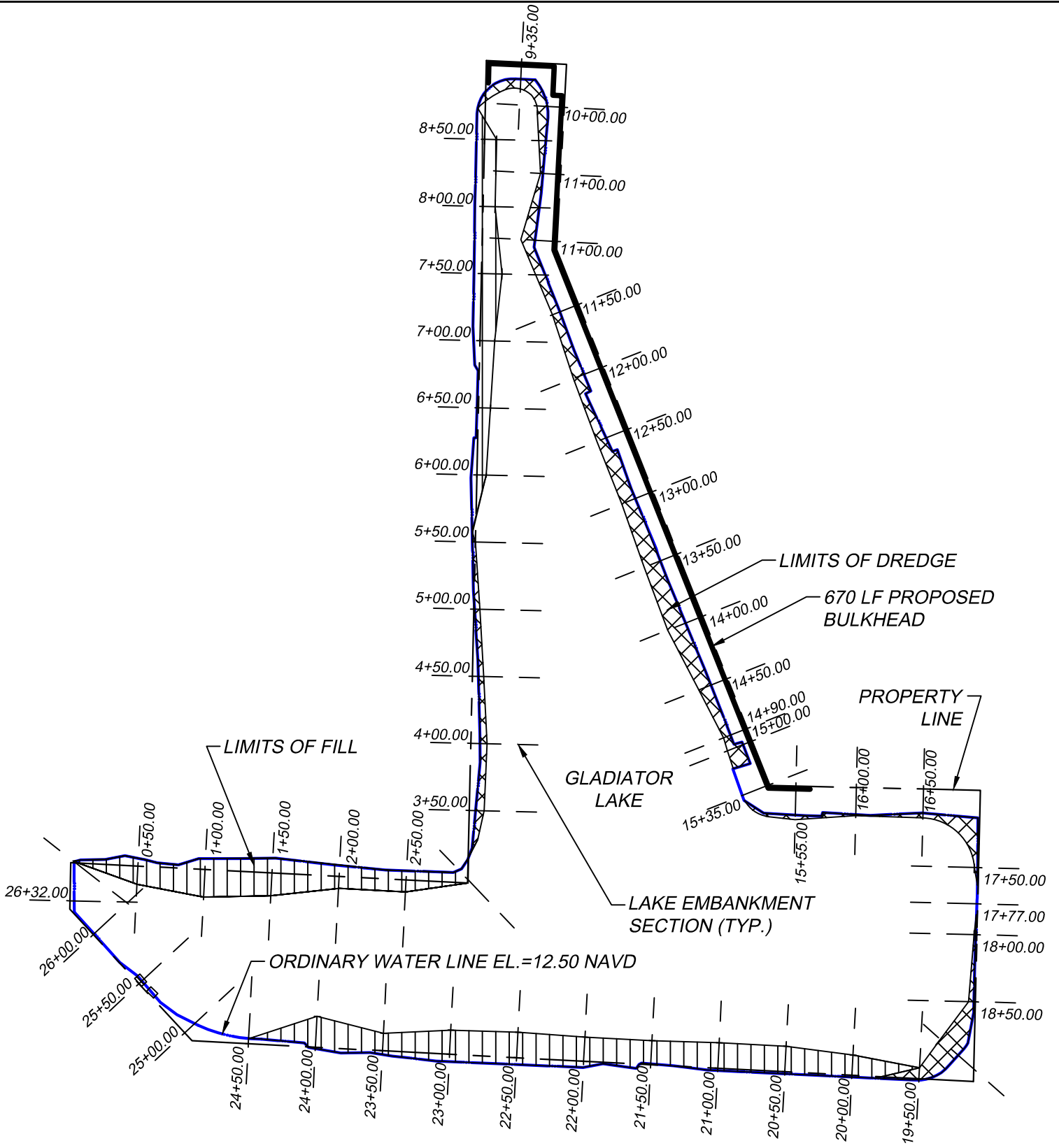
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PREPARED FOR:	EMBankment ARMORING CITY OF GREENACRES	PROJECT NO. 17-0052
	GLADIATOR LAKE DRAINAGE ENHANCEMENTS	C-3 SHEET OF

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EXISTING LAKE WATER SURFACE AREA= 167,105 SF = 3.84 ACRES
 PROPOSED LAKE WATER SURFACE AREA= 175,575 SF = 4.03 ACRES
 ORDINARY WATER LINE/CONTROL EL.= 12.50 NAVD
 LENGTH OF EMBANKMENT WORK= 2,616 FT
 TOTAL DREDGE VOLUME FOR WORK= 2,152 CY
 TOTAL FILL VOLUME FOR WORK= 2,384 CY

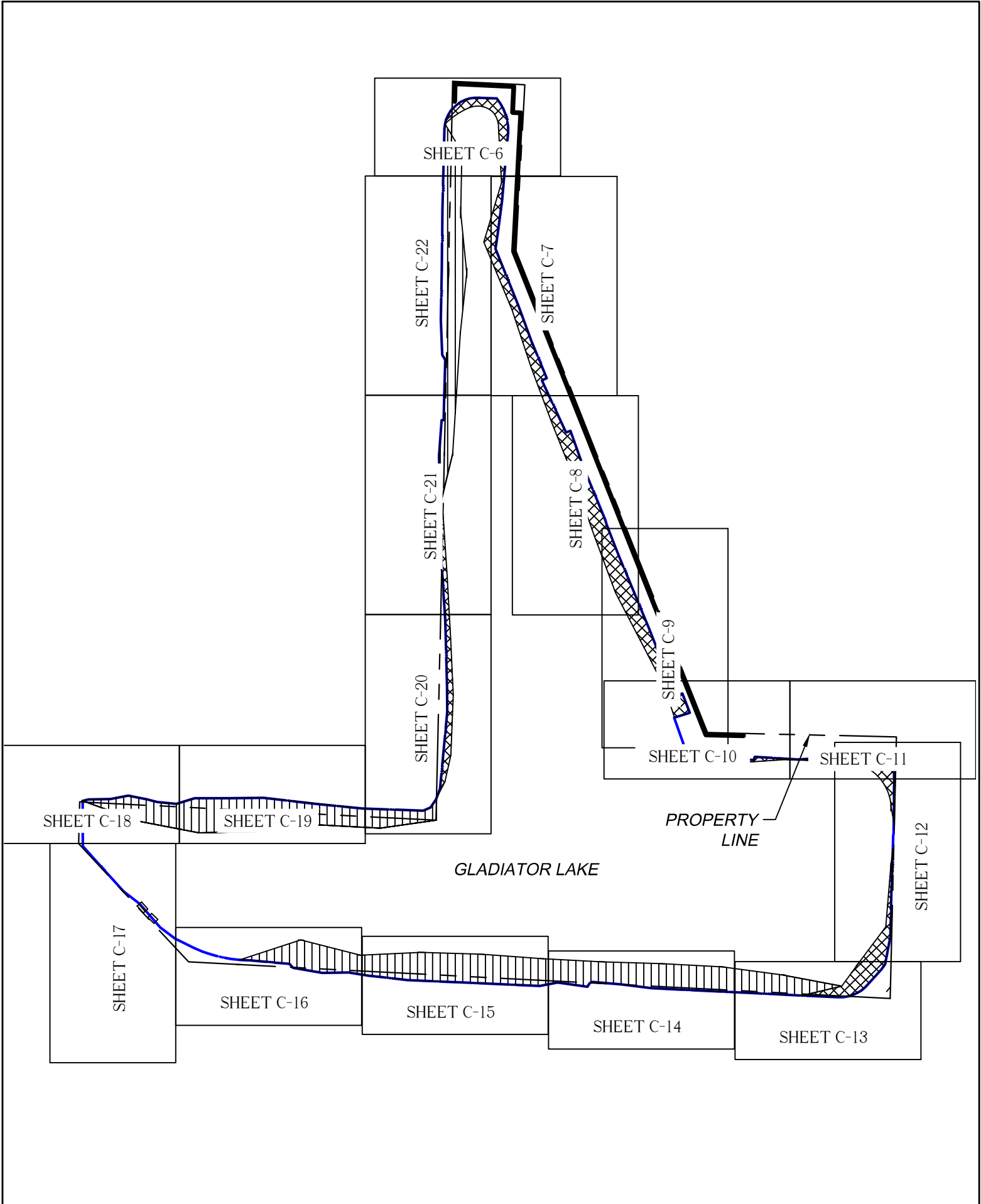
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APPROVED BY:	
DESCRIPTION:	
BY:	
DATE:	

MASTER GRADING & DRAINAGE PLAN
 PREPARED FOR: CITY OF GREENACRES
 PROJECT NO. 17-0052
GLADIATOR LAKE
DRAINAGE ENHANCEMENTS
 C-4
 SHEET OF

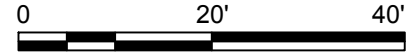
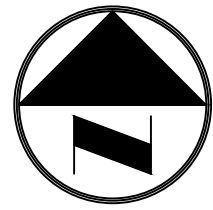
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



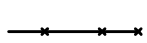

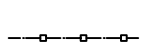



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	SCALE:	17-0052
DESIGN BY:	PREPARED FOR:	CITY OF GREENACRES
DRAWN BY:	<p>GLADIATOR LAKE DRAINAGE ENHANCEMENTS</p>	
CHECKED BY:		
APPROVED BY:	C-5	OF
DESCRIPTION:	BY:	DATE:

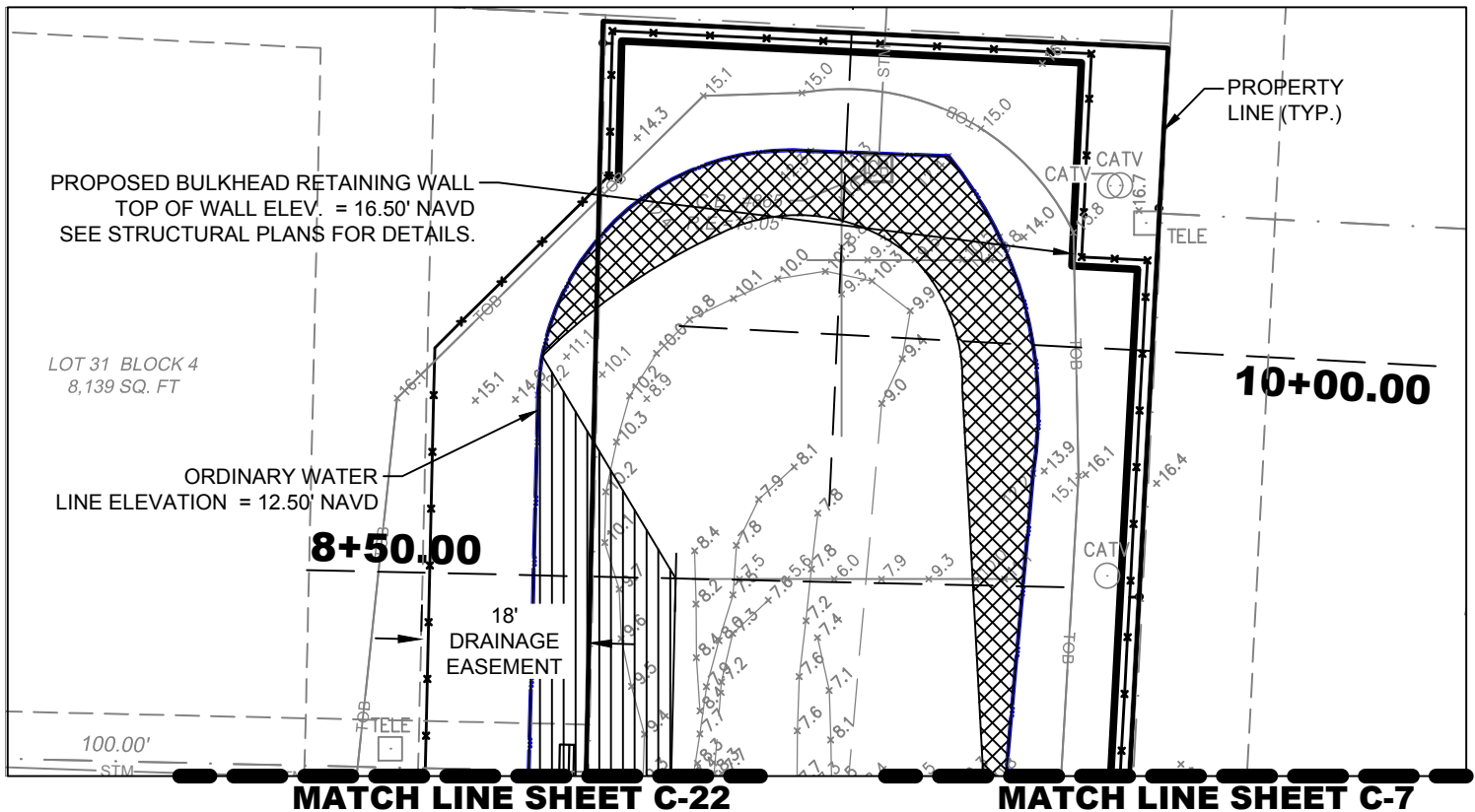
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GRADING AND DRAINAGE LEGEND:

-  EXISTING SPOT GRADE
-  EXISTING DRAINAGE STRUCTURE
-  LIMITS OF DREDGE
-  LIMITS OF FILL
-  PROPOSED CHAIN LINK FENCE
-  PROPOSED ALUMINUM FENCE
-  PROPOSED WOOD FENCE
-  PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988



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DESCRIPTION:	BY: DATE

GRADING AND DRAINAGE PLAN
PREPARED FOR: CITY OF GREENACRES

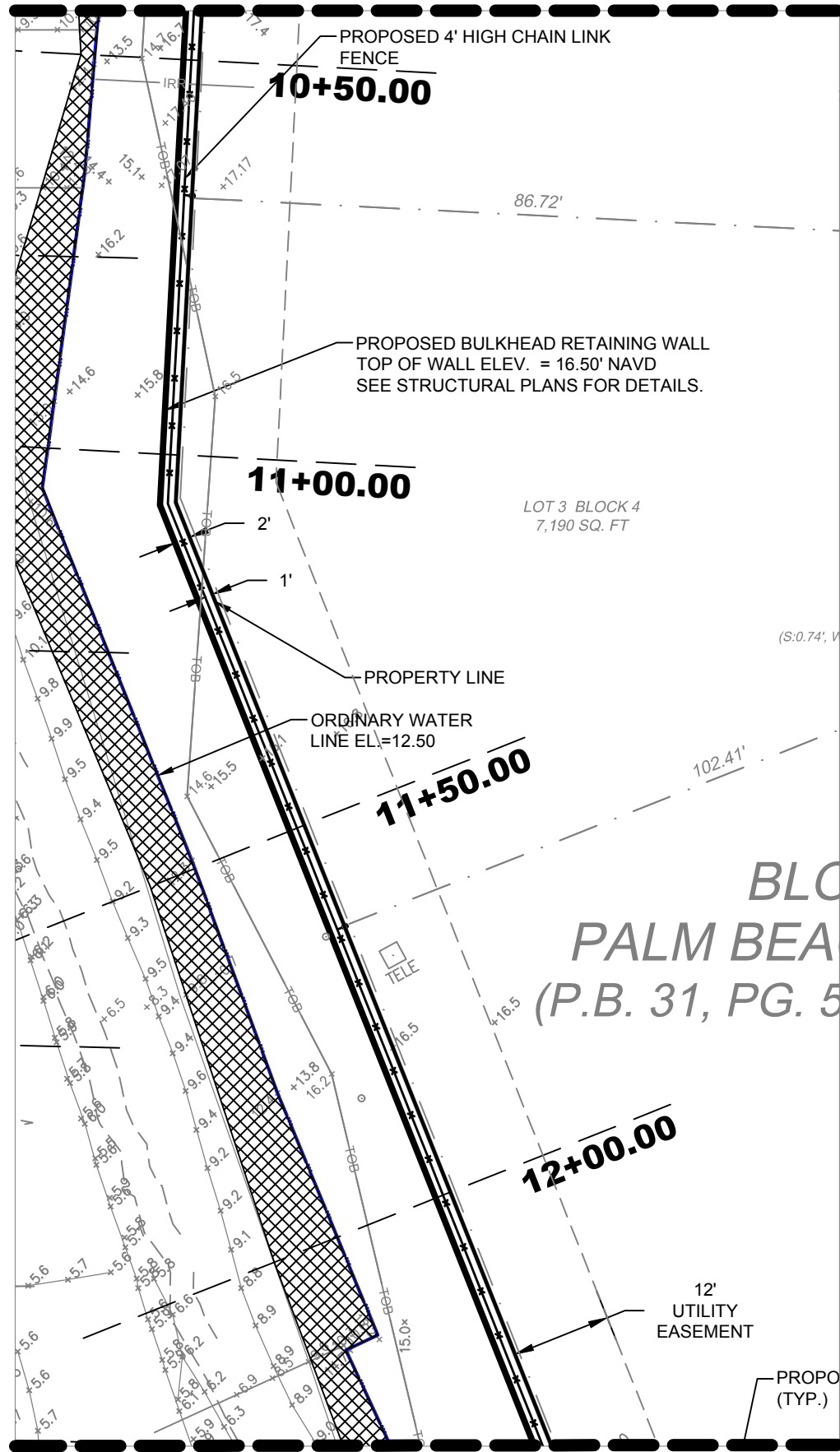
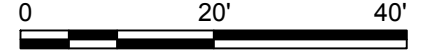
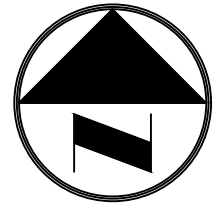
PROJECT NO. 17-0052

GLADIATOR LAKE
DRAINAGE ENHANCEMENTS

C-6
SHEET OF

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MATCH LINE SHEET C-6



GRADING AND DRAINAGE LEGEND:

- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988

MATCH LINE SHEET C-8

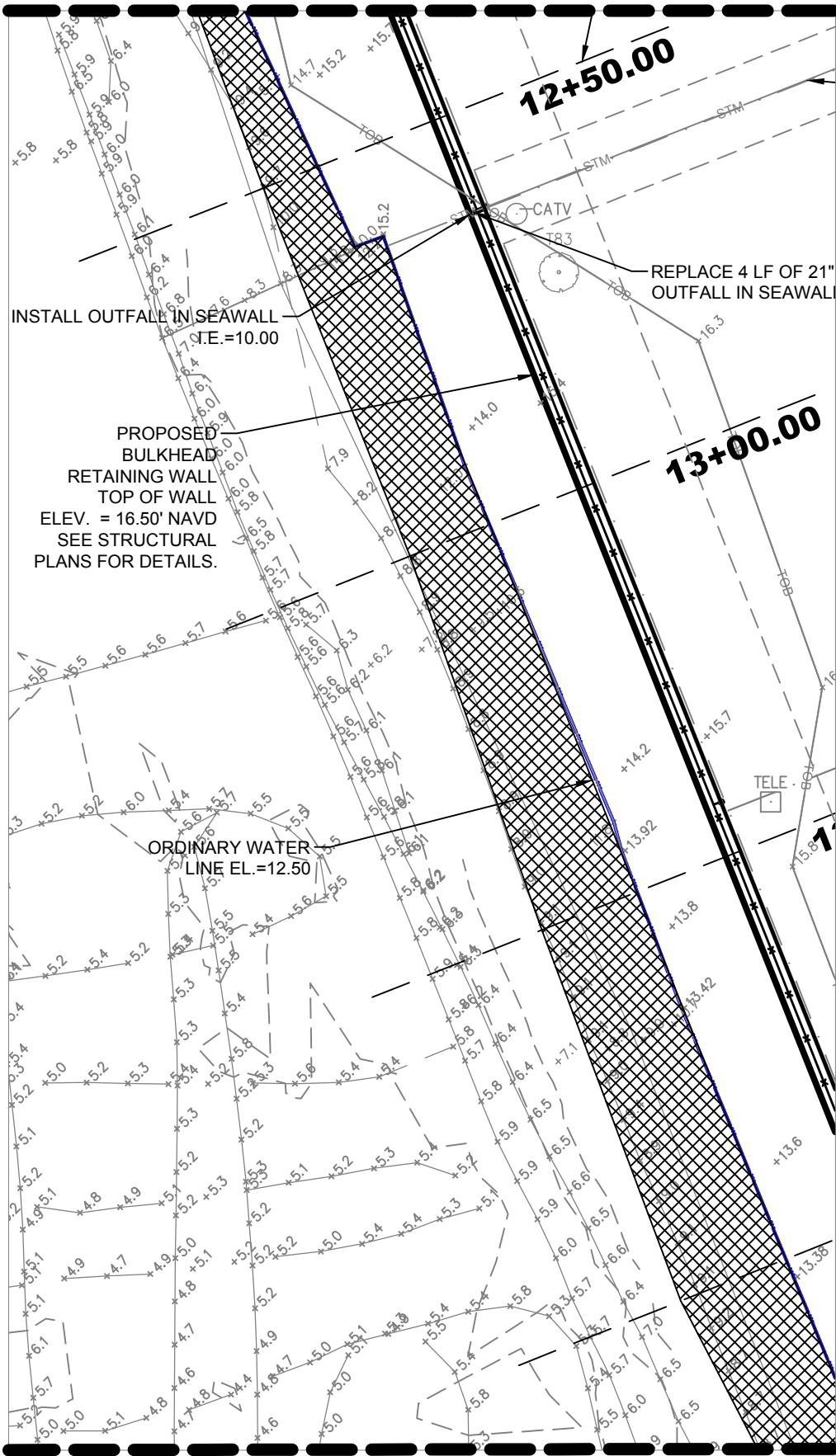
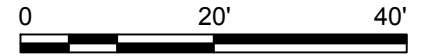
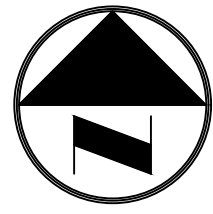
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BY:	
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GRADING AND DRAINAGE PLAN		PROJECT NO.
PREPARED FOR: CITY OF GREENACRES		17-0052
GLADIATOR LAKE DRAINAGE ENHANCEMENTS		C-7
		SHEET OF

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MATCH LINE SHEET C-7



INSTALL OUTFALL IN SEAWALL
O.T.E. = 10.00

PROPOSED BULKHEAD RETAINING WALL
TOP OF WALL ELEV. = 16.50' NAVD
SEE STRUCTURAL PLANS FOR DETAILS.

ORDINARY WATER LINE EL. = 12.50

REPLACE 4 LF OF 21" OUTFALL IN SEAWALL

GRADING AND DRAINAGE LEGEND:

- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN REFERENCE N.A.V.D. 1988

MATCH LINE SHEET C-9

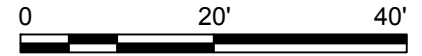
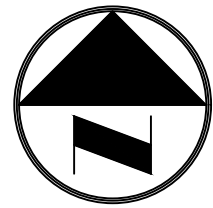
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DATE:	

GRADING AND DRAINAGE PLAN	PROJECT NO.
PREPARED FOR: CITY OF GREENACRES	17-0052
GLADIATOR LAKE DRAINAGE ENHANCEMENTS	C-8
	SHEET OF

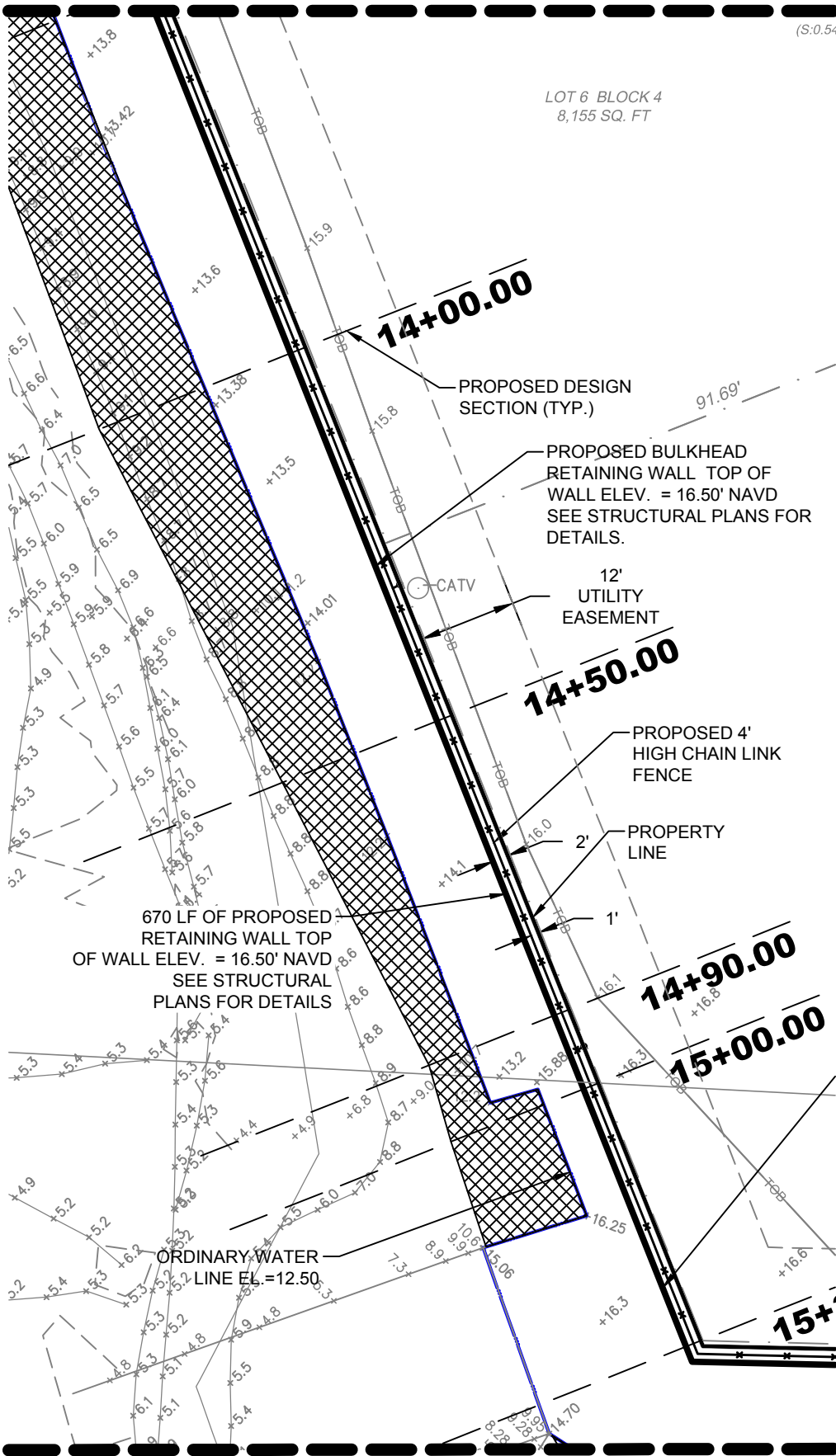
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MATCH LINE SHEET C-8



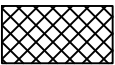
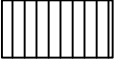
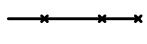
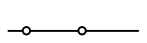
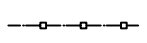



LOT 6 BLOCK 4
8,155 SQ. FT

(S.O.54)



GRADING AND DRAINAGE LEGEND:

-  EXISTING SPOT GRADE
-  EXISTING DRAINAGE STRUCTURE
-  LIMITS OF DREDGE
-  LIMITS OF FILL
-  PROPOSED CHAIN LINK FENCE
-  PROPOSED ALUMINUM FENCE
-  PROPOSED WOOD FENCE
-  PROPOSED LAKE EMBANKMENT SECTION

14+00.00

14+50.00

14+90.00

15+00.00

10+00.00

670 LF OF PROPOSED
RETAINING WALL TOP
OF WALL ELEV. = 16.50' NAVD
SEE STRUCTURAL
PLANS FOR DETAILS

ORDINARY WATER
LINE EL. = 12.50

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988

MATCH LINE SHEET C-10

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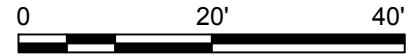
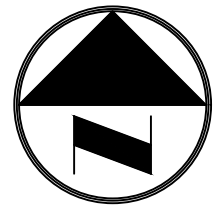
GRADING AND DRAINAGE PLAN
PREPARED FOR: CITY OF GREENACRES

PROJECT NO. 17-0052

GLADIATOR LAKE
DRAINAGE ENHANCEMENTS

C-9
SHEET OF

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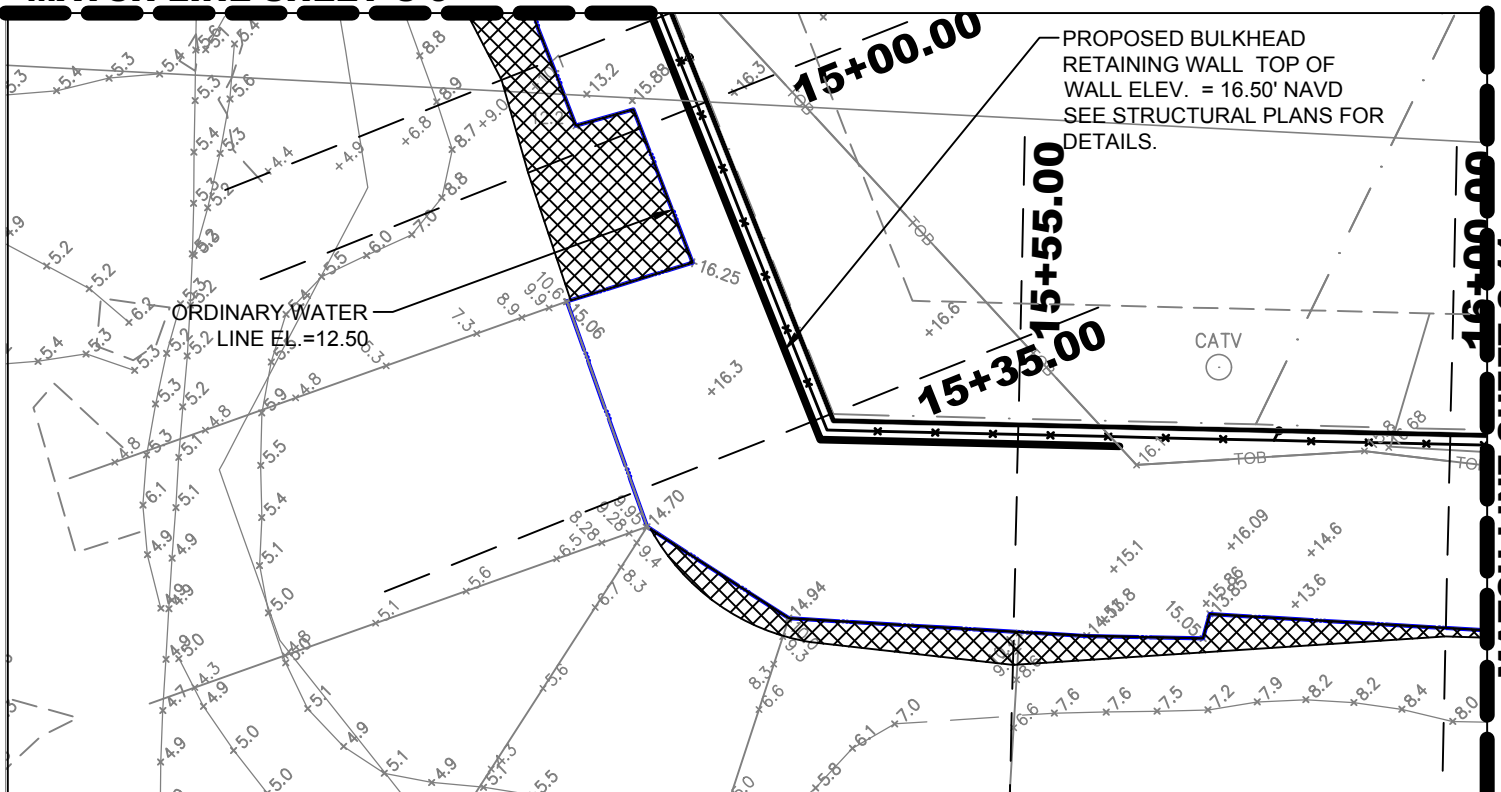


GRADING AND DRAINAGE LEGEND:

- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988

MATCH LINE SHEET C-9



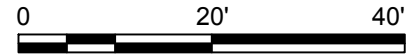
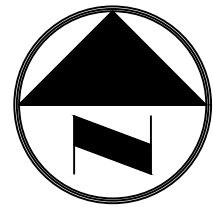
MATCH LINE SHEET C-11

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APPROVED BY:	
DESCRIPTION:	BY: DATE

GRADING AND DRAINAGE PLAN		PROJECT NO.
PREPARED FOR: CITY OF GREENACRES		17-0052
GLADIATOR LAKE DRAINAGE ENHANCEMENTS		C-10
		SHEET OF

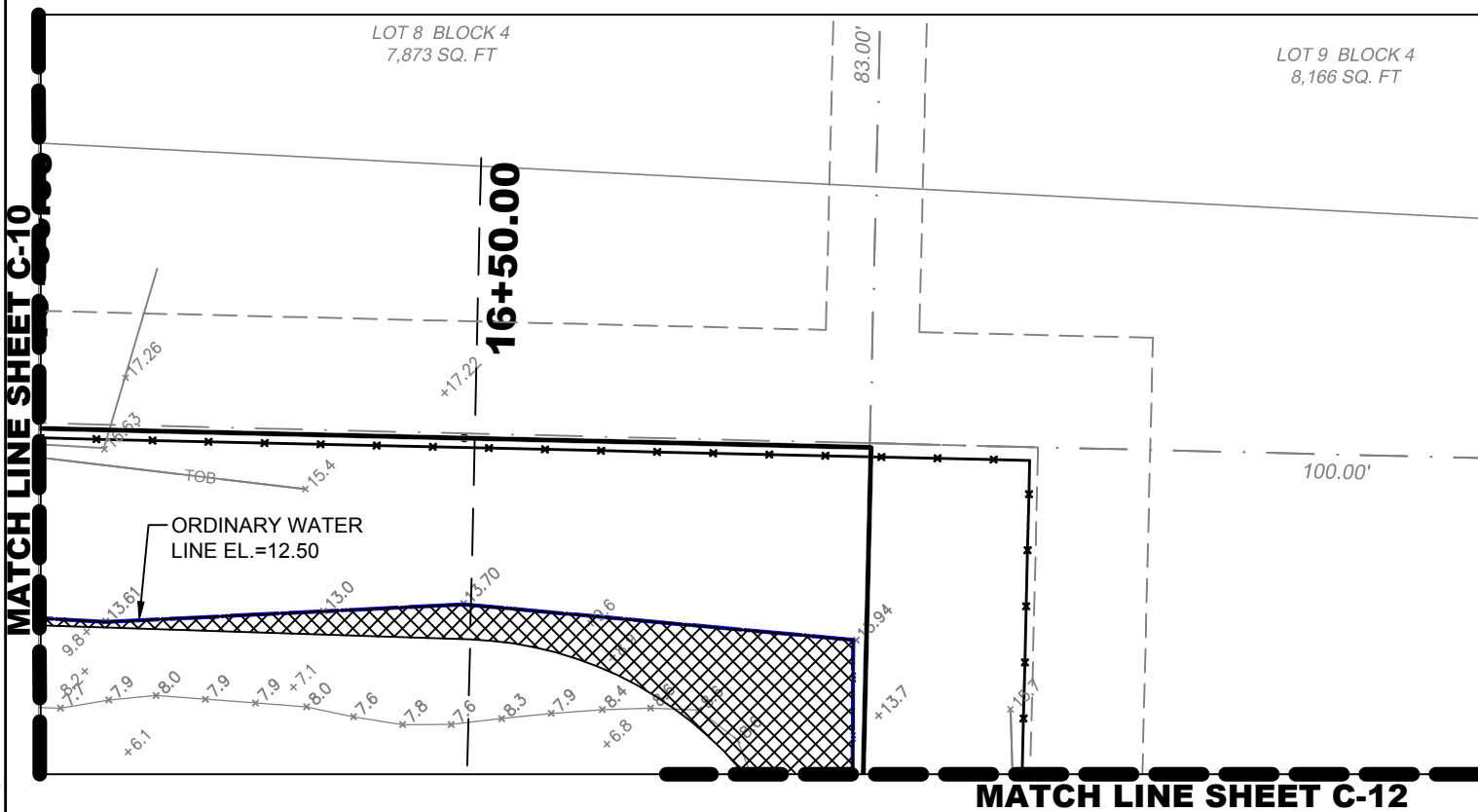
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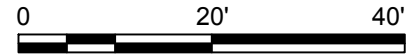
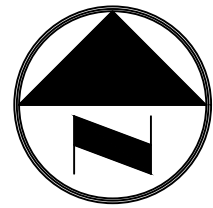
- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988



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	GLADIATOR LAKE DRAINAGE ENHANCEMENTS			C-11 SHEET OF



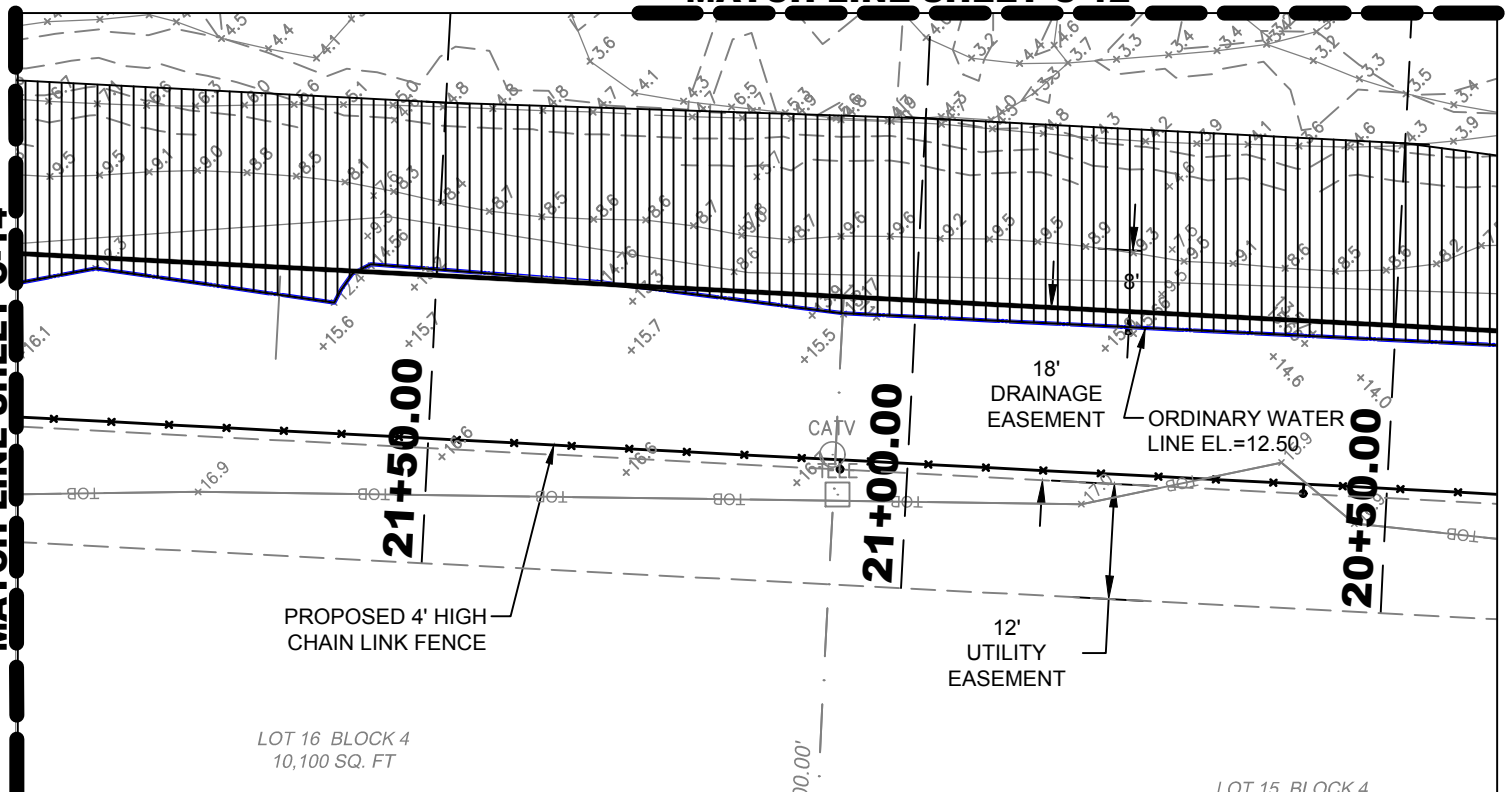
GRADING AND DRAINAGE LEGEND:

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- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
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- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988

MATCH LINE SHEET C-12

MATCH LINE SHEET C-14

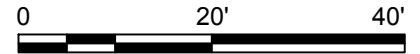
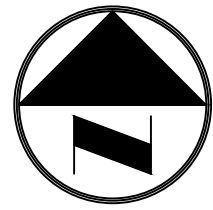


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GRADING AND DRAINAGE PLAN
 PREPARED FOR: CITY OF GREENACRES
 PROJECT NO. 17-0052
GLADIATOR LAKE
DRAINAGE ENHANCEMENTS
 SHEET C-13 OF

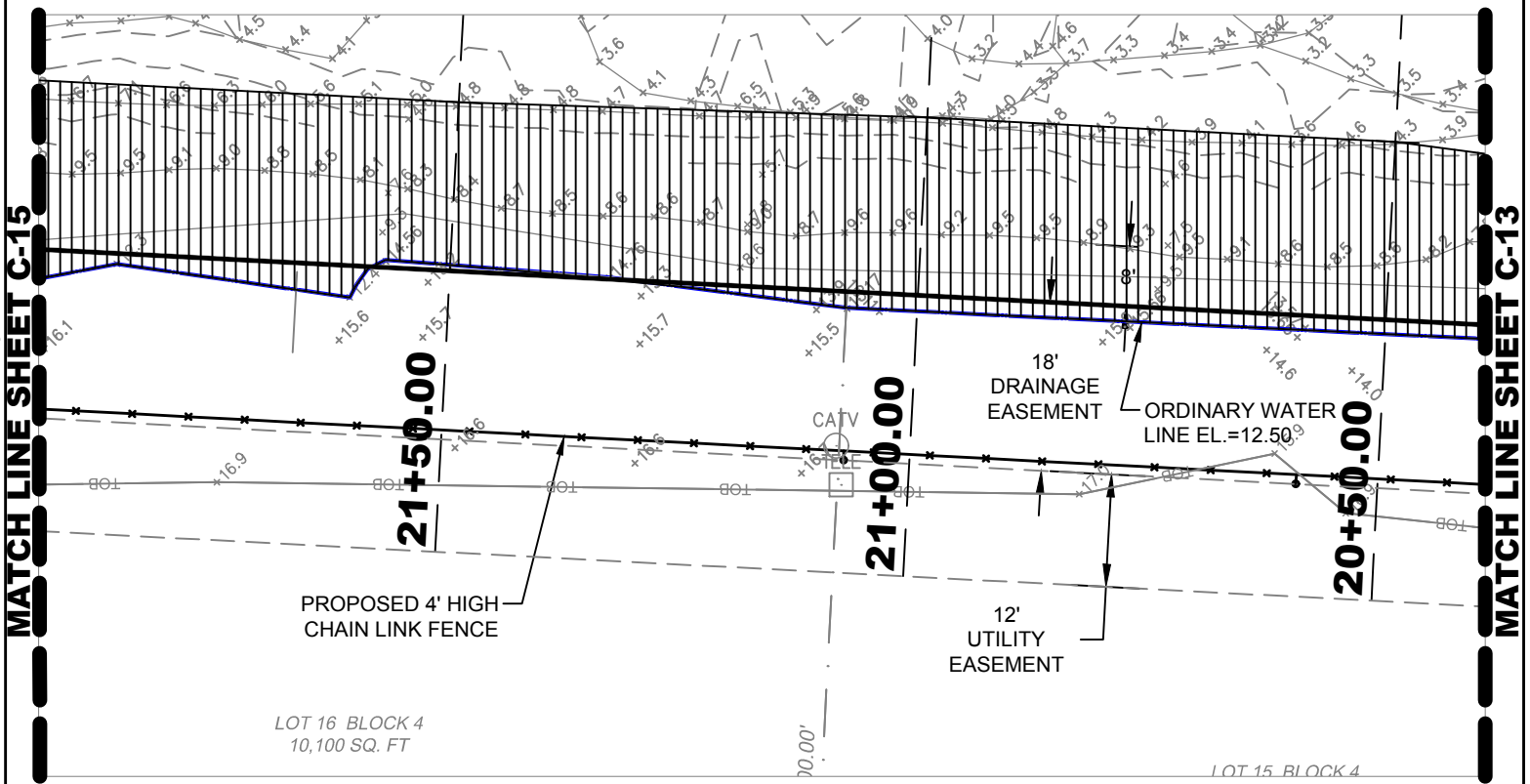
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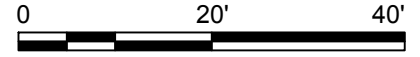
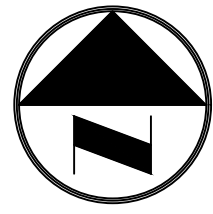
- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
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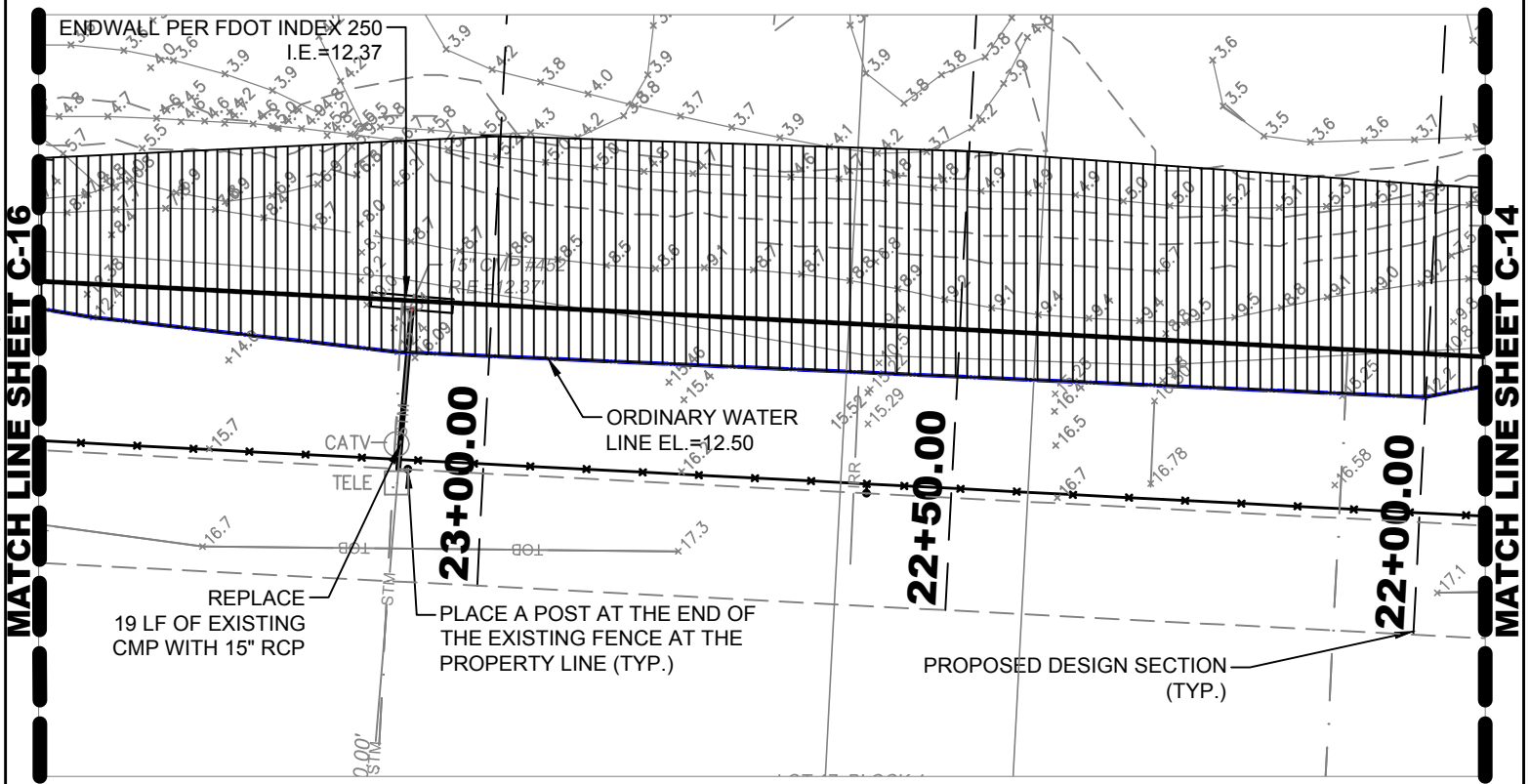
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	DATE: _____	SCALE: _____	DESIGN BY: _____	DRAWN BY: _____	CHECKED BY: _____	APPROVED BY: _____	PROJECT NO. 17-0052
GRADING AND DRAINAGE PLAN PREPARED FOR: CITY OF GREENACRES						GLADIATOR LAKE DRAINAGE ENHANCEMENTS	
						C-14	SHEET OF



GRADING AND DRAINAGE LEGEND:

- $\times 15.50$ EXISTING SPOT GRADE
- CB** EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- 10+00.00** PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988

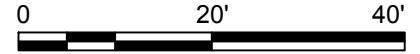
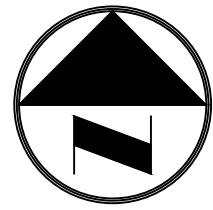


MATCH LINE SHEET C-16

MATCH LINE SHEET C-14

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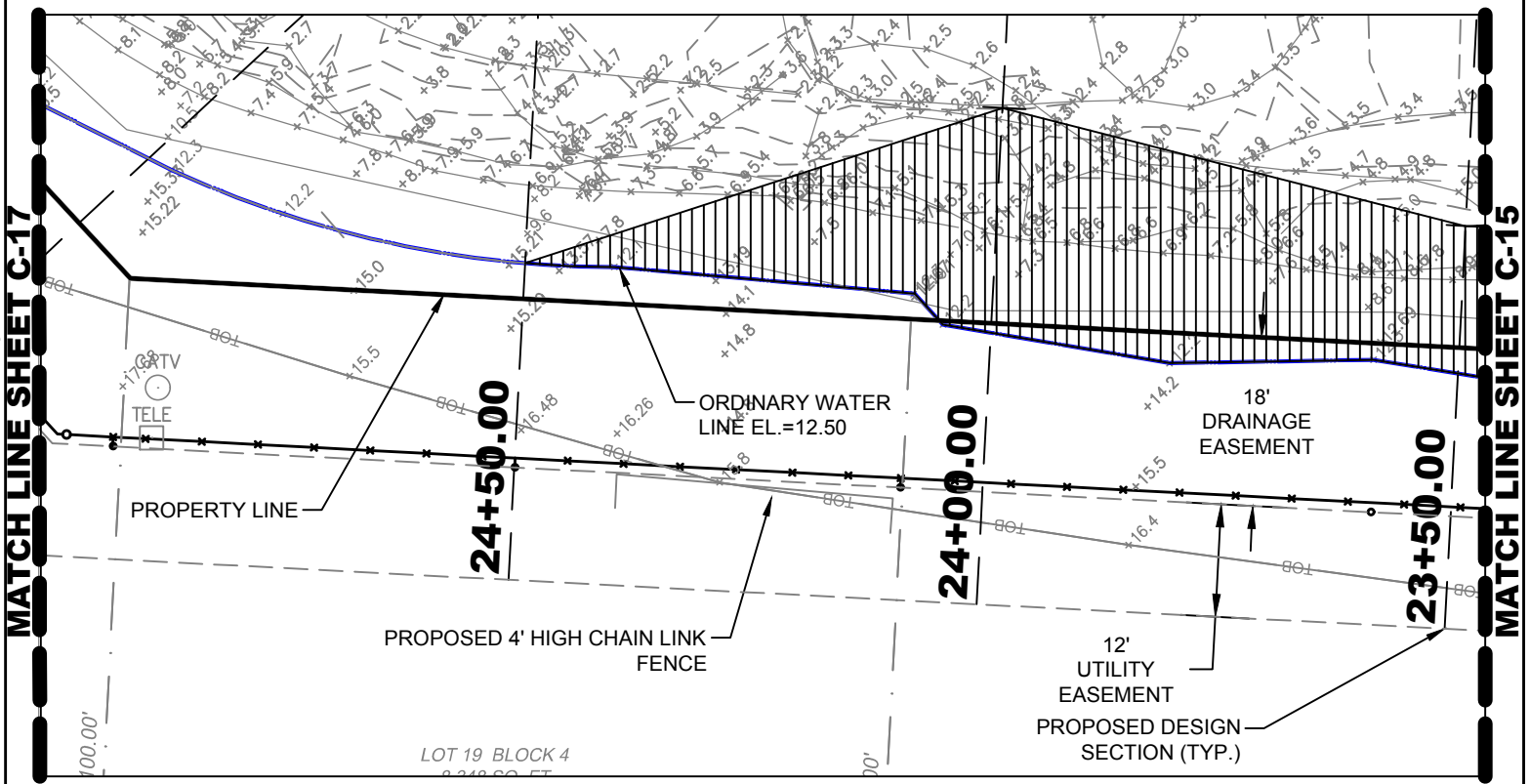
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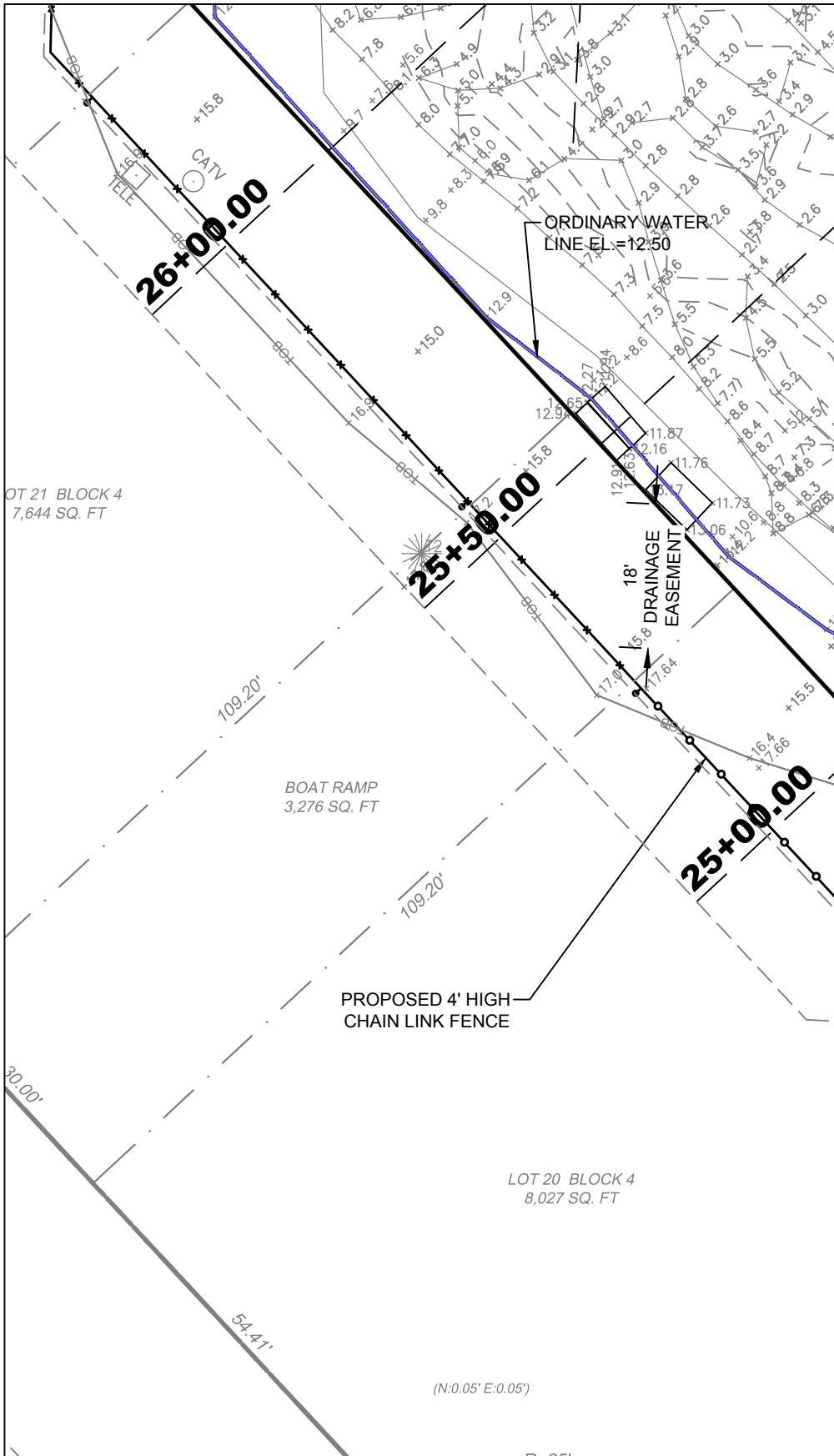
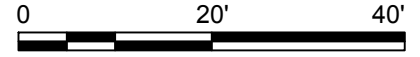
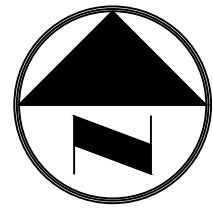
- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988



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	LOT 19 BLOCK 4 2348 SO. ST.		GLADIATOR LAKE DRAINAGE ENHANCEMENTS	C-16 SHEET OF

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GRADING AND DRAINAGE LEGEND:

- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

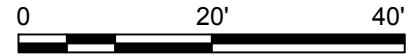
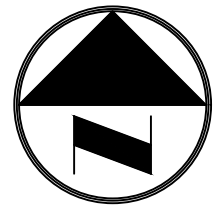
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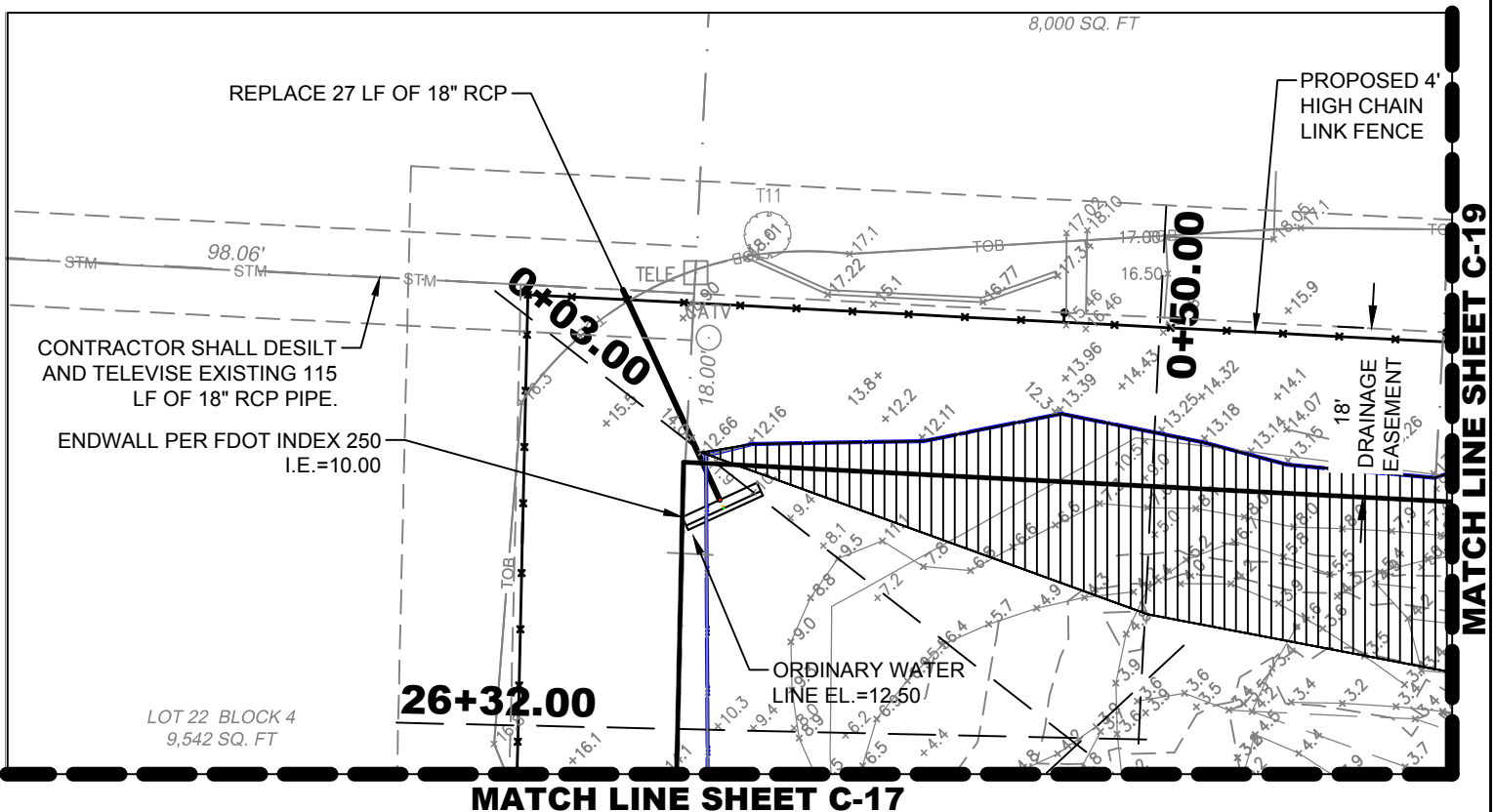
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PREPARED FOR: CITY OF GREENACRES		17-0052
GLADIATOR LAKE DRAINAGE ENHANCEMENTS		C-17
		SHEET OF



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- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

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REFERENCE N.A.V.D. 1988

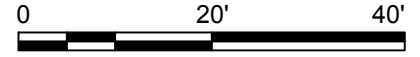
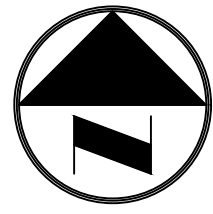


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GLADIATOR LAKE DRAINAGE ENHANCEMENTS		C-18
		SHEET OF

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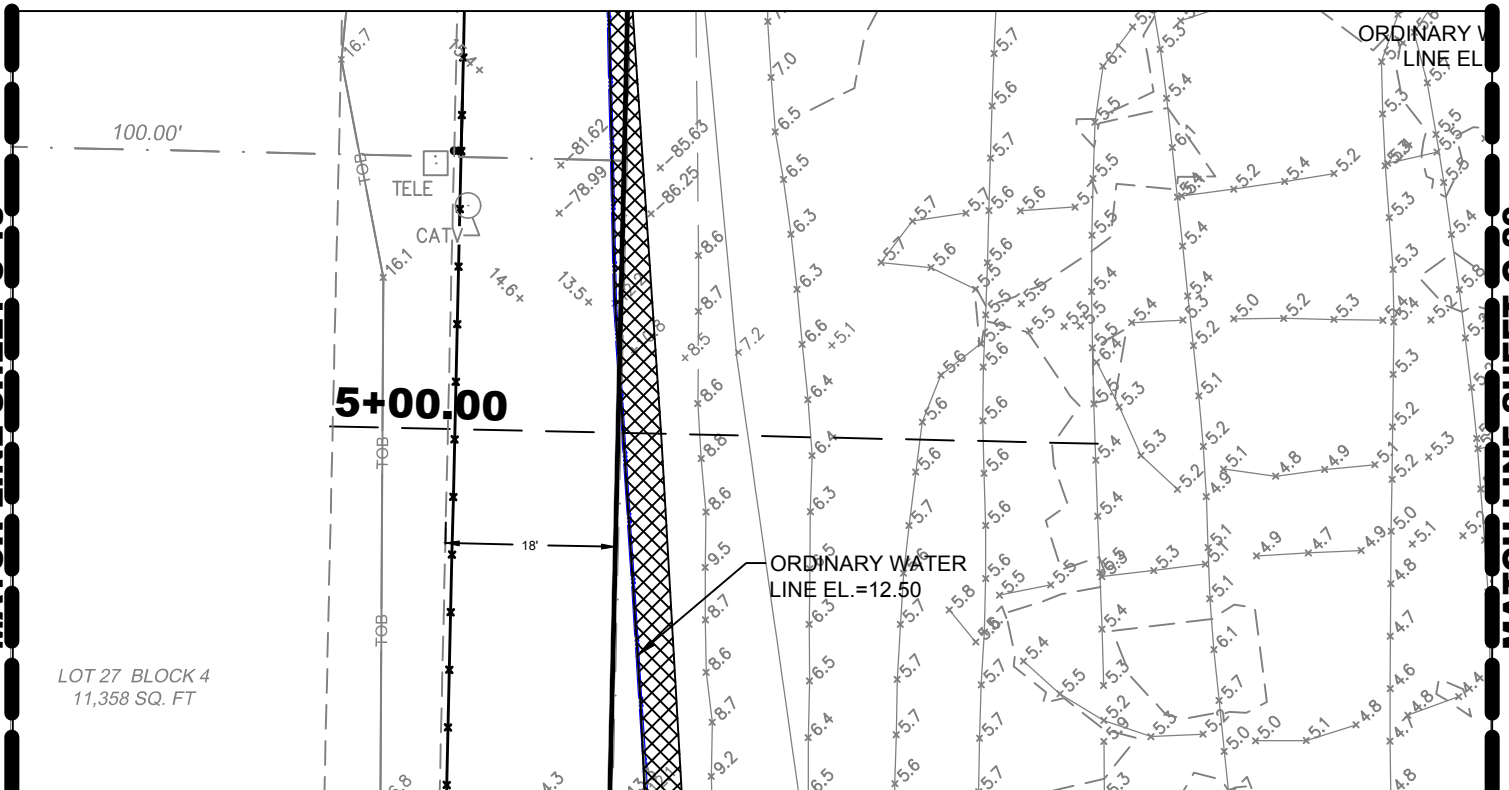
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- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

ALL ELEVATIONS SHOWN
REFERENCE N.A.V.D. 1988

MATCH LINE SHEET C-18

MATCH LINE SHEET C-20



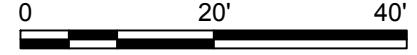
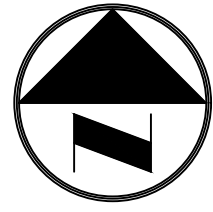
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GRADING AND DRAINAGE PLAN PREPARED FOR: CITY OF GREENACRES
GLADIATOR LAKE DRAINAGE ENHANCEMENTS
C-19 SHEET OF

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MATCH LINE SHEET C-21



PROPOSED DESIGN SECTION
(TYP.)

100.00'

PLACE A POST AT THE END OF
THE EXISTING FENCE AT THE
PROPERTY LINE (TYP.)

6+00.00

18'
DRAINAGE
EASEMENT

LOT 28 BLOCK 4
9,900 SQ. FT

PROPOSED 4' HIGH
CHAIN LINK FENCE

5+50.00

100.00'

TELE
CATV

5+00.00

LOT 27 BLOCK 4
11,358 SQ. FT

ORDINARY WATER
LINE EL. = 12.50

GRADING AND DRAINAGE LEGEND:

- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

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MATCH LINE SHEET C-19

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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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SCALE:	
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BY:	
DATE:	

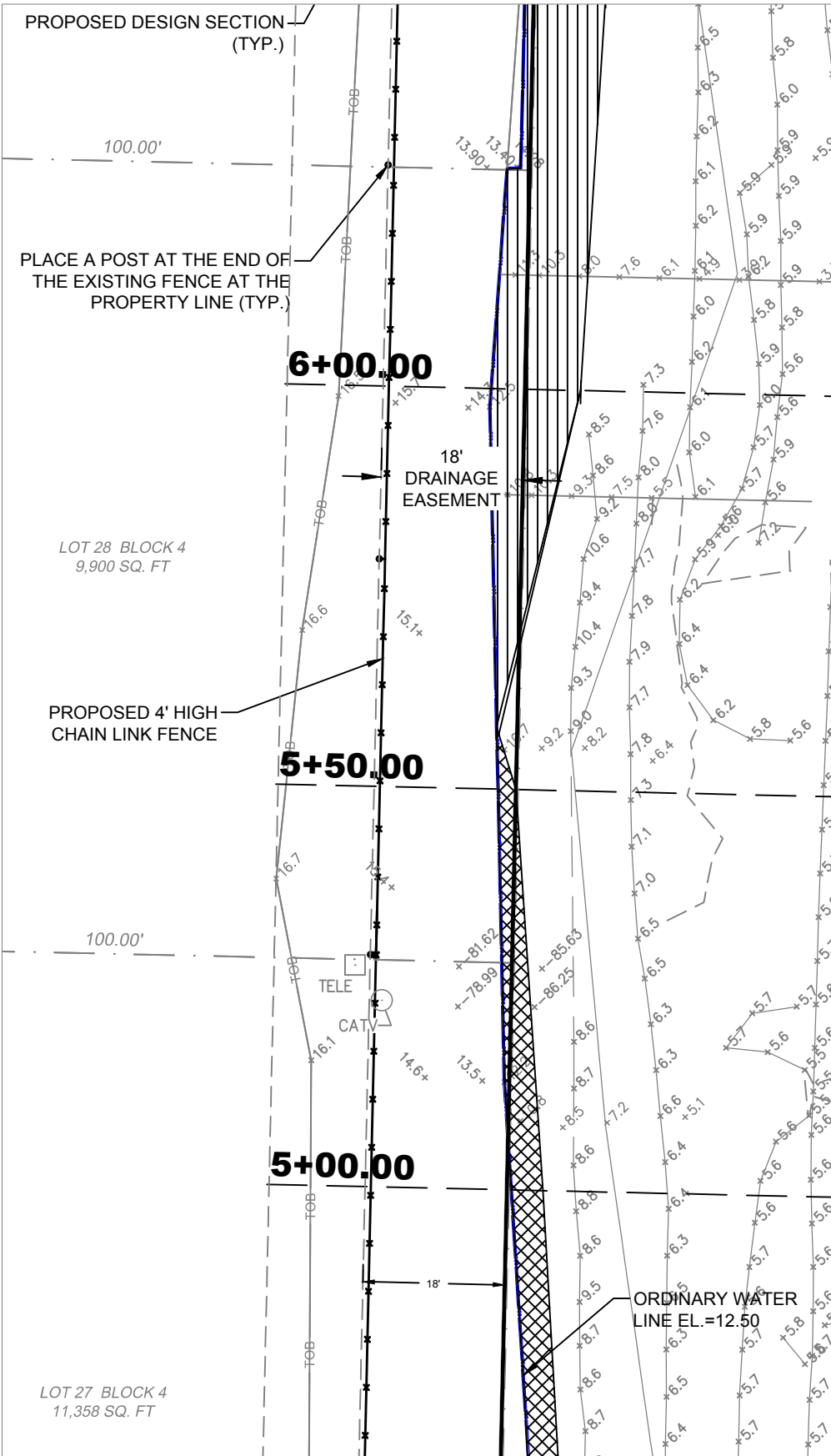
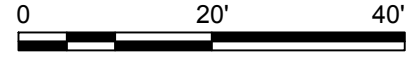
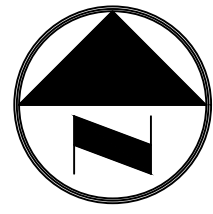
GRADING AND DRAINAGE PLAN
PREPARED FOR: CITY OF GREENACRES

GLADIATOR LAKE
DRAINAGE ENHANCEMENTS

PROJECT NO.
17-0052

C-20
SHEET OF

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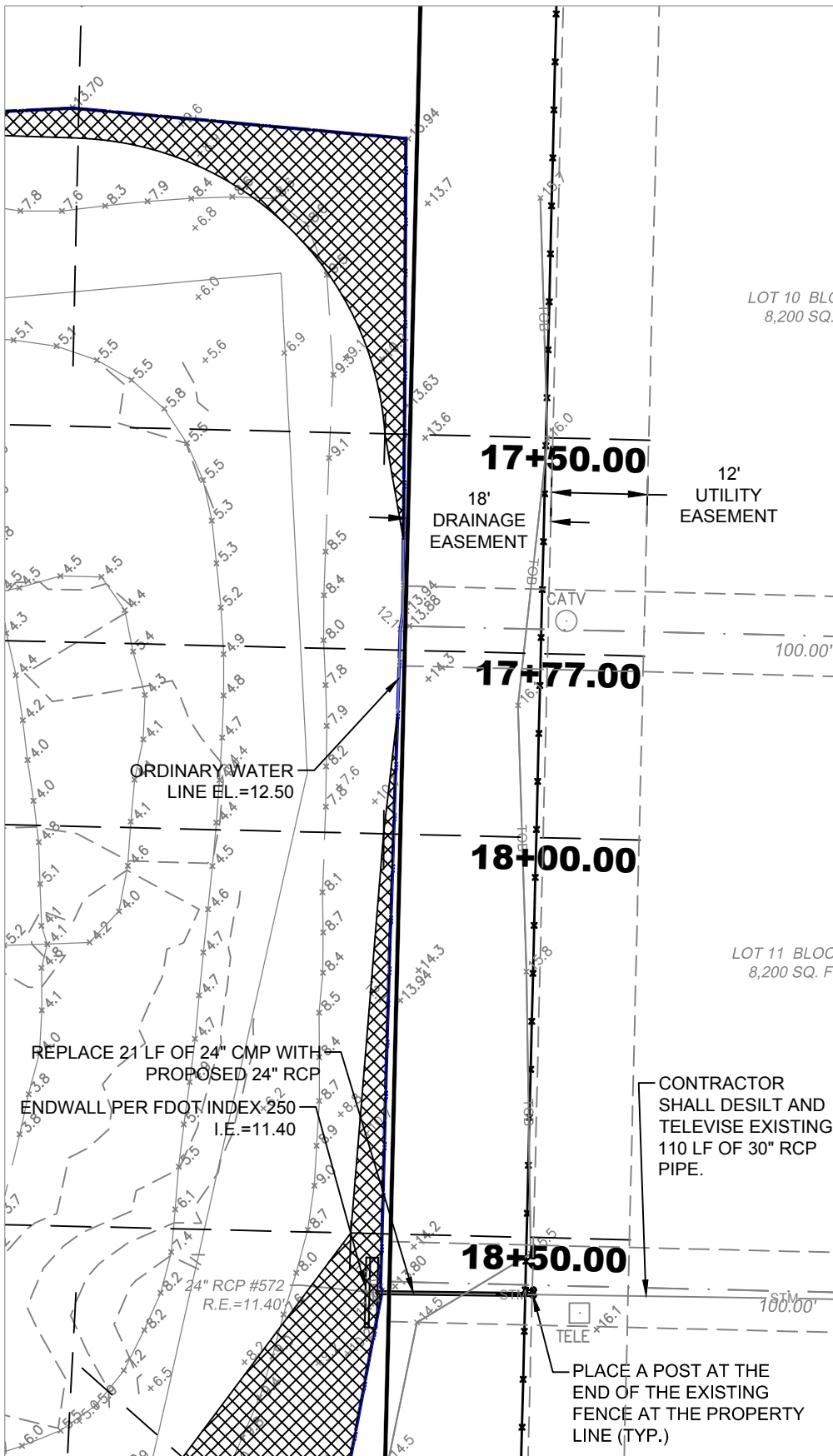
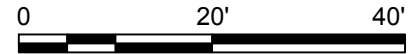
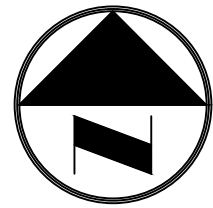
GRADING AND DRAINAGE LEGEND:

- EXISTING SPOT GRADE
- EXISTING DRAINAGE STRUCTURE
- LIMITS OF DREDGE
- LIMITS OF FILL
- PROPOSED CHAIN LINK FENCE
- PROPOSED ALUMINUM FENCE
- PROPOSED WOOD FENCE
- PROPOSED LAKE EMBANKMENT SECTION

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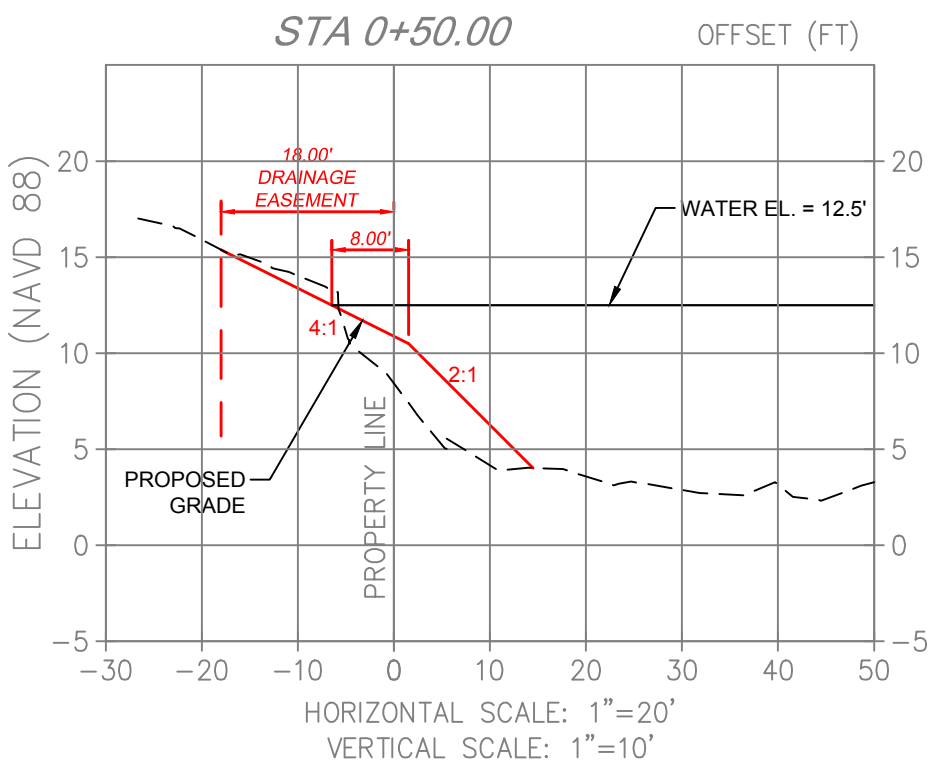
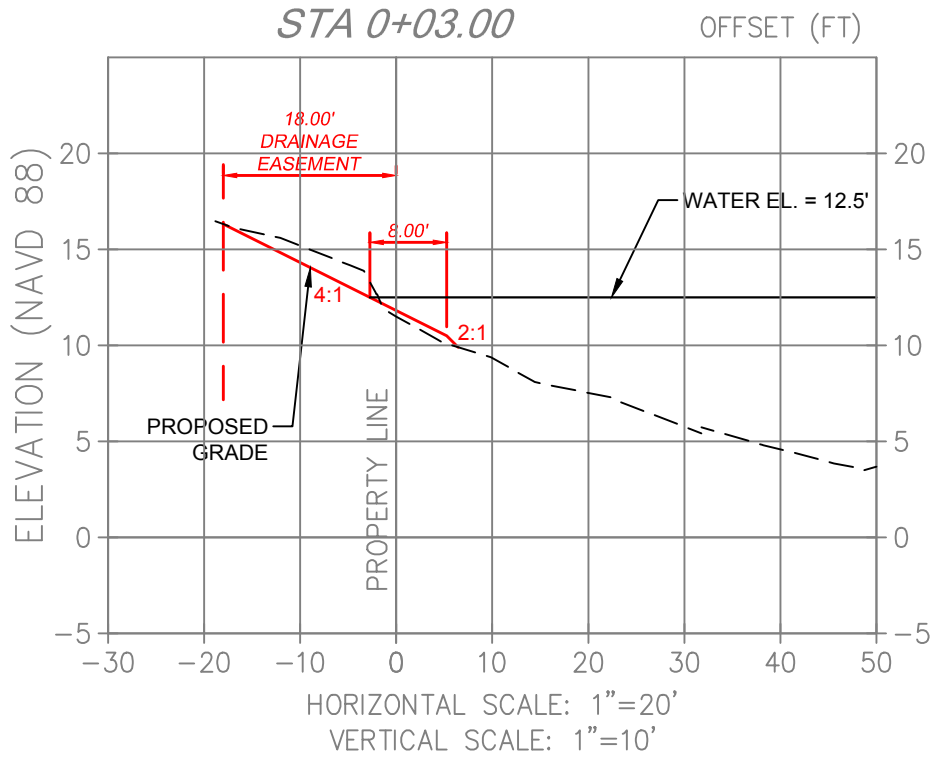
- EXISTING SPOT GRADE
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- LIMITS OF DREDGE
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- PROPOSED CHAIN LINK FENCE
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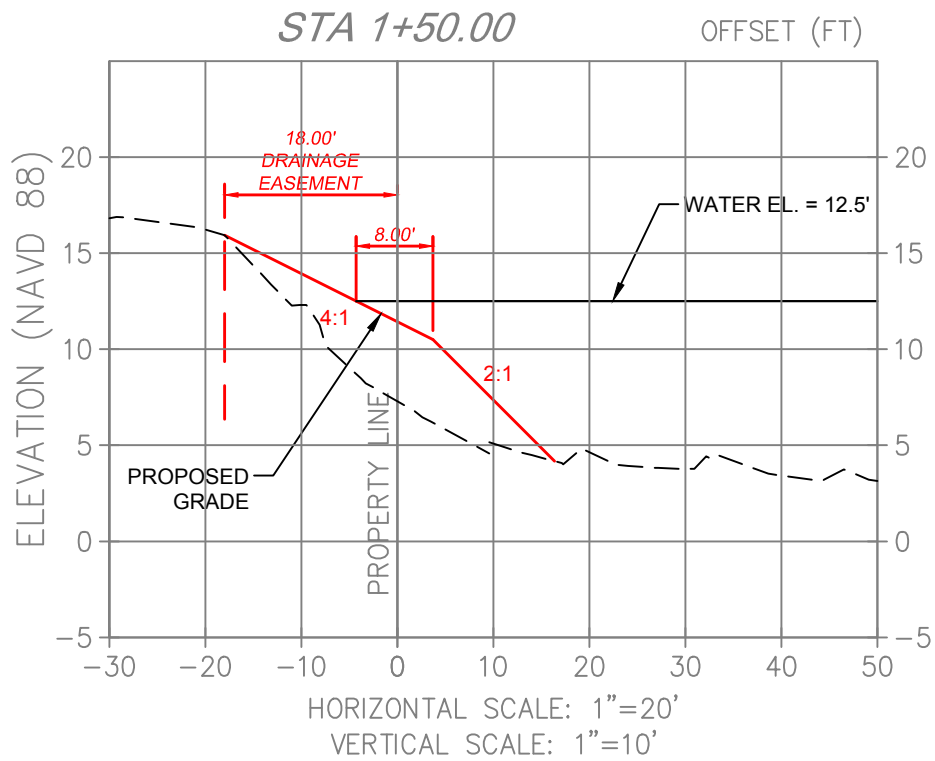
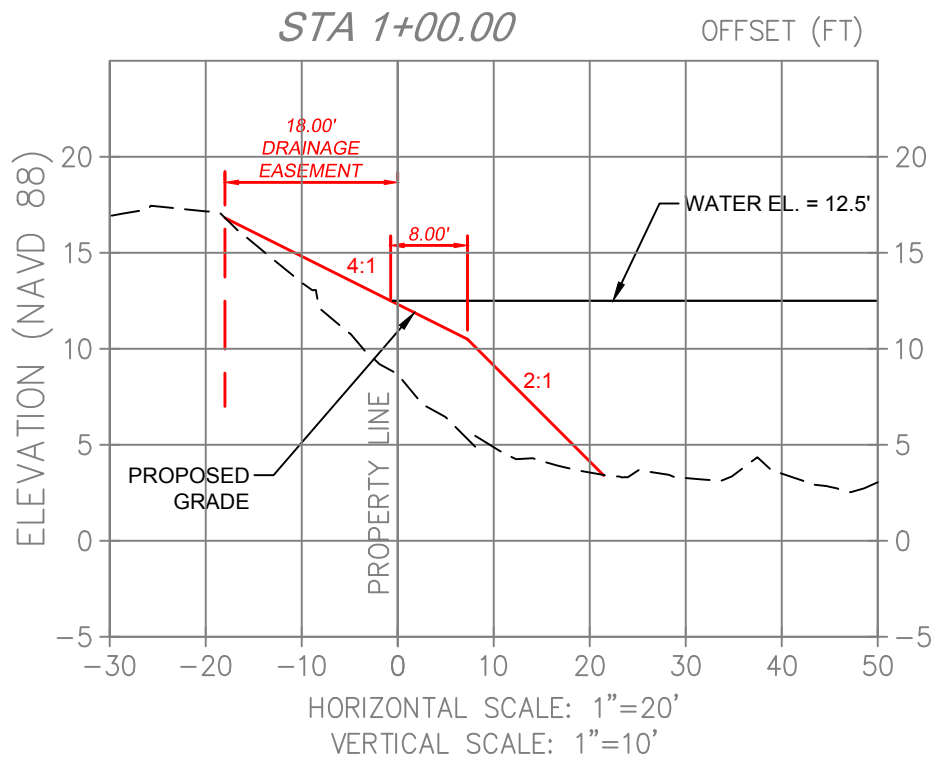
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GRADING AND DRAINAGE SECTIONS		PROJECT NO.
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GLADIATOR LAKE DRAINAGE ENHANCEMENTS		C-23
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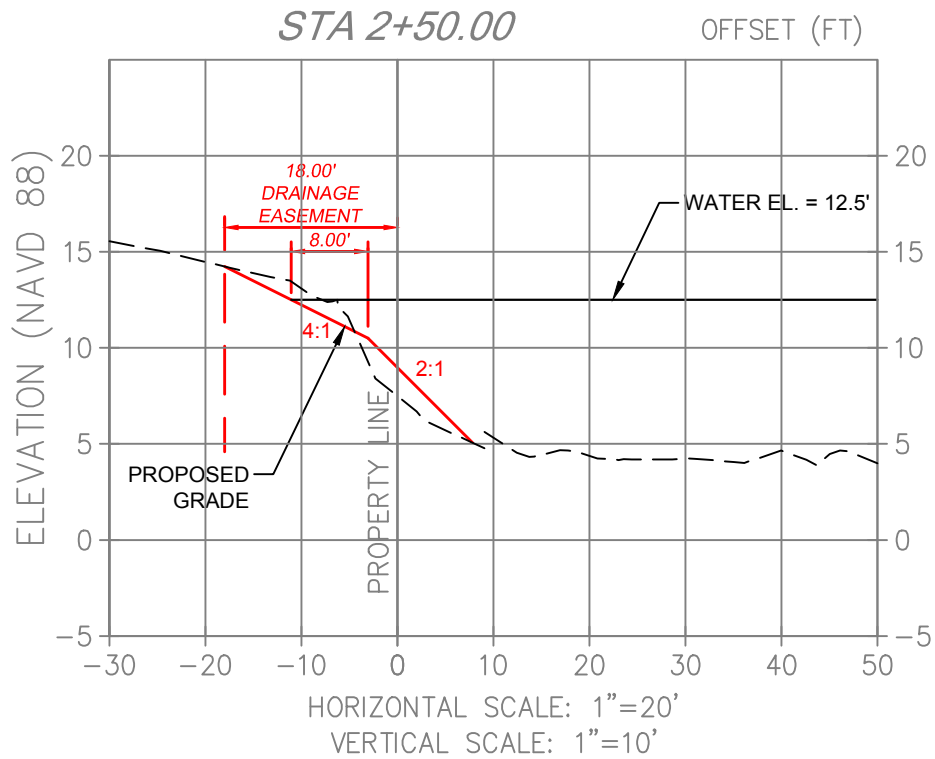
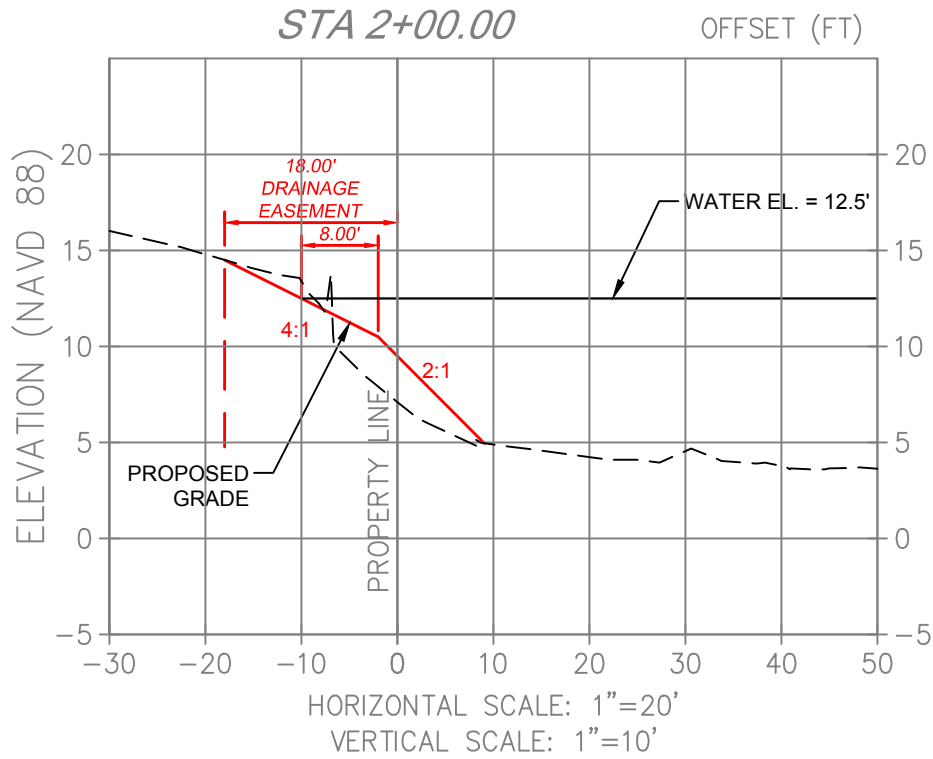
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GRADING AND DRAINAGE SECTIONS
 PREPARED FOR: **CITY OF GREENACRES**
GLADIATOR LAKE
DRAINAGE ENHANCEMENTS

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APPROVED BY:	
DESCRIPTION:	BY: DATE

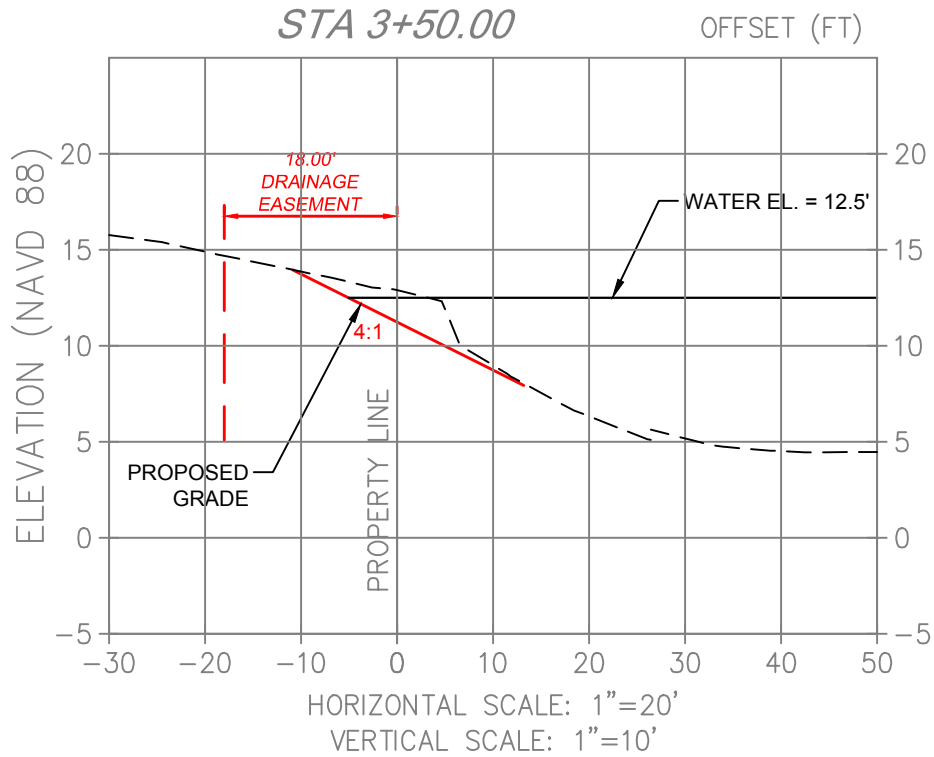
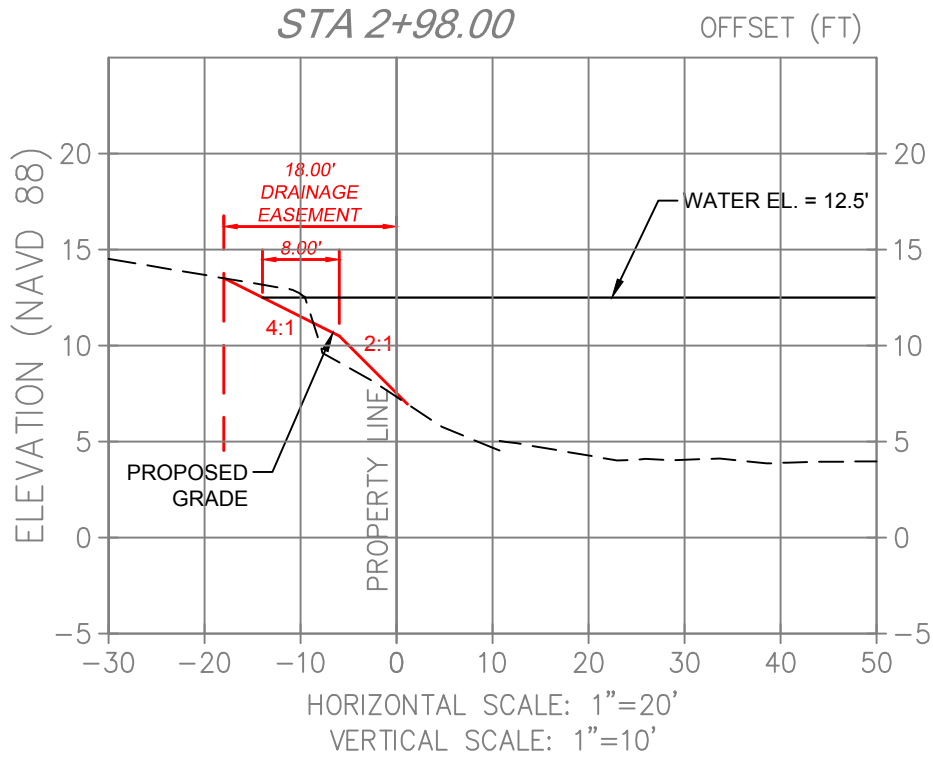
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 PREPARED FOR: **CITY OF GREENACRES**

GLADIATOR LAKE
DRAINAGE ENHANCEMENTS

PROJECT NO.
17-0052

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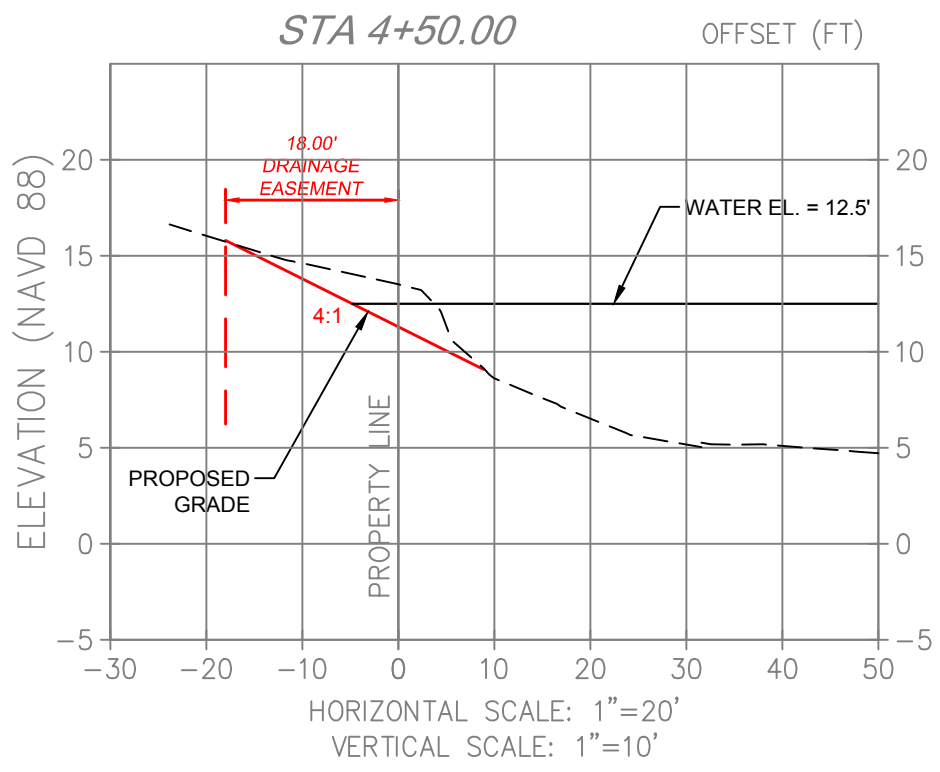
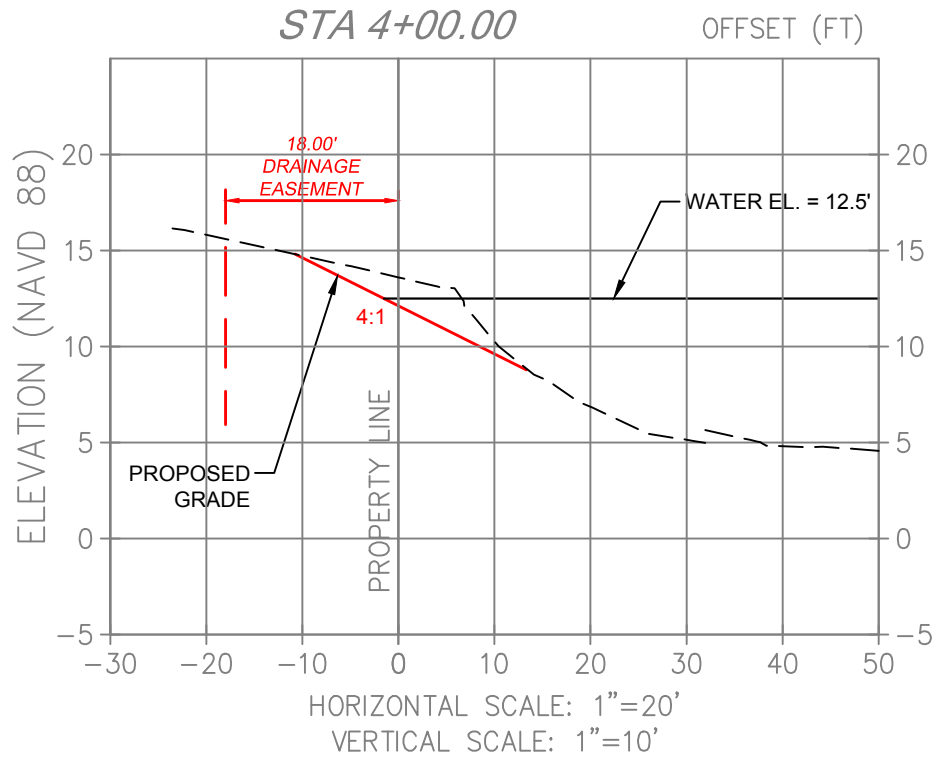
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**GLADIATOR LAKE
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PROJECT NO.
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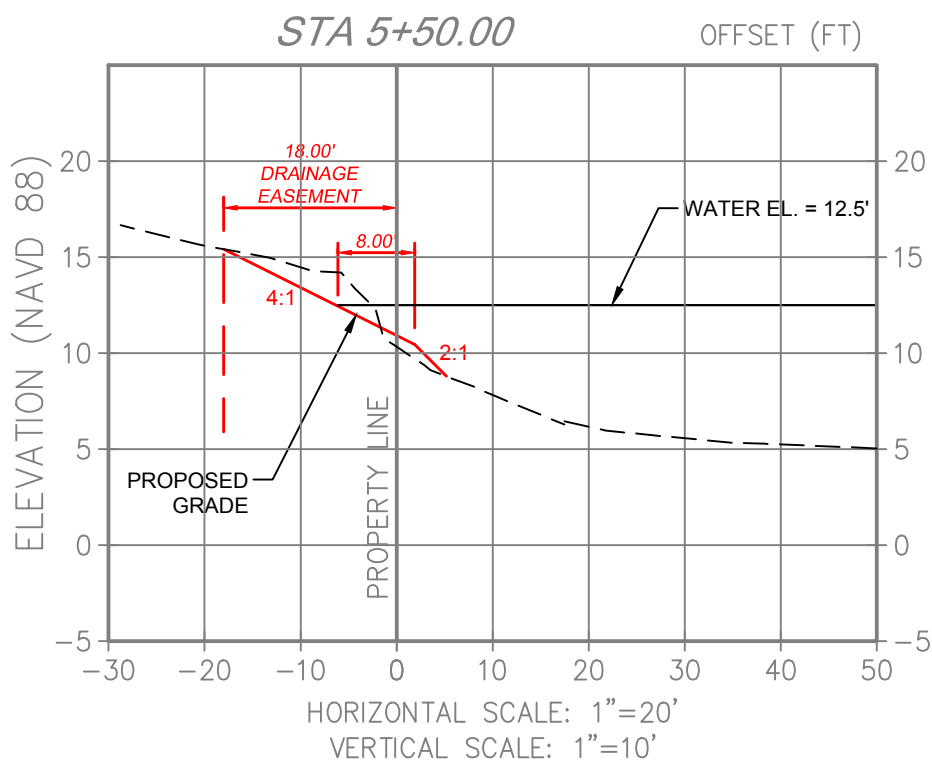
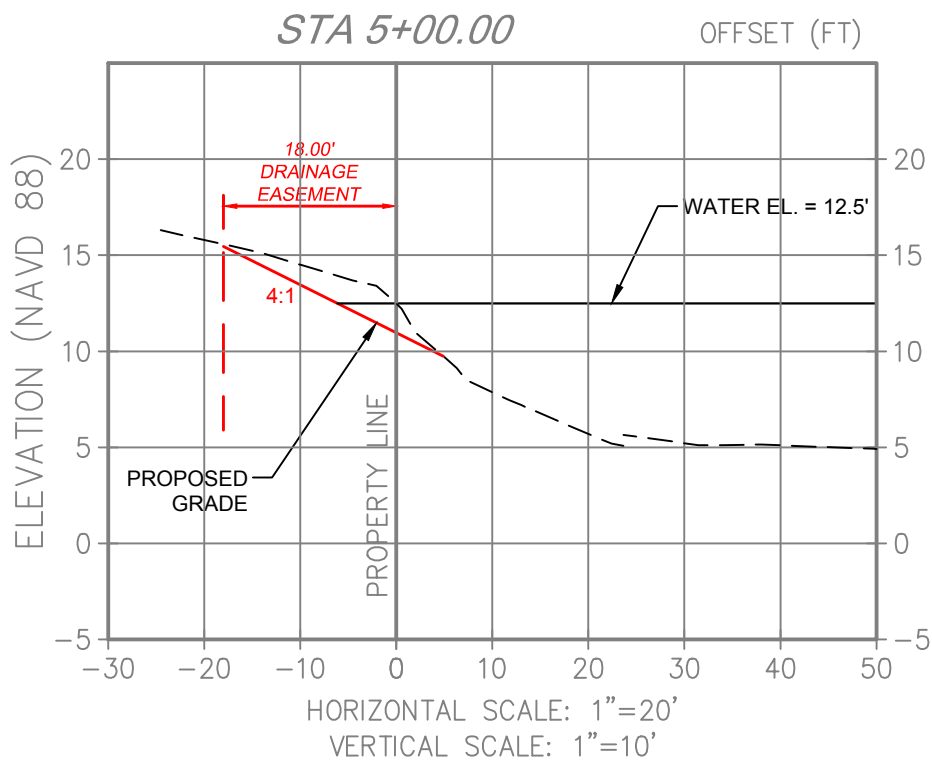
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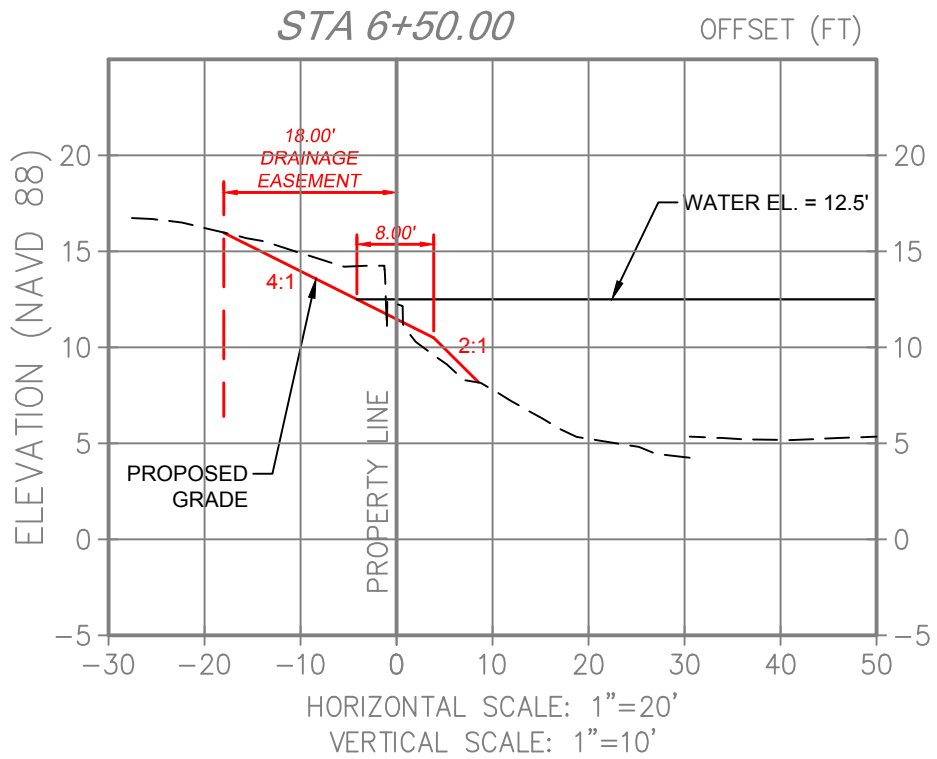
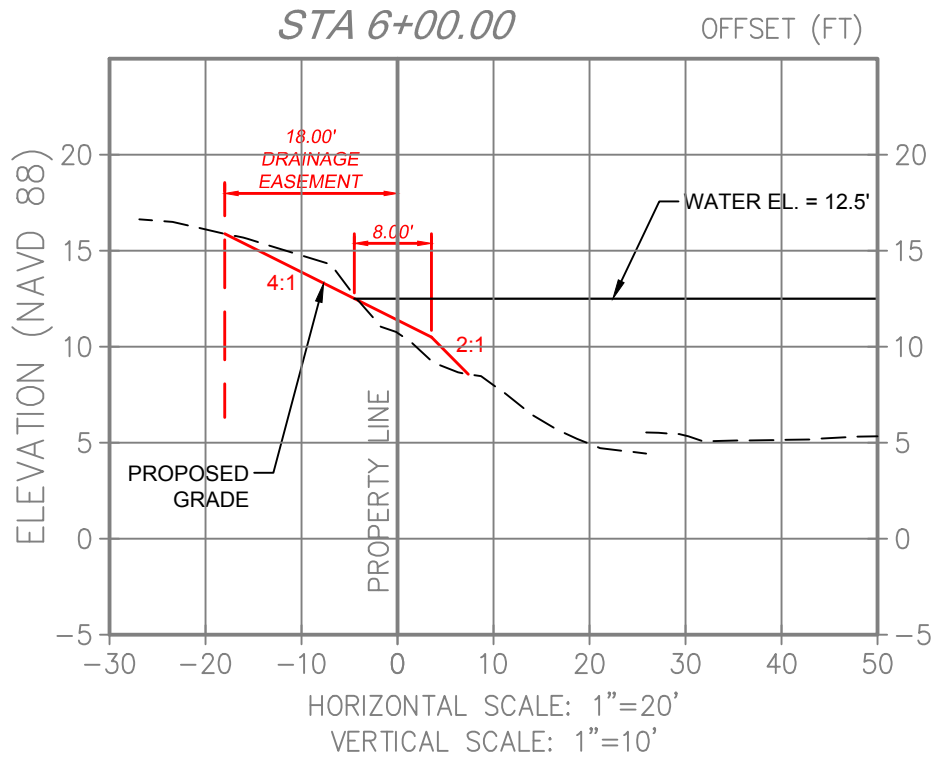
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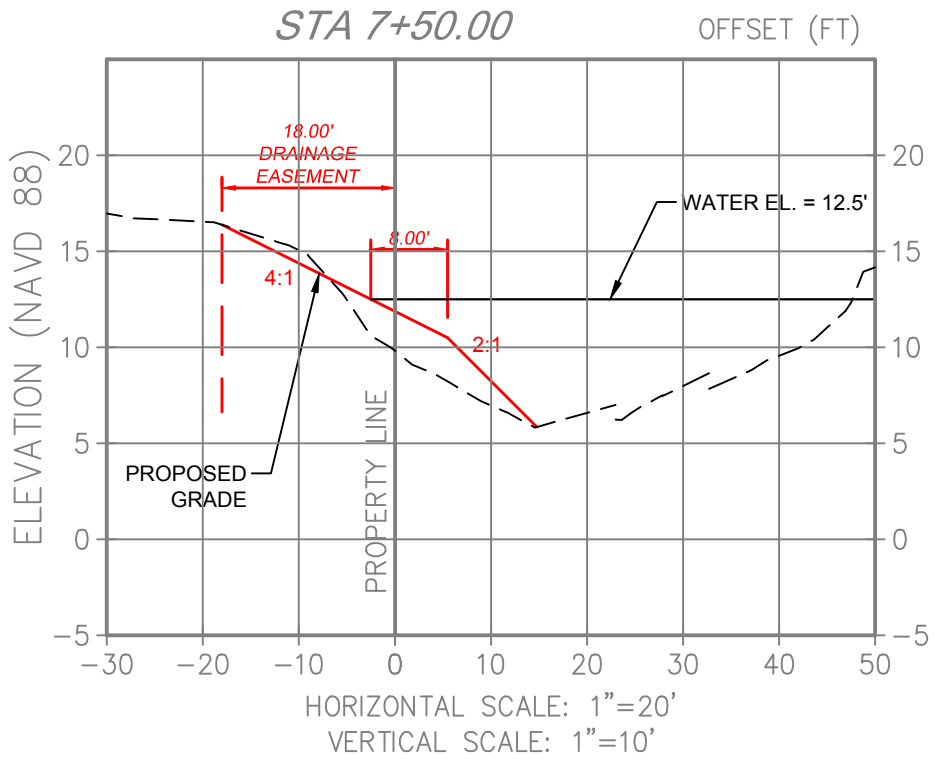
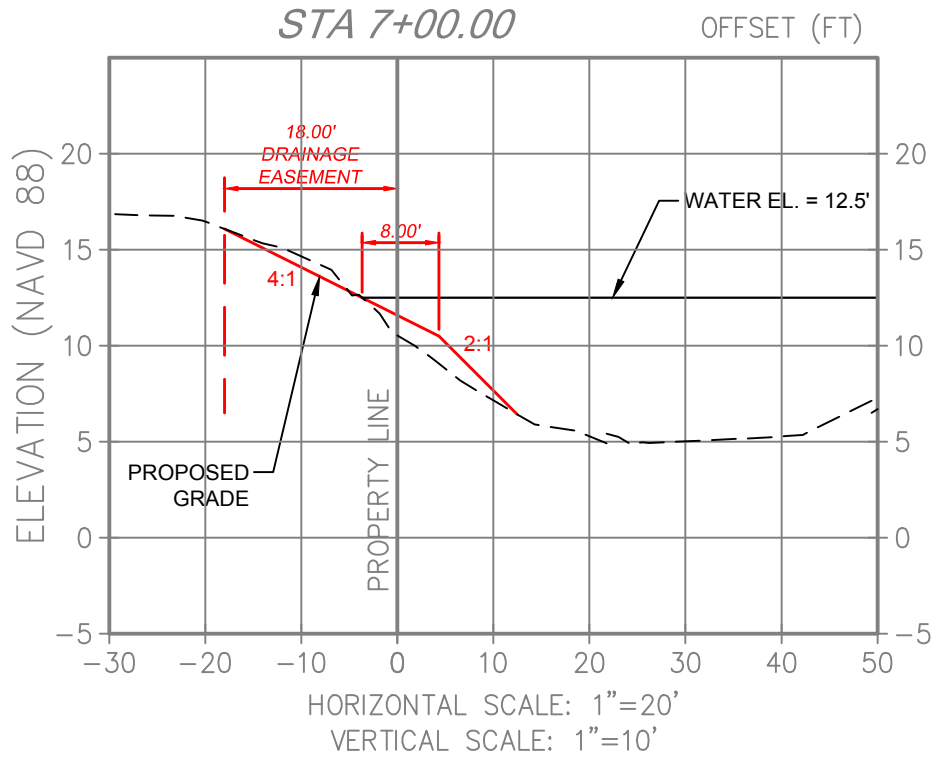
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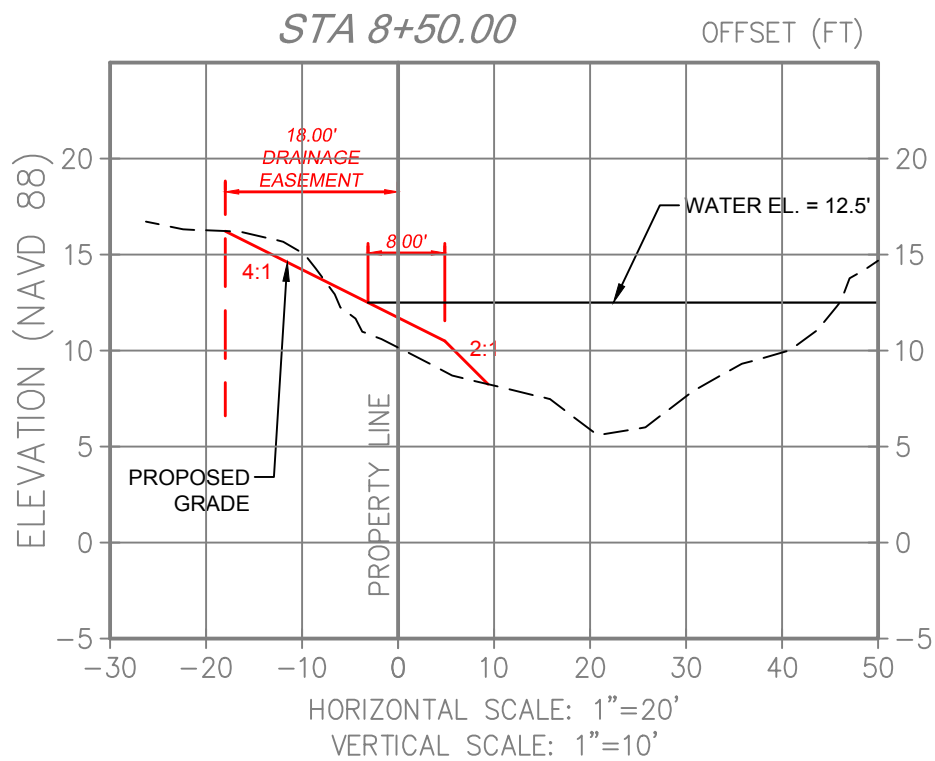
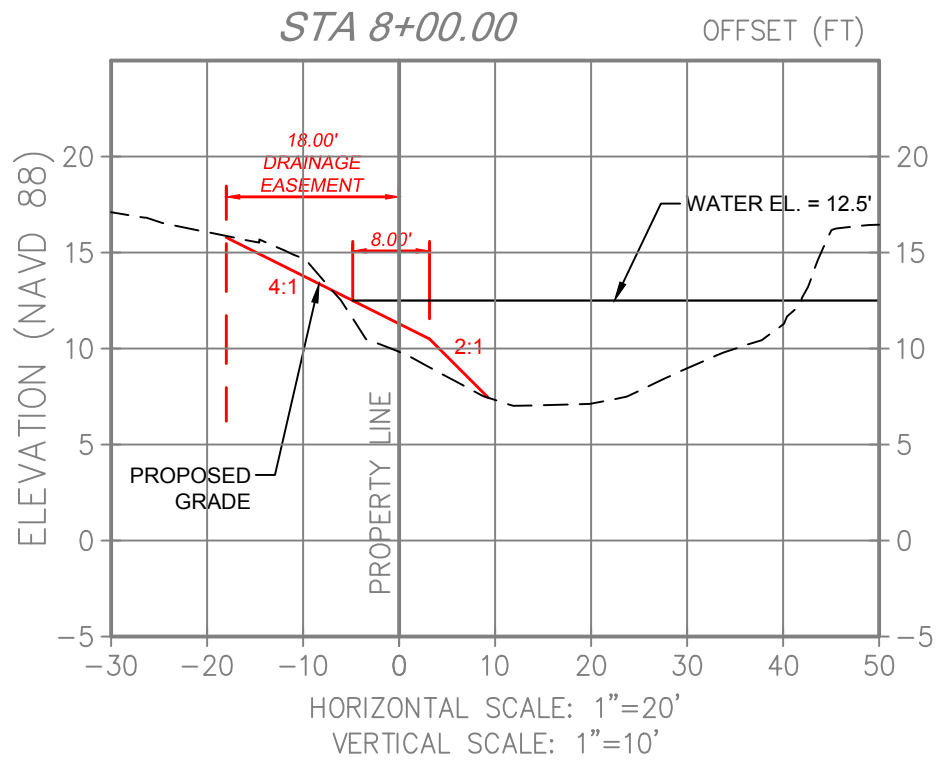
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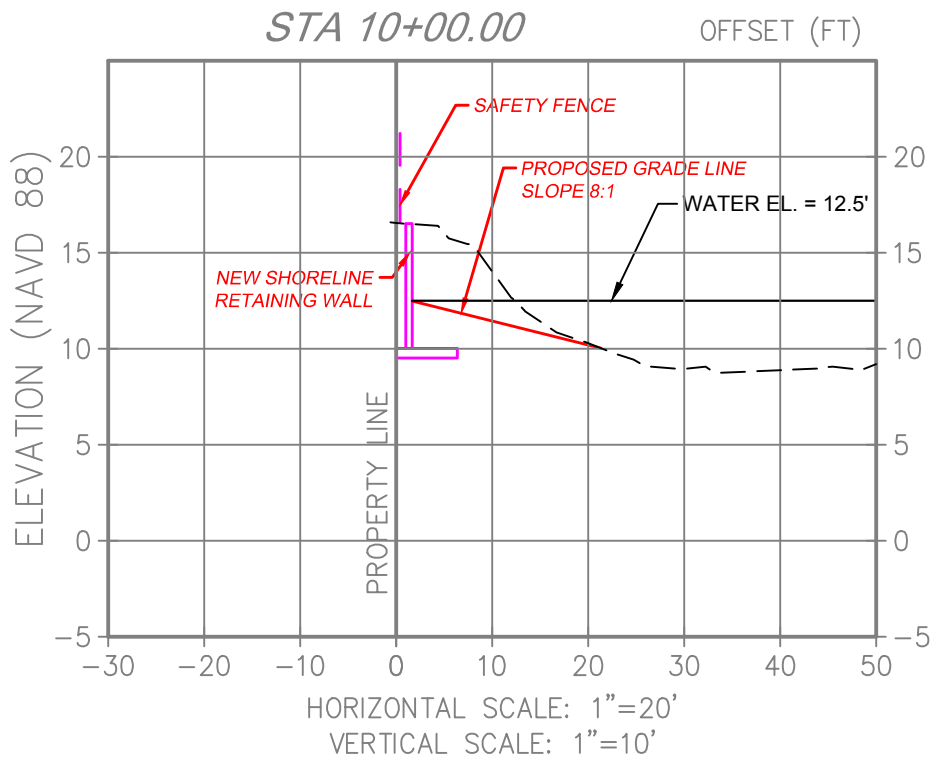
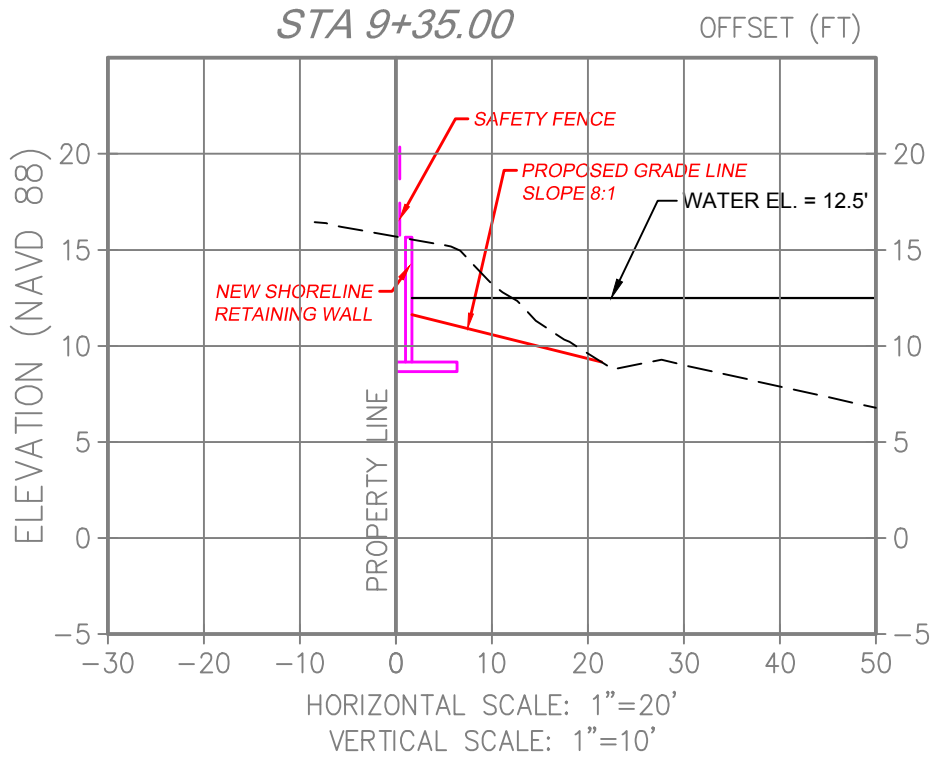
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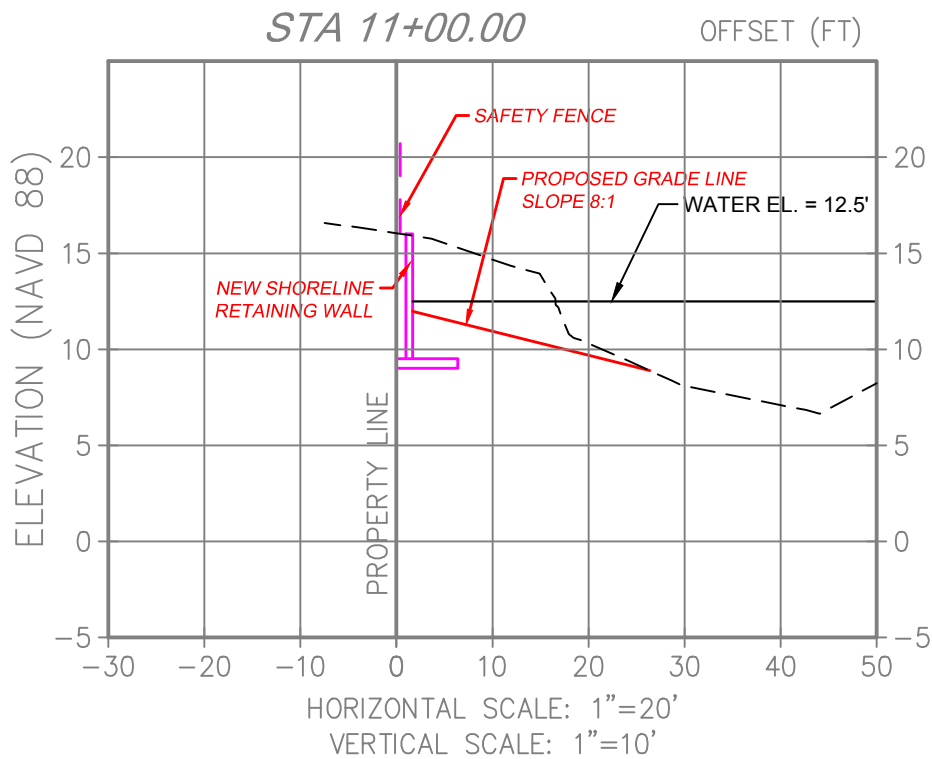
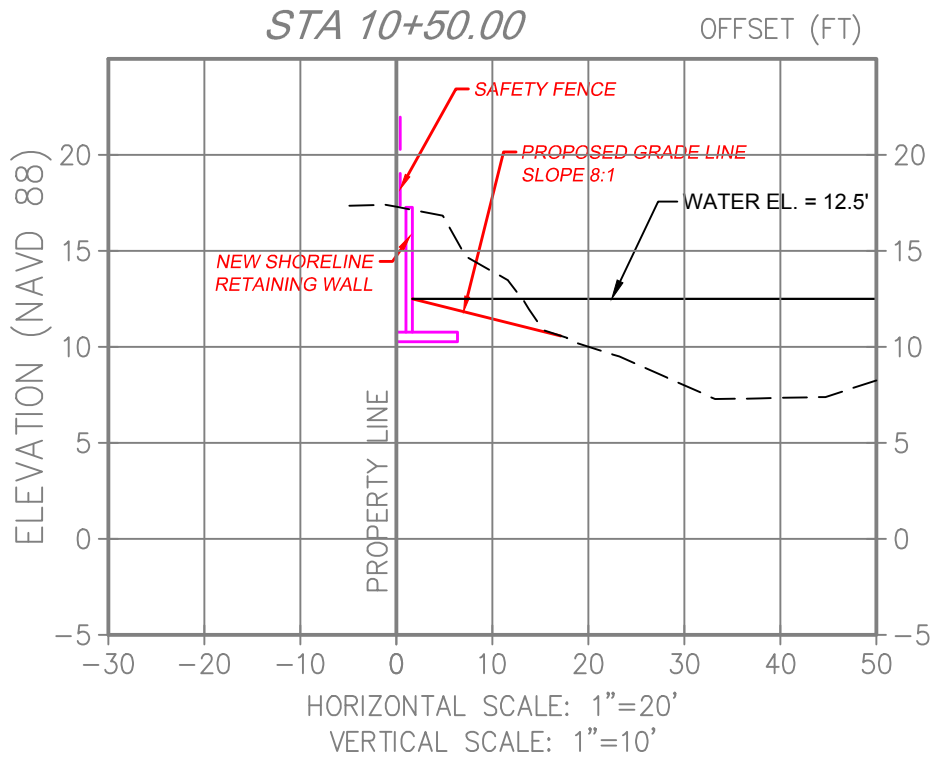
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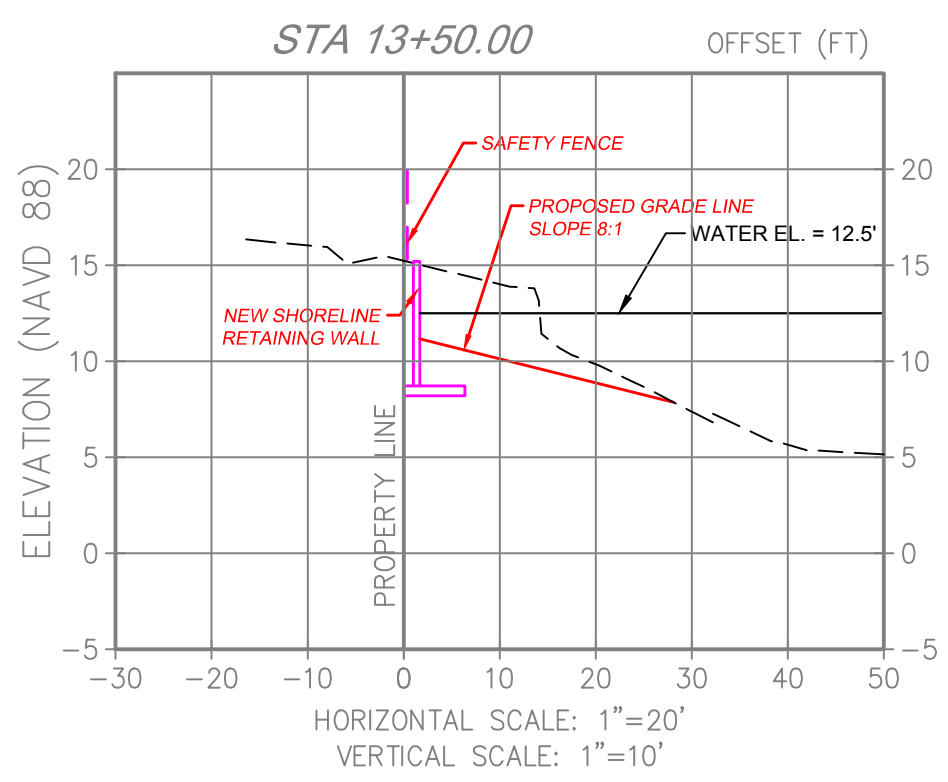
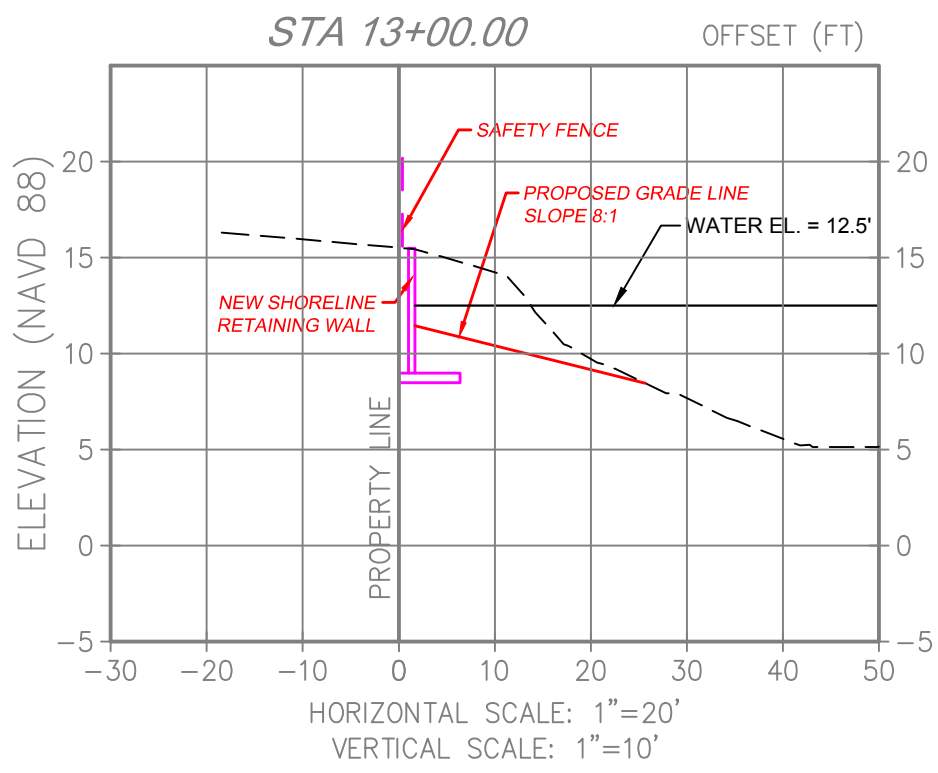
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**GLADIATOR LAKE
 DRAINAGE ENHANCEMENTS**

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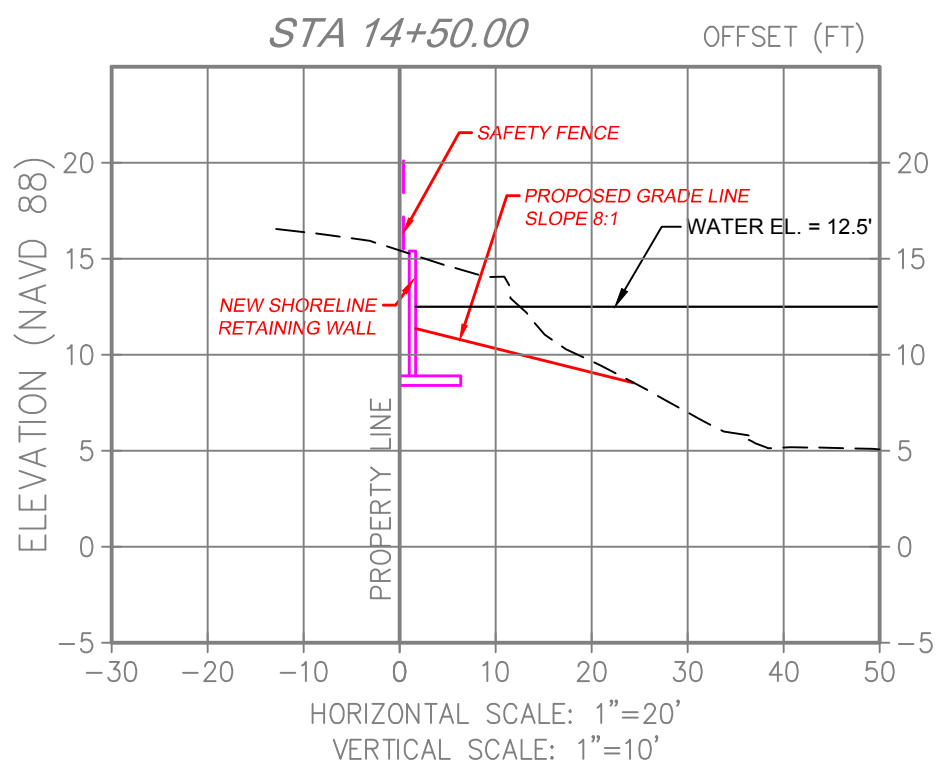
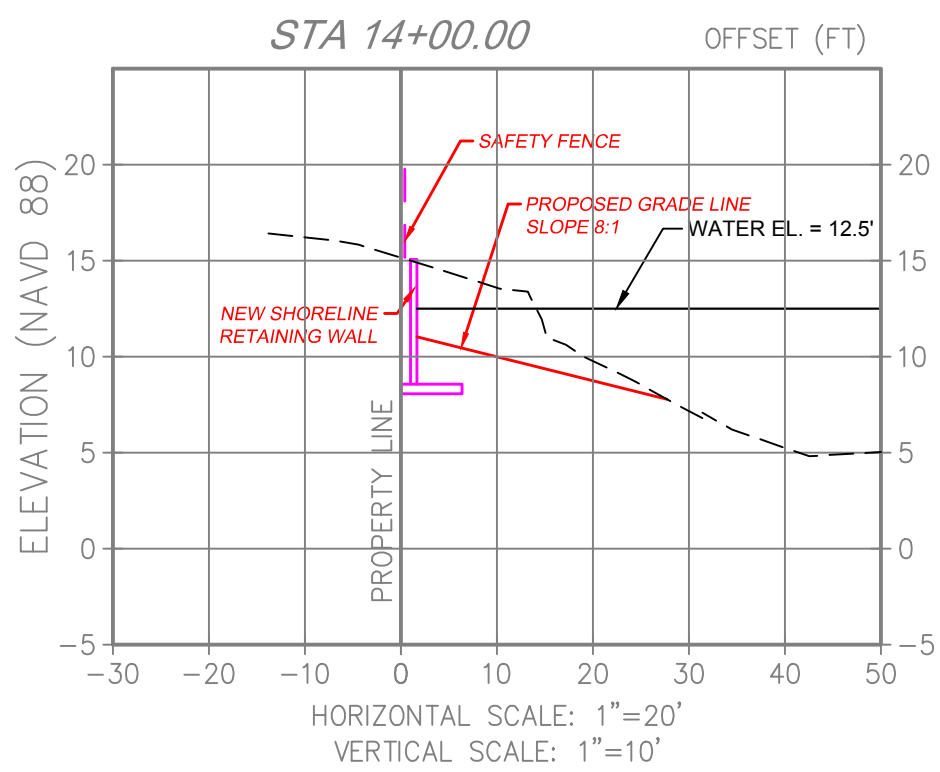
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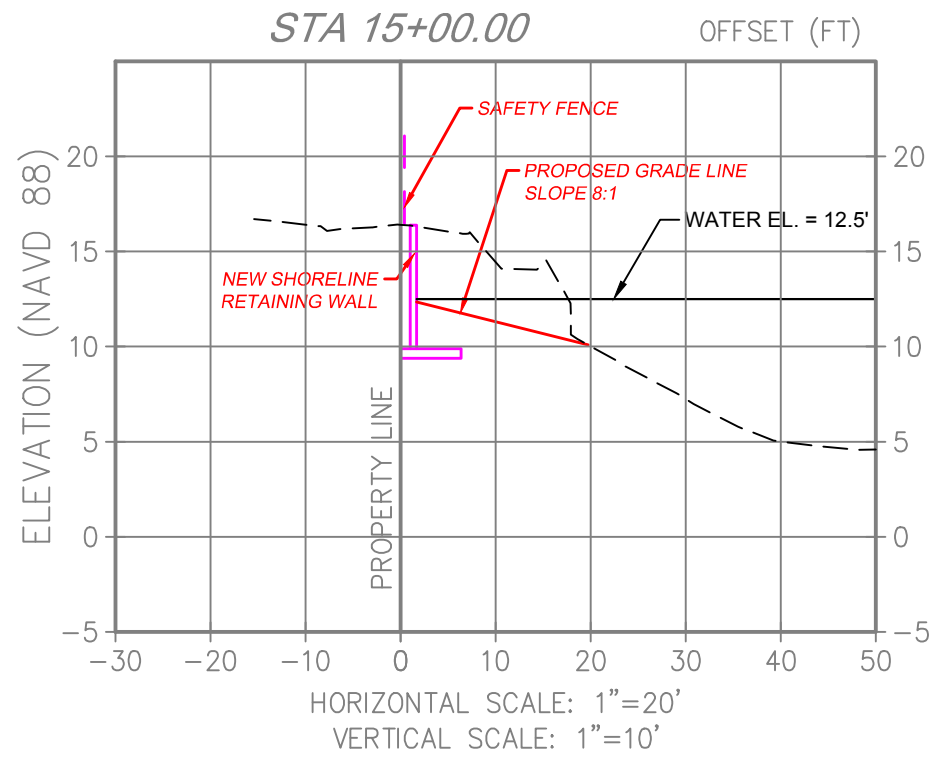
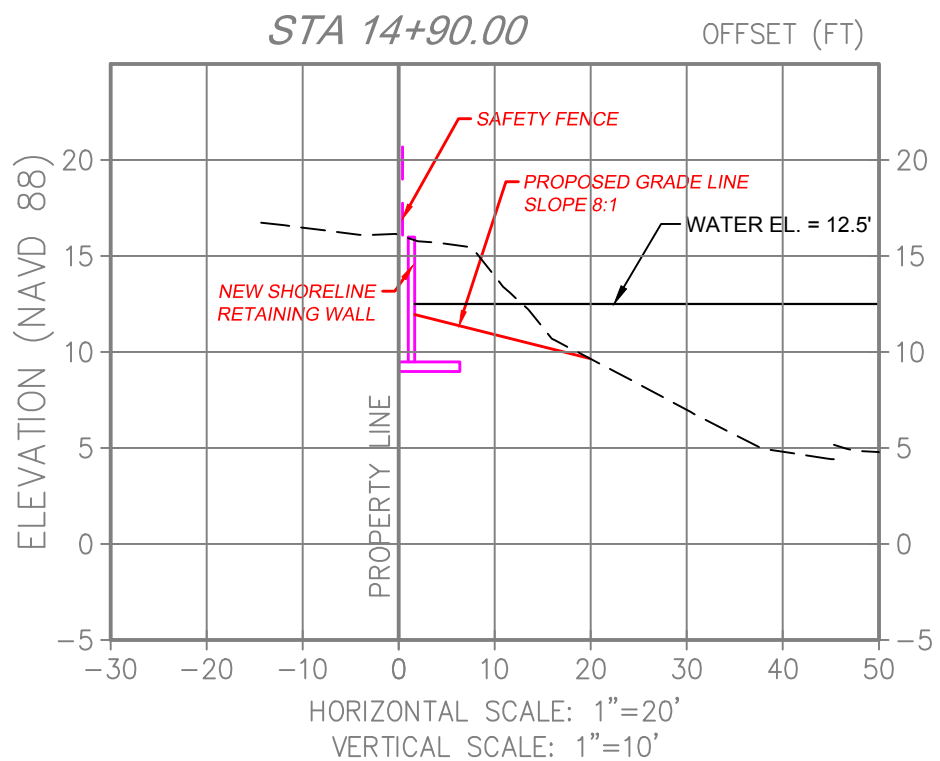
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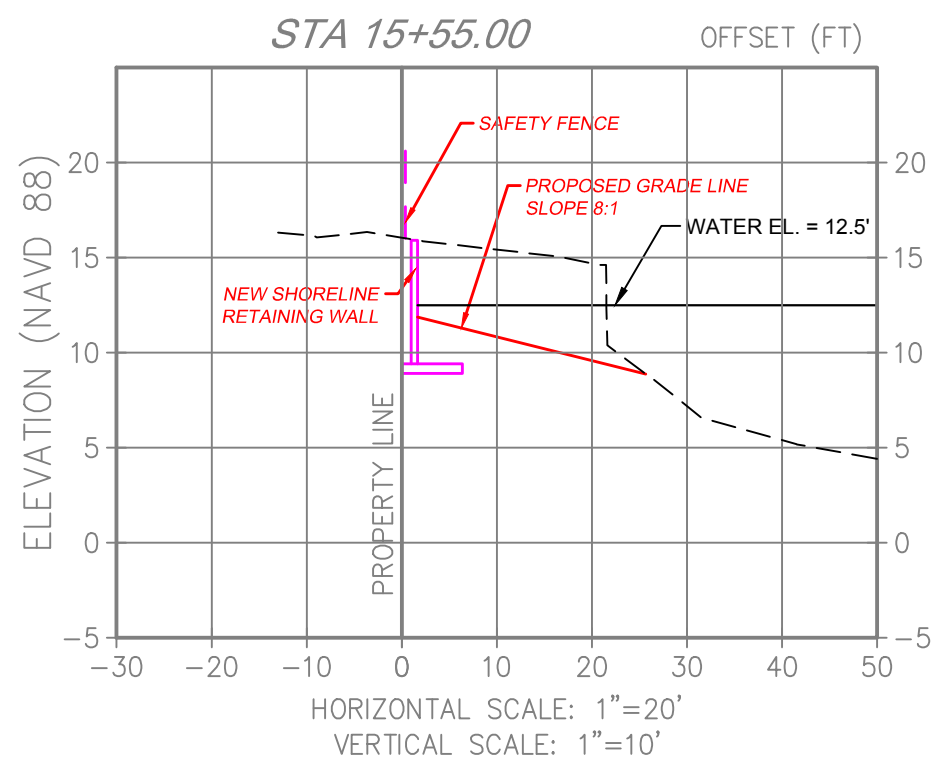
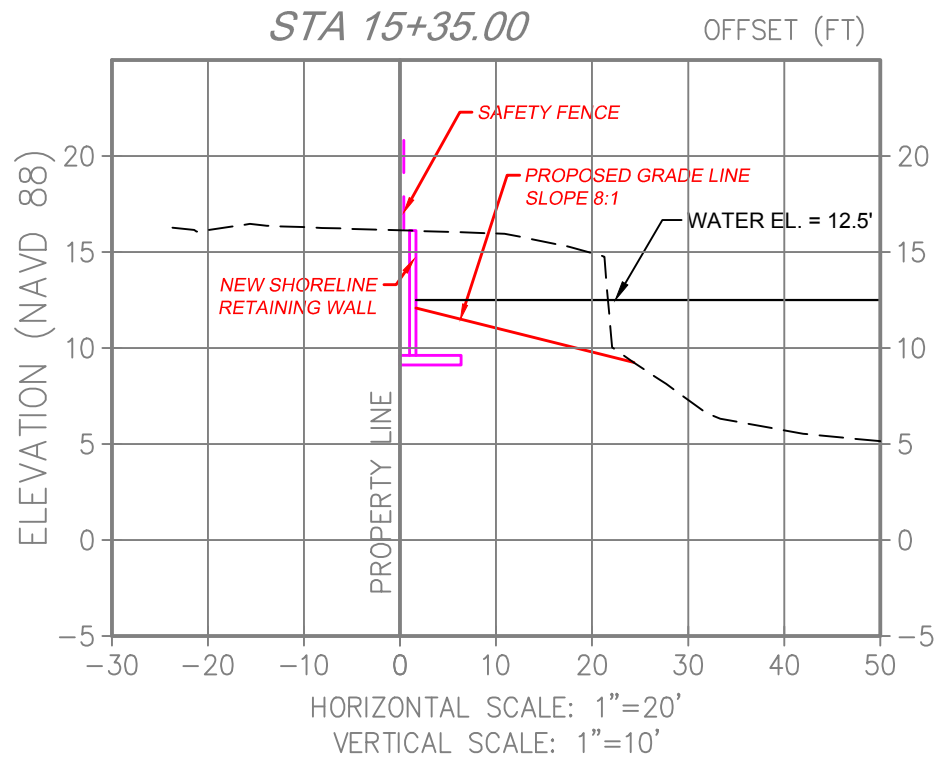
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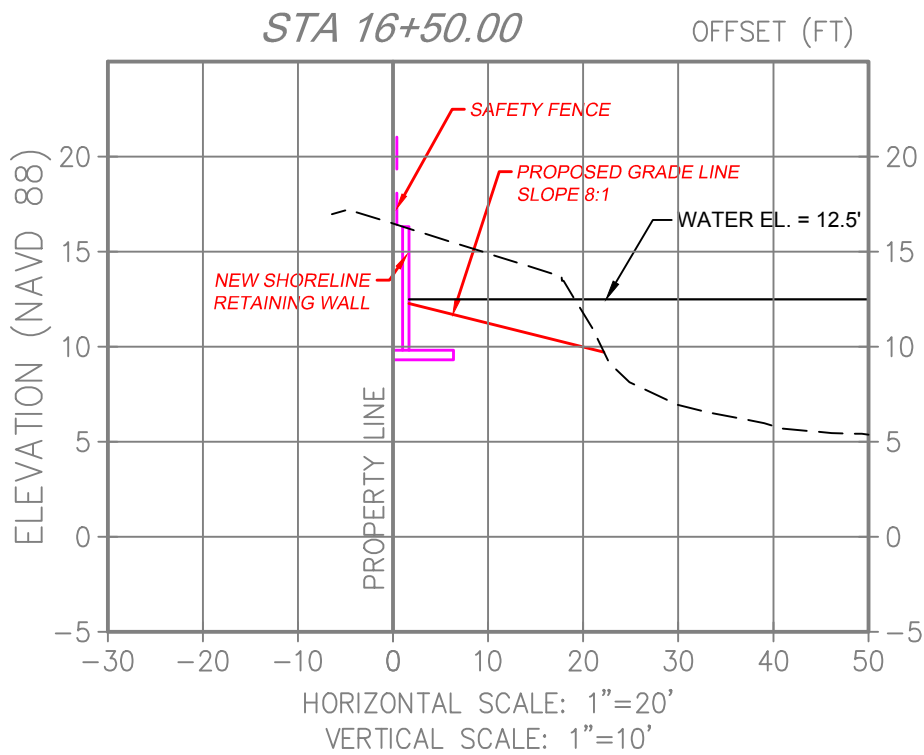
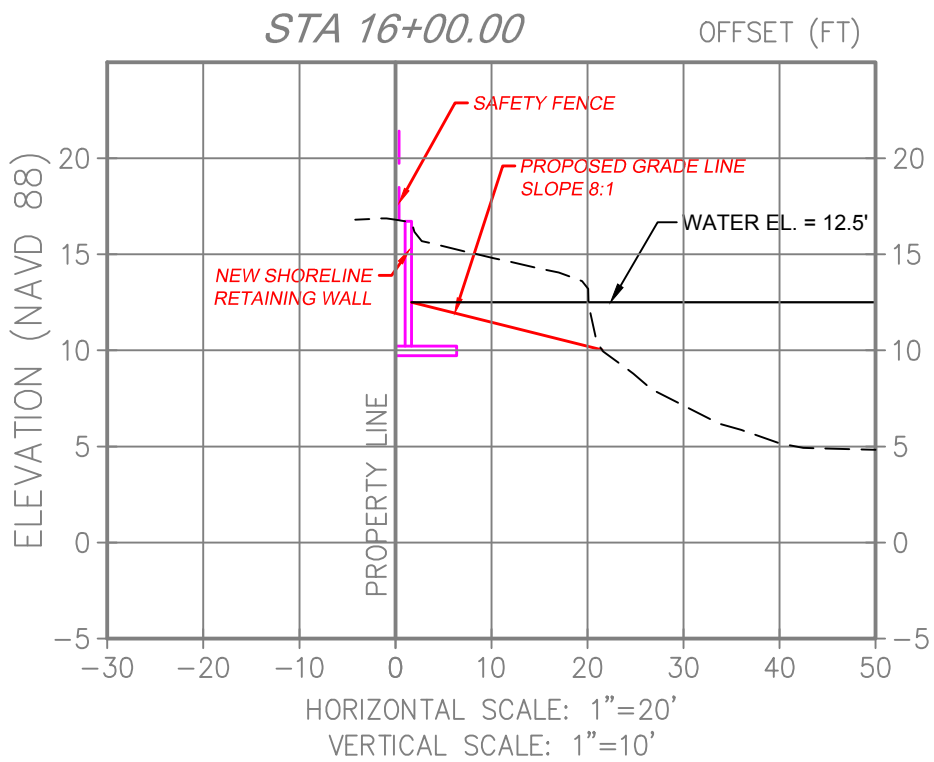
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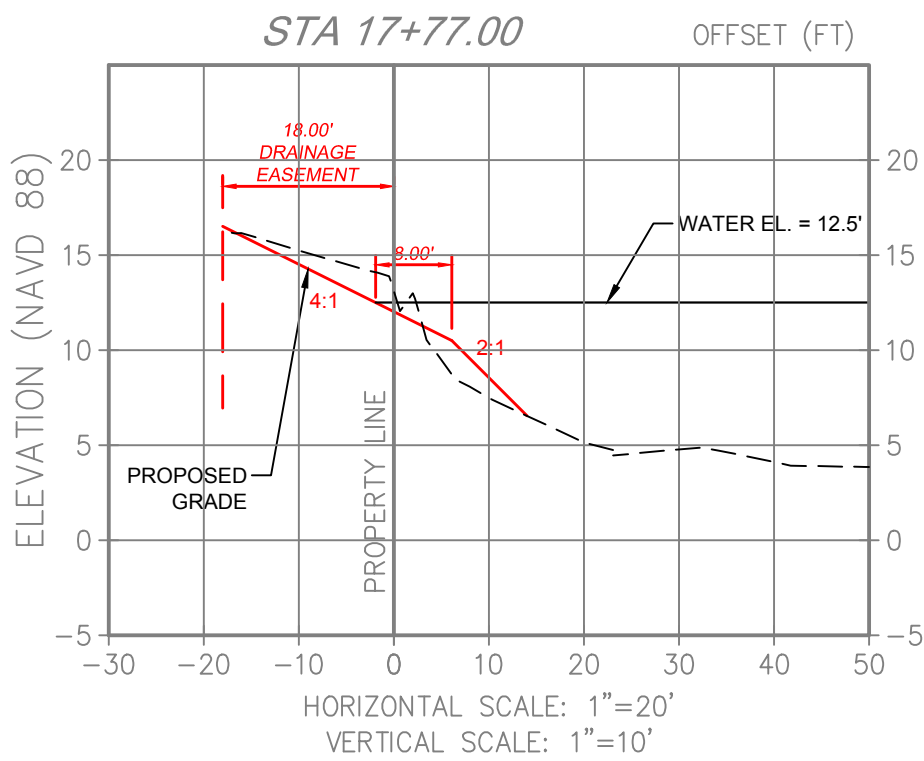
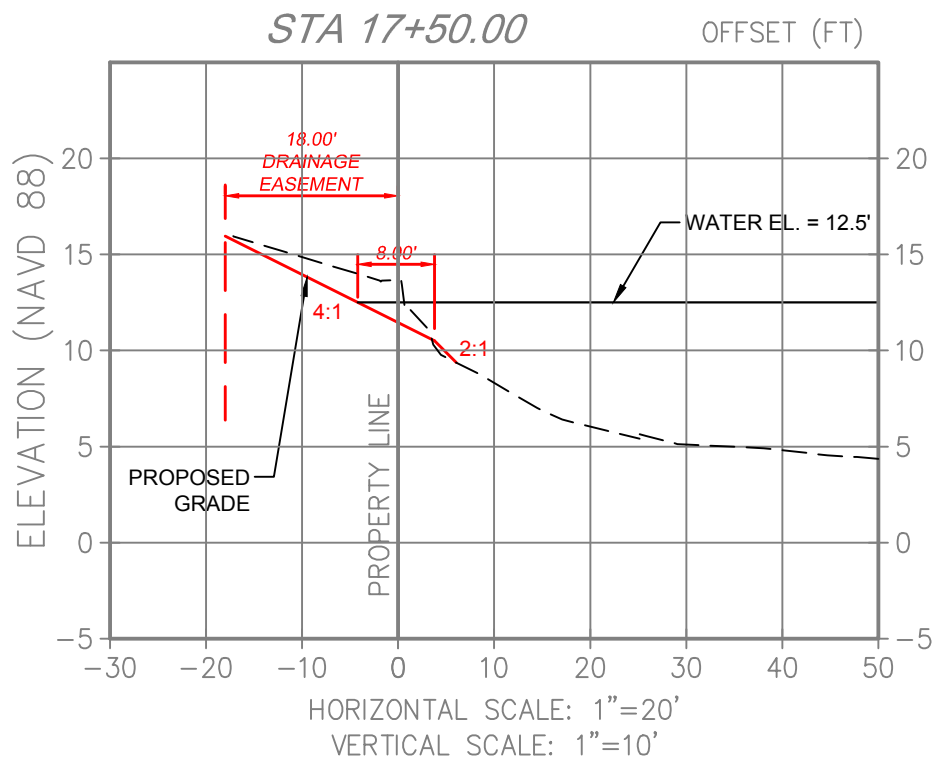
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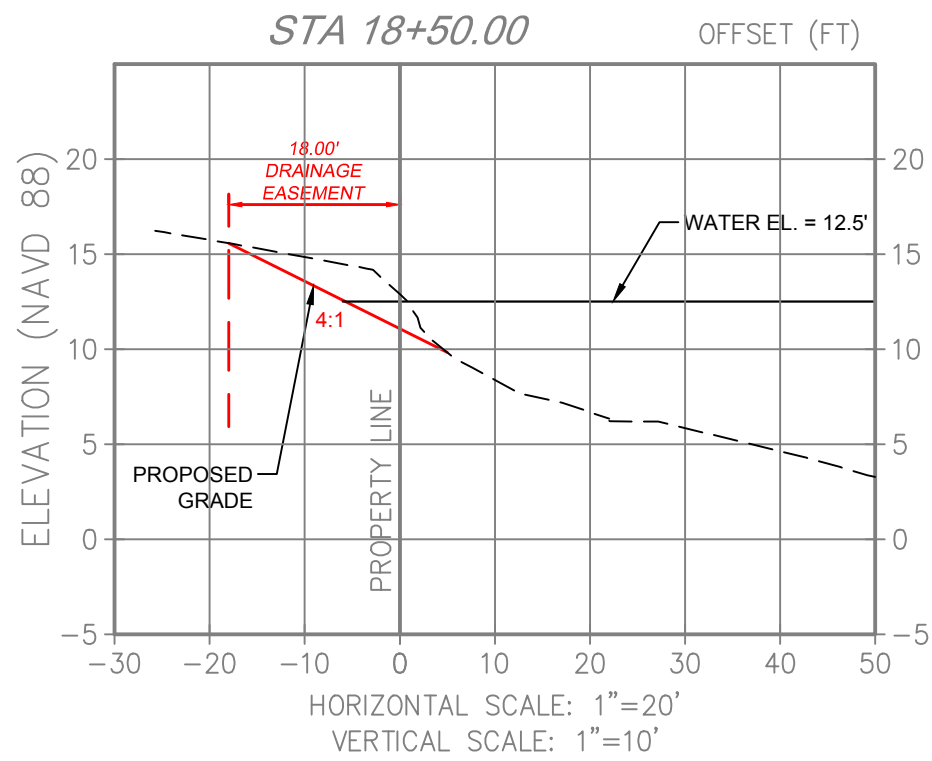
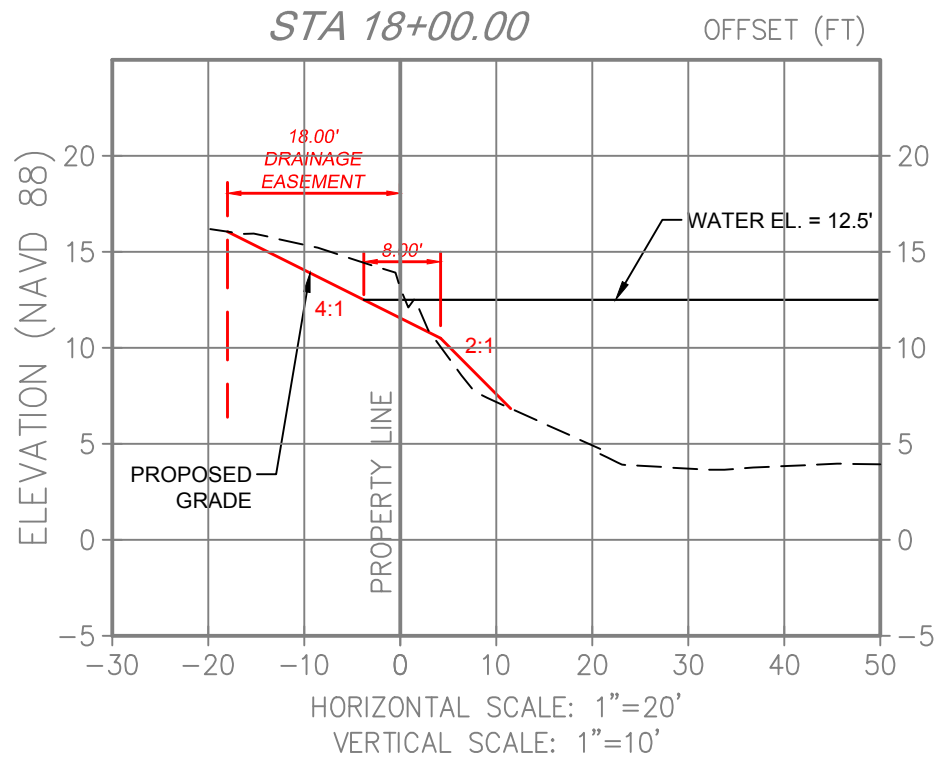


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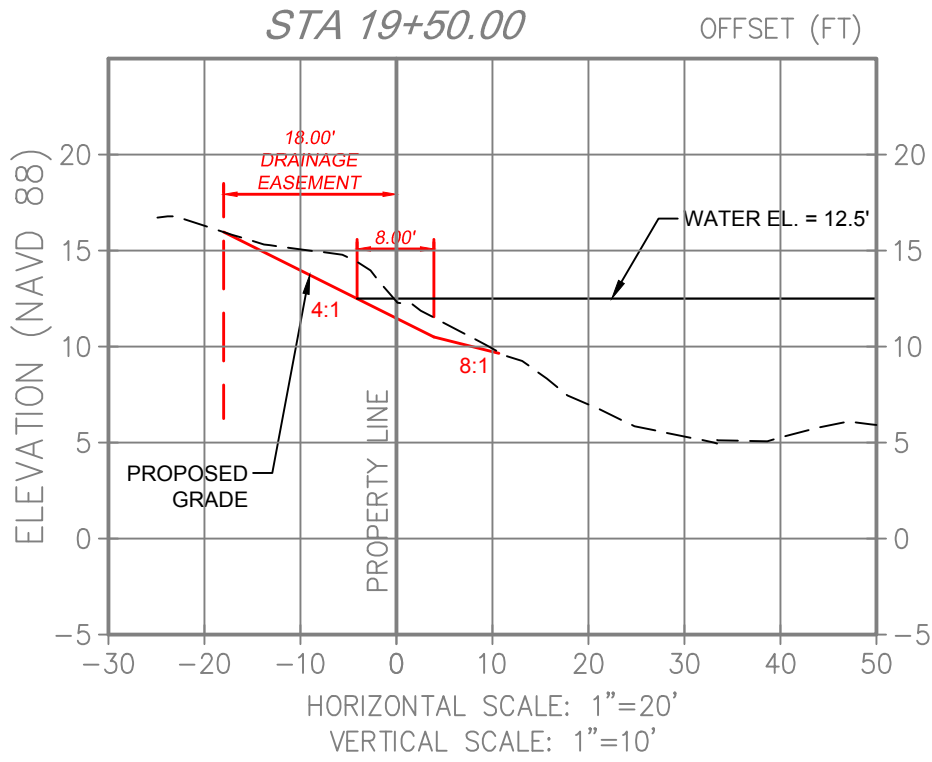
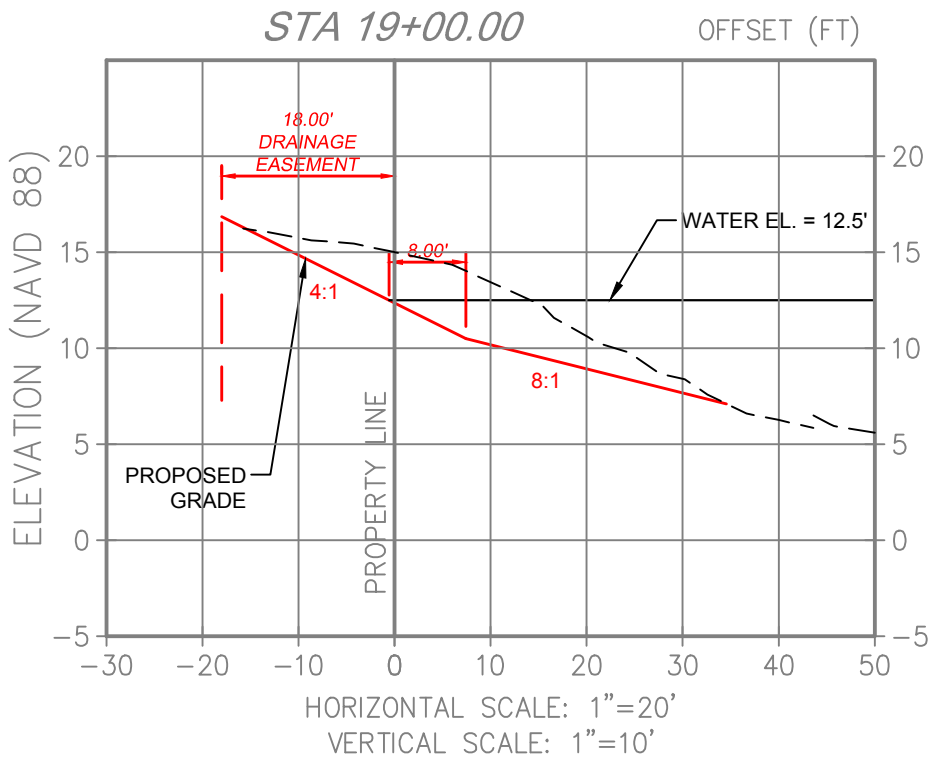


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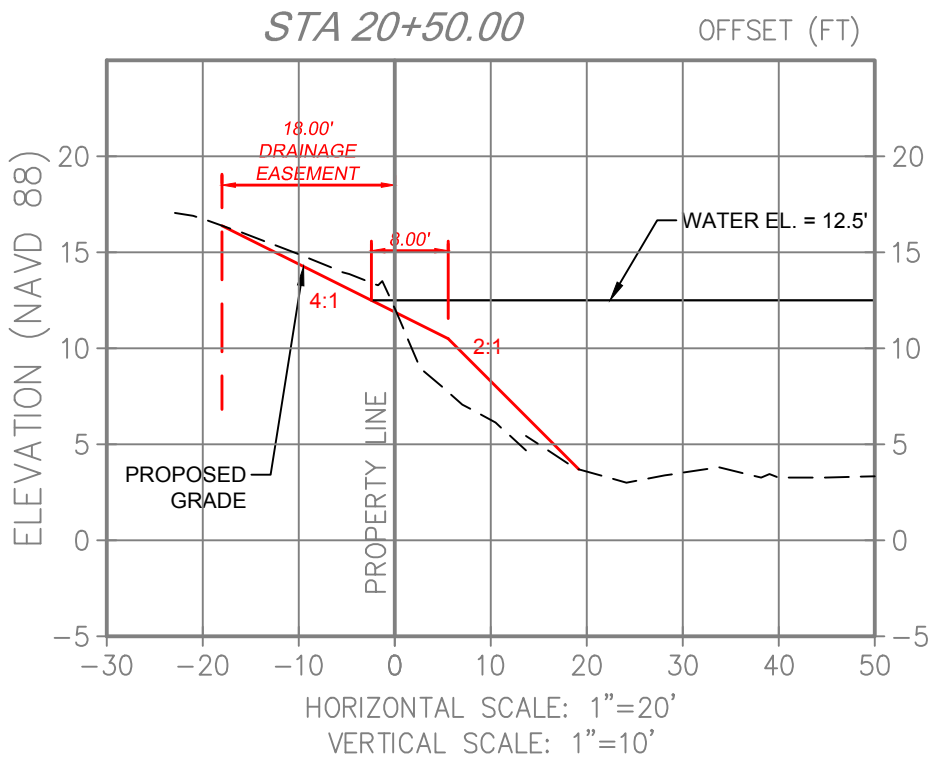
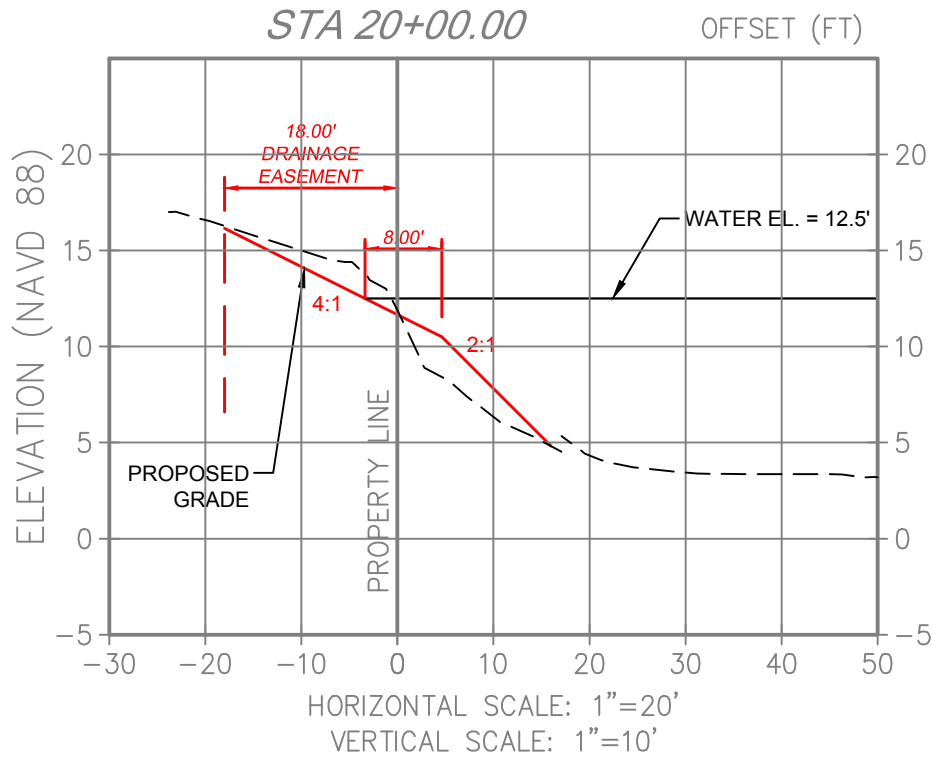
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 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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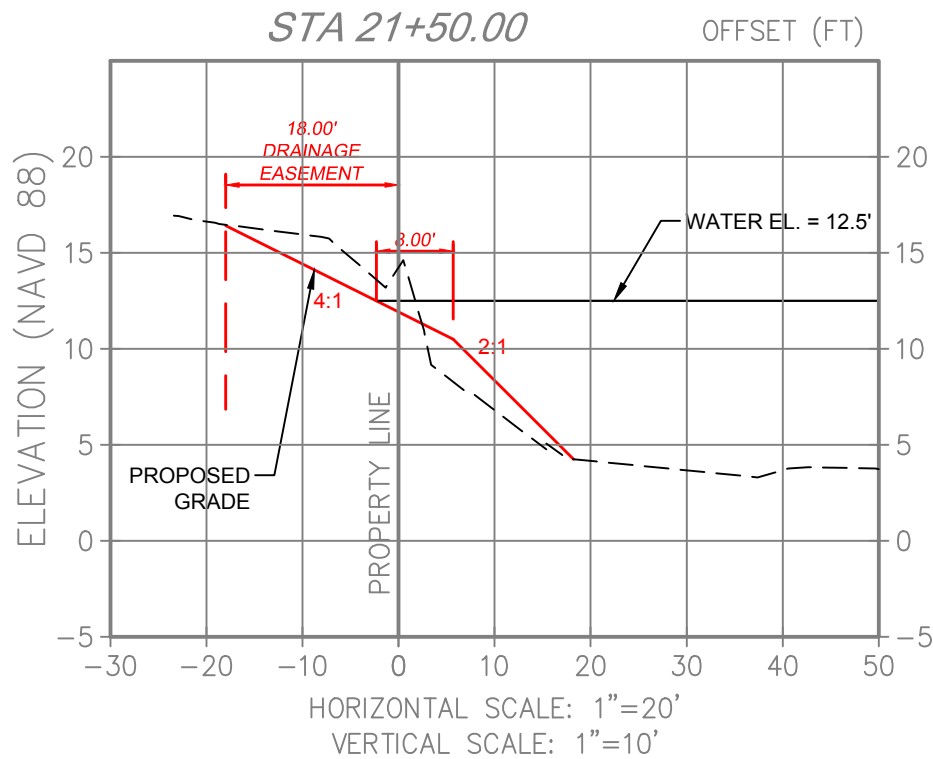
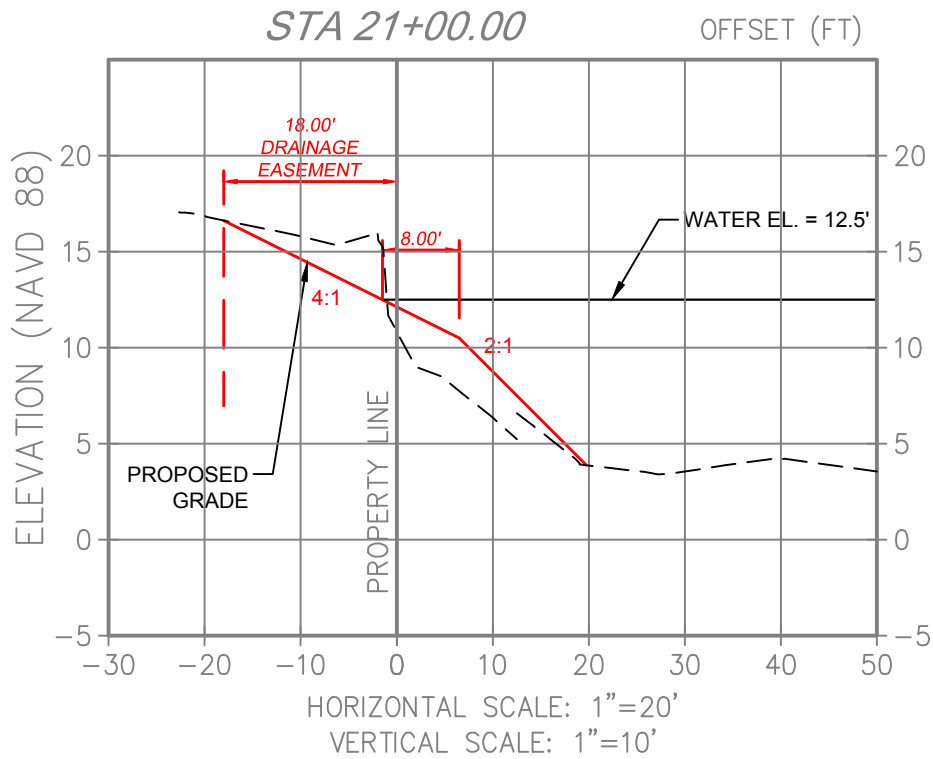
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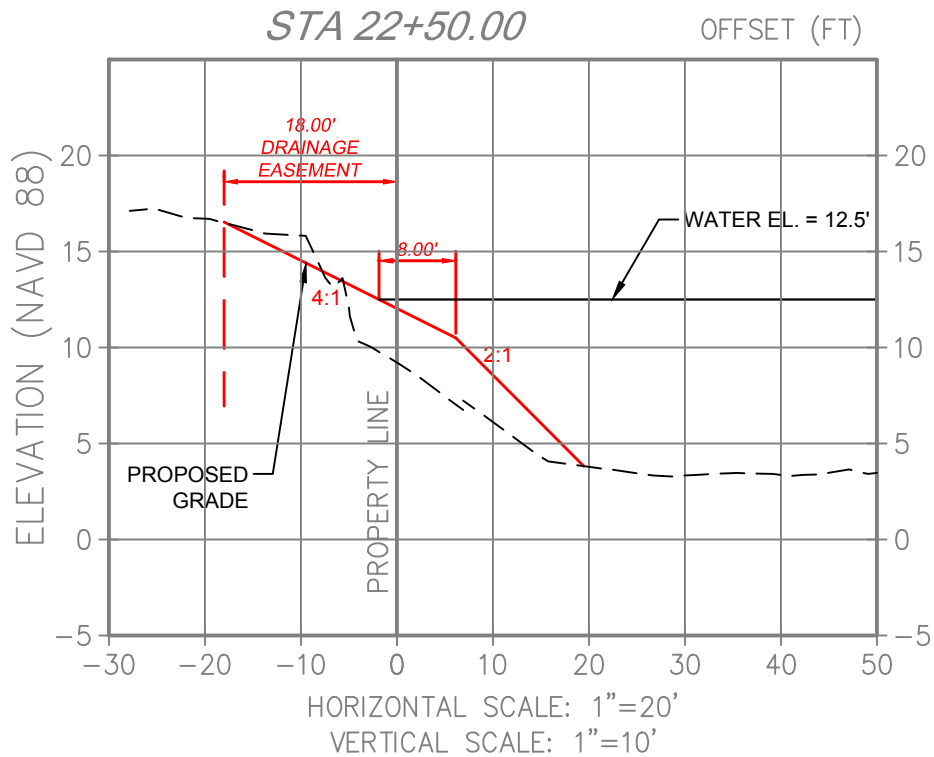
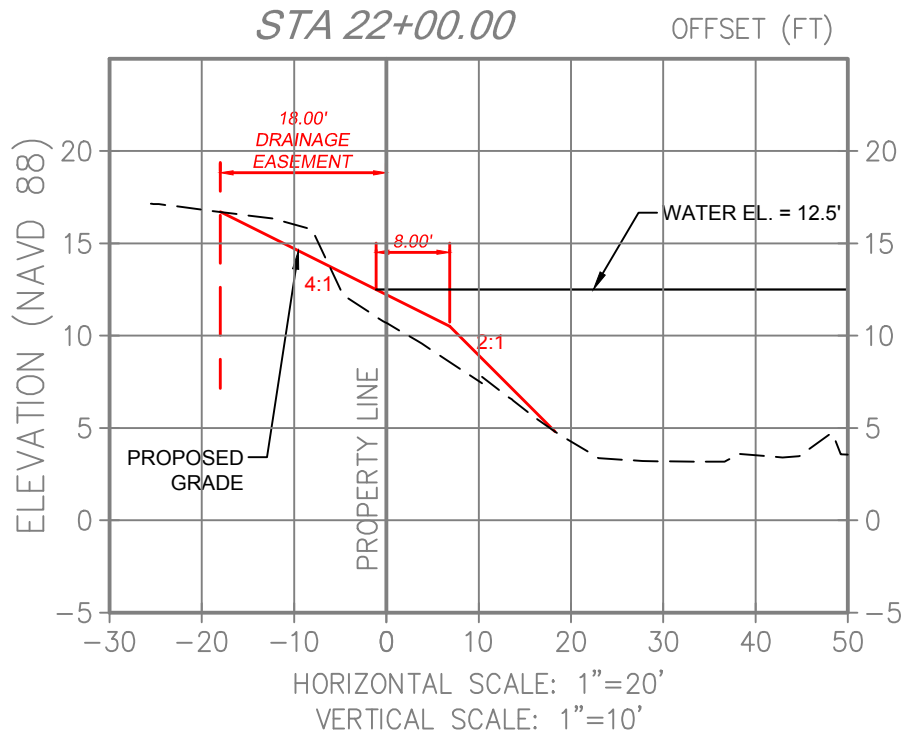
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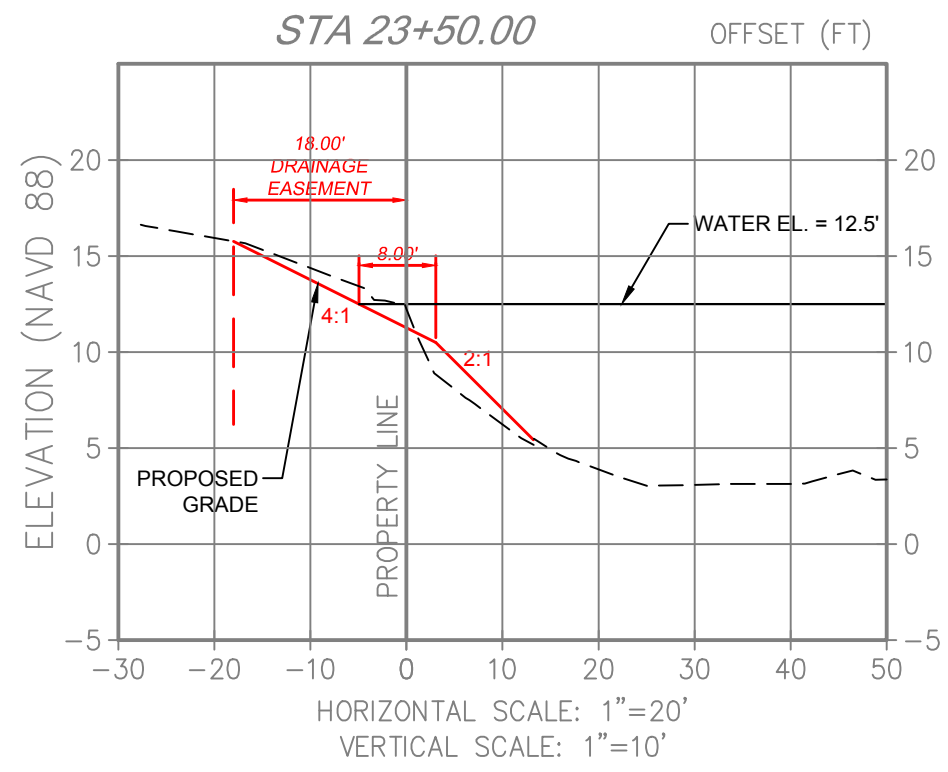
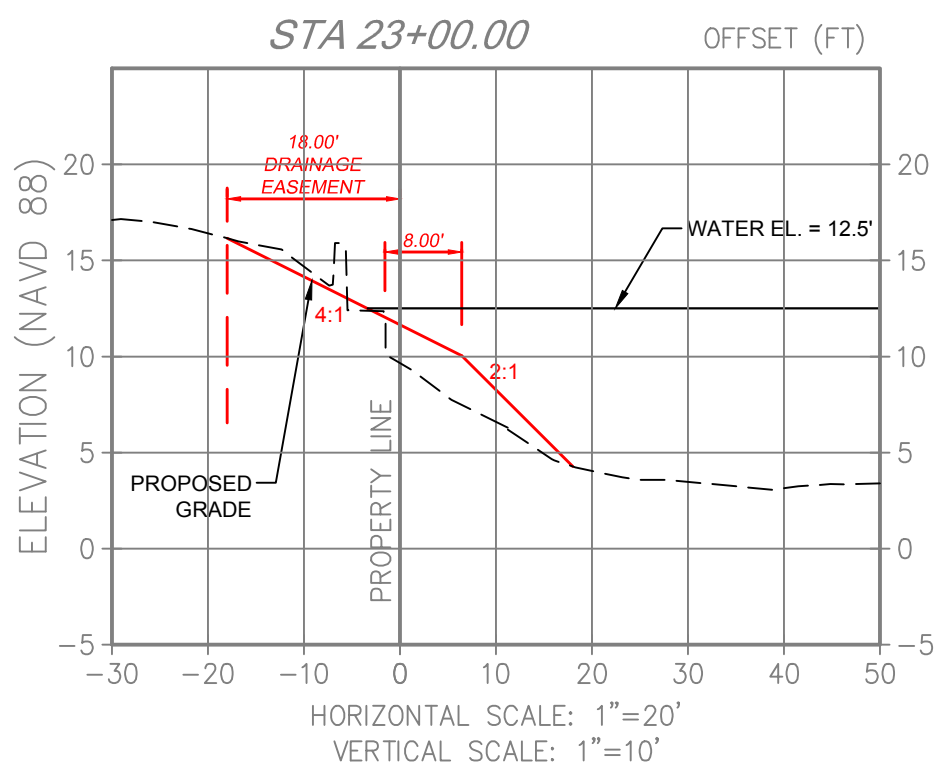


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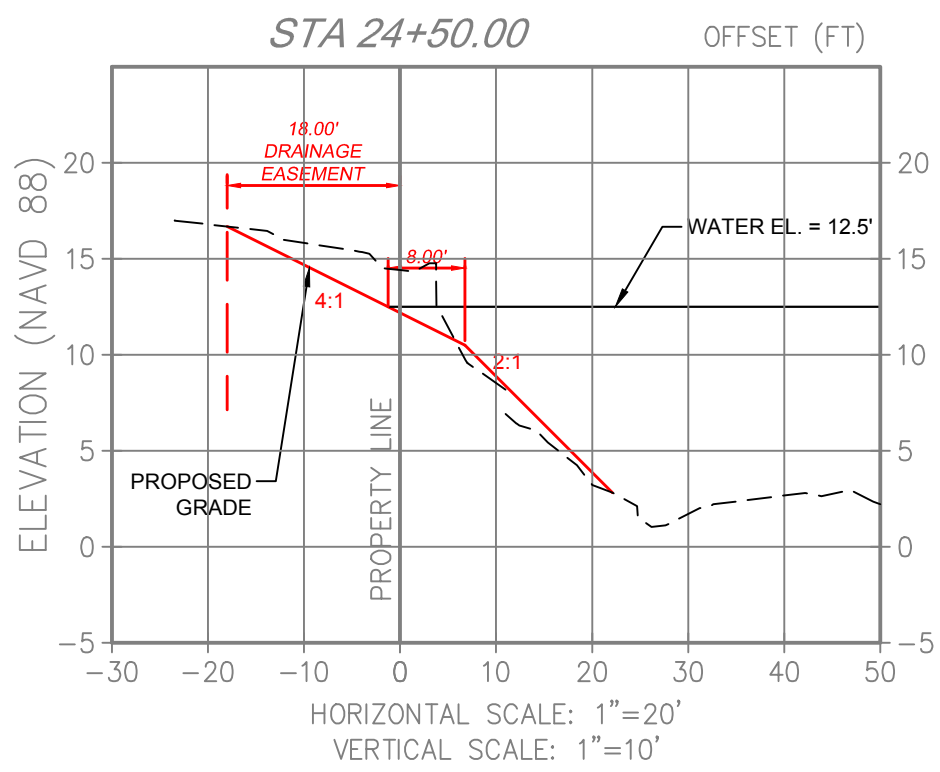
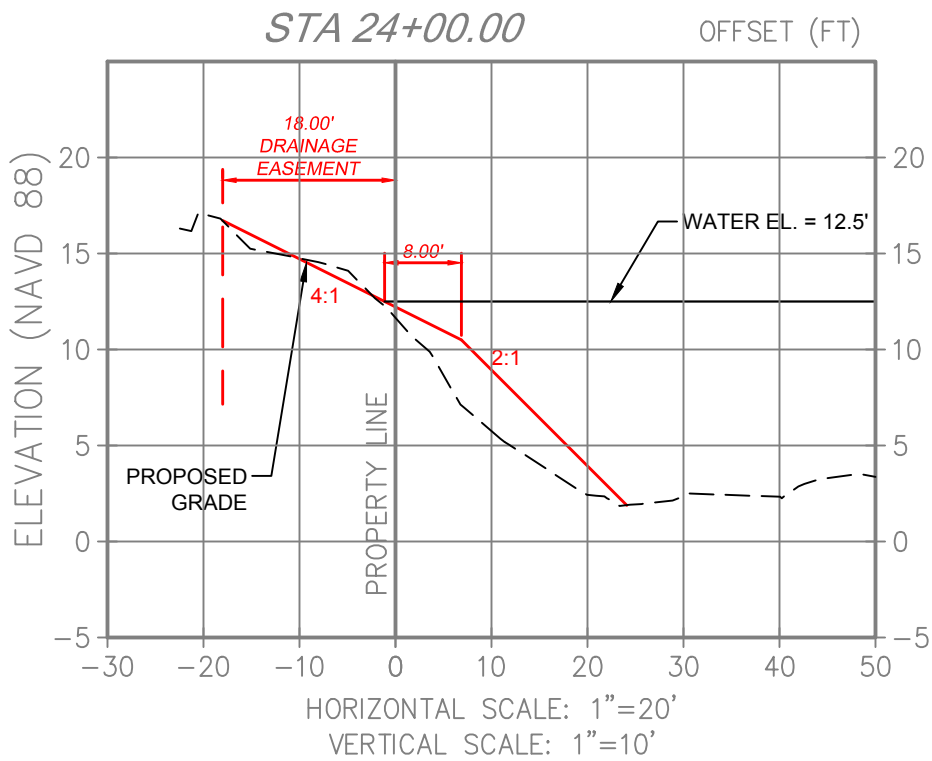


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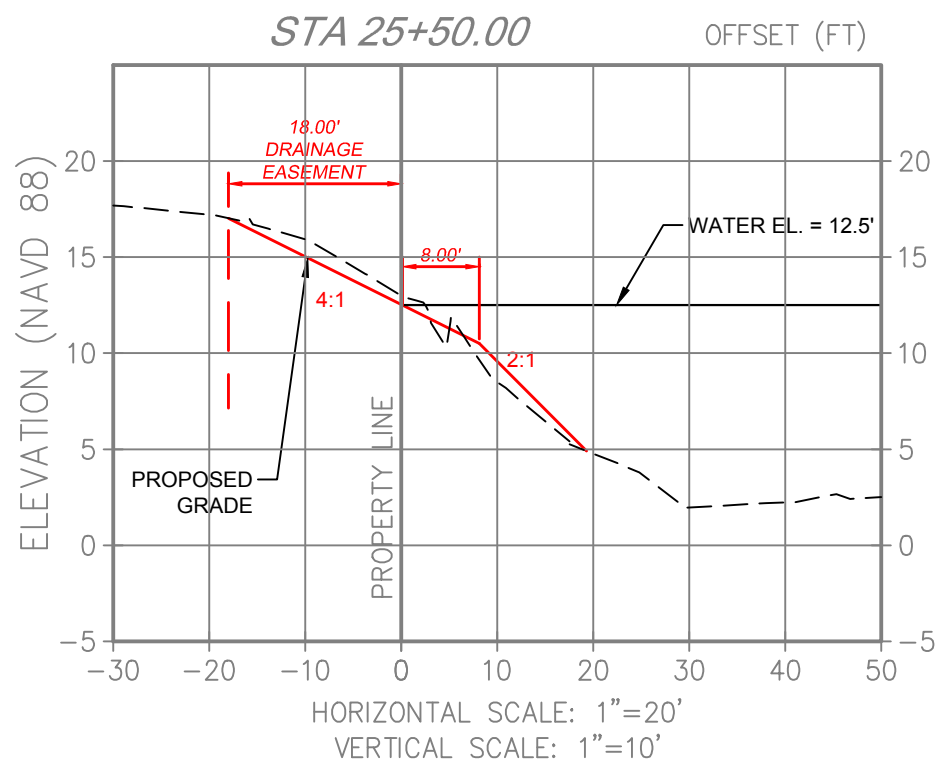
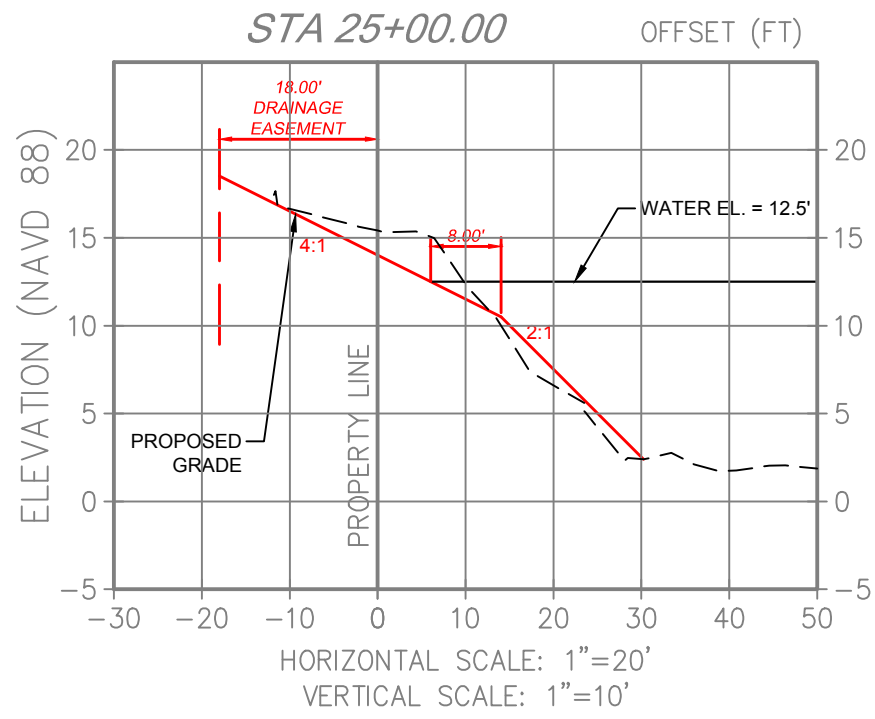
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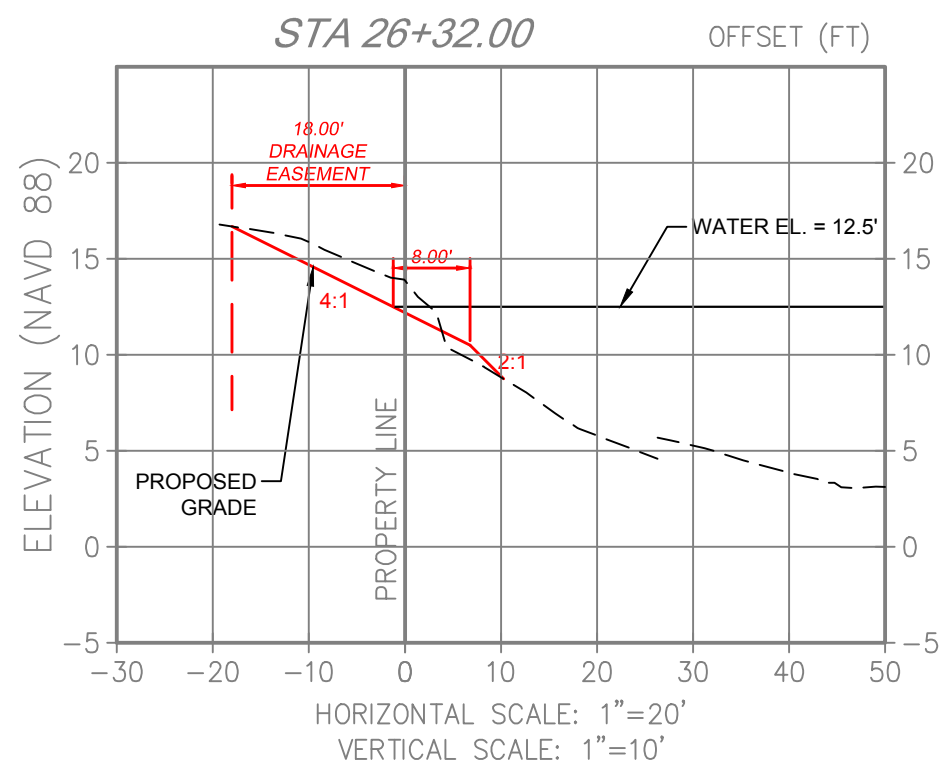
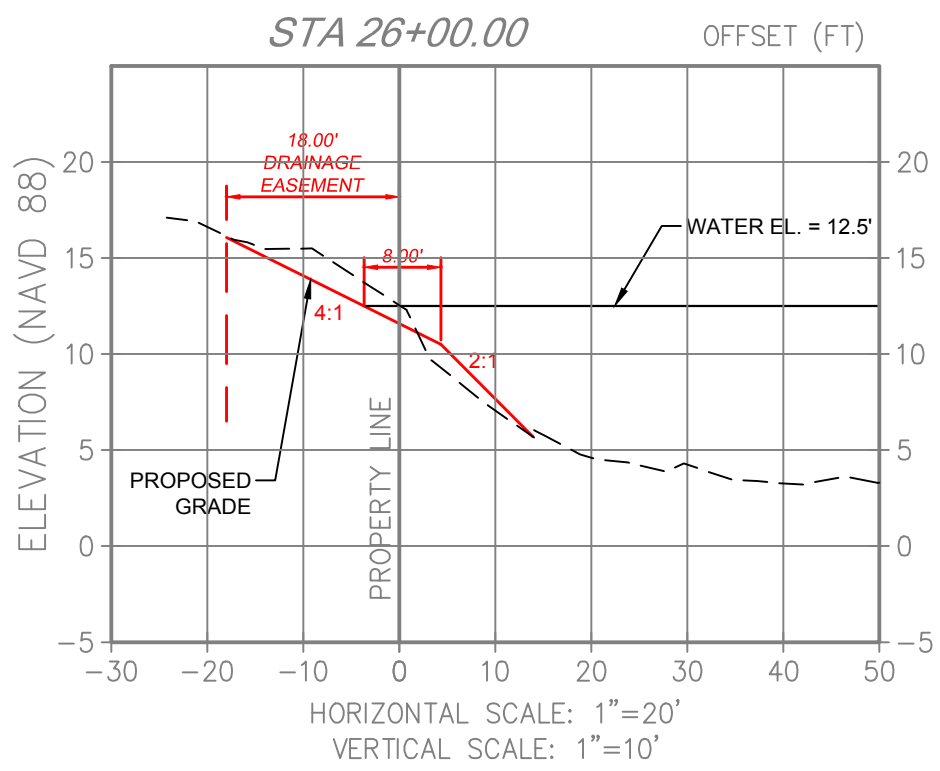
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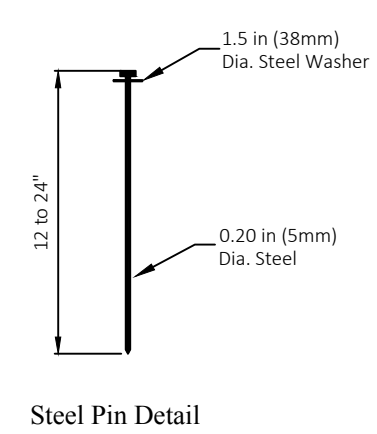
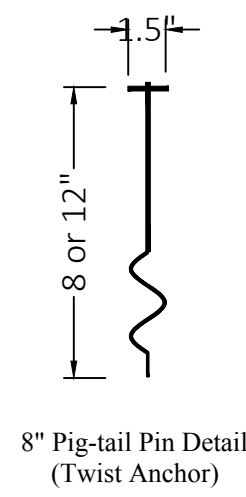
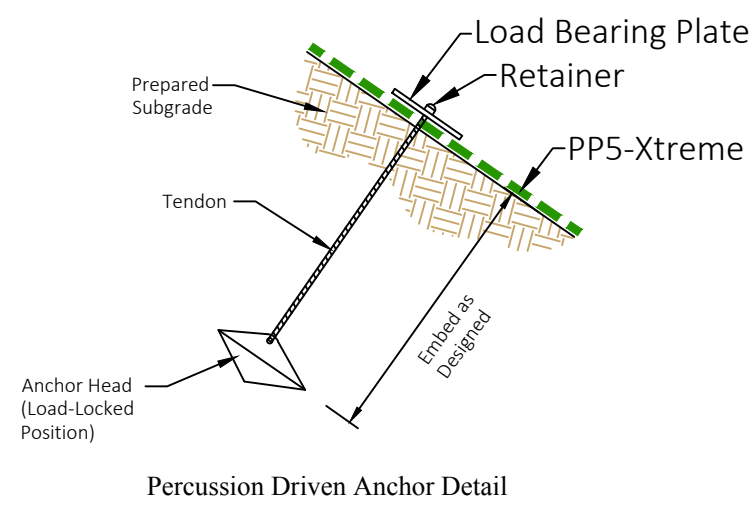
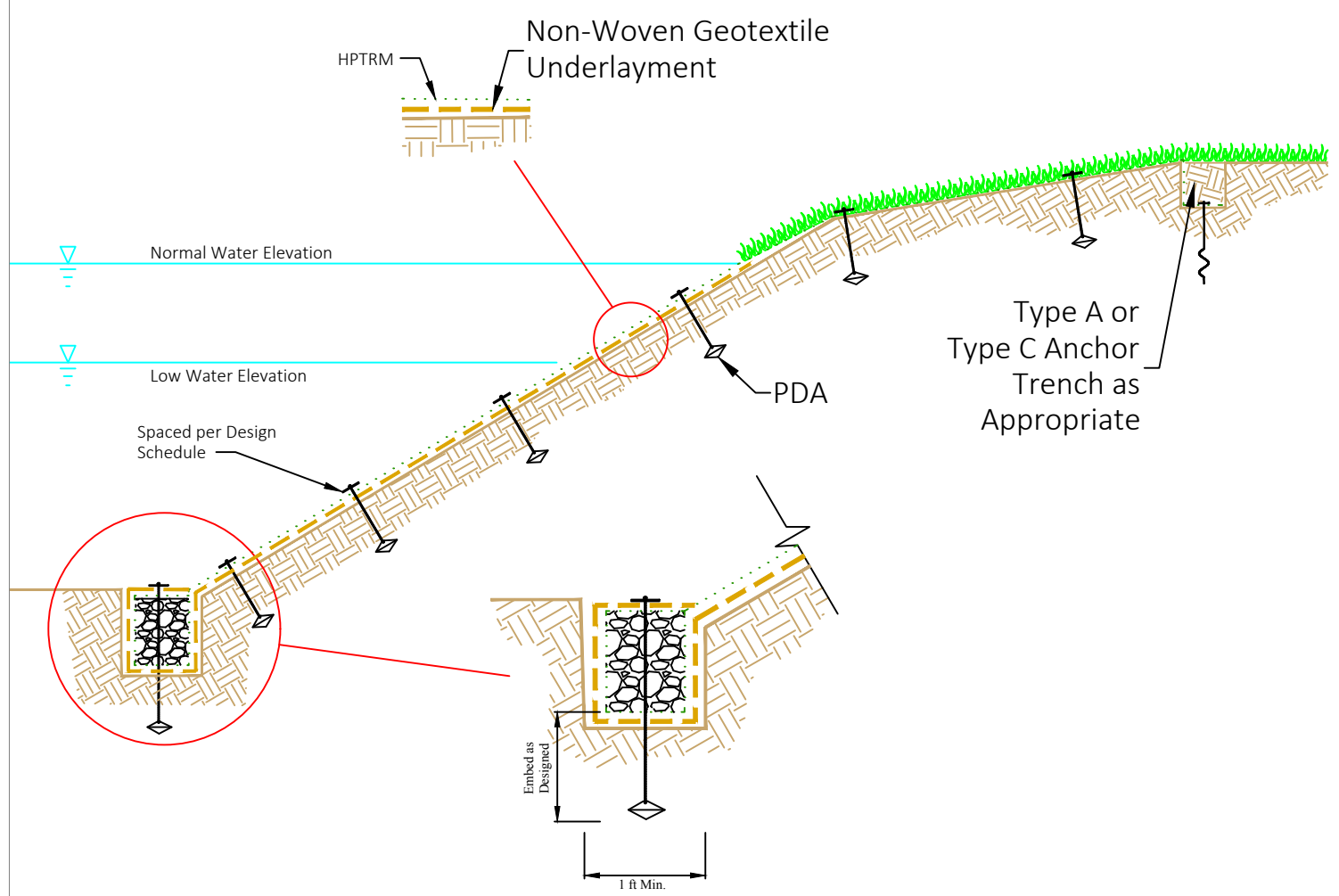
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GRADING AND DRAINAGE SECTIONS
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GLADIATOR LAKE
DRAINAGE ENHANCEMENTS

PROJECT NO.
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Cross-Section View



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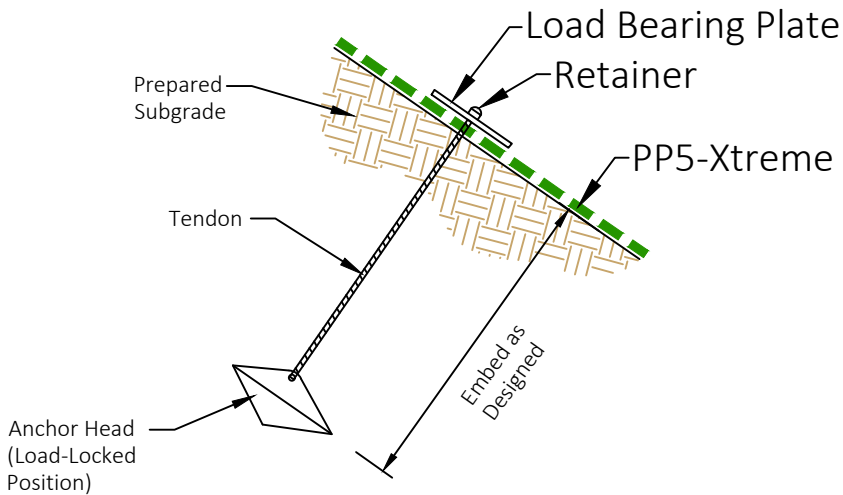
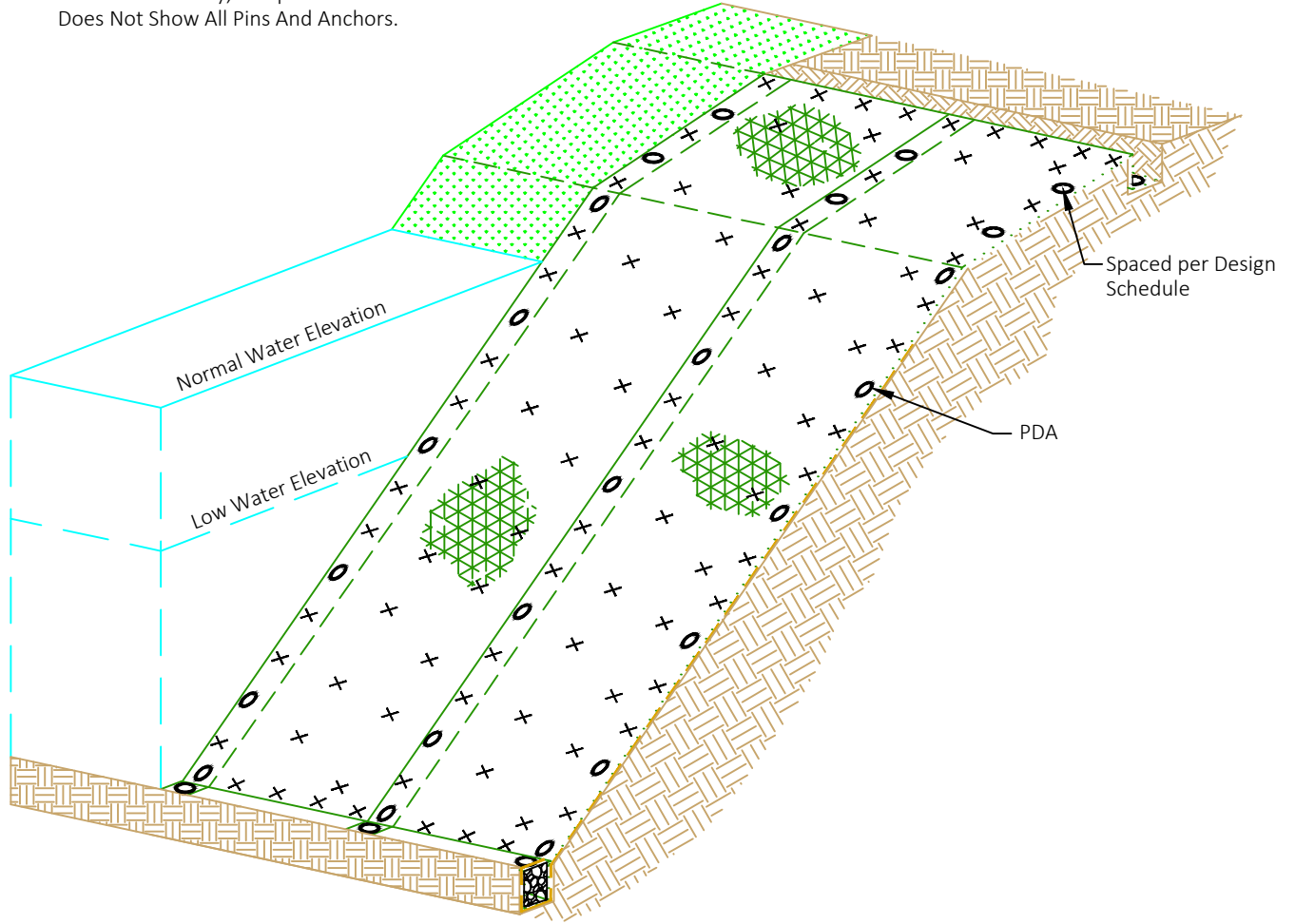
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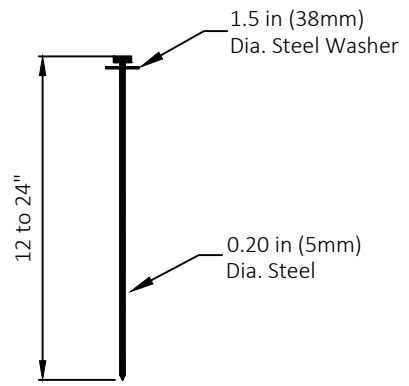
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CHECKED BY:	GLADIATOR LAKE DRAINAGE ENHANCEMENTS
APPROVED BY:	C-49 SHEET OF

Perspective View

* Note: For Clarity, Perspective View Does Not Show All Pins And Anchors.



Percussion Driven Anchor Detail



Steel Pin Detail

TURF REINFORCEMENT MAT DETAILS

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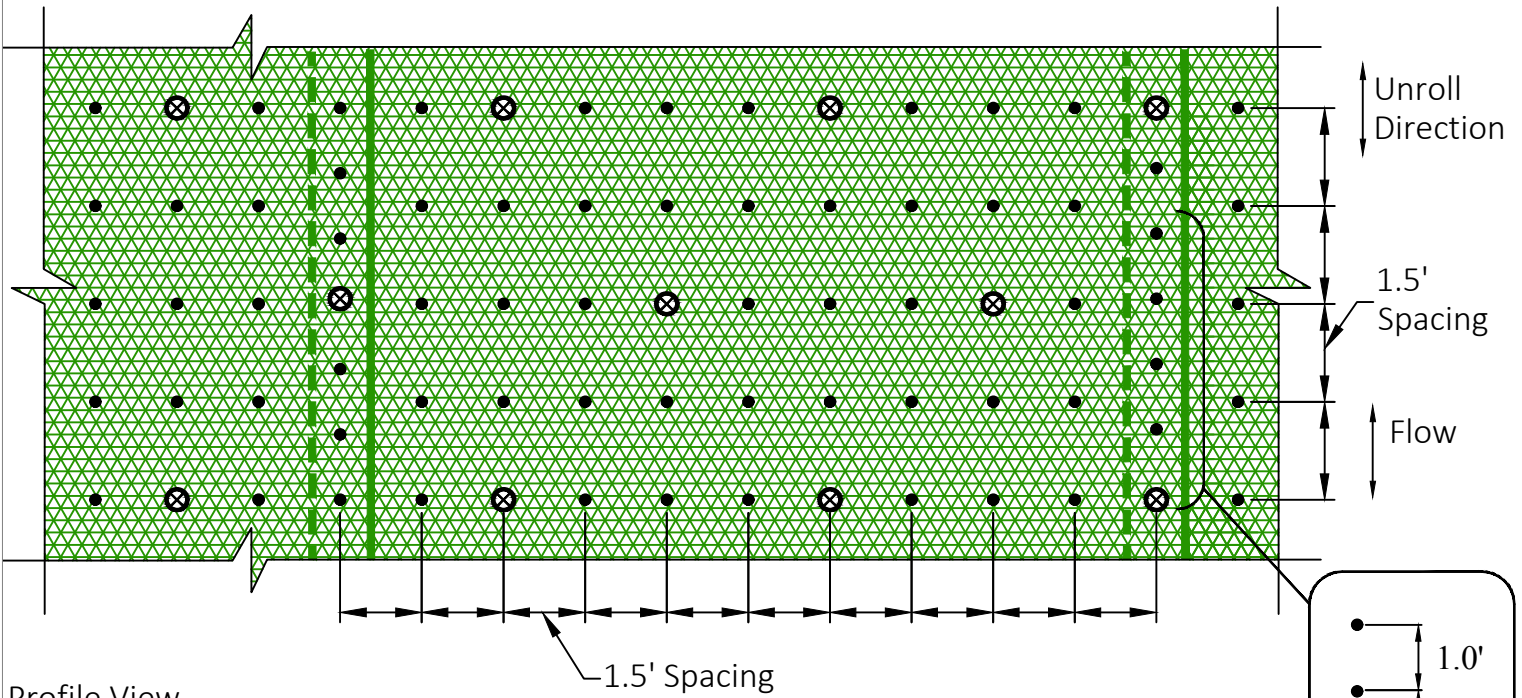
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PREPARED FOR:	CITY OF GREENACRES
GLADIATOR LAKE	
DRAINAGE ENHANCEMENTS	
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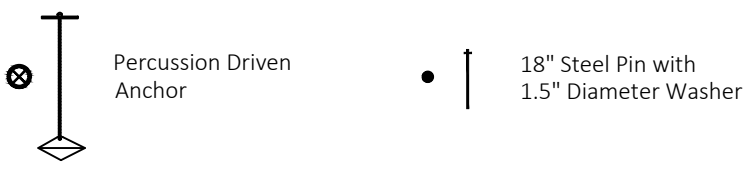
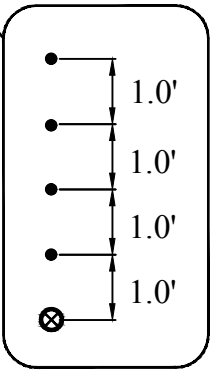
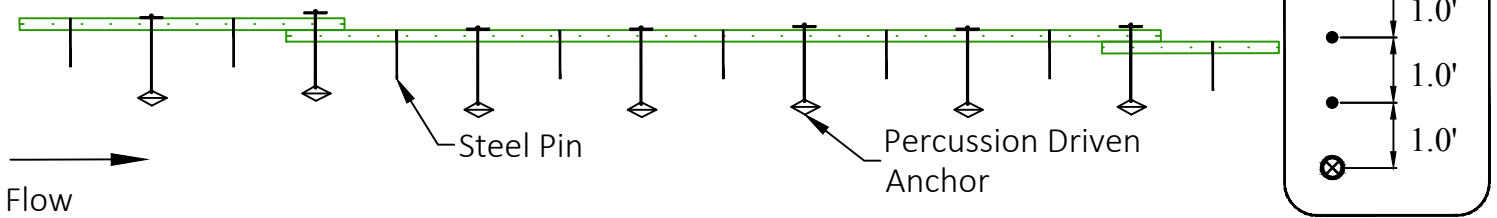
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Plan View



Profile View



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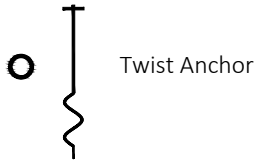
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Twist Anchor



Percussion Driven Anchor



Steel Pin with
1.5" Diameter Washer

- ⊗ Percussion Driven Anchor
- ⊙ Twist Anchor
- × Steel Pin



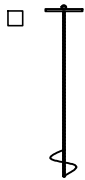
Percussion Driven Anchor



Twist Anchor



Steel Pin with
1.5" Diameter Washer



Rock Anchor

TURF REINFORCEMENT MAT DETAILS

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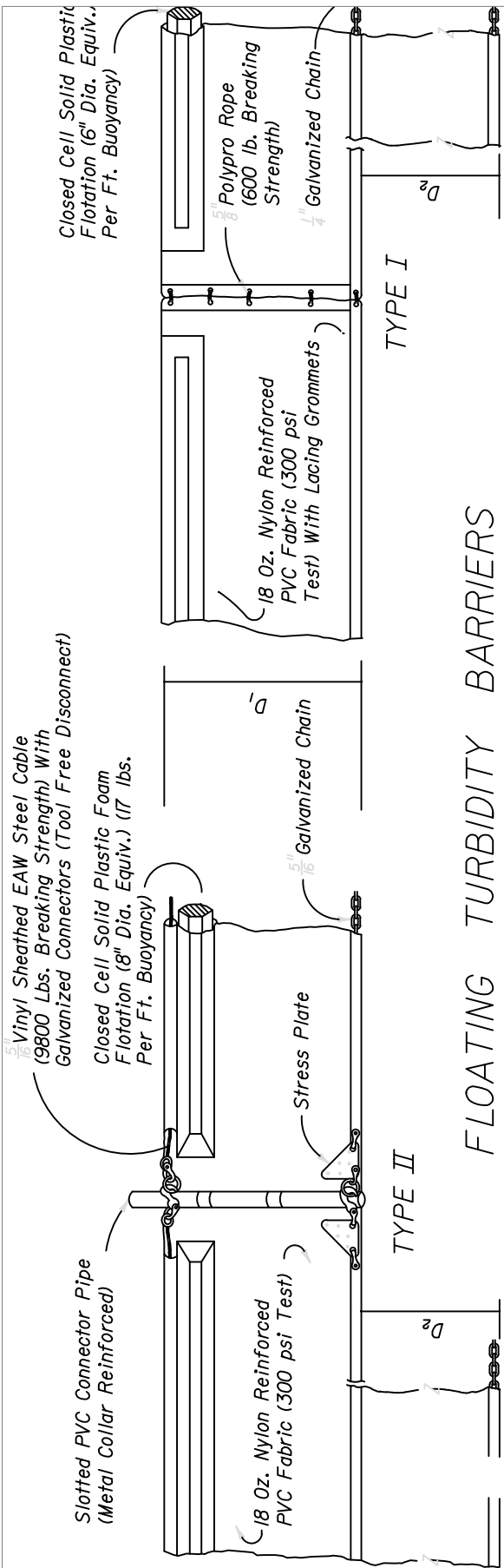
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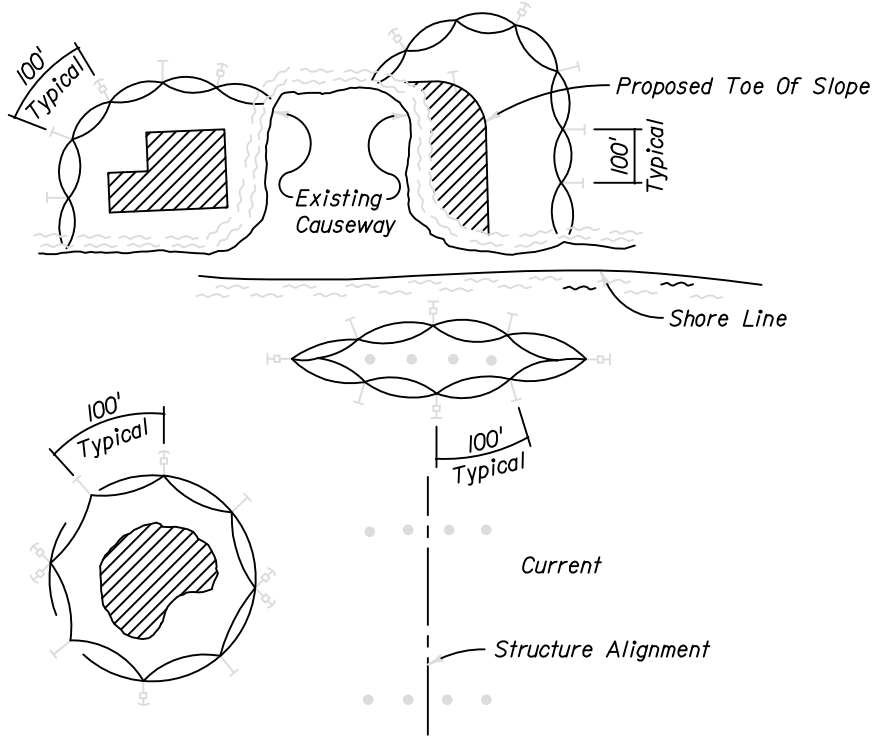
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FLOATING TURBIDITY BARRIERS



$D_1 = 5'$ Std. (Single Panel For Depths 5' or Less).
 $D_2 = 5'$ Std. (Additional Panel For Depths 5').
 Curtain To Reach Bottom Up To Depths Of 10 Feet.
 Two(2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

- NOTES:**
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.
 5. For additional information see Section 104 of the Standard Specifications.

TURBIDITY BARRIER DETAIL
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	SCALE: _____	PREPARED FOR: CITY OF GREENACRES	17-0052
	DESIGN BY: _____	GLADIATOR LAKE DRAINAGE ENHANCEMENTS	C-53
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