

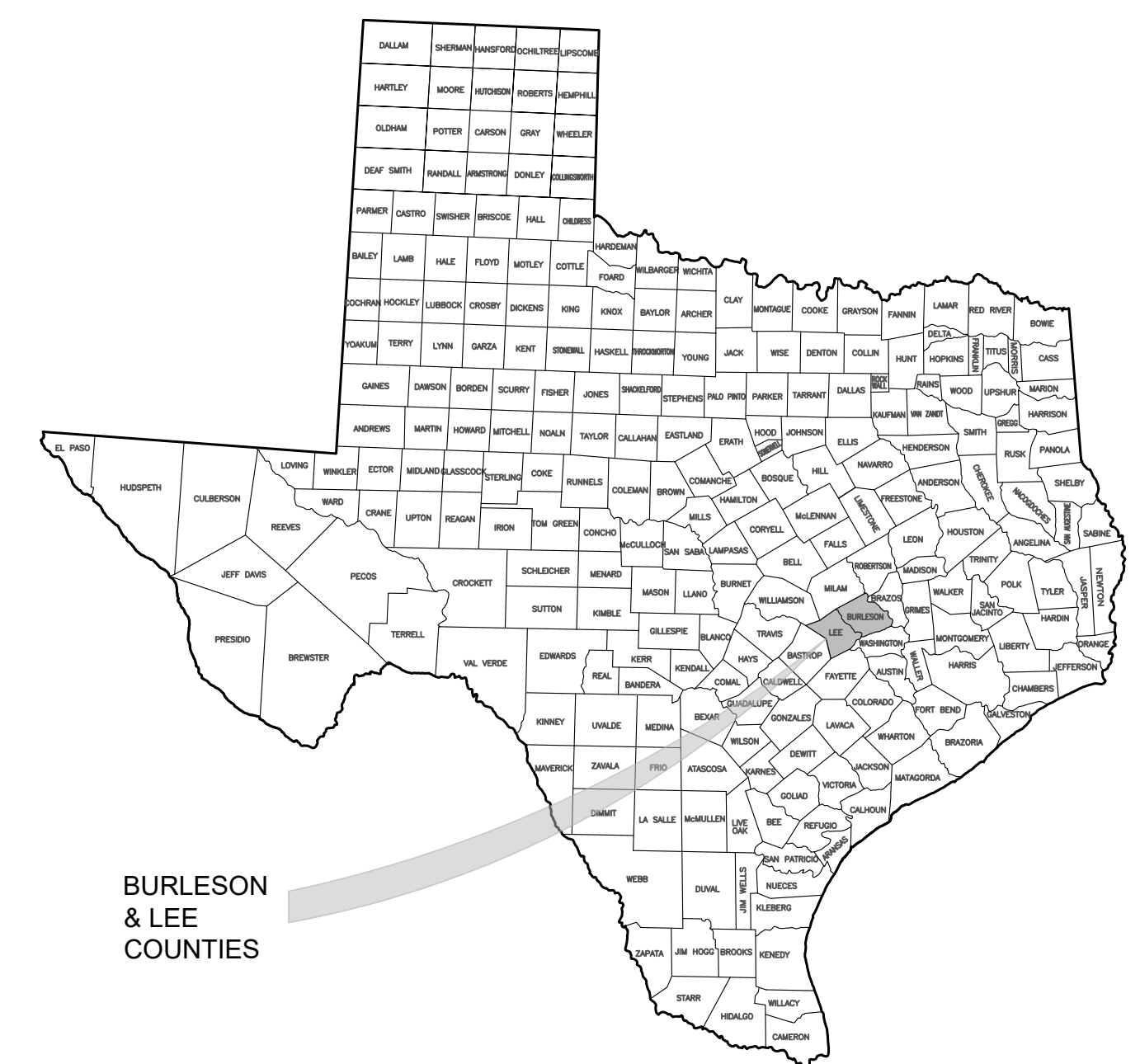
PROJECT

LAKE SOMERVILLE PARK & TRAILWAY BRIDGE REPLACEMENTS

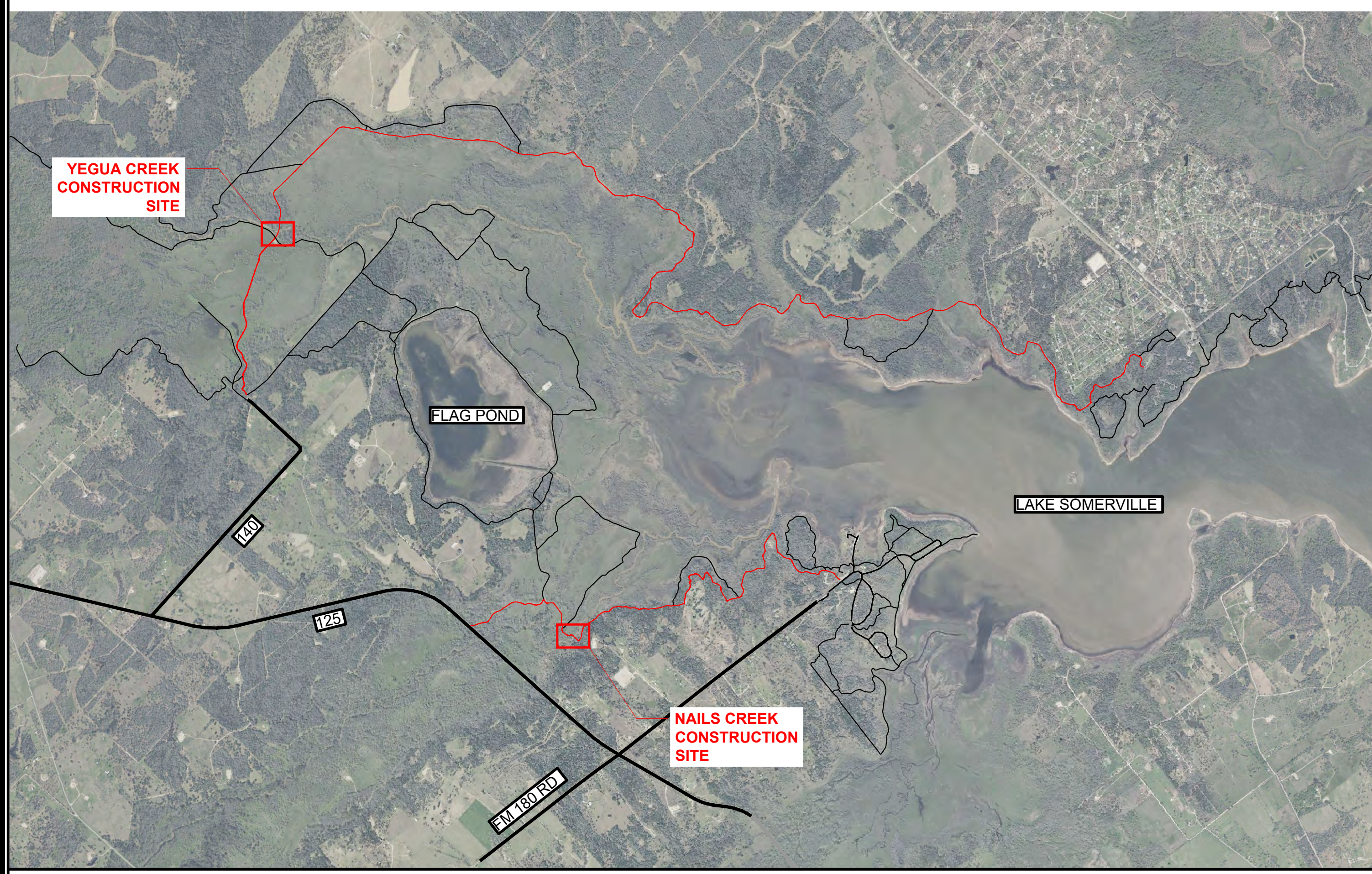
PROJECT NO: 1211815 DATE: 02/06/2026

INDEX OF DRAWINGS

SHT NO.	DESCRIPTION		
GENERAL			
G-01	COVER SHEET	C-29	BORROW SITE - PROPOSED PLAN & PROFILE SHEET 3 OF 4
G-02	OVERALL SITE LOCATIONS	C-30	BORROW SITE - PROPOSED PLAN & PROFILE SHEET 4 OF 4
G-03	NAILS CREEK CONSTRUCTION SITE	C-31	BORROW SITE - PROPOSED CROSS SECTIONS
G-04	YEGUA CREEK CONSTRUCTION SITE		
G-05	ADDITIONAL CONTRACTOR LAYDOWN AREAS		
G-06	SURVEY AND CONTROL - NAILS CREEK		
G-07	SURVEY AND CONTROL - YEGUA CREEK		
STRUCTURAL			
S1	STRUCTURAL NAILS CREEK PLAN & PROFILE		
S2	STRUCTURAL YEGUA CREEK PLAN & PROFILE		
S3	STRUCTURAL BRIDGE ABUTMENT DETAILS		
S4	STRUCTURAL ABUTMENT PLAN & BRIDGE SECTIONS		
S5	STRUCTURAL NOTES		
CIVIL			
C-01	GENERAL CIVIL NOTES		
C-02	SWPPP PLANS NAILS & YEGUA CREEKS		
C-03	SWPPP DETAILS		
C-04	TREE PROTECTION DETAILS		
C-05	DEMOLITION PLANS-NAILS CREEK		
C-06	DEMOLITION PLANS-YEGUA CREEK		
C-07	NAILS CREEK OVERALL VIEW		
C-08	CIVIL PLAN & PROFILE - NAILS CREEK		
C-09	NAILS CREEK BANK STABILIZATION PLAN		
C-10	NAILS CREEK CROSS SECTION SHEET 1 OF 3		
C-11	NAILS CREEK CROSS SECTION SHEET 2 OF 3		
C-12	NAILS CREEK CROSS SECTION SHEET 3 OF 3		
C-13	YEGUA CREEK OVERALL VIEW		
C-14	CIVIL PLAN & PROFILE - YEGUA CREEK		
C-15	YEGUA CREEK BANK STABILIZATION PLAN		
C-16	YEGUA CREEK CROSS SECTION SHEET 1 OF 3		
C-17	YEGUA CREEK CROSS SECTION SHEET 2 OF 3		
C-18	YEGUA CREEK CROSS SECTION SHEET 3 OF 3		
C-19	CREEK STABILIZATION DETAILS		
C-20	BRIDGE APPROACH DETAILS SHEET 1 OF 2		
C-21	BRIDGE APPROACH DETAILS SHEET 2 OF 2		
C-22	BRIDGE APPROACH GABION WALL PROFILES		
C-23	GABION BASKET DETAILS		
C-24	TXDOT SIGN DETAILS		
C-25	BORROW SITE - EXISTING SITE PLAN		
C-26	BORROW SITE - SWPPP PLAN		
C-27	BORROW SITE - PROPOSED PLAN & PROFILE SHEET 1 OF 4		
C-28	BORROW SITE - PROPOSED PLAN & PROFILE SHEET 2 OF 4		

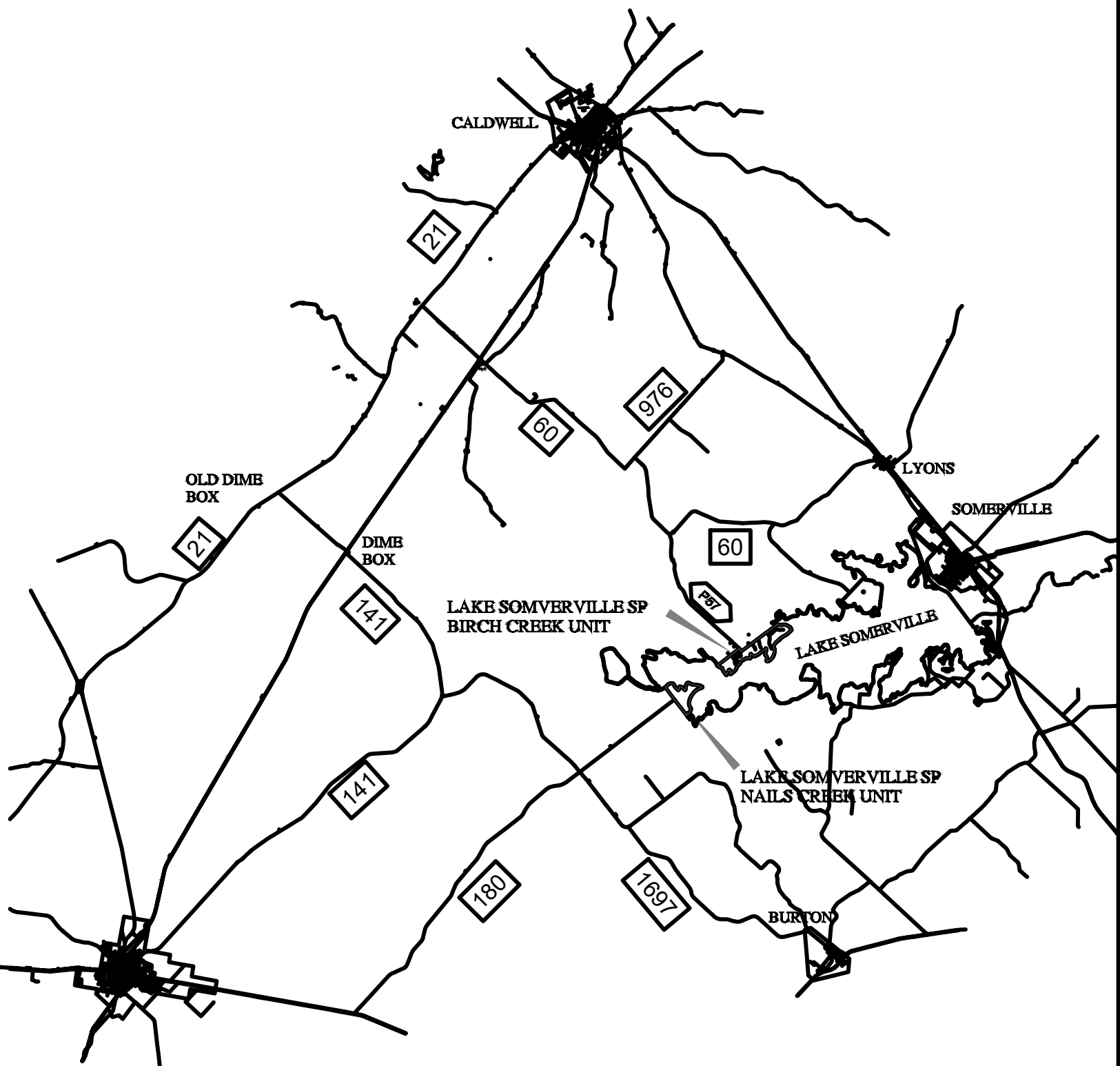


COUNTY LOCATION MAP
NOT TO SCALE



SITE LOCATION MAP
NOT TO SCALE

SITE ADDRESS:
LAKE SOMERVILLE STATE PARK & TRAILWAY
14222 PARK RD 57
SOMERVILLE, TX 77879



VICINITY MAP
NOT TO SCALE

DESIGN TEAM

CIVIL ENGINEERING

Scott Harris, PE
License: # 99261
Lockwood, Andrews & Newnam, Inc.
Firm Reg.: #F-2614
500 N. Shoreline Blvd., Suite 905
Corpus Christi, Texas, 78401.
361-792-7225
SMHarris@lan-inc.com

STRUCTURAL ENGINEERING

Frank Lam, PE
License: # 51594
Frank Lam & Associates Inc.
Firm Reg.: #F-2545
508 W 16th Street,
Austin, Texas, 78701
512-476-2717
franklam@franklaminc.com

GEOTECHNICAL ENGINEERING *

Mostafa Bahmani, Ph.D., P.E.
License: # 145328
Alpha Testing, LLC, a UFS Company
TBPELS # 813 / TBPG # 50341.
2324 Ridgpoint Drive, Suite E,
Austin, Texas 78754
281-469-3347
agoudarzi@rinerengineering.com

SURVEY *

Rex L. Hackett, RPLS
RPLS License: # 5573
QUIDDITY
Firm License: #10046100
3100 Alvin Devane Blvd., Suite 150
Austin, Texas, 78741
512-441-9493

* THE GEOTECHNICAL ENGINEER AND SURVEYOR ARE SEPARATE CONSULTANTS WITH CONTRACTS DIRECTLY WITH THE TPWD. LOCKWOOD, ANDREWS AND NEWNAM, INC. TAKES NO RESPONSIBILITY FOR THESE CONSULTANT'S SERVICES

DESIGN STANDARDS SUMMARY

1. US FOREST SERVICE EQUESTRIAN DESIGN GUIDEBOOK
2. TEXAS PARKS & WILDLIFE DEPARTMENT, DESIGN STANDARDS FOR ROADS & PARKING, REV. SEP. 2008
3. TXDOT BRIDGE DETAILING GUIDE, APRIL 2022
4. TXDOT GEOTECHNICAL MANUAL, MARCH 2018
5. TXDOT MEMORANDUM - BRIDGE & ROAD RECONSTRUCTION FOR TPWD
6. AASHTO, LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION, 2015.
7. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020.
8. AISC, STEEL CONSTRUCTION MANUAL, 15TH EDITION, 2017.
9. AMERICAN WELDING SOCIETY (AWS), STRUCTURAL WELDING CODE, D1.5, 2015.
10. ASCE/SEI 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2010.
11. ANS/AWC NDC-2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015.
12. IN ACCORDANCE WITH APPLICABLE ASTM AND TXDOT STANDARD DETAILS AND SPECIFICATIONS

SCOPE OF WORK

THIS PROJECT WILL REMOVE THE REMANANTS OF THE EXISTING WOODEN BRIDGES AND CONCRETE ABUTMENTS AT NAILS CREEK AND YEGUA CREEK AND REPLACE WITH NEW STRUCTURAL STEEL BRIDGES WITH CONCRETE FOUNDATIONS, AND PROVIDE NEW BRIDGE APPROACHES. THE PROJECT INCLUDES PARTIAL CREEK BANK RESTORATION IMMEDIATELY UP AND DOWN STREAM OF THE PROPOSED BRIDGES WITH LIMITED RIPRAP STABILIZATION AT ABUTMENTS.



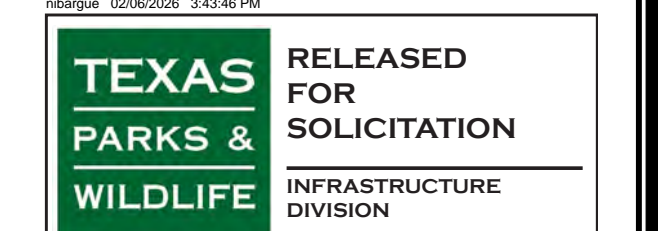
TEXAS PARKS AND WILDLIFE INFRASTRUCTURE DIVISION

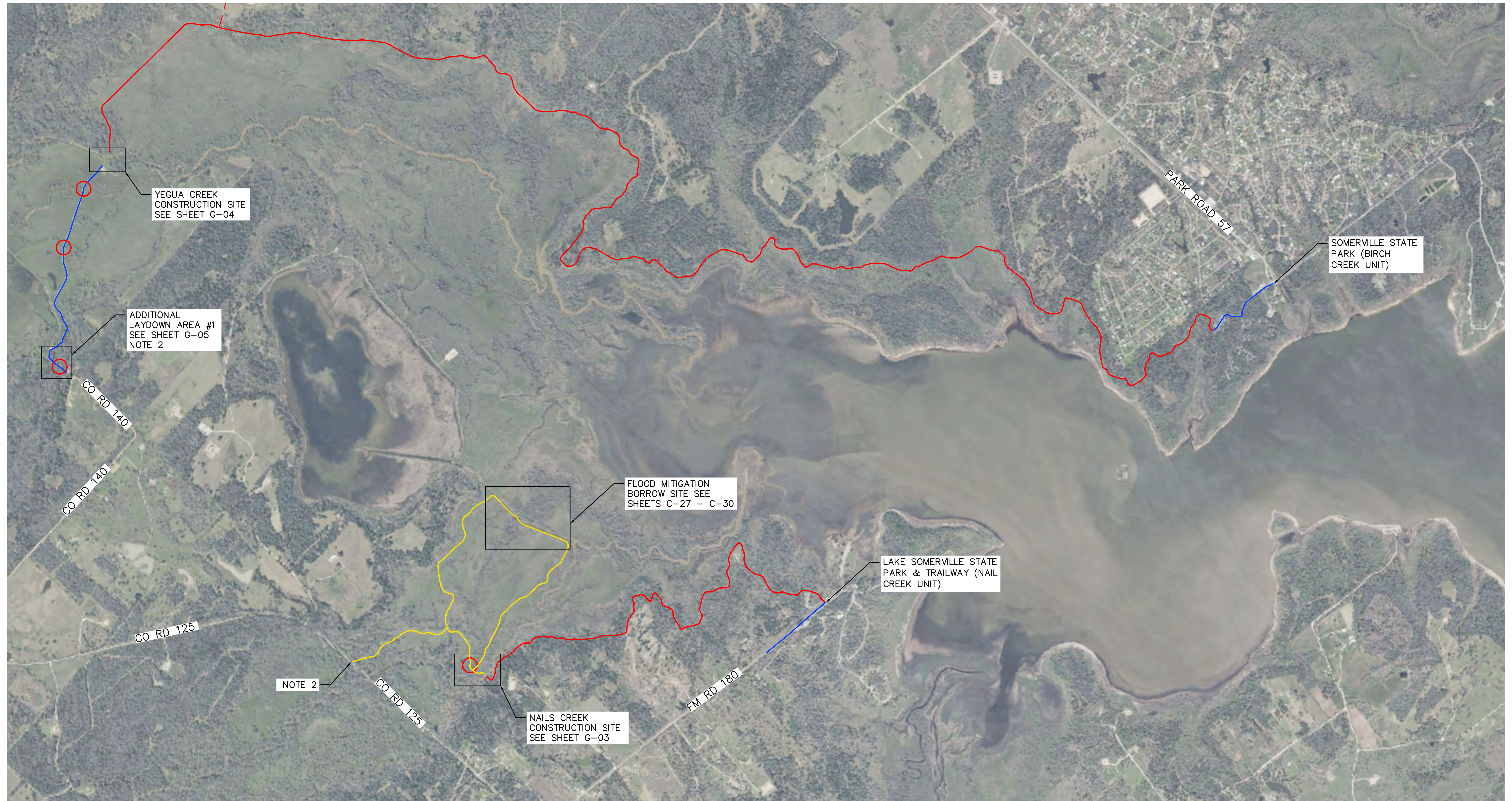
4200 SMITH SCHOOL ROAD AUSTIN, TEXAS 78744-3292

TDLR WB #: TABS2026009232



REVISION		
NO.	DATE	REVISION
0	02/06/26	IFB SUBMITTAL



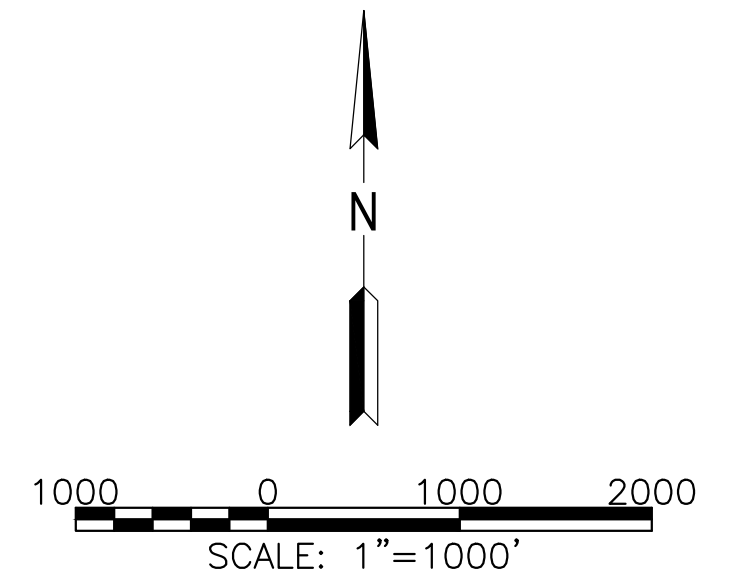


LEGEND

	SITE ACCESS - PARK ROAD
	SITE ACCESS - PARK ACCESS ROUTE - LIMITED CONSTRUCTION ACCESS
	SITE ACCESS - PARK TRAIL - RESTRICTED CONSTRUCTION ACCESS (ATV AND SMALL EQUIPMENT ONLY)
	EXISTING CULVERT CROSSING (NOTE 1)

NOTE

1. CONTRACTOR SHALL LOCATE ALL EXISTING PIPE CULVERTS CROSSING ALONG ALL SITE ACCESS ROUTES (I.E. PARK ROADS AND PARK TRAILS). ONE OR MORE OF THE EXISTING CULVERTS MAY BE PARTIALLY COLLAPSED. CONTRACTOR SHALL TAKE PRECONSTRUCTION PHOTOS OF EACH CULVERT AND SHALL COORDINATE WITH THE TPWD TO INSPECT EACH CULVERT TO DOCUMENT THE PRE-EXISTING CONDITIONS OF EACH CULVERT. CONTRACTOR SHALL PROVIDE TEMPORARY MEASURES (EX., STEEL PLATES, TIMBER MATS, ETC.) TO PROTECT THE EXISTING CULVERTS FROM DAMAGE OR FURTHER DAMAGE. PROPOSED TEMPORARY PROTECTIVE MEASURES SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE BY THE TPWD AND ENGINEER. PROPOSED TEMPORARY PROTECTIVE MEASURES SHALL ALLOW PARK VISITORS TO SAFELY CROSS WHEN HIKING, BIKING, AND ON HORSEBACK, AND SHALL ALSO ALLOW TPWD MAINTENANCE TRUCK AND EQUIPMENT TO SAFELY CROSS.
2. CONTRACTOR SHALL COORDINATE WITH THE TPWD TO GAIN ACCESS TO LOCKED GATES. CONTRACTOR SHALL ENSURE THAT ALL GATES ARE LOCKED AT ALL TIMES TO PREVENT UNAUTHORIZED ENTRY.
3. ACCESS TO THE CONSTRUCTION SITE IS RESTRICTED. CONTRACTORS SHALL THOROUGHLY EXAMINE ALL DOCUMENTS AND CONDUCT A SITE INSPECTION AS NECESSARY PRIOR TO SUBMITTING BIDS. CONTRACTOR SHOULD VISIT BRIDGE LOCATIONS TO ASSESS ROAD AND TRAIL CONDITIONS FOR ACCESS. ATTENDING THE PRE-BID IS HIGHLY RECOMMENDED.



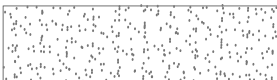
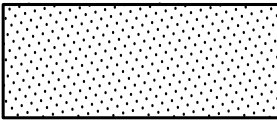
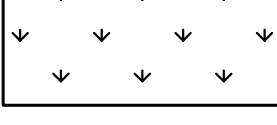




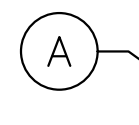
DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0 - FB SUBMITTAL
(02/06/2026)

SHEET TITLE
**OVERALL SITE
LOCATIONS**

SHEET NUMBER

G-02

LEGEND

-  EXISTING PARK TRAILS
-  CONSTRUCTION LAYDOWN AREA (NOTE 2)
-  WETLANDS (SEE NOTE 13)
-  EXISTING TREE (SEE TABLE 2)
-  EXISTING GRADE CONTOUR LINE
-  CONSTRUCTION LIMITS
-  CONSTRUCTION SITE ACCESS AND SHARED PARK TRAIL (NOTE 4)
-  CONSTRUCTION LIMITS COORDINATE

NOTE

1. CONTRACTOR SHALL FIELD COORDINATE WITH THE TPWD TO ADJUST THE CONSTRUCTION LIMITS. CONTRACTOR SHALL NOT DISTURB ANY AREAS, NOR TRIM OR CUT ANY TREES, BRANCHES, BRUSH, ETC. WITHOUT APPROVAL FROM THE TPWD.
2. CONTRACTOR SHALL FIELD COORDINATE WITH THE TPWD ON THE LIMITS OF THE CONSTRUCTION LAYDOWN AREA.
3. CONTRACTOR SHALL INSTALL TEMPORARY CHAIN LINK FENCING ALONG THE CONSTRUCTION LIMITS NEXT TO TRAILWAYS THAT REMAIN OPEN TO THE PUBLIC TO PREVENT THE PUBLIC FROM ENTERING THE CONSTRUCTION AREA.
4. WHEN TRAVELING ON SHARED PARK TRAILS, CONTRACTOR SHALL MAINTAIN A SPEED LIMIT LESS THAN 10 MPH, AND SHALL PROVIDE AN ESCORT VEHICLE IN FRONT OF LARGE CONSTRUCTION EQUIPMENT TO WARN AND DIRECT PARK VISITOR TRAFFIC USING THE TRAILS. CONTRACTOR SHALL ALSO TAKE EXTRA CARE TO MINIMIZE NOISE AND OTHER ACTIONS THAT MIGHT SCARE EQUESTRIAN RIDERS.
5. SEE TABLE 1 FOR COORDINATES FOR THE CONSTRUCTION LIMITS CORNERS.
6. CONTRACTOR SHALL PROVIDE TREE PROTECTION AS INDICATED IN TABLE 2 TO PROTECT TREES LOCATED WITHIN THE CONSTRUCTION LIMITS. SEE SHEET C-04 FOR TREE PROTECTION DETAILS, AND SHEET G-06 AND G-07 FOR TREE NUMBER LOCATIONS.
7. PROVIDE SINGLE TREE PROTECTION FENCE AROUND THE CLOSELY GROUPED TREES (TREE #2017 TO 2020).
8. PROVIDE SINGLE TREE PROTECTION FENCE AROUND THE CLOSELY GROUPED TREES (TREE #2023 TO 2024).
9. PROVIDE SINGLE TREE PROTECTION FENCE AROUND THE CLOSELY GROUPED TREES (TREE #2062 TO 2067).
10. REMOVE AND DISPOSE OF TREE NO. 2192 AND 2193, INCLUDING TREE ROOTS THAT CONFLICT WITH PROPOSED GABION BASKET SYSTEM FOR BRIDGE APPROACH.
11. CONTRACTOR SHALL TEMPORARILY REMOVE TREE PROTECTION FENCING ONLY WHEN NECESSARY TO WORK UNDER TREE CANOPY AND NEXT TO TREE TRUNK. CONTRACTOR SHALL PERFORM THE WORK BY HAND AND/OR WITH SMALL EQUIPMENT WHEN WORKING UNDER THE TREE CANOPY. CONTRACTOR SHALL RESTORE THE TREE PROTECTION FENCING WHEN NOT WORKING UNDER THE TREE CANOPY. SEE TREE PRESERVATION NOTES ON C-04 FOR ADDITIONAL REQUIREMENTS.
12. IF CONTRACTOR REQUESTS TO EXPAND THE CONSTRUCTION LIMITS AND THE TPWD APPROVES, CONTRACTOR SHALL PROVIDE MINIMUM OF TYPE 1 TREE PROTECTION (AND TYPE 3 TREE PROTECTION IF CONTRACTOR WILL ENCROACH WITHIN THE CRITICAL ROOT ZONE) ON ALL ADDITIONAL TREES THAT FALL WITHIN THE REVISED CONSTRUCTION LIMITS.
13. EXISTING WETLANDS SHALL NOT BE DISTURBED. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THE EXISTING WETLAND.

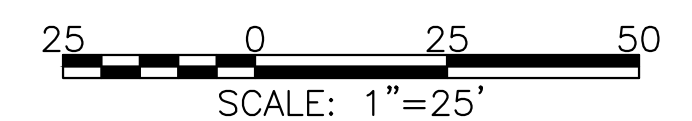
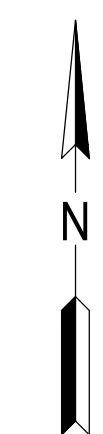


TABLE 2 – TREE LIST

TAG NO.	TREE CALIPER (INCHES)	DESCRIPTION	TREE PROTECTION TYPE
2017	11	TWIN CHINESE ELM (6",8")	
2018	12	CHINESE ELM	
2019	13	TWIN CHINESE ELM (6",10")	
2020	7	CHINESE ELM	
2021	18	TWIN CHINESE ELM (12",12")	
2022	6	CHINESE ELM	
2023	9	CHINESE ELM	
2024	9	CHINESE ELM	
2062	14	MULTI-STEM CHINESE ELM (8",7",6")	
2063	9	MULTI-STEM CHINESE ELM (5",5",4")	
2064	10	TWIN CHINESE ELM (8",4")	
2065	13	TWIN CHINESE ELM (9",8")	

TAG NO.	TREE CALIPER (INCHES)	DESCRIPTION	TREE PROTECTION TYPE
2066	5	CHINESE ELM	
2067	9	TWIN CHINESE ELM (6",6")	
2068	9	TWIN CHINESE ELM (7",5")	1
2069	9	ASH	2,3
2070	4	ASH	2,3
2071	8	ASH	2
2192	6	PECAN	
2193	12	MULTI-STEM CEDAR ELM (8",4",4")	
2202	9	CEDAR ELM	2,3
2203	5	CEDAR ELM	2,3
2204	6	CEDAR ELM	2,3
2205	6	CEDAR ELM	2,3
2206	9	LIVE OAK	2,3

TABLE 1 – CONSTRUCTION LIMITS

POINT	NORTHING	EASTING
A	10,087,554.97	3,446,556.25
B	10,087,749.59	3,446,724.94
C	10,087,555.21	3,446,984.27
D	10,087,353.48	3,446,951.65
E	10,087,353.48	3,446,699.93
F	10,087,467.94	3,446,542.67

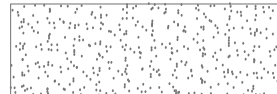

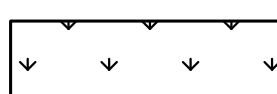








TABLE 1 - CONSTRUCTION LIMITS

POINT	NORTHING	EASTING
A	10,098,272.07	3,438,764.54
B	10,098,459.22	3,438,879.84
C	10,098,459.22	3,438,997.55
D	10,097,966.40	3,438,997.55
E	10,098,021.34	3,438,931.52
F	10,098,121.73	3,438,856.37
G	10,098,227.45	3,438,825.10

TABLE 2 - TREE LIST

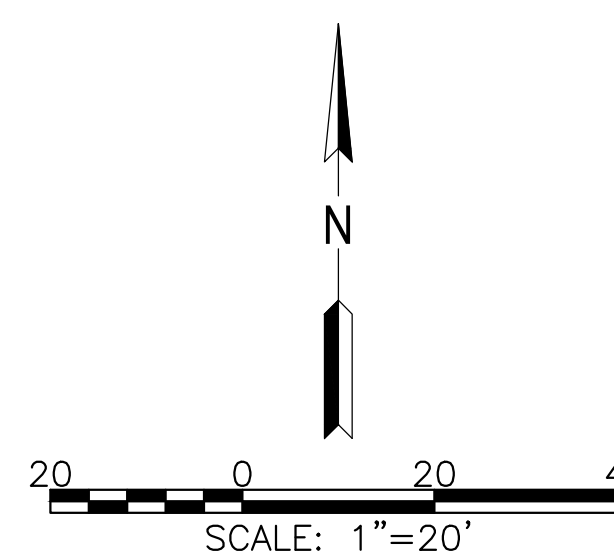
TAG NO.	TREE CALIPER (INCHES)	DESCRIPTION	TREE PROTECTION TYPE
1020	11"	TWIN CHINESE ELM (8",5")	2
1021	7"	TWIN PECAN (6",3")	2
1035	9"	CEDAR ELM	
1036	33"	LIVE OAK	
1037	14"	ASH LIVE OAK DEAD	
1038	26"	CEDAR ELM DEAD	2
1091	18"	CEDAR ELM	
1092	8"	CEDAR ELM	
1093	7"	TWIN CEDAR ELM (7",4")	
1094	9"	CEDAR ELM	
1095	9"	CEDAR ELM	
1096	6"	CEDAR ELM	
1097	9"	CEDAR ELM	
1098	8"	CEDAR ELM	
1099	9"	CEDAR ELM	
1100	5"	CEDAR ELM	
1101	12"	CEDAR ELM	
1102	9"	CEDAR ELM	
1103	7"	CEDAR ELM	
1104	14"	TWIN CHINESE ELM (12",7")	
1105	9"	ASH	2,3
1106	16"	ASH	2,3
1207	12"	CEDAR ELM	
1208	6"	CEDAR ELM	
1209	8"	CEDAR ELM	
1210	6"	CEDAR ELM	
1212	8"	CEDAR ELM	
1213	10"	CEDAR ELM	
1214	5"	CEDAR ELM	
1215	6"	CEDAR ELM	
1216	7"	CEDAR ELM	
1217	5"	CEDAR ELM	
1218	21"	ASH	
1219	9"	CEDAR ELM	
1220	15"	ASH	
1221	7"	CEDAR ELM	
1222	10"	CEDAR ELM	
1223	4"	CEDAR ELM	
1224	8"	CEDAR ELM	
1225	8"	CEDAR ELM	
1226	10"	CEDAR ELM	2
1227	7"	TWIN CHINESE ELM (5",4")	2,3
1241	12"	PECAN	2,3
1244	29"	CEDAR ELM	2,3
1245	20"	CEDAR ELM	2,3

LEGEND

-  EXISTING PARK TRAIL OR P ARK ROAD
-  CONSTRUCTION LAYDOWN AREA (NOTE 2)
-  WETLANDS
-  EXISTING PUBLIC PARKING LOT (NOTE 7)
-  EXISTING TREE (SEE TABLE 2)
-  EXISTING GRADE CONTOUR LINE
-  PARK ROAD
-  CONSTRUCTION LIMITS
-  CONSTRUCTION SITE ACCESS AND SHARED PARK TRAIL (NOTE 4)
-  PARK TRAIL - NO CONSTRUCTION ACCESS
-  CONSTRUCTION LIMITS COORDINATE

NOTE

1. CONTRACTOR SHALL FIELD COORDINATE WITH THE TPWD TO ADJUST THE CONSTRUCTION LIMITS. CONTRACTOR SHALL NOT DISTURB ANY AREAS, NOR TRIM OR CUT ANY TREES, BRANCHES, BRUSH, ETC. WITHOUT APPROVAL FROM THE TPWD.
2. CONTRACTOR SHALL FIELD COORDINATE WITH THE TPWD ON THE LIMITS OF THE CONSTRUCTION LAYDOWN AREA.
3. CONTRACTOR SHALL INSTALL TEMPORARY CHAIN LINK FENCING ALONG THE CONSTRUCTION LIMITS NEXT TO TRAILWAYS THAT REMAIN OPEN TO THE PUBLIC TO PREVENT THE PUBLIC FROM ENTERING THE CONSTRUCTION AREA.
4. WHEN TRAVELING ON SHARED PARK TRAILS, CONTRACTOR SHALL MAINTAIN A SPEED LIMIT LESS THAN 10 MPH, AND SHALL PROVIDE AN ESCORT VEHICLE IN FRONT OF LARGE CONSTRUCTION EQUIPMENT TO WARN AND DIRECT PARK VISITOR TRAFFIC USING THE TRAILS. CONTRACTOR SHALL ALSO TAKE EXTRA CARE TO MINIMIZE NOISE AND OTHER ACTIONS THAT MIGHT SCARE EQUESTRIAN RIDERS.
5. SEE TABLE 1 FOR COORDINATES FOR THE CONSTRUCTION LIMITS CORNERS.
6. CONTRACTOR SHALL PROVIDE TREE PROTECTION AS INDICATED IN TABLE 2 TO PROTECT TREES LOCATED WITHIN THE CONSTRUCTION LIMITS. SEE SHEET C-04 FOR TREE PROTECTION DETAILS, AND SHEET G-06 AND G-07 FOR TREE NUMBER LOCATIONS.
7. EXISTING PUBLIC PARKING LOT SHALL REMAIN OPEN TO THE PUBLIC AT ALL TIMES UNLESS APPROVED OTHERWISE BY THE TPWD. CONTRACTOR AND CONTRACTOR'S SUBCONTRACTORS AND DELIVERY DRIVERS SHALL NOT PARK IN THE PUBLIC PARKING LOT, NOR SHALL CONTRACTOR STAGE OR STORE ANY MATERIALS, EQUIPMENT, RESOURCES, ETC. IN THE PUBLIC PARKING LOT.
8. CONTRACTOR SHALL TEMPORARILY REMOVE TREE PROTECTION FENCING ONLY WHEN NECESSARY TO WORK UNDER TREE CANOPY AND NEXT TO TREE TRUNK. CONTRACTOR SHALL PERFORM THE WORK BY HAND AND/OR WITH SMALL EQUIPMENT WHEN WORKING UNDER THE TREE CANOPY. SEE TREE PRESERVATION NOTES ON C-04 FOR ADDITIONAL REQUIREMENTS.
9. IF CONTRACTOR REQUESTS TO EXPAND THE CONSTRUCTION LIMITS AND THE TPWD APPROVES, CONTRACTOR SHALL PROVIDE MINIMUM OF TYPE 1 TREE PROTECTION (AND TYPE 3 TREE PROTECTION IF CONTRACTOR WILL ENCR OACH WITH THE CRITICAL ROOT ZONE) ON ALL ADDITIONAL TREES THAT FALL WITHIN THE REVISED CONSTRUCTION LIMITS.





1 ADDITIONAL LAYDOWN AREA #1
SCALE: N.T.S

NOTE

1. CONTRACTOR SHALL FIELD COORDINATE ACCESS TO THE LAYDOWN AREA #1 WITH THE TWPD, INCLUDING REMOVAL OR PROTECTION OF ANY MATERIALS AND/OR EQUIPMENT THE TPWD HAS STORED IN THE LAYDOWN YARD. CONTRACTOR SHALL NOT DISTURB ANY AREAS, NOR TRIM OR CUT ANY TREES, BRANCHES, BRUSH, ETC. WITHOUT APPROVAL FROM THE TPWD.
2. CONTRACTOR SHALL NOT BLOCK PARK ROADS WHEN ENTERING OR EXITING WITHOUT APPROVAL BY THE TPWD. CONTRACTOR SHALL PROVIDE FLAGMEN TO DIRECT TRAFFIC ON THE PARK ROADS WHEN ENTERING AND EXITING WITH LARGE TRUCKS AND EQUIPMENT.
3. WHEN TRAVELING ON SHARED PARK TRAILS, CONTRACTOR SHALL MAINTAIN A SPEED LIMIT LESS THAN 10 MPH, AND SHALL PROVIDE AN ESCORT VEHICLE IN FRONT OF LARGE CONSTRUCTION EQUIPMENT TO WARN AND DIRECT PARK VISITOR TRAFFIC USING THE TRAILS. CONTRACTOR SHALL ALSO TAKE EXTRA CARE TO MINIMIZE NOISE AND OTHER ACTIONS THAT MIGHT SCARE EQUESTRIAN RIDERS.
4. SEE TABLE 1 FOR COORDINATES FOR THE CONSTRUCTION LAYDOWN CORNERS.
5. CONTRACTOR SHALL COMPLY WITH THE FOLLOWING ADDITIONAL REQUIREMENTS IF THEY ELECT TO USE THE ALTERNATE LAYDOWN AREAS.
 - A. LAYDOWN AREA #1 HAS AN EXISTING CHAIN LINK SECURITY FENCE AND GATE. CONTRACTOR SHALL COORDINATE WITH THE TPWD TO DOUBLE PAD LOCK THE GATE.
 - B. CONTRACTOR SHALL LOCK THE GATE WHENEVER THE CONTRACTOR IS NOT PRESENT TO PREVENT THE PUBLIC FROM ENTERING.
 - C. CONTRACTOR SHALL PROVIDE STORMWATER POLLUTION PREVENTION CONTROL DEVICES (EX., SILT FENCING, ETC.) IN LAYDOWN AREAS.
 - D. CONTRACTOR SHALL RESTORE THE LAYDOWN AREAS TO PRE-CONSTRUCTION OR BETTER CONDITIONS.
 - E. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR SAFETY AND SECURITY AT THE CONSTRUCTION SITES AND LAYDOWN AREAS.
6. CONTRACTOR SHALL COORDINATE WITH THE TPWD TO GAIN ACCESS TO LOCKED GATES. CONTRACTOR SHALL ENSURE THAT ALL GATES ARE LOCKED AT ALL TIMES TO PREVENT UNAUTHORIZED ENTRY UNLESS APPROVED OTHERWISE BY THE TPWD.

LEGEND

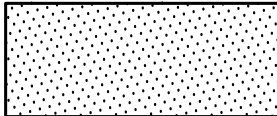






-  CONSTRUCTION LAYDOWN AREA
-  CONSTRUCTION SITE ACCESS AND SHARED PARK TRAIL
-  PARK TRAIL - NO CONSTRUCTION ACCESS
-  SITE ACCESS - PARK ROAD
-  SITE ACCESS - PARK TRAIL (NOTE 6)
-  TEMPORARY CONSTRUCTION ACCESS ROAD ON PRIVATE PROPERTY (NOTE 6)
-  CONSTRUCTION LIMITS COORDINATE

TABLE 1 - LAYDOWN YARD LIMITS

POINT	NORTHING	EASTING
A	10,093,905.20	3,438,167.82
B	10,094,011.98	3,438,279.79
C	10,093,911.37	3,438,373.74
D	10,093,833.88	3,438,214.96

LAKE SOMERVILLE TRAILWAY
TRAIL BRIDGE REPLACEMENTS
PROJECT NO. 1211815

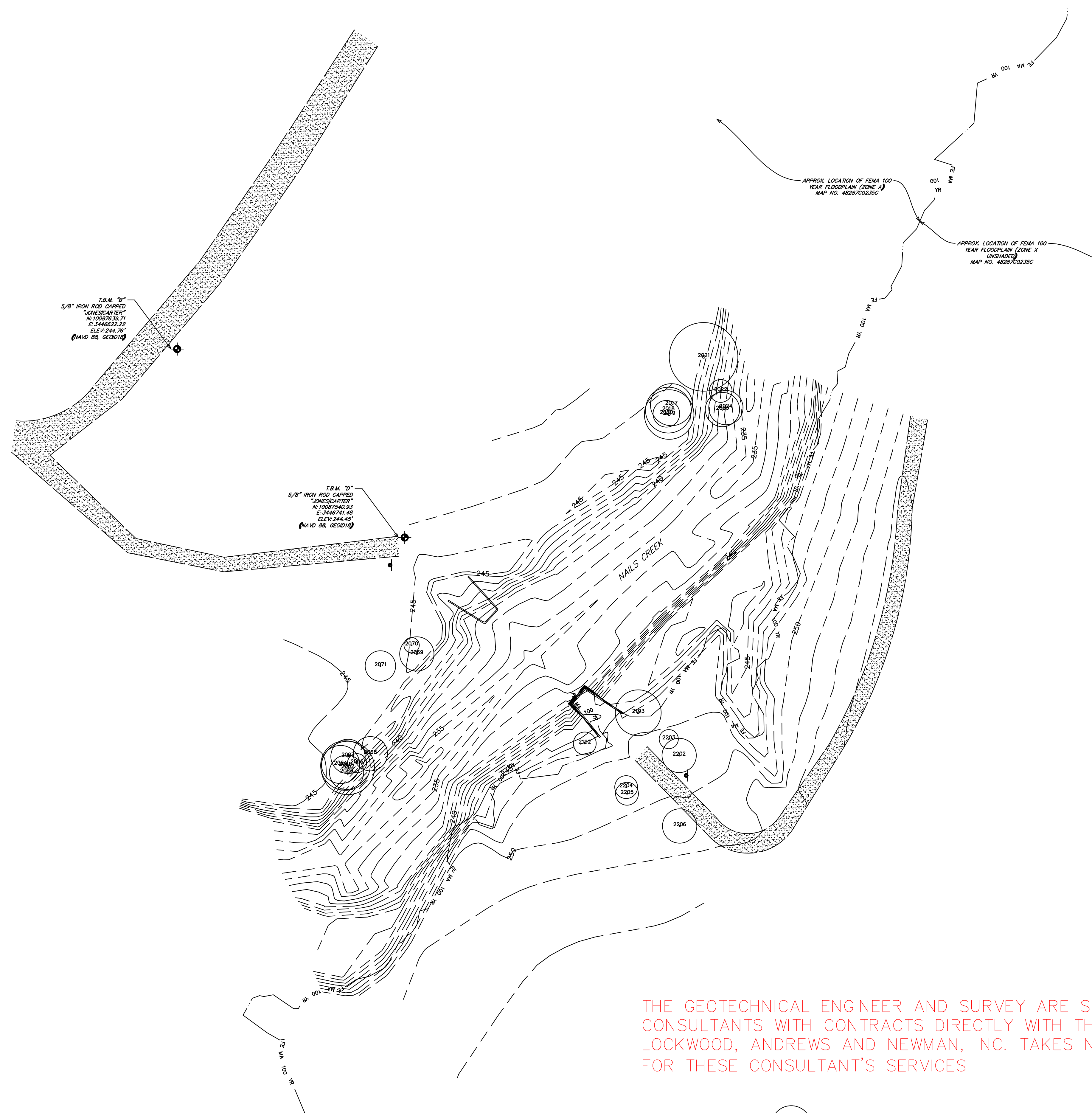
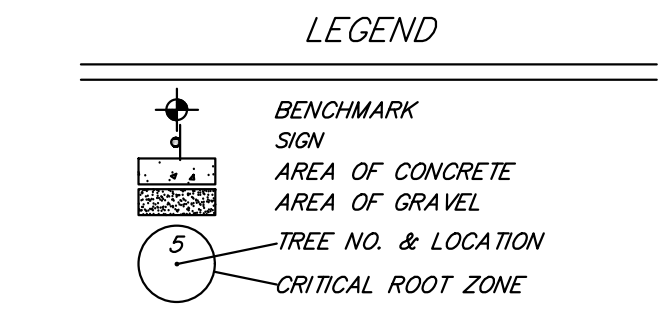
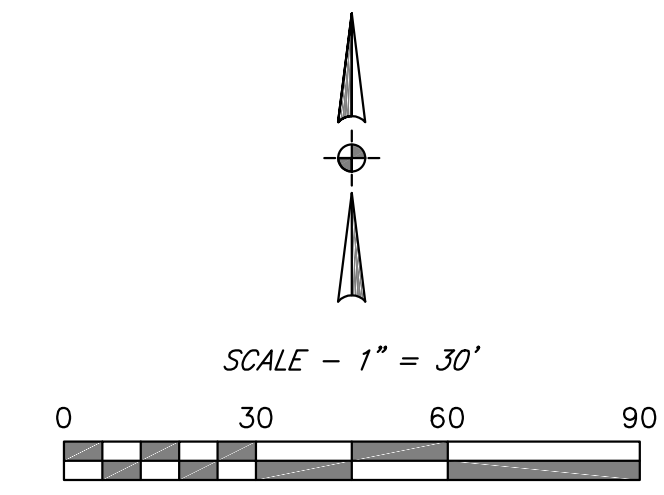
DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0 - FB SUBMITTAL
(02/06/2026)

SHEET TITLE
ADDITIONAL
CONTRACTOR
LAYDOWN
AREAS

SHEET NUMBER

G-05





NOTES:

The survey shown hereon has been prepared as the result of an on the ground survey completed on June 22, 2023.

The bearings shown hereon are referenced to the Texas Coordinate System of 1983, Central Zone.

The Surveyor has not abstracted the subject property, nor made any independent investigation or search for easements of record, restrictive covenants or any other encumbrances.

This is NOT a boundary survey. Any lines or other information representing the perimeter of the property are from public records or other sources and are not intended to be boundaries as defined by the Texas Board of Professional Land Surveying Professional & Technical Standards.

This survey was prepared without the benefit of a title commitment or report. The surveyor has not abstracted the subject property, nor made any independent investigation or search for easements of record, restrictive covenants or any other encumbrances.

By scaling the surveyed tract onto the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) No. 48287C0325C, revised date April 16, 2014, a portion of the subject area is in ZONE A, defined as special flood hazard areas subject to flooding by the 1% annual chance flood without base flood elevations determined, and a portion of the subject area is in ZONE X (unshaded), defined as areas determined to be outside the 0.2% annual chance floodplain. The Surveyor makes no representation as to the accuracy of said FIRM or that it is the most current published flood map.

The improvements shown hereon represent the outline at ground level. The Surveyor has not located any underground buildings, overhead protrusions or improvements not obvious and located at ground level, unless otherwise noted.

Surveyor has not identified any geological or environmental conditions in connection with the subject property and Surveyor fully disclaims any and all responsibility related to issues or claims related thereto or resulting there from.

The elevations (and/or contours) shown hereon are referenced to T.B.M. '21' (5/8" iron rod capped "JONES/CARTER", N:10087639.71 E:3446622.22, Elev:244.76', NAVD83, GEOID16) and were determined as a result of an OPUS computed coordinate from a static GPS observation completed on June 19, 2023.

SURVEYOR'S CERTIFICATION

To: The Lake Somerville State Park Nails Creek Unit:

This survey substantially complies with the current Texas Society of Professional Surveyors Standards and Specifications for a Category VI Condition II Survey.

Drawing Date: July 14, 2023.
Revised Date: September 13, 2023.

Rex L. Hackett
Registered Professional Land Surveyor No. 5573
3100 Alvin Devane Blvd. Ste 150, Austin, TX 78741
512-441-9493

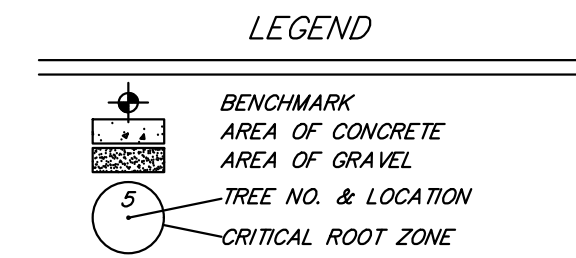
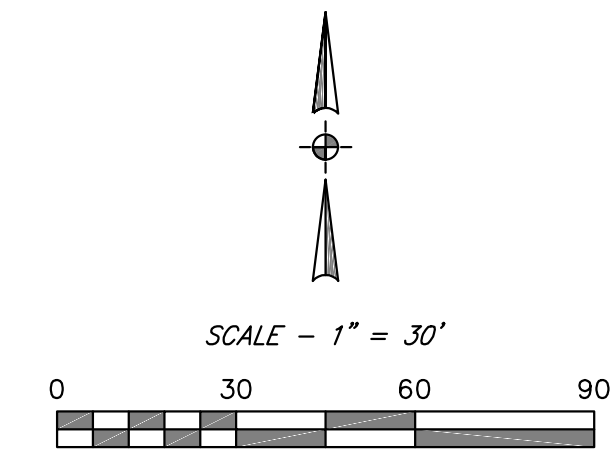


THE GEOTECHNICAL ENGINEER AND SURVEY ARE SEPARATE CONSULTANTS WITH CONTRACTS DIRECTLY WITH THE TPWD. LOCKWOOD, ANDREWS AND NEWMAN, INC. TAKES NO RESPONSIBILITY FOR THESE CONSULTANT'S SERVICES

1 NAILS CREEK SURVEY
SCALE: N.T.S

TOPOGRAPHIC
SURVEY
OF A PORTION OF
NAILS CREEK
IN THE
H. BEST SURVEY, A-2
LEE COUNTY, TEXAS
JULY 2023





NOTES:

The survey shown herein has been prepared as the result of an on the ground survey completed on June 22, 2023.

The bearings shown herein are referenced to the Texas Coordinate System of 1983, Central Zone.

The Surveyor has not abstracted the subject property, nor made any independent investigation or search for easements of record, restrictive covenants or any other encumbrances.

This is NOT a boundary survey. Any lines or other information representing the perimeter of the property are from public records or other sources and are not intended to be boundaries as defined by the Texas Board of Professional Land Surveying Professional & Technical Standards.

This survey was prepared without the benefit of a title commitment or report. The surveyor has not abstracted the subject property, nor made any independent investigation or search for easements of record, restrictive covenants or any other encumbrances.

By scaling the surveyed tract onto the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), Nos. 4828700325C, revised date April 16, 2014 and 4905100425C, revised date January 6, 2011, the subject area is in ZONE A, defined as special flood hazard area subject to flooding by the 1% annual chance flood without base flood elevations determined. The Surveyor makes no representation as to the accuracy of said FIRM or that it is the most current published flood map.

The improvements shown herein represent the outline at ground level. The Surveyor has not located any underground buildings, overhead projections or improvements not obvious and located at ground level, unless otherwise noted.

Surveyor has not identified any geological or environmental conditions in connection with the subject property and Surveyor fully disclaims any and all responsibility related to issues or claims related thereto or resulting there from.

The elevations (and/or contours) shown herein are referenced to T.B.M. "A" (5/8" iron rod capped "JONES/CARTER", N: 10098159.36, E: 3438811.15, Elev: 246.55', NAVD88, GEOD18) and were determined as a result of an OPUS computed coordinate from a static GPS observation completed on June 14, 2023.

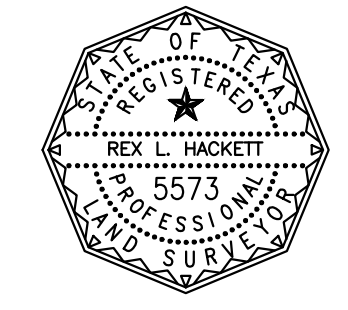
TAG NO.	DESCRIPTION
1020	11" Twin Chinese Elm (8',5")
1021	7" Twin Pecan (6',3")
1035	9" Cedar Elm
1036	33" Live Oak
1037	14" Ash
1038	26" Live Oak Dead
1091	18" Cedar Elm Dead
1092	8" Cedar Elm
1093	7" Cedar Elm
1094	9" Twin Cedar Elm (7',4")
1095	9" Cedar Elm
1096	6" Cedar Elm
1097	9" Cedar Elm
1098	8" Cedar Elm
1099	9" Cedar Elm
1100	5" Cedar Elm
1101	12" Cedar Elm
1102	9" Cedar Elm
1103	7" Cedar Elm
1104	14" Twin Chinese Elm (12',7")
1105	9" Ash
1106	16" Ash
1207	12" Cedar Elm
1208	6" Cedar Elm
1209	8" Cedar Elm
1210	6" Cedar Elm
1212	8" Cedar Elm
1213	10" Cedar Elm
1214	5" Cedar Elm
1215	6" Cedar Elm
1216	7" Cedar Elm
1217	5" Cedar Elm
1218	21" Ash
1219	9" Cedar Elm
1220	15" Ash
1221	7" Cedar Elm
1222	10" Cedar Elm
1223	4" Cedar Elm
1224	8" Cedar Elm
1225	8" Cedar Elm
1226	10" Chinese Elm
1227	7" Twin Chinese Elm (5',4")
1241	12" Pecan
1244	29" Cedar Elm
1245	20" Cedar Elm

SURVEYOR'S CERTIFICATION

To: The Lake Somerville State Park Nails Creek Unit:

This survey substantially complies with the current Texas Society of Professional Surveyors Standards and Specifications for a Category VI Condition II Survey.

Drawing Date: July 14, 2023.
Revised Date: September 13, 2023.



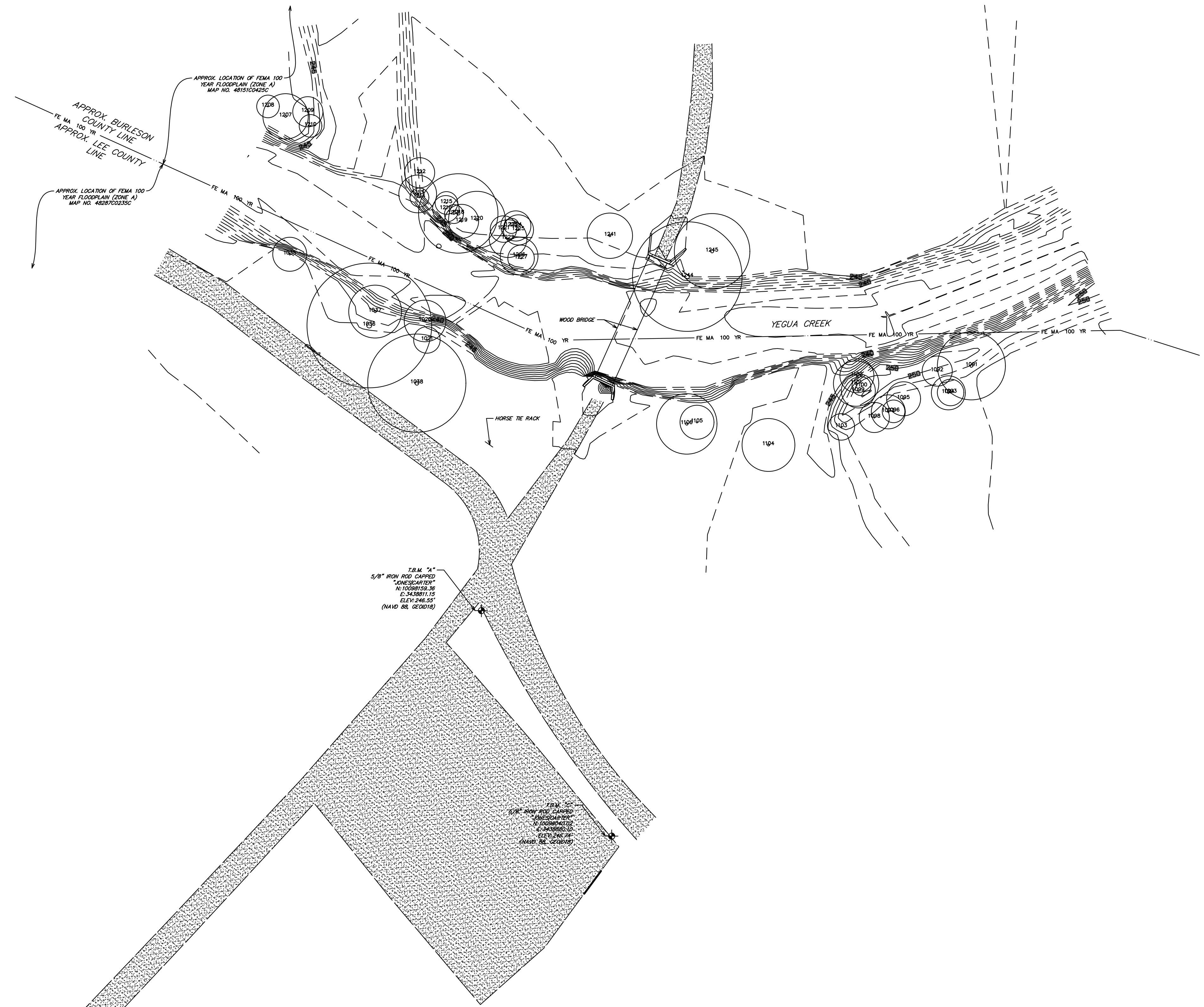
Rex L. Hackett
Registered Professional Land Surveyor No. 5573
3100 Alvin Devane Blvd, Ste 150, Austin, TX 78741
512-441-9493

**TOPOGRAPHIC
SURVEY**
OF A PORTION OF
YEGUA CREEK
IN THE
R.J.W. REEL SURVEY, A-17
LEE AND BURLERSON COUNTIES,
TEXAS
JULY 2023



THE GEOTECHNICAL ENGINEER AND SURVEY ARE SEPARATE CONSULTANTS WITH CONTRACTS DIRECTLY WITH THE TPWD. LOCKWOOD, ANDREWS AND NEWMAN, INC. TAKES NO RESPONSIBILITY FOR THESE CONSULTANT'S SERVICES

1 YEGUA CREEK SURVEY
SCALE: N.T.S.



GENERAL CIVIL NOTES

- 1. CONTRACTOR SHALL VISIT THE PROJECT SITES TO BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS RELATING TO CONSTRUCTION AND LABOR AND SHALL FULLY INFORM HIMSELF AS TO THE FACILITIES INVOLVED, THE SITE ACCESS CHALLENGES, THE REMOTE SITE LOCATIONS, THE DIFFICULTIES, RESTRICTIONS, AND LOGICAL EXTENSIONS OF SCOPE ATTENDING THE PERFORMANCE OF THE CONTRACT. THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SITE CONDITIONS. THE CONTRACTOR BY THE EXECUTION OF THE CONTRACT SHALL IN NO WAY BE RELIEVED OF ANY OBLIGATION UNDER THE CONTRACT BECAUSE OF HIS FAILURE TO RECEIVE OR EXAMINE THE CONTRACT DOCUMENTS, ANY FORM OR LEGAL DOCUMENT OR TO VISIT THE SITE AND INFORM HIMSELF THOROUGHLY REGARDING ANY AND ALL CONDITIONS AND REQUIREMENTS THAT MAY IN ANY MANNER AFFECT THE WORK TO BE PERFORMED UNDER THE CONTRACT. LACK OF KNOWLEDGE ON THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF THE OBLIGATIONS AND RESPONSIBILITIES ASSUMED UNDER THE CONTRACT.
- 2. THE TOPOGRAPHICAL SURVEY AND CONTROL POINTS AND GEOTECHNICAL REPORT WERE PERFORMED BY OTHER CONSULTANTS AND HAVE BEEN PROVIDED BY THE CLIENT. LOCKWOOD, ANDREWS AND NEWMAN, INC. MAKES NO WARRANTY TO THE ACCURACY OF THIS INFORMATION.
- 3. WITHIN THIRTY (30) DAYS AFTER NTP, CONTRACTOR SHALL FIELD VERIFY THE PRIMARY CONTROL POINTS PROVIDED BY THE TPWD TO DETERMINE IF THEY HAVE BEEN DAMAGED OR DESTROYED. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION THAT THE PRIMARY CONTROL POINTS ARE EITHER ACCEPTABLE OR THAT THEY NEED TO BE RE-ESTABLISHED. THE TPWD WILL RE-ESTABLISH THE PRIMARY CONTROL POINTS ONCE, PRIOR TO THE CONTRACTOR COMMENCING WITH THE WORK. ONCE WORK COMMENCES, THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE PRIMARY CONTROL POINTS AND THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE PRIMARY CONTROL POINTS, AT NO ADDITIONAL COST. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING ANY SECONDARY CONTROL POINTS THE CONTRACTOR DEEMS NECESSARY.
- 4. CONTRACTOR SHALL MAINTAIN AN AS-BUILT SET OF DRAWINGS AND SPECIFICATIONS TO DOCUMENT THE AS-BUILT CONDITIONS OF THE PROPOSED NEW BRIDGES (EX., TOP OF BRIDGE ELEVATIONS, SLOPES, BRIDGE ALIGNMENT, ETC.), BRIDGE APPROACHES (EX., TOP OF PAVEMENT ELEVATIONS AND SLOPES), BANK RESTORATION AND BANK STABILIZATION. THE AS-BUILT DRAWINGS SHALL BE UPDATED AND MAINTAINED ON A MONTHLY BASIS AND SHALL BE MADE AVAILABLE FOR THE TPWD AND ENGINEER'S REVIEW UPON REQUEST. CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF THE AS-BUILT DRAWINGS (BOTH HARD COPY AND PDF COPY) AT SUBSTANTIAL COMPLETION.
- 5. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND IMMEDIATELY SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE TPWD AND ENGINEER IF DIFFERING OR UNFORESEEN CONDITIONS ARE ENCOUNTERED AND IF OTHER CONFLICTS ARE IDENTIFIED. CONTRACTOR SHALL INCLUDE PHOTOS AND MARKED UP SKETCHES AND DRAWINGS WITH THE RFI TO DOCUMENT AND ASSIST THE ENGINEER WITH EVALUATING AND RESPONDING TO THE RFI.
- 6. THE REQUIREMENTS FOR COMPACTION, SUB-GRADE PREPARATION, BRIDGE APPROACHES, FILL MATERIALS, BANK RESTORATION AND BANK STABILIZATION REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS (I.E., DRAWINGS AND SPECIFICATIONS) ARE BASED ON THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND GEOTECHNICAL REPORT AND IMMEDIATELY NOTIFY THE TPWD AND ENGINEER IF CONFLICTS ARE IDENTIFIED. THE MORE STRINGENT REQUIREMENTS WILL GOVERN, UNLESS NOTED OTHERWISE OR APPROVED OTHERWISE BY THE TPWD AND ENGINEER. WET AND SOFT SOILS THAT CANNOT MEET SPECIFIED COMPACTION SHALL BE REMOVED AND REPLACED WITH SELECT FILL. UNSUITABLE SOILS SHALL BE REMOVED AND REPLACED WITH SELECT FILL.
- 7. THE CONTRACTOR SHALL CONTACT THE TEXAS811 (HTTP://WWW.TEXAS811.ORG/PORTAL) A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION, FOR UTILITY NOTIFICATION AND LOCATE SERVICES.
- 8. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTS AND INSPECTIONS WITH THE TPWD AND THEIR MATERIAL TESTING CONSULTANT.
- 9. CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENTATION CONTROL MEASURES AND TREE PROTECTION MEASURES PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR SHALL MONITOR AND MAINTAIN THESE PROTECTIVE MEASURES.

- 10. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR CONFLICTS, DIFFERING AND UNFORESEEN CONDITIONS PRIOR TO PREPARING SUBMITTALS AND PRIOR TO FABRICATION/PROCUREMENT OF MATERIALS AND PROCEEDING WITH THE WORK. CONTRACTOR SHALL IMMEDIATELY SUBMIT A REQUEST FOR INFORMATION (RFI) TO OBTAIN A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING.
- 11. CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF COMPLETING ALL WORK. CONTRACTOR'S PROPOSED MEANS AND METHODS SHALL COMPLY WITH ALL CONSTRAINTS AND REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING.
 - A. CONSTRUCTION ACCESS TO BOTH SIDES OF EACH CREEK CROSSING IS LIMITED. ACCESS ROADS TO BOTH SIDES OF EACH CREEK FOR DRILL RIGS, CRANES, EXCAVATORS, HAUL TRUCKS AND OTHER LARGE AND MEDIUM SIZE CONSTRUCTION EQUIPMENT DOES NOT EXIST. CONTRACTOR IS RESPONSIBLE FOR DETERMINING A MEANS AND METHOD FOR SAFELY ACCESSING BOTH SIDES OF EACH CREEK (EX., PROVIDING TEMPORARY BRIDGES, USE LARGE CRANES TO MOVE EQUIPMENT AND MATERIALS FROM ONE SIDE OF THE CREEK TO THE OTHER, USE SMALL CONSTRUCTION EQUIPMENT THAT CAN NAVIGATE THE NARROW, WINDING AND UNEVEN PARK TRAILS, OTHER).
 - B. TEMPORARILY EXCAVATING AND REGRADING THE CREEK BANKS TO CREATE A LOW WATER CROSSINGS IS NOT ACCEPTABLE OR ALLOWED BY THE USACE PERMIT.
 - C. TEMPORARY BACKFILLING THE CREEKS WITH PIPE OR BOX CULVERTS TO CROSS THE CREEKS IS NOT ACCEPTABLE OR ALLOWED BY THE USACE PERMIT.
 - D. CONTRACTOR SHALL NOT TRIM OR CUT ANY TREES WITHOUT THE TPWD'S APPROVAL TO MAKE ROOM FOR CRANES AND/OR OTHER EQUIPMENT.
 - E. CONTRACTOR SHALL ASSUME A TWO (2) FOOT AVERAGE HEIGHT OF FLOWING WATER IN BOTH CREEKS DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT FOR REVIEW AND ACCEPTANCE PROPOSED PLAN FOR TEMPORARY COFFER DAMS AND OTHER PROPOSED TEMPORARY MEASURES (EX., BY-PASS PUMPING SYSTEMS, WELL POINTS FOR DEWATERING, ETC.) THAT WILL TEMPORARILY DIVERT THE CREEK FLOW AROUND THE PROPOSED WORK AREAS. SHEET PILES ARE NOT ALLOWED. CONTRACTOR'S PROPOSED PLAN SHALL ASSUME FOR SEASONAL VARIATIONS IN THE WATER HEIGHT OF UP TO FOUR (4) FEET IN HEIGHT AT BOTH CREEKS. PROPOSED COFFER DAMS SHALL PROVIDE THE MINIMUM WORKING ROOM NECESSARY TO COMPLETE THE PROPOSED CREEK BANK RESTORATION AND STABILIZATION AND SHALL BE SEQUENCED TO COMPLETE ONE (1) CREEK BANK AT A TIMES UNLESS APPROVED OTHERWISE BY THE TPWD AND ENGINEER. THE WORK AREA SHALL BE RESTORED AND ALL TEMPORARY COFFER DAM MEASURES SHALL BE REMOVED UPON COMPLETION. PROPOSED PLAN SHALL INCLUDE DRAWINGS, DETAILS AND WRITTEN NARRATIVE EXPLAINING PLAN INCLUDING PROPOSED INSTALLATION AND REMOVAL METHODS, PROPOSED SEQUENCING, ETC. DRAWINGS SHALL GRAPHICALLY ILLUSTRATE THE LIMITS OF PROPOSED COFFER DAMS, COFFER DAM DETAILS, THE SEQUENCING PLAN ETC. CONTRACTOR'S PROPOSED PLAN SHALL COMPLY WITH OSHA AND ANY OTHER APPLICABLE SAFETY STANDARDS AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN TEXAS.
 - F. CONTRACTOR SHALL SUBMIT FOR THE TPWD AND ENGINEER'S REVIEW AND ACCEPTANCE A PROPOSED SITE UTILIZATION PLAN FOR THE NAILS CREEK AND YEGUA CREEK CONSTRUCTION SITES. THE PROPOSED PLAN SHALL INCLUDE DRAWINGS INDICATING PROPOSED LOCATIONS FOR STAGING EQUIPMENT, MATERIALS, PROPOSED DEWATERING SYSTEM IF REQUIRED, LOCATIONS OF CONCRETE WASHOUTS, IDENTIFY TREES THAT THE CONTRACTOR PROPOSES TO TRIM AND CUT, PROPOSED TEMPORARY MEASURES, LIST OF PROPOSED SMALL EQUIPMENT (MAKE, MODEL AND CUT SHEETS) THAT WILL ACCESS THE NARROW, WINDING AND UNEVEN PARK TRAILS. THE PLAN SHALL ALSO INCLUDE A WRITTEN DETAILED NARRATIVE DESCRIBING THE CONTRACTOR'S PROPOSED MEANS AND METHOD.
- 12. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, TRAILS, ROADS, PARKING AREAS, TREES, ETC. CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING STRUCTURES, TRAILS, ROADS, PARKING AREAS, TREES, ETC. DAMAGED BY THE CONTRACTOR AT NO ADDITIONAL COST. CONTRACTOR SHALL SUBMIT FOR THE TPWD AND ENGINEER'S REVIEW AND ACCEPTANCE PROPOSED REPAIR AND REPLACEMENT DETAILS.
- 13. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TRASH, DEBRIS AND ALL EXCESS AND WASTE MATERIALS IN ACCORDANCE WITH ALL TPWD, COUNTY, STATE AND FEDERAL REGULATIONS.

- 14. CONTRACTOR SHALL PROVIDE TEMPORARY CHAIN LINK FENCING FOR PUBLIC SAFETY AND TO PREVENT PARK VISITORS FROM ENTERING THE CONSTRUCTION SITES.
- 15. CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY AND SHALL COMPLY WITH OSHA REQUIREMENTS. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS.
- 16. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL BY MEANS OF WATER SPRINKLING OR OTHER METHOD ACCEPTABLE TO THE TPWD.
- 17. CONTRACTOR SHALL IMMEDIATELY CLEAN AND REMOVE ANY DIRT OR MUD TRACKED ONTO THE PARK ROADS AND PARK TRAILS. CONTRACTOR SHALL ALSO IMMEDIATELY REPAIR ANY DAMAGE CONTRACTOR CAUSES TO ANY OF THE PARK ROADS AND PARK TRAILS (EX., RUTS IN THE TRAILS CAUSED BY CONSTRUCTION EQUIPMENT).
- 18. CONTRACTOR SHALL COORDINATE ALL MAJOR MATERIAL AND EQUIPMENT DELIVERIES WITH THE TPWD TO ELIMINATE OR MINIMIZE IMPACTS TO PARK ROADS, PARK TRAILS, AND PARK VISITORS (EX., TEMPORARY STAGING OF CONCRETE TRUCKS, BRIDGE DELIVERY TRUCKS, ETC. ON PARK ROADS). CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN (TCP) FOR THE TPWD AND ENGINEER'S REVIEW AND ACCEPTANCE. THE TCP SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL PROVIDE APPROPRIATE TRAFFIC CONTROL DEVICES, SIGNAGE AND FLAGMEN.
- 19. THE CONTRACTOR SHALL MAINTAIN ADEQUATE POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION; CONTROL EROSION AND SILTATION; AND SHALL PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL REGULATIONS FOR EROSION CONTROL AND PROTECTION.
- 20. ALL MATERIAL TESTING AND INSPECTION RESULTS MUST CONFORM TO THE REQUIREMENTS INDICATED IN THE DRAWINGS AND SPECIFICATIONS AND RECOMMENDATIONS INDICATED IN THE GEOTECHNICAL REPORT. CONTRACTOR SHALL REMOVE AND REPLACE ALL NONCONFORMING WORK AT NO ADDITIONAL COST.
- 21. CONTRACTOR SHALL REMOVE AND STOCKPILE THE TOPSOIL AND VEGETATION FROM THE AREAS THAT WILL BE DISTURBED BY THE PROPOSED WORK AND SHALL USE THE STOCKPILED TOPSOIL AND VEGETATION FOR FINAL RESTORATION AND SEED STOCK FOR GRASS RESTORATION. CONTRACTOR SHALL COORDINATE WITH THE TPWD TO DETERMINE IF ANY NEAR BY PARK LAND COULD BE MOWED TO PROVIDE ADDITIONAL SEED STOCK FOR GRASS RESTORATION. CONTRACTOR SHALL PROVIDE THE LABOR, EQUIPMENT AND MATERIALS FOR MOWING, TRANSPORTING AND SPREADING THE MOWED GRASS SEED STOCK.
- 22. NO WATER IS AVAILABLE AT THE PROJECT SITES, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING WATER TO THE SITE FOR DUST CONTROL, VEGETATIVE WATERING, OR OTHER ITEMS NOT LISTED AS NEEDED TO PERFORM THE SCOPE OF WORK.

STORM WATER POLLUTION PREVENTION PLAN NOTES

- 1. EROSION AND POLLUTION CONTROLS SHOWN IN THE DRAWINGS ARE THE MINIMUM REQUIRED. CONTRACTOR IS RESPONSIBLE FOR PLANNING, PERMITTING, AND ALL PAPERWORK (EX., NOI), IMPLEMENTING, MAINTAINING AND REMOVING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED UNDER GENERAL PERMIT TXR150000.
- 2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS (EX., SILT FENCING, STABILIZED CONSTRUCTION ENTRANCES, ETC.) PRIOR TO COMMENCING WITH WORK (EX., CLEARING, GRUBBING, GRADING, EXCAVATION, ETC.). CONTRACTOR SHALL REMOVE ALL EROSION AND SEDIMENTATION CONTROLS AT SUBSTANTIAL COMPLETION AFTER GRASS IS RESTORED AND REESTABLISHED.
- 3. THE EROSION AND SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN AND TCEQ STANDARDS. PROPOSED DEVIATIONS MUST BE SUBMITTED AND APPROVED BY THE ENGINEER.
- 4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH NATIVE SEEDING OR VEGETATIVE COVER, OR OTHER ACCEPTABLE SOIL STABILIZING COVER MATERIAL. CONTRACTOR SHALL PROVIDE AT LEAST FOUR (4) INCHES OF TOPSOIL IN DISTURBED AREAS. ALL PROPOSED SEEDING AND VEGETATIVE COVER AND OTHER STABILIZING COVER SHALL BE REVIEWED AND APPROVED BY THE TPWD. GRASS RESTORATION WILL BE DEEMED ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE PROVIDED NO BARE SPOTS LARGER THAN 25 SQUARE FEET EXIST.

- 5. THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENTATION CONTROL MEASURES ON A WEEKLY BASIS AND AFTER EVERY RAINFALL EXCEEDING 1/2 INCH. CONTRACTOR SHALL PROMPTLY REPAIR AND MODIFY THE CONTROL MEASURES. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF SEDIMENT ACCUMULATIONS.
- 6. TEMPORARY FUEL STORAGE FACILITIES ARE NOT ALLOWED ON THE PROJECT SITE. CONTRACTOR SHALL PROMPTLY NOTIFY THE TPWD OF ANY FUEL SPILLS AND CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH INVESTIGATING AND REMEDIATING FUEL AND OTHER HAZARDOUS MATERIAL SPILLS.
- 7. CONTRACTOR SHALL PROVIDE TEMPORARY CONTAINMENT SYSTEMS FOR WASHING OUT CONCRETE TRUCKS AND CONCRETE PUMP TRUCKS. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE CONTAINMENT SYSTEMS.
- 8. CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW AND APPROVAL AN EMERGENCY RESPONSE PLAN FOR SECURING THE PROJECT SITE PRIOR TO LARGE STORMS AND FLOODING EVENTS. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE TEMPORARY REMOVAL FROM THE FLOODPLAIN OF ALL EQUIPMENT, MATERIALS, TOOLS, DEBRIS, STORAGE CONTAINERS, SWPPP, TREE PROTECTION, ETC., PROPOSED METHOD(S) FOR SECURING PARTIALLY BUILT BRIDGES, ETC. THE CONTRACTOR SHALL ALSO SUBMIT AN UPDATED PLAN AS NEEDED AS WORK PROGRESSES AND CONDITIONS CHANGE. COSTS FOR EMERGENCY RESPONSE PLAN, INCLUDING IMPLEMENTATION, ARE INCIDENTAL.

TEXAS PARKS & WILDLIFE

LAKE SOMERVILLE TRAILWAY TRAIL BRIDGE REPLACEMENTS PROJECT NO. 121815

DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0 - IFS SUBMITTAL (02/06/2020)



SHEET TITLE
GENERAL CIVIL
NOTES

SHEET NUMBER

C-01

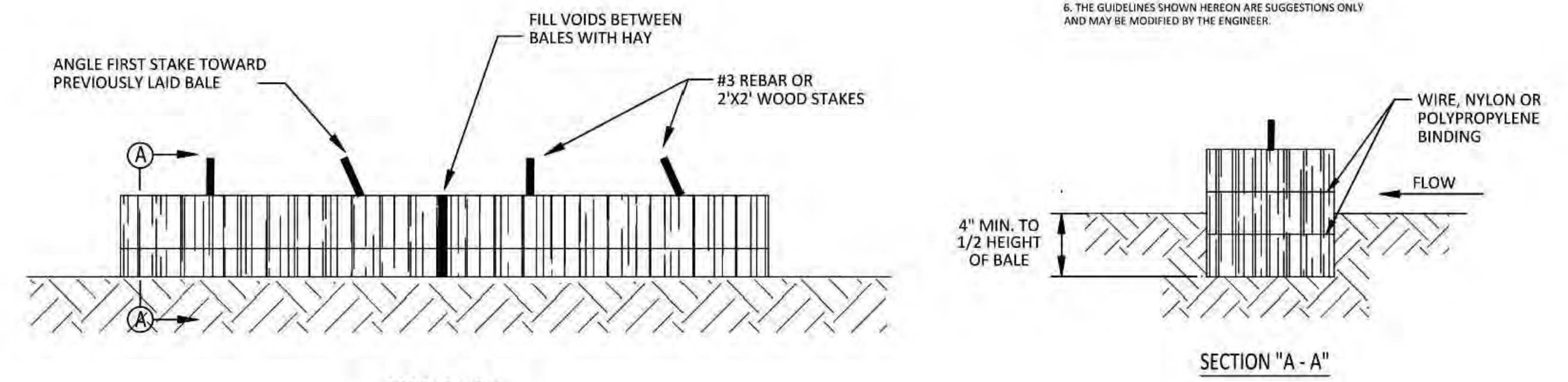
CALL BEFORE YOU DIG!



PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG,
DRILL, OR BLAST - STOP AND CALL

HAY BALE NOTES:

- HAY BALES SHALL BE A MINIMUM OF 30" IN LENGTH AND WEIGH A MINIMUM OF 50 LBS.
- HAY BALES SHALL BE BOUND BY EITHER WIRE OR NYLON OR POLYPROPYLENE STRIPING. THE BALES SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER.
- HAY BALES SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND WHERE POSSIBLE 1/2 THE HEIGHT OF THE BALE.
- HAY BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
- HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH #3 REBAR OR 2"x2" WOOD STAKES, DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
- THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



PROFILE VIEW

SECTION "A-A"

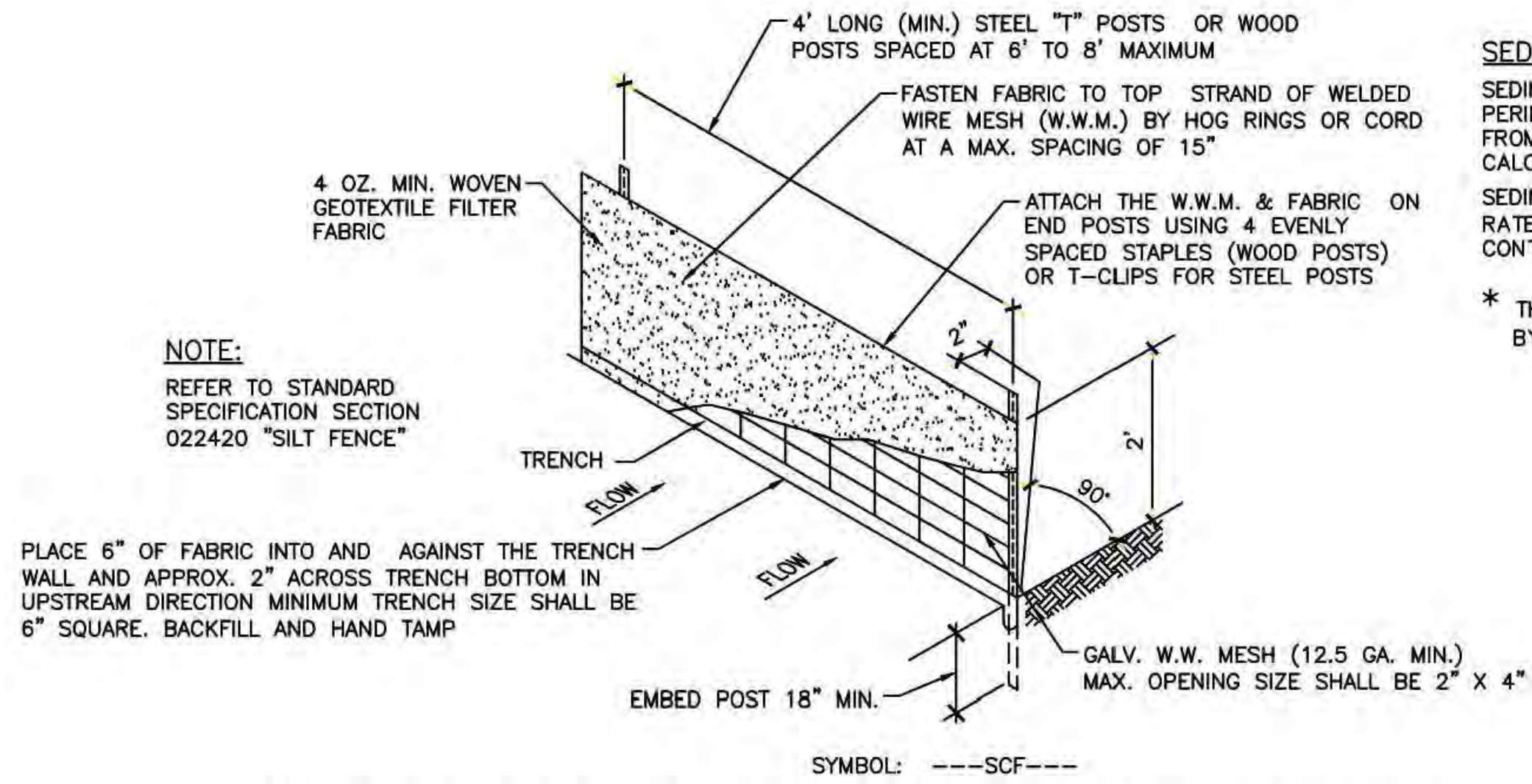
2 TEMPORARY SEDIMENT CONTROL HAY BALE BARRIER
SCALE: N.T.S.

SEDIMENT CONTROL FENCE USAGE GUIDELINES:

SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE LARGER THEN 2 ACRES.

* THE GUIDELINES SHOWN HERE ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

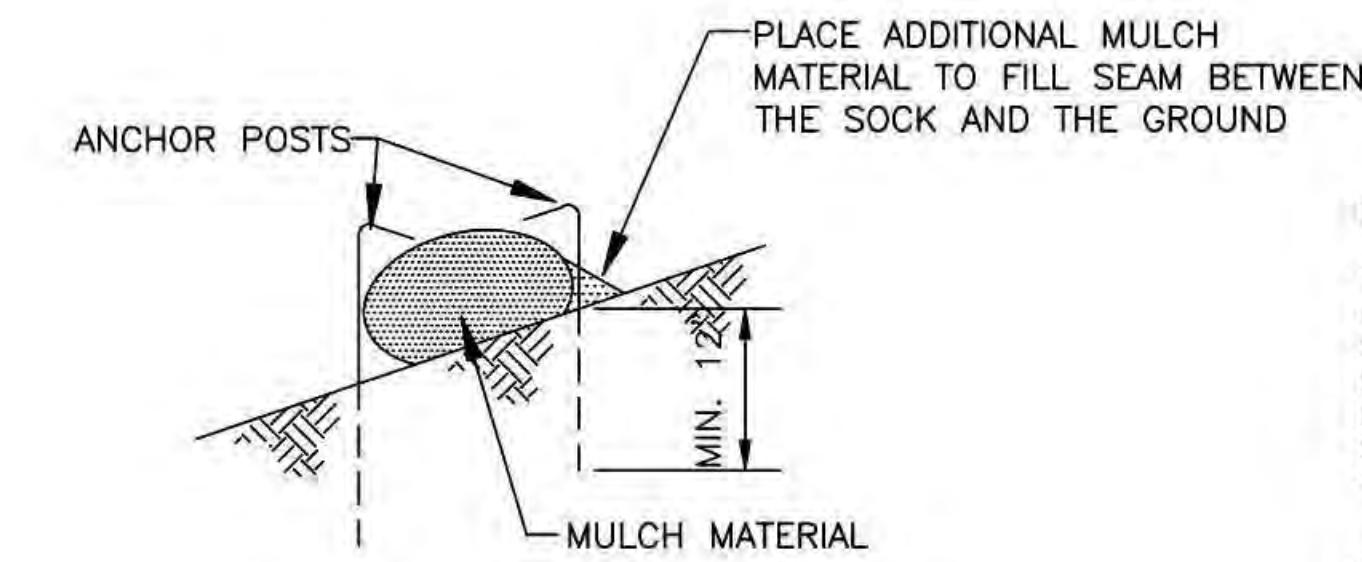


NOTE:
REFER TO STANDARD SPECIFICATION SECTION 022420 "SILT FENCE"

PLACE 6" OF FABRIC INTO AND AGAINST THE TRENCH WALL AND APPROX. 2" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION MINIMUM TRENCH SIZE SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP

SYMBOL: ---SCF---

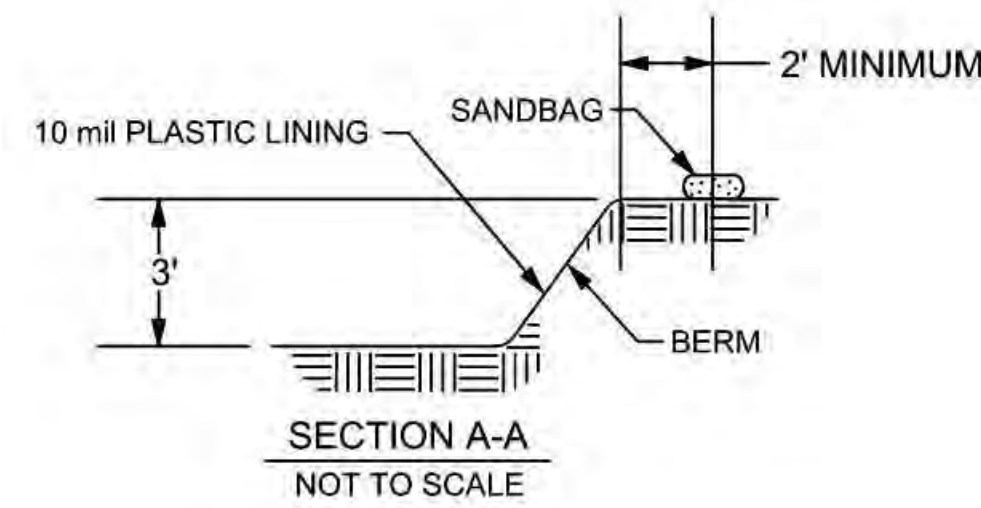
1 TEMPORARY SEDIMENT CONTROL FENCE
SCALE: N.T.S.



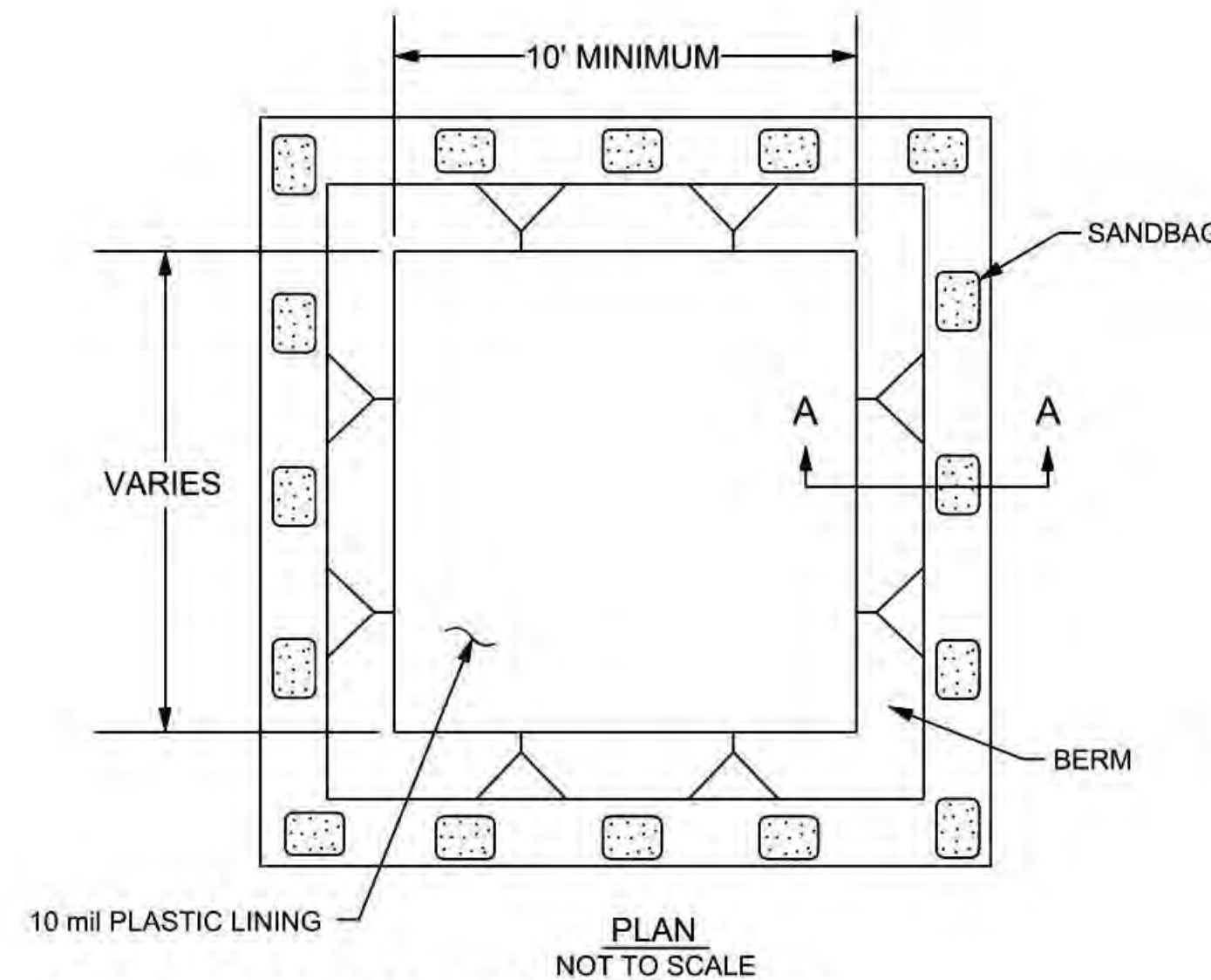
NOTES:

- MULCH SOCKS SHALL BE 12" DIAMETER AND MADE OUT OF BIO-DEGRADABLE OR RECYCLABLE MATERIAL SUCH AS BURLAP, TWINE AND SOME DEGRADABLE PLASTICS. IT IS PREFERRED THAT ON-SITE MULCH PRODUCED FOR THIS PROJECT IS USED TO FILL THE SOCKS. OTHER MATERIAL MAY BE ACCEPTABLE AT THE ENGINEER'S DISCRETION.
- WOOD POSTS ARE PREFERRED IF THEY ARE ABLE TO BE DRIVEN INTO SOIL ON-SITE. END PROTECTION SHALL BE REQUIRED TO PREVENT IMPALEMENT. STAKES SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
- THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- MULCH MATERIAL MUST BE FREE OF INVASIVE PLANT SEEDS, REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- AT THE CONCLUSION OF CONSTRUCTION, SOCKS MAY BE CUT OPEN AND MULCH SPREAD ON-SITE. ALL OTHER DEBRIS TO BE REMOVED FROM SITE.

3 TEMPORARY SEDIMENT CONTROL FILTER SOCK BARRIER
SCALE: N.T.S.

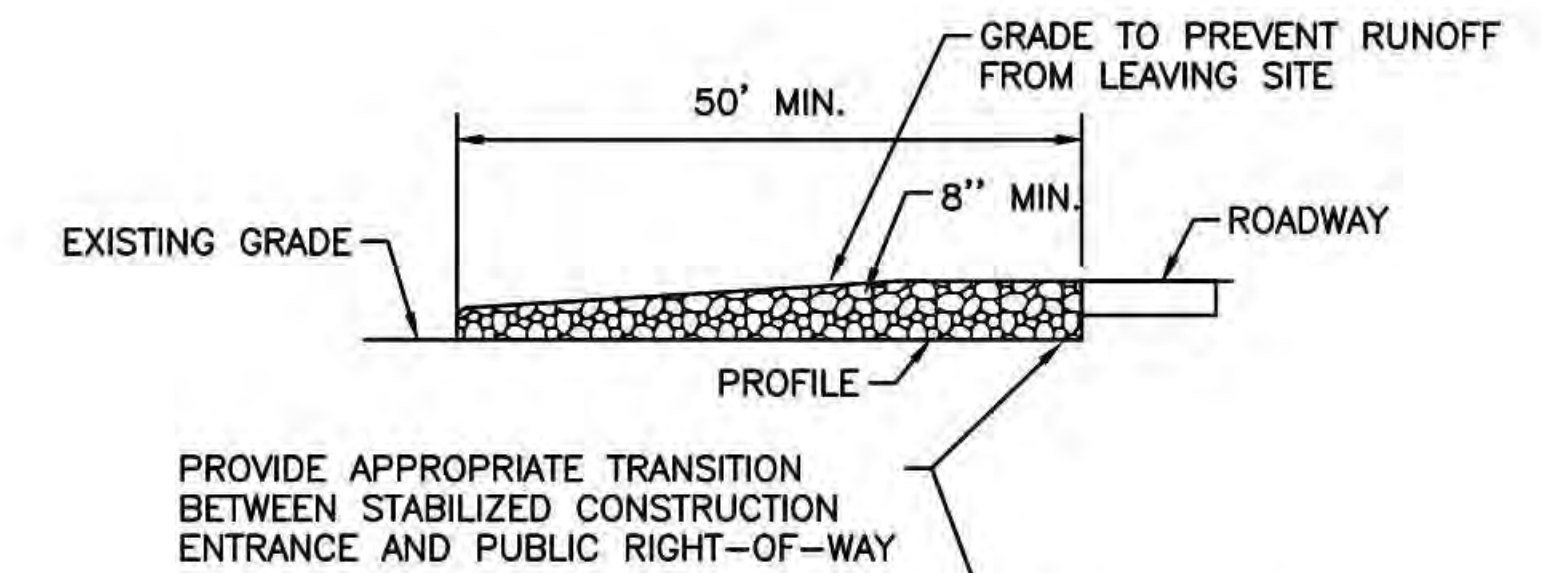


SECTION A-A
NOT TO SCALE



PLAN
NOT TO SCALE

4 TEMPORARY CONCRETE WASHOUT
SCALE: N.T.S.



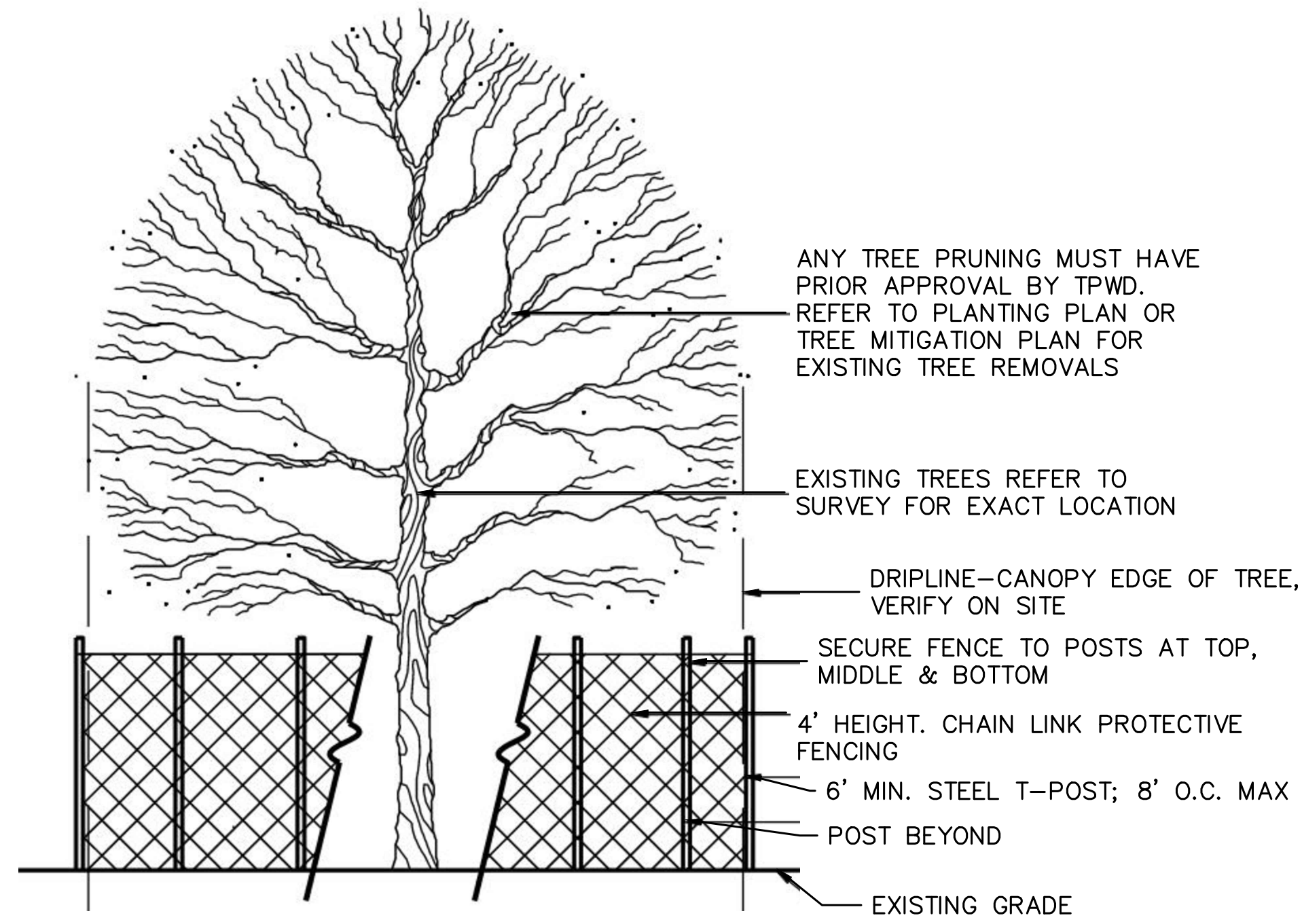
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY

5 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S.

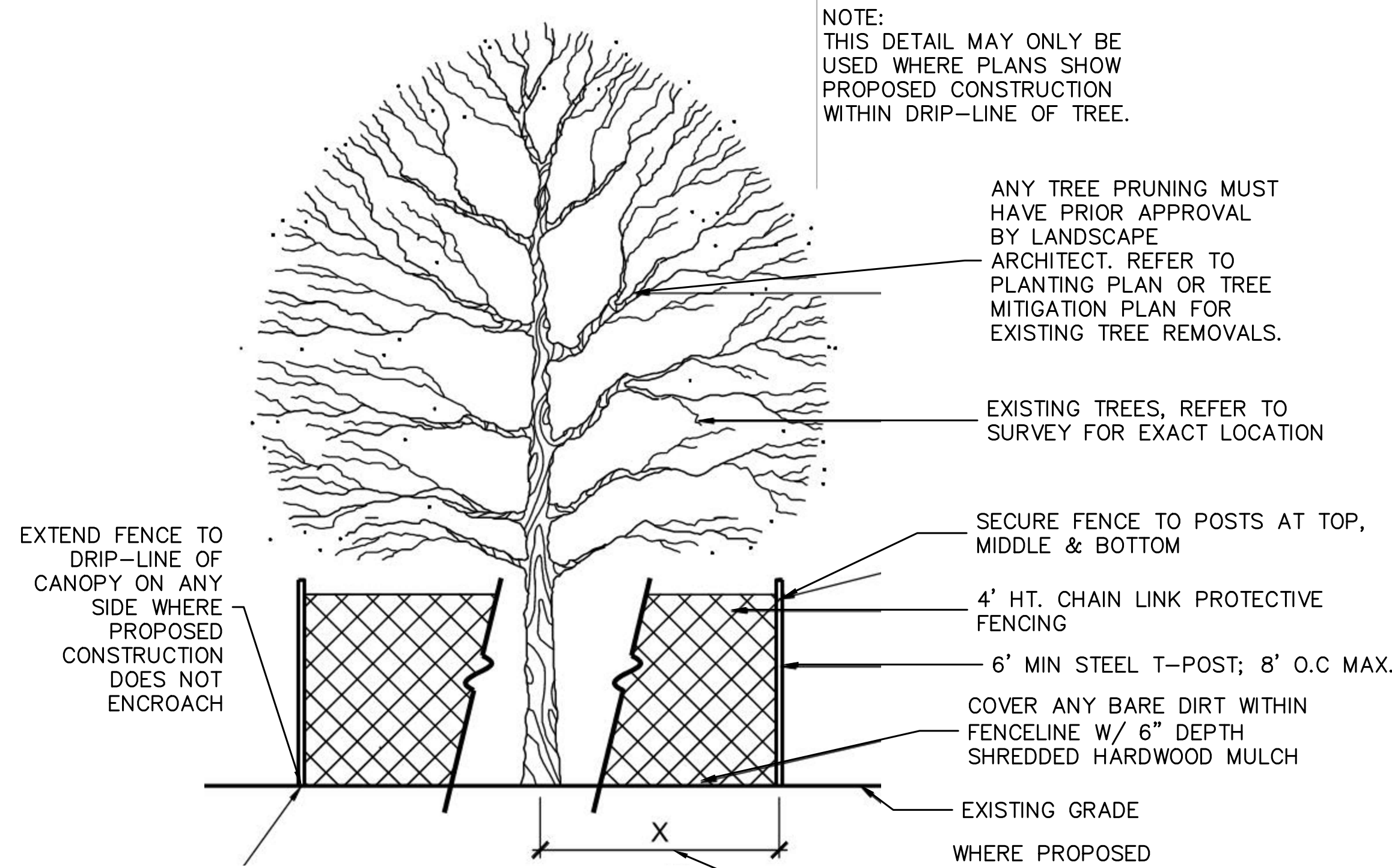
CONSTRUCTION ENTRANCE NOTES:

- STONE SIZE: 3-5" OPEN GRADED ROCK.
- LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
- THICKNESS: NOT LESS THAN 8".
- WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
- WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
- DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

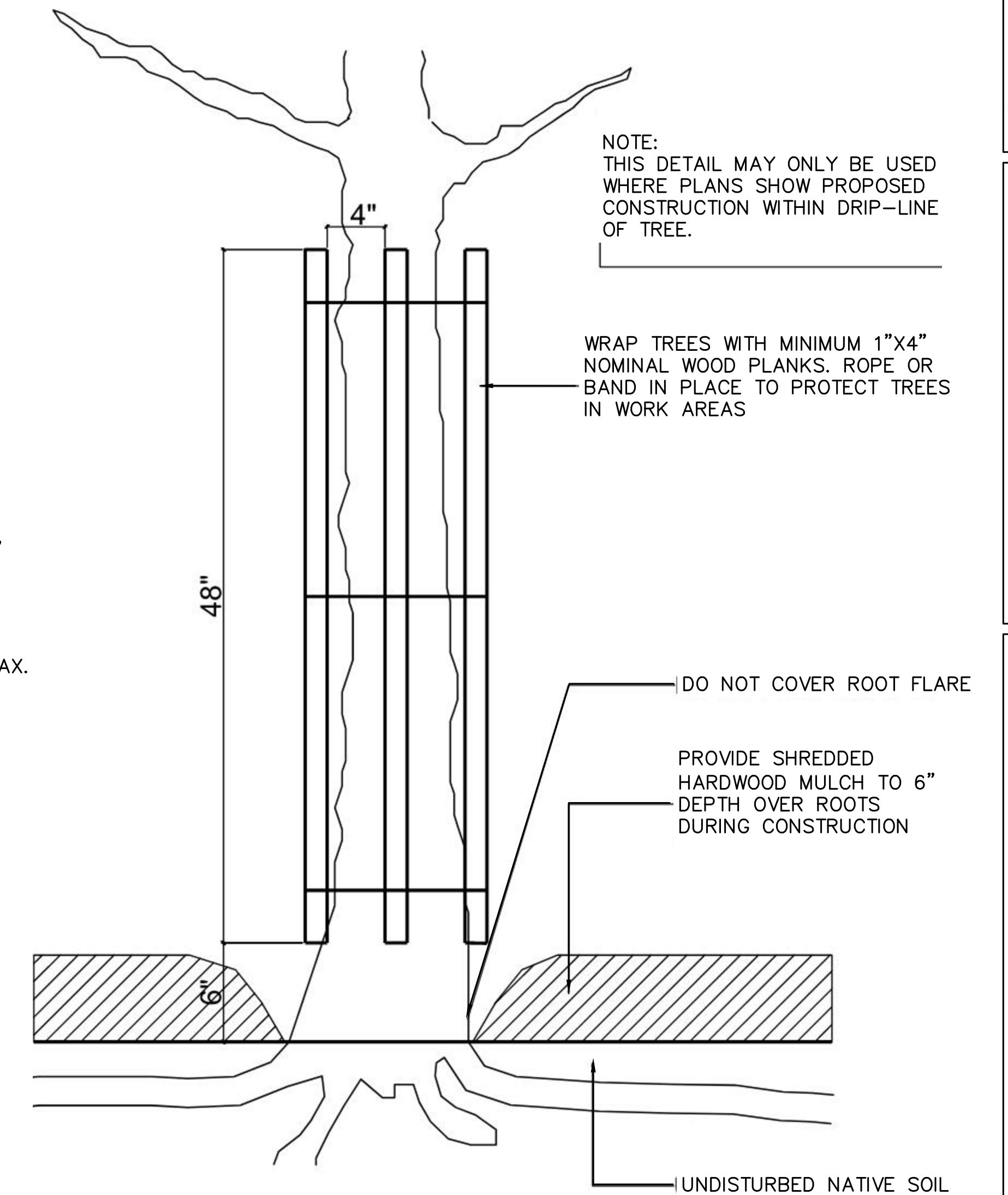




1 TREE PROTECTION FENCE-TYPE 1
SCALE: N.T.S



2 TREE PROTECTION FENCE-TYPE 2
SCALE: N.T.S



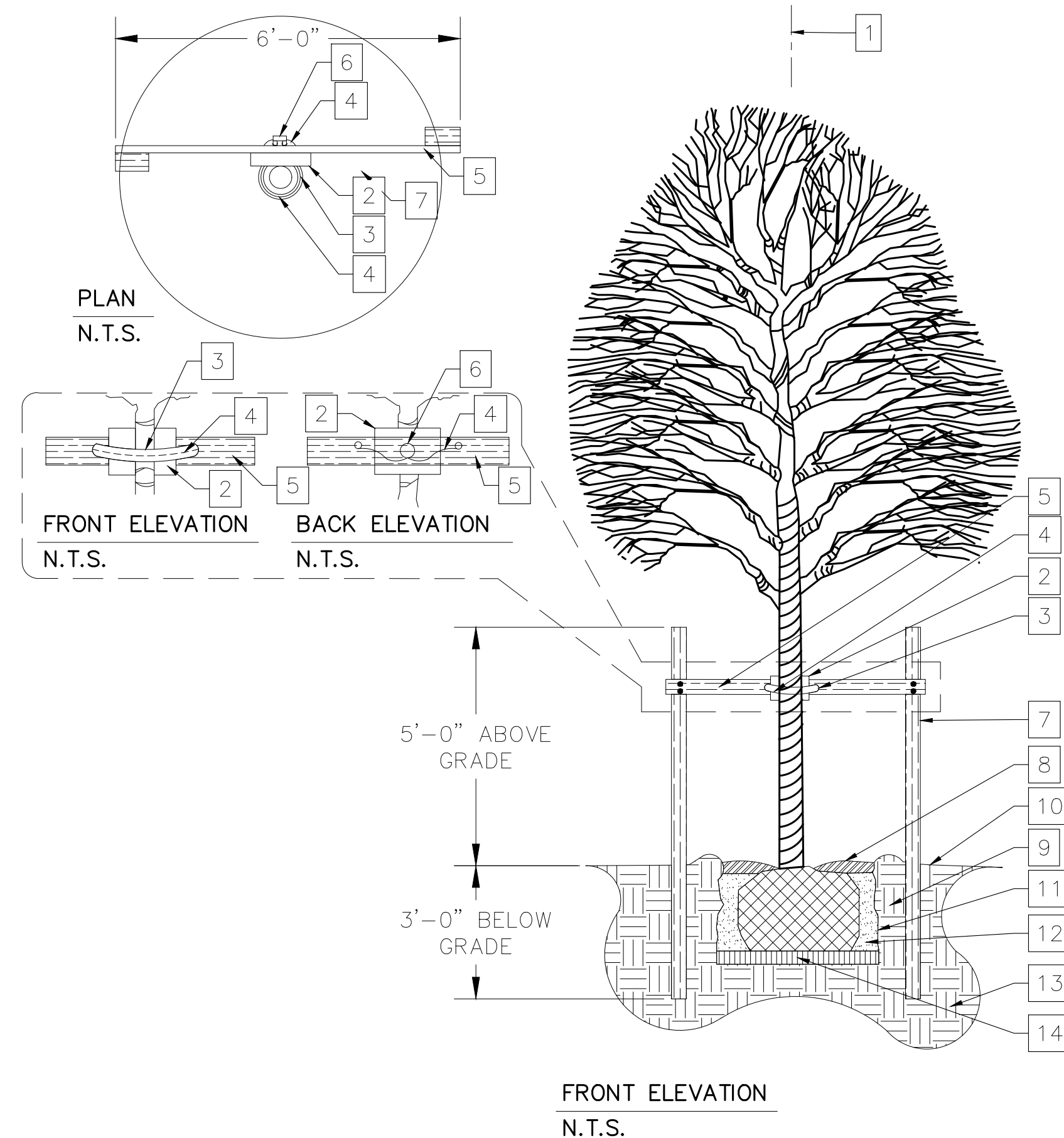
3 TREE PROTECTION FENCE-TYPE 3 TREE BOARDING
SCALE: N.T.S

TREE PRESERVATION NOTES

- ALL TREES ARE TO REMAIN UNLESS DESIGNATED FOR REMOVAL ON DEMO PLANS. PRIOR TO CONSTRUCTION, PRESERVATION FENCING SHALL BE INSTALLED AT THE DRIP LINE OF ALL TREES OR TREE GROUPS TO REMAIN. TREE PROTECTION FENCE SHALL REMAIN THROUGHOUT CONSTRUCTION.
- SOME PROPOSED WORK WILL REQUIRE DEMOLITION OR NEW CONSTRUCTION WITHIN LIMITS OF TREE CANOPY DEPICTED ON PLAN IN THESE CIRCUMSTANCES, CONTRACTOR SHALL STRATEGICALLY LOCATE PRESERVATION FENCE INSIDE THE DRIP LINE BALANCING NEED TO PROVIDE ROOM FOR PERFORMANCE OF PROPOSED WORK WHILE MAINTAINING TREE HEALTH. CONTRACTOR SHALL NOTIFY TPWD IF PROPOSED CONSTRUCTION THREATENS THE HEALTH OF A TREE.
- APPROXIMATE EXTENTS OF TREE PRESERVATION FENCE IS SHOWN ON PLAN. ACTUAL LIMITS MAY VARY ACCORDING TO FIELD CONDITIONS.
- PARKING OF VEHICLES OR PERFORMING WORK WITHIN PRESERVATION AREAS OTHER THAN WORK SHOWN ON THE PLANS WILL NOT BE ALLOWED.
- NO FILL OR EXCAVATION OF ANY NATURE SHALL OCCUR WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED, UNLESS THERE IS A SPECIFIED GRADE CHANGE.
- DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO PAINT, ASPHALT OIL SOLVENT, CONCRETE, MORTAR ETC WITHIN THE CANOPY AREA OF EXISTING TREES SHALL NOT BE ALLOWED.
- NO ATTACHMENTS OR WIRES OF ANY KIND OTHER THAN THOSE OF A PROTECTIVE NATURE SHALL BE ATTACHED TO ANY TREE.
- NO MATERIALS SHALL BE STORED WITHIN THE DRIP LINE AREA OF A TREE TO BE PRESERVED.
- THE CRITICAL ROOT ZONE (CRZ) IS DETERMINED AS ONE (1) FOOT RADIUS FROM TRUNK FOR EACH CALIPER INCH (DIAMETER) OF TRUNK MEASURED AT 4 FT. HEIGHT. EXAMPLE: THE CRZ FOR A 6 INCH CALIPER TREE WOULD EXTEND 6 FEET FROM THE TRUNK IN ALL DIRECTION.
- TREE ROOT ZONES ARE OFTEN IRREGULAR IN SHAPE. THEY GENERALLY FOLLOW THE CONTOURS OF THE CROWN. PLACE TREE PROTECTION FENCE AT THE EDGE OF THE CRZ FOLLOWING THE CONTOURS OF THE DRIPLINE.
- IMMEDIATELY WATER TREE AFTER PLACE MULCH AND TREE STAKING. CONTRACTOR SHALL WATER ALL TREES AT LEAST ONCE A MONTH DURING THE ONE YEAR WARRANTY PERIOD, UNLESS APPROVED OTHERWISE BY TPWD. WATER TREES WITH A MINIMUM OF 100 GALLONS PER TREE.
- SPRAY TREE WITH WATER TO REMOVE CONSTRUCTION DUST WHEN DIRECTED.
- IF THE TPWD AND ENGINEER AGREE THAT ROOT REMOVAL OR EXCAVATION IS UNAVOIDABLE WITHIN THE CRZ, CONTRACTOR SHALL HAND-DIG TO EXPOSE MAJOR TREE ROOTS WITH SHARP, CLEAN TOOLS DESIGNED FOR THAT PURPOSE. BACKFILL EXPOSED ROOT ENDS WITH TOPSOIL WITHIN 24 HOURS OF EXPOSURE OR COVERED WITH SIX INCHES (6") SHREDDED HARDWOOD MULCH THE SAME DAY OF EXCAVATION.
- BACKFILL EXPOSED ROOTS WITH TOPSOIL WITHIN 24 HOURS OF EXPOSURE.
- IF THE TPWD AND ENGINEER AGREE THAT TREE TRIMMING IS NECESSARY, PERFORM TREE TRIMMING AND WOUND REPAIR PER TXDOT SPECIAL SPECIFICATION 1020.

KEY NOTES:

- SET TREE PLUMB.
- PROTECT TREE TRUNK WITH ONE (1) INCH THICK MINIMUM NEOPRENE PADDING. GLUE PADDING TO HORIZONTAL RAIL.
- RUBBER HOSE SLEEVE AROUND WIRE TO PROTECT TREE TRUNK.
- 10 GAUGE MINIMUM GALVANIZED WIRE.
- CENTER HORIZONTAL RAIL ON TREE TRUNK. ONE (1) PRESSURE TREATED 2"x4"x6' HORIZONTAL RAIL. FASTEN HORIZONTAL RAIL TO VERTICAL POSTS WITH MINIMUM OF FOUR (4) 3 1/2" DECK SCREWS.
- STAINLESS STEEL WIRE CLIP TO SECURE BOTH ENDS OF GALVANIZED WIRE.
- TWO (2) PRESSURE TREATED 2"x4"x8' VERTICAL POSTS. SET VERTICAL POSTS IN UNDISTURBED SOIL, OUTSIDE OF ROOT BALL EXCAVATION. CUT A POINT INTO BOTTOM OF POSTS TO HELP DRIVE POSTS.
- 2" MULCH ABOVE ROOT BALL. DO NOT PLACE MULCH WITHIN 4" OF TRUNK.
- EXCAVATION FOR ROOT BALL SHALL BE 4" LARGE THAN ROOT BALL ON ALL SIDES.
- PROVIDE EARTHEN WATERING FLARE AROUND ROOT BALL. FLARE SHALL BE 2" HIGH ABOVE FINISH GRADE.
- REMOVE ALL CONTAINERS FROM ROOTBALL. REMOVE ALL NON-100% BIODEGRADABLE BURLAP AND OTHER WRAPPINGS FROM ROOT BALL. IF BURLAP/WRAPPING IS 100% BIODEGRADABLE THEN CUT AT LEAST EIGHT (8) FULL HEIGHT VERTICAL SCORES IN BURLAP TO HELP PROMOTE ROOT GROWTH. SET TOP OF ROOT BALL 2" MAXIMUM BELOW FINISH GRADE.
- BACKFILL AROUND ROOTBALL WITH TOP SOIL THAT HAS BEEN AMENDED WITH FERTILIZER AND COMPOST.
- UNDISTURBED SOIL.
- BACKFILL BOTTOM OF EXCAVATION WITH 4" MINIMUM OF TOPSOIL (AMENDED PER KEY NOTE NO. 12) AND COMPACT TO PREVENT SETTLEMENT OF ROOT BALL.



4 TYP. TREE STAKING
SCALE: N.T.S





1 DEMOLITION - PLAN VIEW - NAILS CREEK
SCALE: N.T.S



2 DEMOLITION - PHOTO #1
SCALE: N.T.S



3 DEMOLITION - PHOTO #2
SCALE: N.T.S



4 DEMOLITION - PHOTO #3
SCALE: N.T.S

10. REMOVE AND DISPOSE OF TREE NO. 2192 AND 2193, INCLUDING TREE ROOTS THAT CONFLICT WITH PROPOSED GABION BASKET SYSTEM FOR BRIDGE APPROACH. SEE G-03 FOR TREE PROTECTION REQUIREMENTS.

KEY NOTES

1. REMOVE EXISTING ABUTMENTS AND WINGWALLS (NOTE 1).
2. REMOVE EXISTING TIMBER PILES AND BRIDGE REMNANTS (NOTE 2).
3. REMOVE EXISTING FALLEN TREES AND BRANCHES (NOTE 3)
4. REMOVE EXISTING TRAILWAY GRAVEL AND BASE MATERIALS (NOTE 4)
5. MOW THE GRASS WITHIN THE CONSTRUCTION LIMITS (NOTES 5).
6. REMOVE TREE AND TREE ROOTS (NOTE 10)

NOTES

1. CONTRACTOR SHALL COMPLETELY REMOVE AND PROPERLY DISPOSE OF ALL EXISTING CONCRETE AND TIMBER ABUTMENTS AND WINGWALLS. REMOVAL INCLUDES, BUT IS NOT LIMITED TO, ALL CONCRETE ABUTMENTS, WINGWALLS, FOOTINGS, GRADE BEAMS, DRILLED PIERS, PILES, TIMBERS, ETC. SEE NOTE 8.
2. CONTRACTOR SHALL COMPLETELY REMOVE AND PROPERLY DISPOSE OF ALL EXISTING TIMBER PILES AND ANY OTHER EXISTING TIMBER, CONCRETE AND/OR STEEL REMNANTS LOCATED WITHIN THE CONSTRUCTION LIMITS INCLUDING ANY BURIED REMNANTS WITHIN THE CREEK BANKS. CONTRACTOR SHALL SCRAPE AND PROBE THE BOTTOM OF THE CREEK TO LOCATE ANY BURIED BRIDGE REMNANTS. SEE NOTE 8.
3. CONTRACTOR SHALL COMPLETELY REMOVE AND PROPERLY DISPOSE OF ALL TRASH, DEBRIS, BRICKS, CONCRETE, OLD TIRES AND FALLEN TREES AND BRANCHES LOCATED WITHIN THE CREEK BANKS AND LOCATED WITHIN THE CONSTRUCTION LIMITS, INCLUDING CLEARING AND GRUBBING DEAD TREES LOCATED WITHIN TEN (10) FOOT OF THE PROPOSED NEW BRIDGE STRUCTURE AND BRIDGE APPROACHES.
4. CONTRACTOR SHALL COMPLETELY REMOVE ALL GRAVEL AND BASE MATERIALS FROM THE TRAILWAYS. THE REMOVAL LIMITS SHALL MATCH THE LIMITS OF THE PROPOSED NEW BRIDGE APPROACHES AND PROPOSED NEW TRAILWAYS INDICATED ON SHEET C-07. CONTRACTOR SHALL FIELD COORDINATE WITH THE TPWD TO DETERMINE IF THE TPWD WANTS TO SALVAGE ANY OF EXISTING TRAILWAY GRAVEL AND/OR BASE MATERIALS. CONTRACTOR SHALL HAUL SALVAGED GRAVEL/BASE MATERIALS TO A STOCKPILE LOCATED WITHIN LAKE SOMERVILLE PARK SYSTEM DESIGNATED BY THE TPWD. CONTRACTOR SHALL PROPERLY DISPOSE OF THE GRAVEL/BASE MATERIALS IF THE TPWD DOES NOT SALVAGE THE MATERIALS.
5. CONTRACTOR SHALL MOW THE GRASS WITHIN THE CONSTRUCTION LIMITS AND WITHIN THE TEMPORARY LAYDOWN AREAS, AND SHALL STOCKPILE THE MOWED GRASS CLIPPINGS FOR SITE RESTORATION. CONTRACTOR SHALL CONTINUE TO MOW AND STOCKPILE THE GRASS CLIPPINGS EVERY TWO (2) MONTHS UNTIL THE START OF SITE RESTORATION.
6. SEE SHEET G-03, G-04 AND G-05 FOR THE CONSTRUCTION LIMITS AND THE TEMPORARY LAYDOWN AREA LIMITS.
7. THE PHOTOS ON THIS SHEET ARE ONLY EXAMPLES. CONTRACTOR SHALL FIELD VERIFY AND REMOVE ALL ITEMS INDICATED IN KEY NOTE 1 THROUGH 4.
8. THE CONDITION AND LOCATION OF THE REMAINING BRIDGE, ABUTMENTS, WING WALLS, PILES, ETC. HAVE AND CONTINUE TO CHANGE DUE TO WEATHER, EROSION, ETC. CONTRACTOR SHALL COMPLETELY REMOVE REGARDLESS OF LOCATION OR CHANGED CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
9. EXCAVATIONS AND HOLES RESULTING FROM REMOVAL OF FOUNDATIONS, PIERS, PILES, ETC. SHALL BE BACKFILLED AND COMPACTED WITH SELECT MATERIAL PER SECTION 31 21 00 OR FLOWABLE FILL PER TXDOT ITEM 401.





1 DEMOLITION - PLAN VIEW - NAILS CREEK
SCALE: N.T.S



2 DEMOLITION - PHOTO #1
SCALE: N.T.S



3 DEMOLITION - PHOTO #2
SCALE: N.T.S



4 DEMOLITION - PHOTO #3
SCALE: N.T.S

KEY NOTES

1. REMOVE EXISTING ABUTMENTS AND WINGWALLS (NOTE 1).
2. REMOVE EXISTING TIMBER PILES AND BRIDGE REMNANTS (NOTE 2).
3. REMOVE EXISTING FALLEN TREES AND BRANCHES (NOTE 3)
4. REMOVE EXISTING TRAILWAY GRAVEL AND BASE MATERIALS (NOTE 4)
5. MOW THE GRASS WITHIN THE CONSTRUCTION LIMITS (NOTES 5).

NOTES

1. CONTRACTOR SHALL COMPLETELY REMOVE AND PROPERLY DISPOSE OF ALL EXISTING CONCRETE AND TIMBER ABUTMENTS AND WINGWALLS. REMOVAL INCLUDES, BUT IS NOT LIMITED TO, ALL CONCRETE ABUTMENTS, WINGWALLS, FOOTINGS, GRADE BEAMS, DRILLED PIERS, PILES, TIMBERS, ETC. SEE NOTE 8.
2. CONTRACTOR SHALL COMPLETELY REMOVE AND PROPERLY DISPOSE OF ALL EXISTING TIMBER PILES AND ANY OTHER EXISTING TIMBER, CONCRETE AND/OR STEEL REMNANTS LOCATED WITHIN THE CONSTRUCTION LIMITS INCLUDING ANY BURIED REMNANTS WITHIN THE CREEK BANKS. CONTRACTOR SHALL SCRAPE AND PROBE THE BOTTOM OF THE CREEK TO LOCATE ANY BURIED BRIDGE REMNANTS. SEE NOTE 8.
3. CONTRACTOR SHALL COMPLETELY REMOVE AND PROPERLY DISPOSE OF ALL TRASH, DEBRIS, BRICKS, CONCRETE, OLD TIRES AND FALLEN TREES AND BRANCHES LOCATED WITHIN THE CONSTRUCTION LIMITS AND LOCATED WITHIN THE CONSTRUCTION LIMITS, INCLUDING CLEARING AND GRUBBING DEAD TREES LOCATED WITHIN TEN (10) FOOT OF THE PROPOSED NEW BRIDGE STRUCTURE AND BRIDGE APPROACHES.
4. CONTRACTOR SHALL COMPLETELY REMOVE ALL GRAVEL AND BASE MATERIALS FROM THE TRAILWAYS. THE REMOVAL LIMITS SHALL MATCH THE LIMITS OF THE PROPOSED NEW BRIDGE APPROACHES AND PROPOSED NEW TRAILWAYS INDICATED ON SHEET C-07. CONTRACTOR SHALL FIELD COORDINATE WITH THE TPWD TO DETERMINE IF THE TPWD WANTS TO SALVAGE ANY OF EXISTING TRAILWAY GRAVEL AND/OR BASE MATERIALS. CONTRACTOR SHALL HAUL SALVAGED GRAVEL/BASE MATERIALS TO A STOCKPILE LOCATED WITHIN LAKE SOMERVILLE PARK SYSTEM DESIGNATED BY THE TPWD. CONTRACTOR SHALL PROPERLY DISPOSE OF THE GRAVEL/BASE MATERIALS IF THE TPWD DOES NOT SALVAGE THE MATERIALS.
5. CONTRACTOR SHALL MOW THE GRASS WITHIN THE CONSTRUCTION LIMITS AND WITHIN THE TEMPORARY LAYDOWN AREAS, AND SHALL STOCKPILE THE MOWED GRASS CLIPPINGS FOR SITE RESTORATION. CONTRACTOR SHALL CONTINUE TO MOW AND STOCKPILE THE GRASS CLIPPINGS EVERY TWO (2) MONTHS UNTIL THE START OF SITE RESTORATION.
6. SEE SHEET G-03, G-04 AND G-05 FOR THE CONSTRUCTION LIMITS AND THE TEMPORARY LAYDOWN AREA LIMITS.
7. THE PHOTOS ON THIS SHEET ARE ONLY EXAMPLES. CONTRACTOR SHALL FIELD VERIFY AND REMOVE ALL ITEMS INDICATED IN KEY NOTE 1 THROUGH 4.
8. THE CONDITION AND LOCATION OF THE REMAINING BRIDGE, ABUTMENTS, WING WALLS, PILES, ETC. HAVE AND CONTINUE TO CHANGE DUE TO WEATHER, EROSION, ETC. CONTRACTOR SHALL COMPLETELY REMOVE REGARDLESS OF LOCATION OR CHANGED CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.

9. EXCAVATIONS AND HOLES RESULTING FROM REMOVAL OF FOUNDATIONS, PIERS, PILES, ETC. SHALL BE BACKFILLED AND COMPACTED WITH SELECT MATERIAL PER SECTION 31 21 00 OR FLOWABLE FILL PER TXDOT ITEM 401.
10. SEE G-03 FOR TREE PROTECTION REQUIREMENTS.



NOTES

- SEE GEOTECHNICAL ENGINEERING REPORT BY ALPHA TESTING DATED MARCH 27, 2024 (UES PROJECT NO. 23-0722).
- PROPOSED PECAN TREE SHALL BE A MINIMUM OF 2 YEAR'S IN AGE WITH A TREE CALIPER 2"-3". PROPOSED TREE LOCATIONS SHALL BE SEPARATED A MINIMUM OF 40 FT.

LEGEND

- XXX--- EXISTING CONTOURS
- XXX--- PROPOSED CONTOURS
- PROPOSED GRAVEL BRIDGE APPROACH & TRAIL (SEE SHEET C-20)
- PROPOSED CONCRETE ABUTMENT AND RUB RAILS (SEE SHEET C-20)
- PROPOSED RUB RAIL (SEE SHEET C-20)
- PROPOSED GABION STABILIZATION (SEE SHEET C-19)
- COORDINATE POINT
- BORE HOLE LOCATION (SEE NOTE 1)
- PROPOSED PECAN TREE LOCATION (SEE NOTE 2)

TABLE 1 -- TRAIL BASELINE

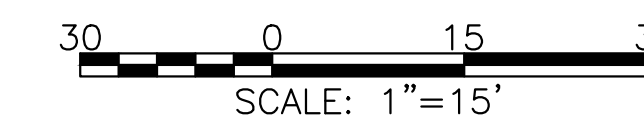
POINT	STATION	NORTHING	EASTING
A1	0+00	10,087,390.13	3,446,902.04
A2	0+52	10,087,427.61	3,446,865.50
A3	0+97	10,087,456.76	3,446,834.00
A4	1+60	10,087,500.30	3,446,785.75
A5	1+81	10,087,514.01	3,446,769.61
A6	2+19	10,087,536.23	3,446,738.26
A7	3+00	10,087,527.61	3,446,657.60
B1	0+00	10,087,361.16	3,446,672.96
B2	0+43	10,087,372.32	3,446,714.63
B3	1+85	10,087,478.17	3,446,810.28
B4	3+25	10,087,568.38	3,446,918.90
B5	4+00	10,087,641.51	3,446,935.54

TABLE 2 -- BORING LOCATIONS

BORING NO.	DEPTH FEET BGS	SURFACE ELEVATION	GPS LOCATION	
			NORTHING	EASTING
B-01	60	245	10,087,521.831	3,446,770.873
B-02	60	247	10,087,453.133	3,446,833.652

TABLE 3 -- PROPOSED TREE LOCATION

POINT	NORTHING	EASTING
T-1	10,087,603.356	3,446,638.266
T-2	10,087,604.177	3,446,683.268
T-3	10,087,559.193	3,446,611.204
T-4	10,087,554.543	3,446,654.090
T-5	10,087,563.139	3,446,700.650
T-6	10,087,512.121	3,446,630.789
T-7	10,087,506.647	3,446,677.034
T-8	10,087,500.852	3,446,719.401
T-9	10,087,369.855	3,446,912.436



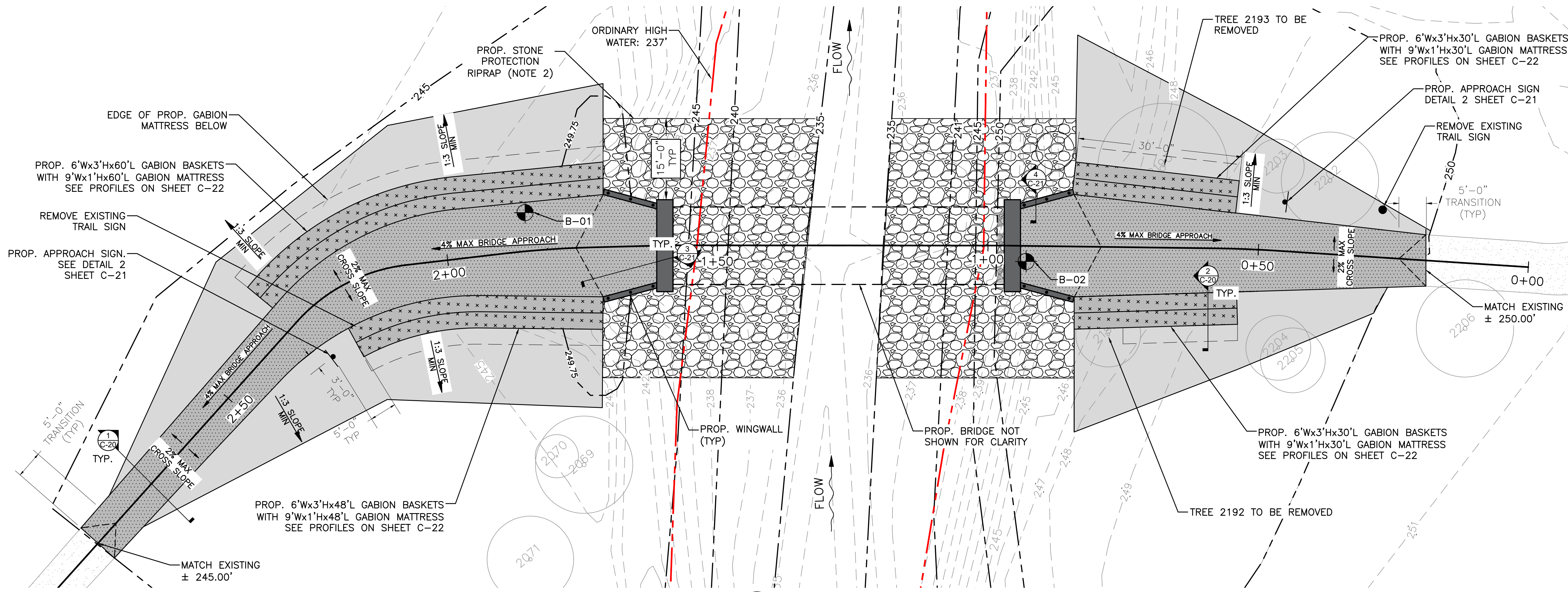
LAKE SOMERVILLE TRAILWAY
TRAIL BRIDGE REPLACEMENTS
PROJECT NO. 121815

DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0- FB SUBMITTAL (02/06/2026)

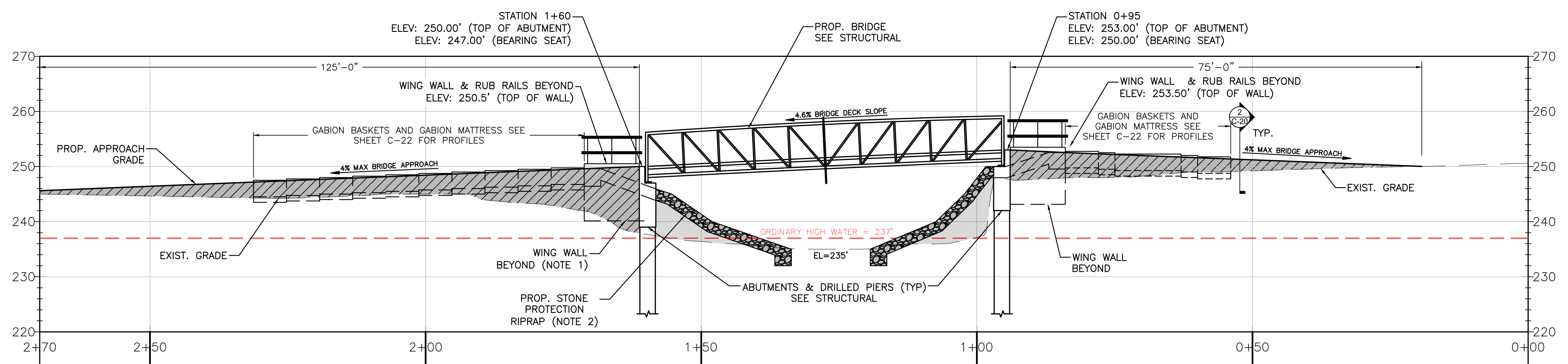
SHEET TITLE
NAILS CREEK
OVERALL VIEW

SHEET NUMBER

C-07



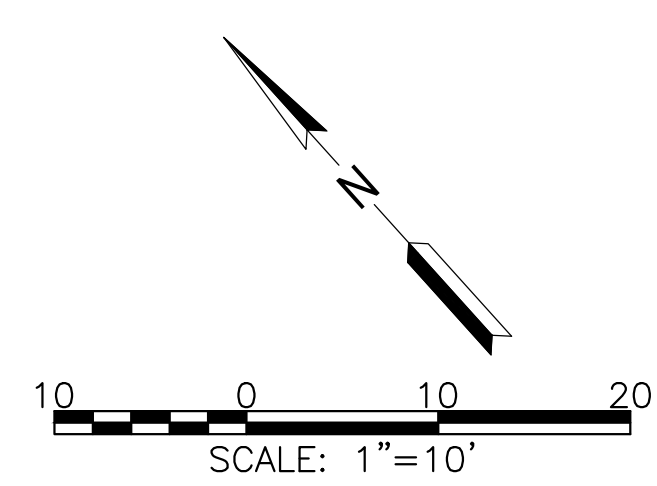
1 NAIL CREEK CIVIL SITE PLAN
SCALE: 1" = 10'



A CIVIL BRIDGE PROFILE
SCALE: 1" = 10'

LEGEND

- - - - - EXISTING CONTOURS
- - - - - PROPOSED CONTOURS
- [Hatched Box] PROPOSED GRAVEL BRIDGE APPROACH & TRAIL (SEE SHEET C-20)
- [Circle with Dot] BORE HOLE LOCATION
- [Circle with X] EXISTING TREE LOCATION AND CRITICAL ROOT ZONE
- [Stippled Box] PROP. STONE PROTECTION RIPRAP, NOTE 2
- [Solid Grey Box] PROPOSED FILL AND EMBANKMENT
- [Concrete Structure] PROPOSED CONCRETE ABUTMENT AND WING WALLS (SEE STRUCTURAL SHEETS)



NOTES

1. BACKFILL WINGWALLS WITH SELECT FILL. SEE STRUCTURAL GENERAL RETAINING WALL NOTES FOR WINGWALL SUBGRADE AND BACKFILL REQUIREMENTS.
2. SEE SHEET C-19 FOR TYPICAL STONE PROTECTION RIPRAP DETAILS AND REQUIREMENTS. PROP. STONE RIPRAP SHALL EXTEND 15' MIN. EACH SIDE OF ABUTMENTS.



LAKE SOMERVILLE TRAILWAY
TRAIL BRIDGE REPLACEMENTS

PROJECT NO. 1211815

DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0- FB SUBMITTAL
(02/06/2026)

SHEET TITLE
NAILS CREEK
BANK
STABILIZATION
PLAN



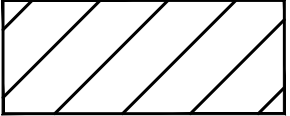
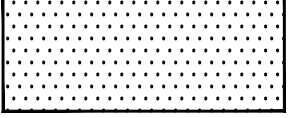
SHEET NUMBER

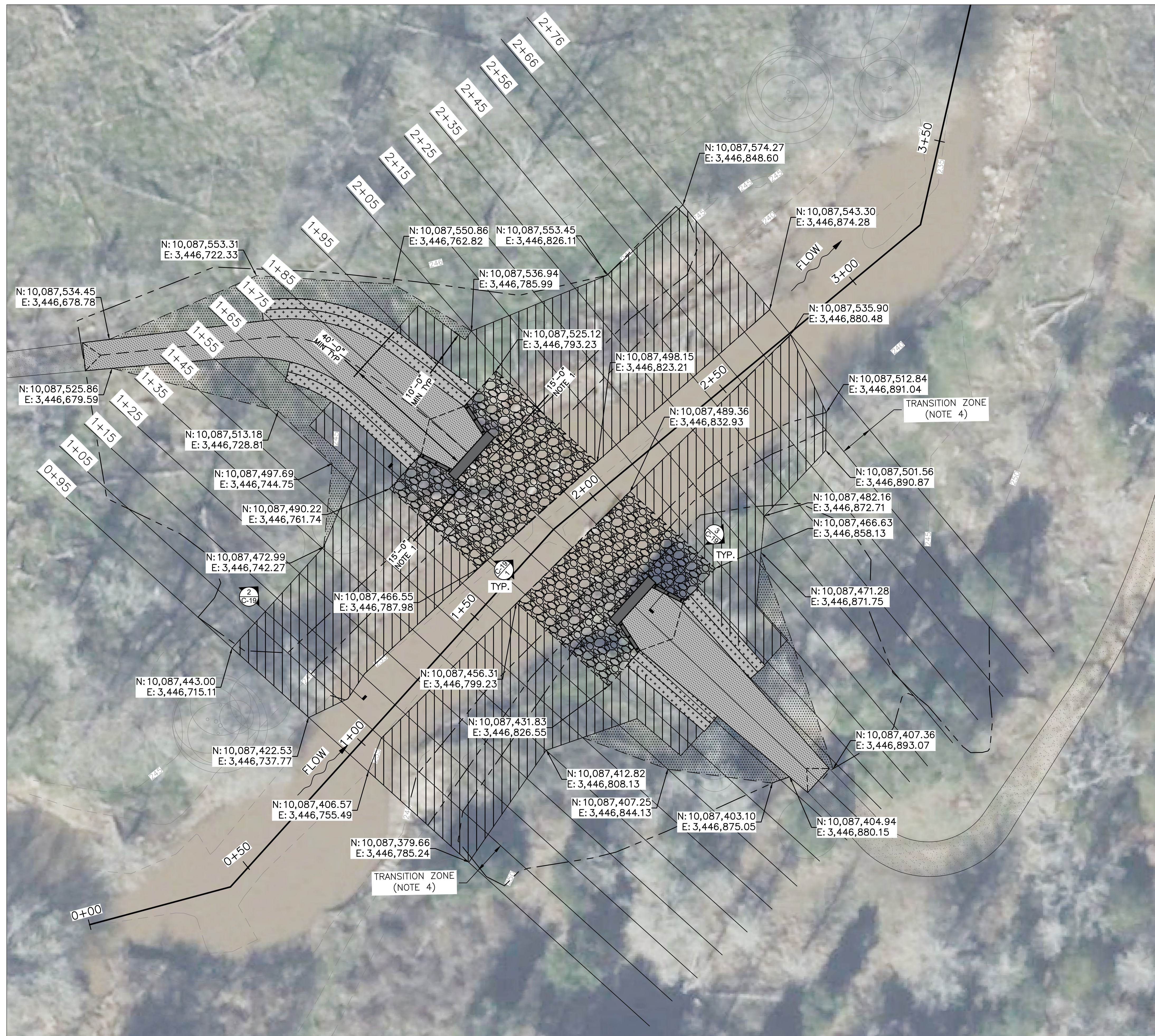
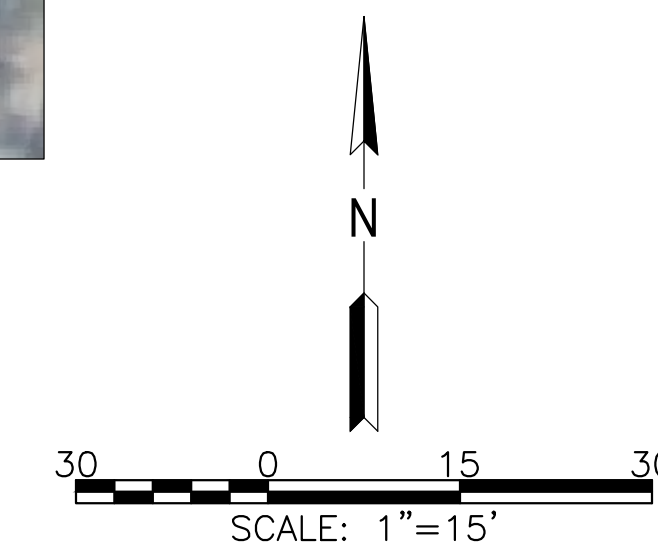
C-09

NOTES

1. PROP. STONE PROTECTION RIPRAP SHALL EXTEND 15' MIN. PAST CONCRETE ABUTMENT. SEE SHEET C-19 FOR TYPICAL DETAILS AND REQUIREMENTS.
2. PROVIDE EROSION TECH ETSC-7030-BN (OR APPROVED EQUAL THAT IS WILDLIFE FRIENDLY) PER TXDOT ITEM 169. EXTEND BLANKET 10' MIN BEYOND THE TOP OF THE BANK. EXTEND THE BLANKET 10' MIN BEYOND ALL SIDES OF PROP. RIPRAP AND 10' MIN BEYOND THE PROPOSED GABION BASKETS. EXTEND BLANKET ALONG THE GABION BASKETS 40' MIN FROM THE EDGE OF THE BRIDGE.
3. EXTEND GEOTEXTILE FABRIC 10' BEYOND THE WING WALLS.
4. TRANSITION ZONE - PROPOSED FILL SHALL TRANSITION TO MATCH EXISTING GRADE.
5. SEE SHEET C-19 FOR CREEK EMBANKMENT FILL DETAILS AND REQUIREMENTS. ALL FILL MATERIAL LOCATED WITHIN THE CRITICAL ROOT ZONE OF TREES SHALL BE TOPSOIL, UNLESS INDICATED OR APPROVED OTHERWISE.

LEGEND

- XXX--- EXISTING CONTOURS
- XXX--- PROPOSED CONTOURS
-  PROPOSED CONCRETE ABUTMENT AND WING WALLS
-  PROP. STONE PROTECTION RIPRAP (TXDOT ITEM 432)
-  PROP. FILL LIMITS WITH SOIL RETENTION BLANKET (NOTE 2 & 5)
-  PROP. FILL LIMITS (NOTE 5)

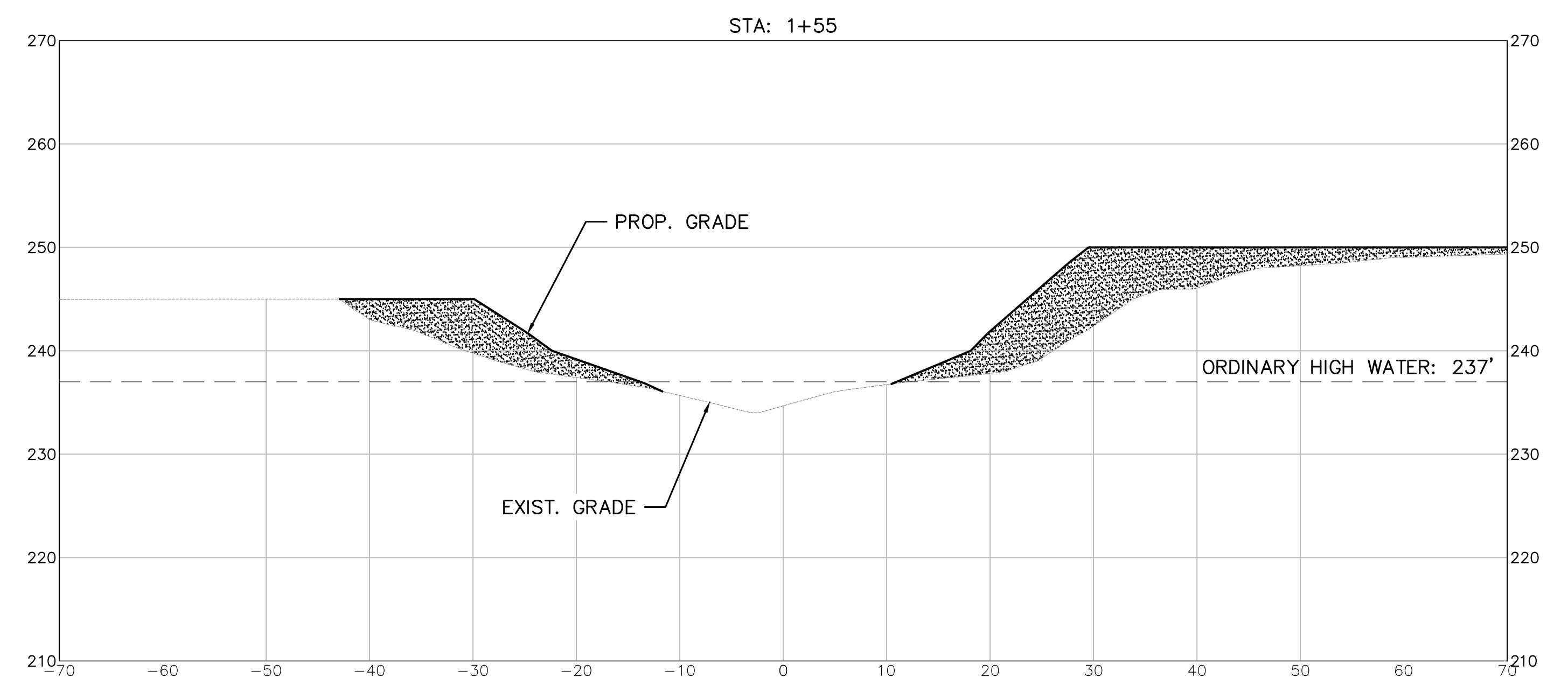
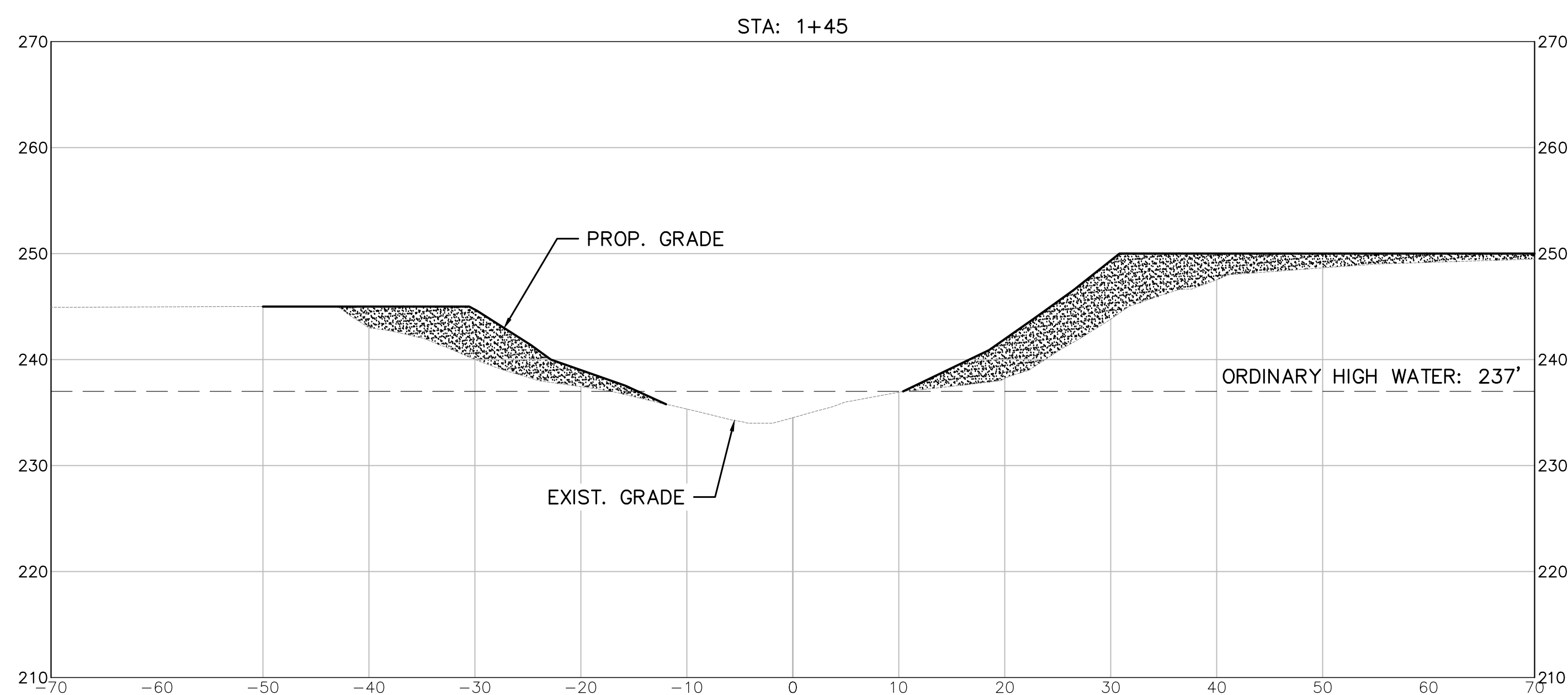
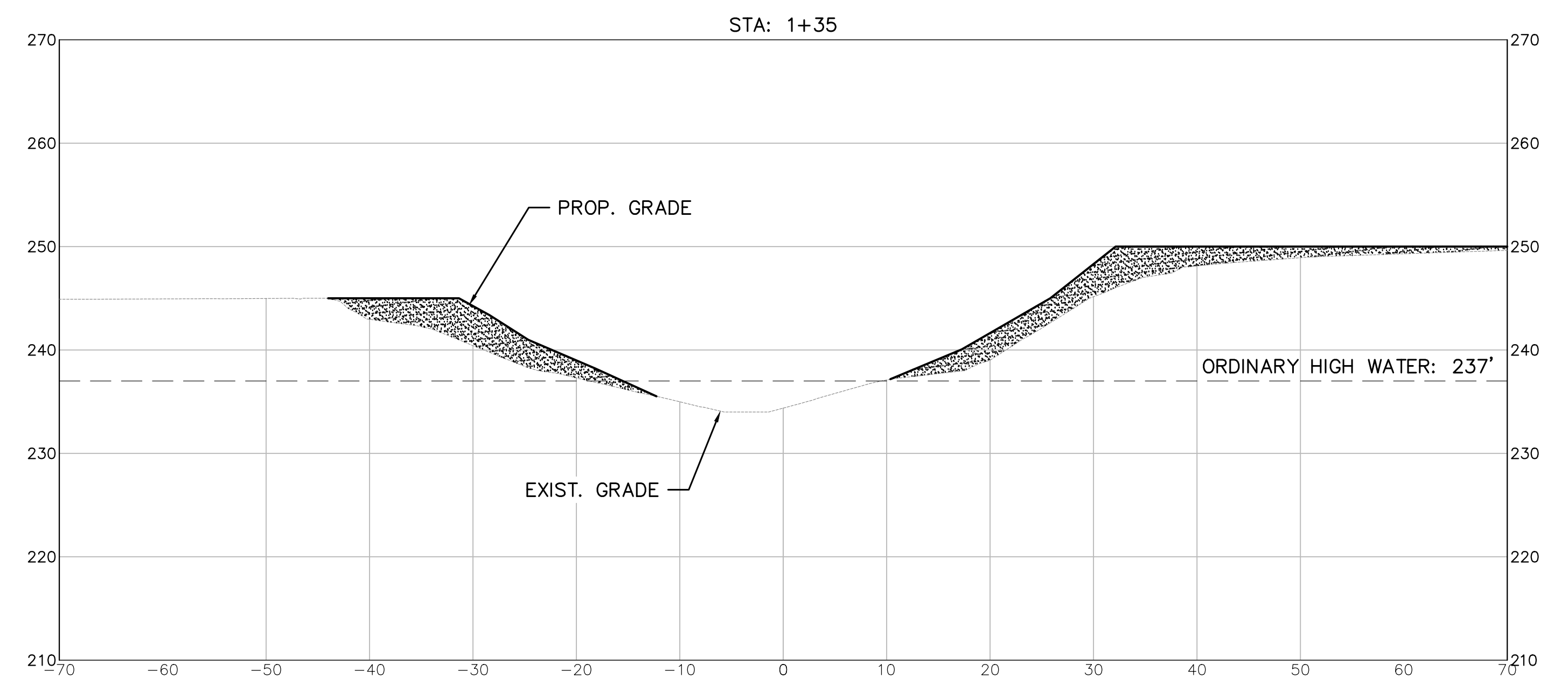
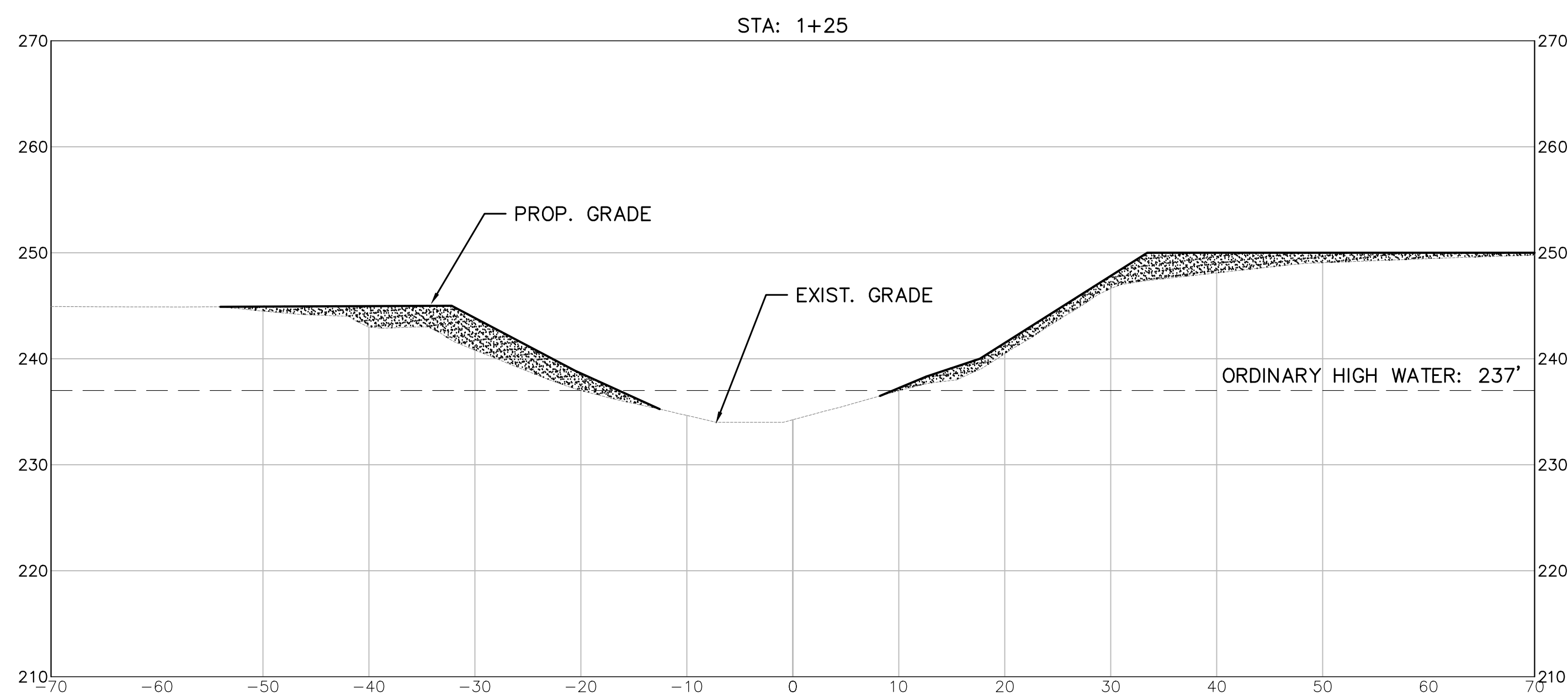
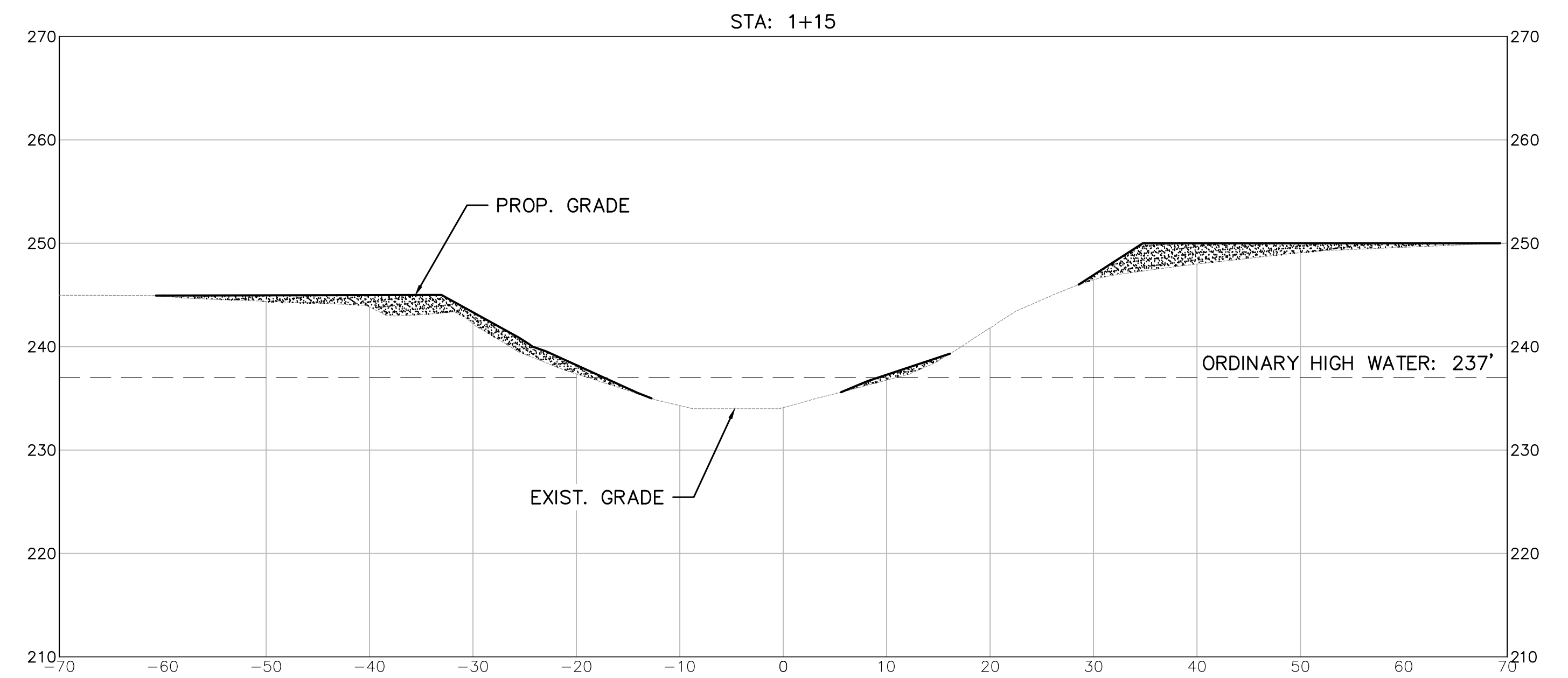
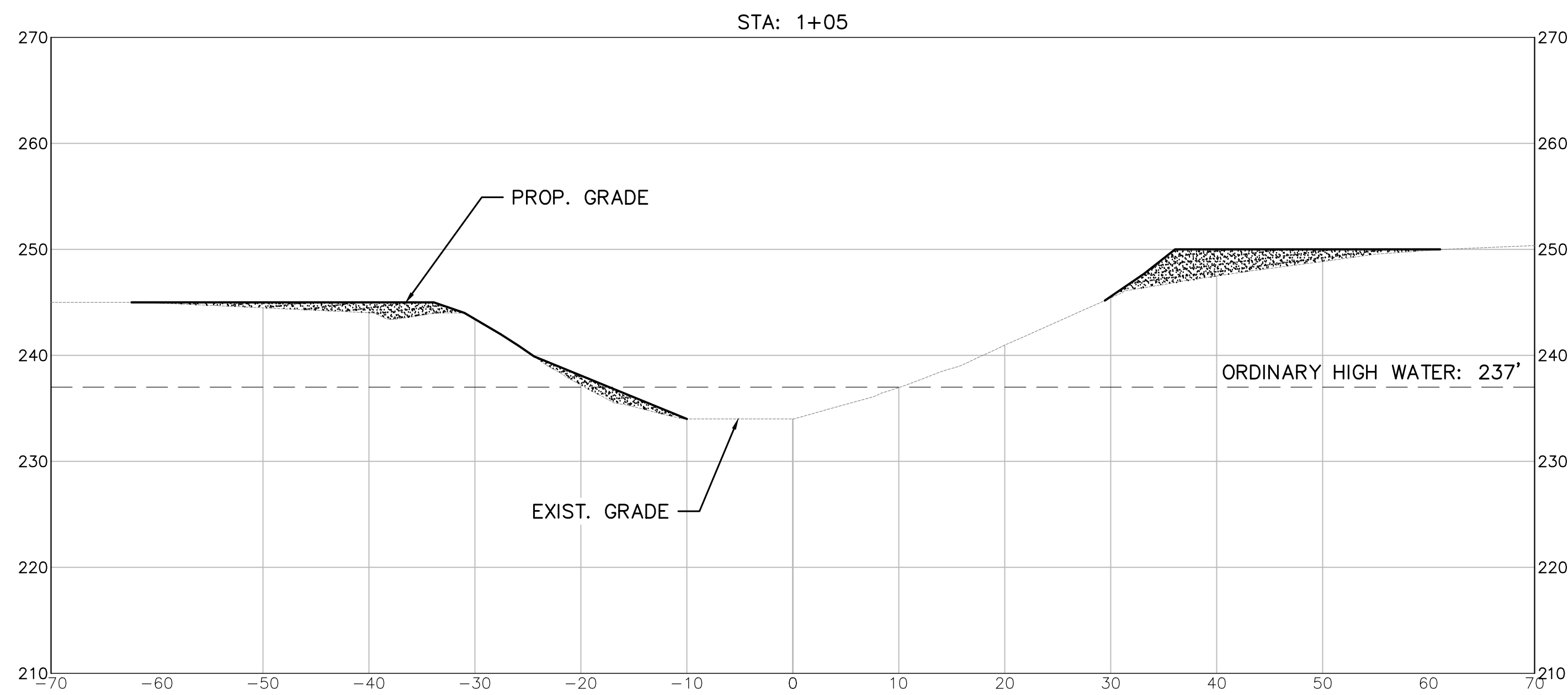


DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0- FB SUBMITTAL
(02/04/2026)

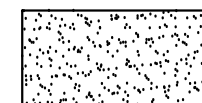
SHEET TITLE
NAILS CREEK
CROSS SECTION
SHEET 1 OF 3

SHEET NUMBER

C-10



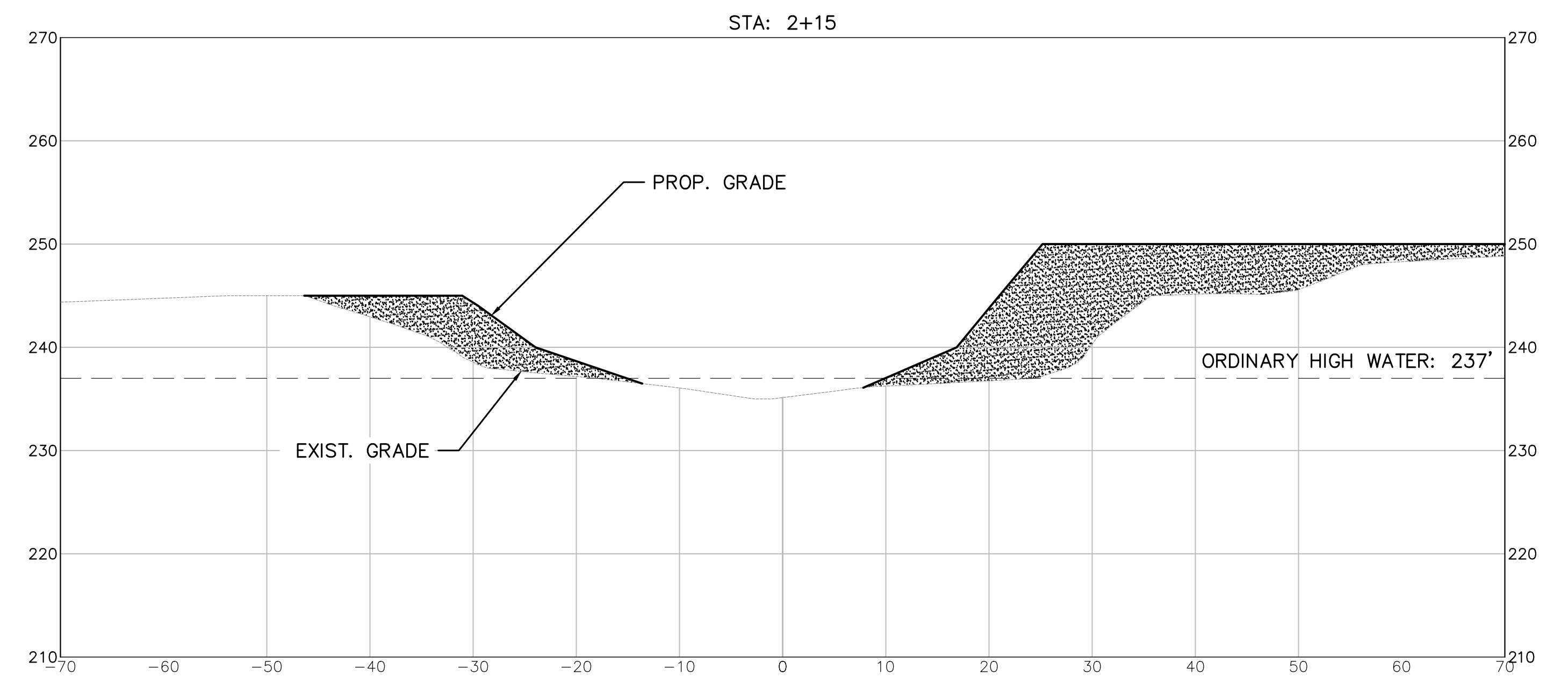
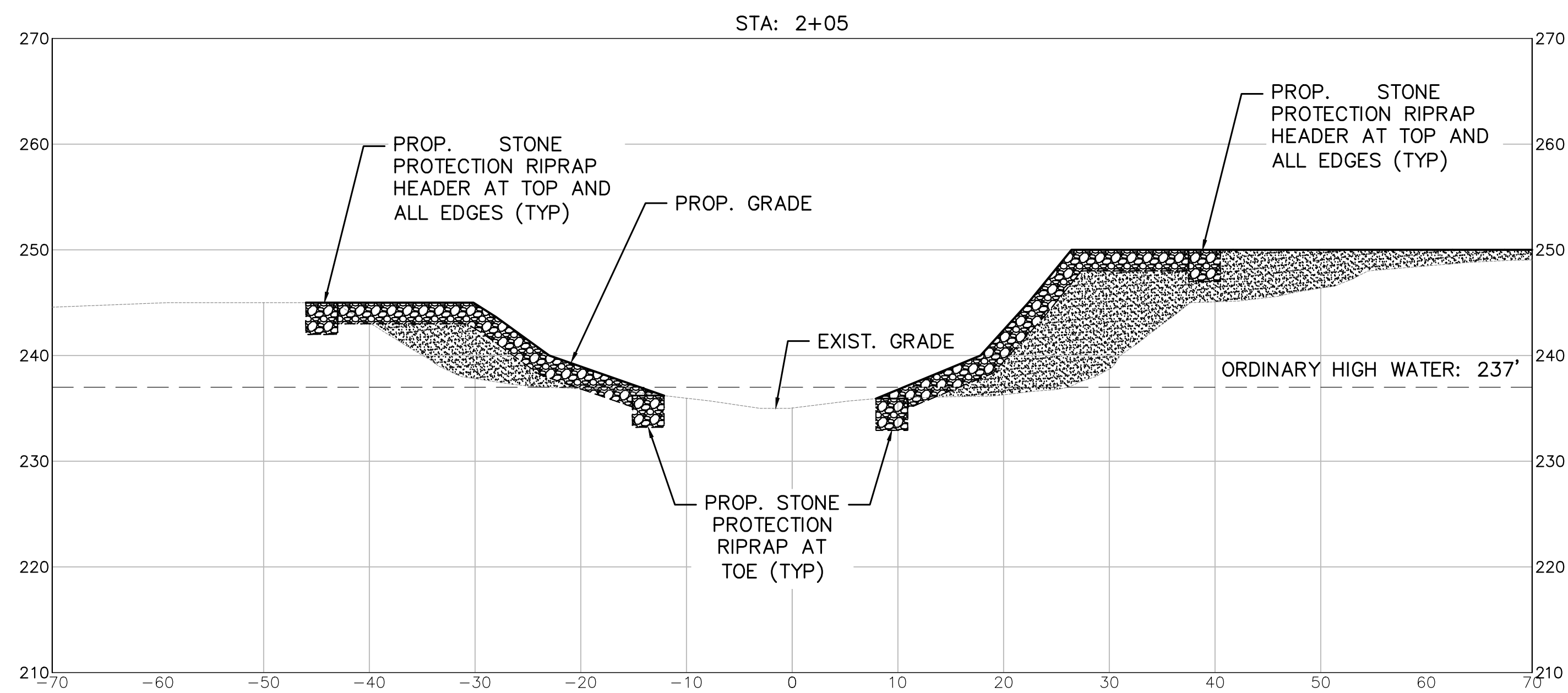
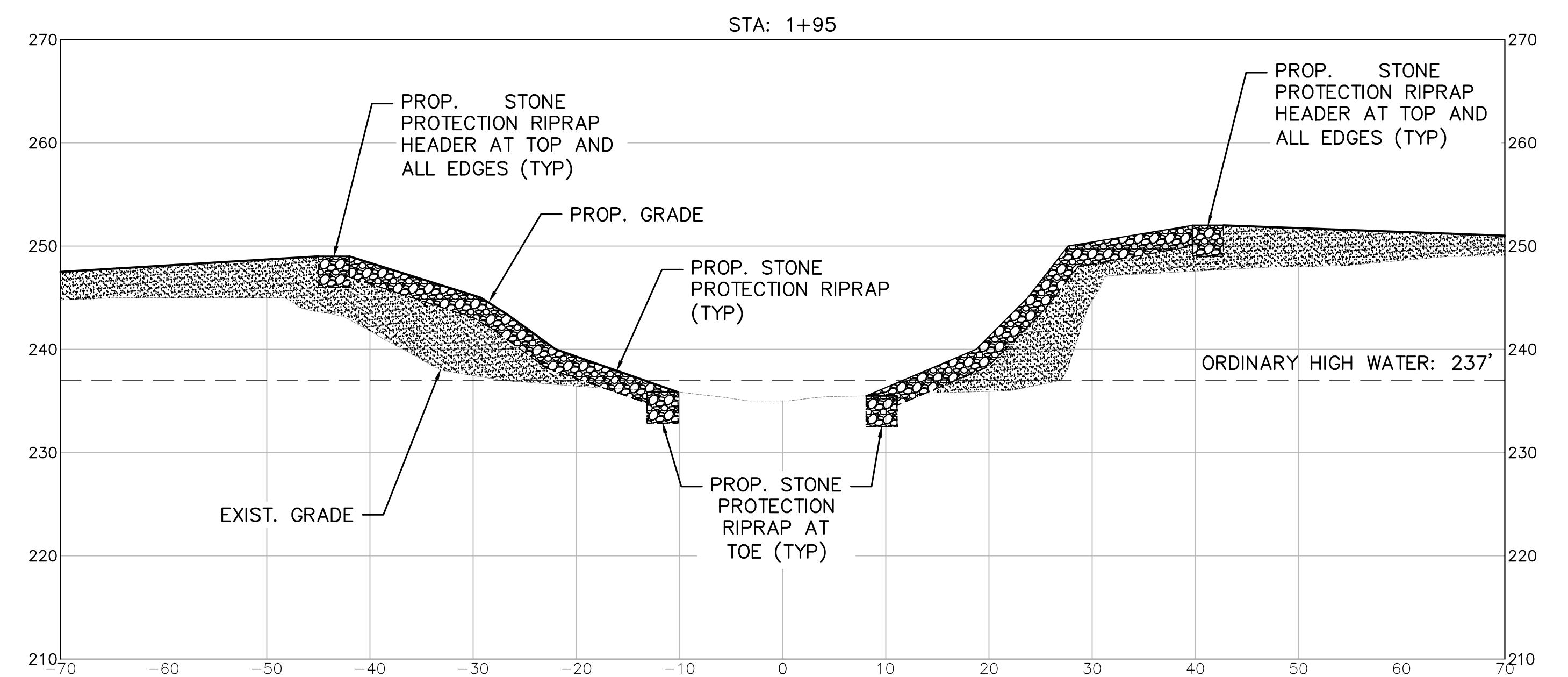
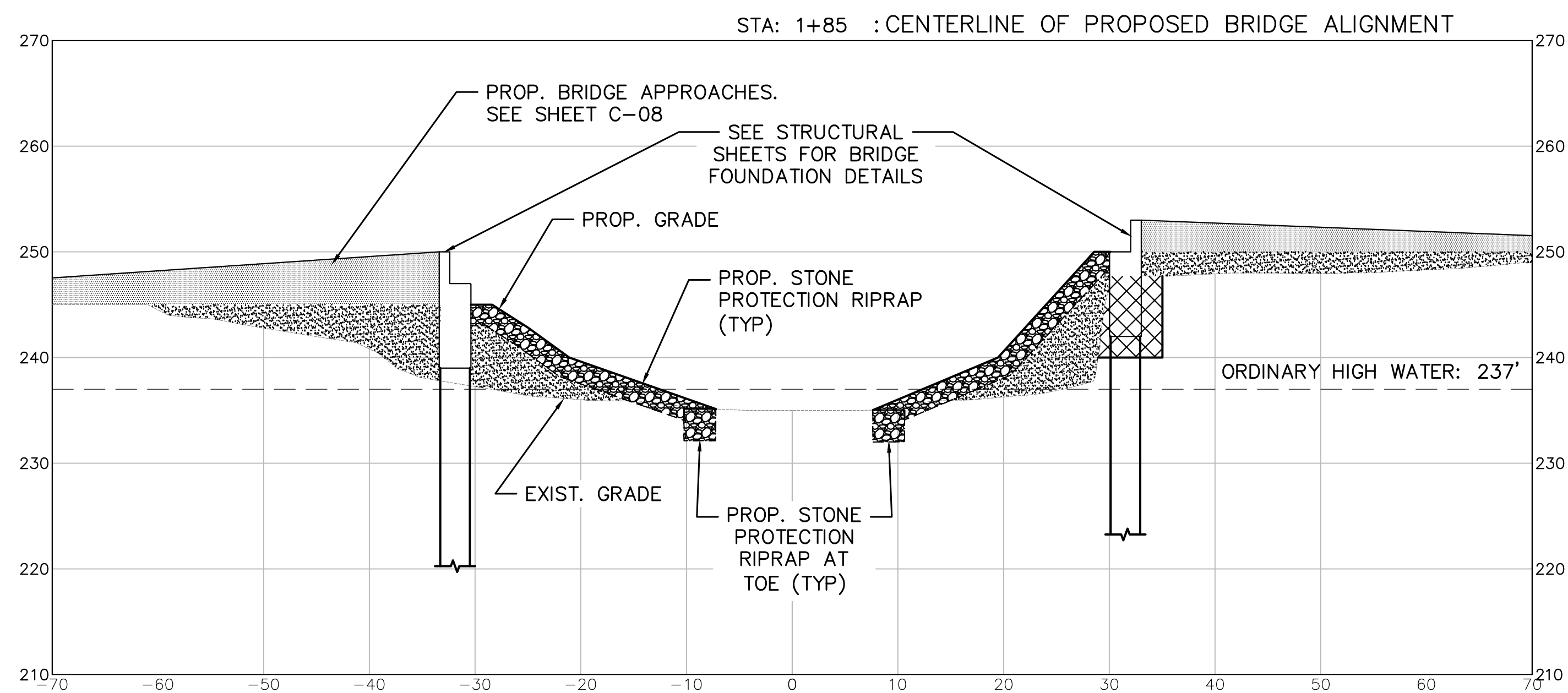
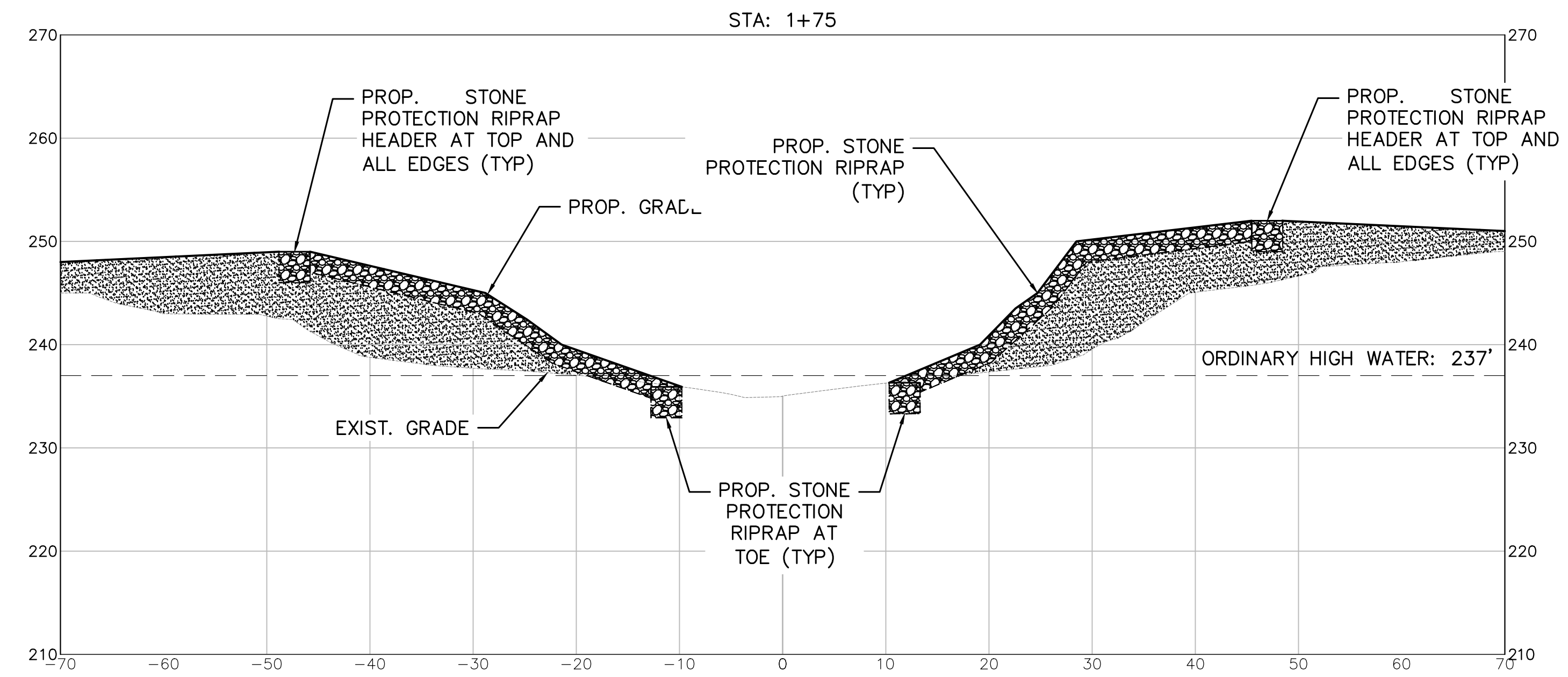
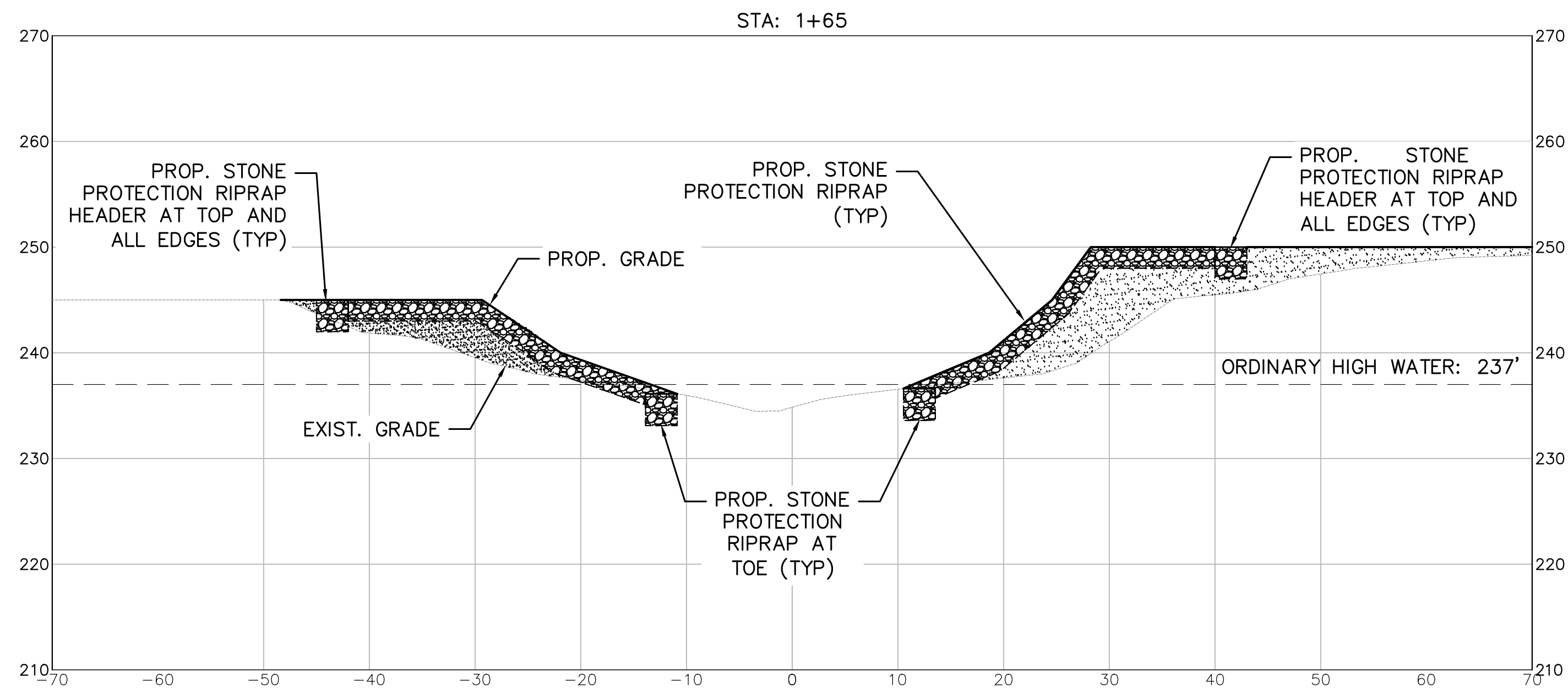
LEGEND



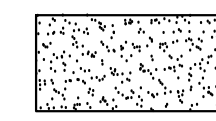
PROPOSED FILL



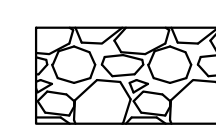
PATH: P:\133\10060-001\4-0-Production-Working\4-1-BIM-CAD\Civil\Sheets\C-XX - CREEK CROSS SECTIONS.dwg



LEGEND



PROPOSED FILL
(NOTE 1)



PROP. STONE
PROTECTION RIPRAP
(NOTE 2)

NOTE

1. SEE SHEET C-19 FOR TYPICAL CREEK EMBANKMENT RESTORATION AND FILL REQUIREMENTS.
2. SEE SHEET C-19 FOR TYPICAL STONE PROTECTION RIPRAP DETAILS AND REQUIREMENTS.

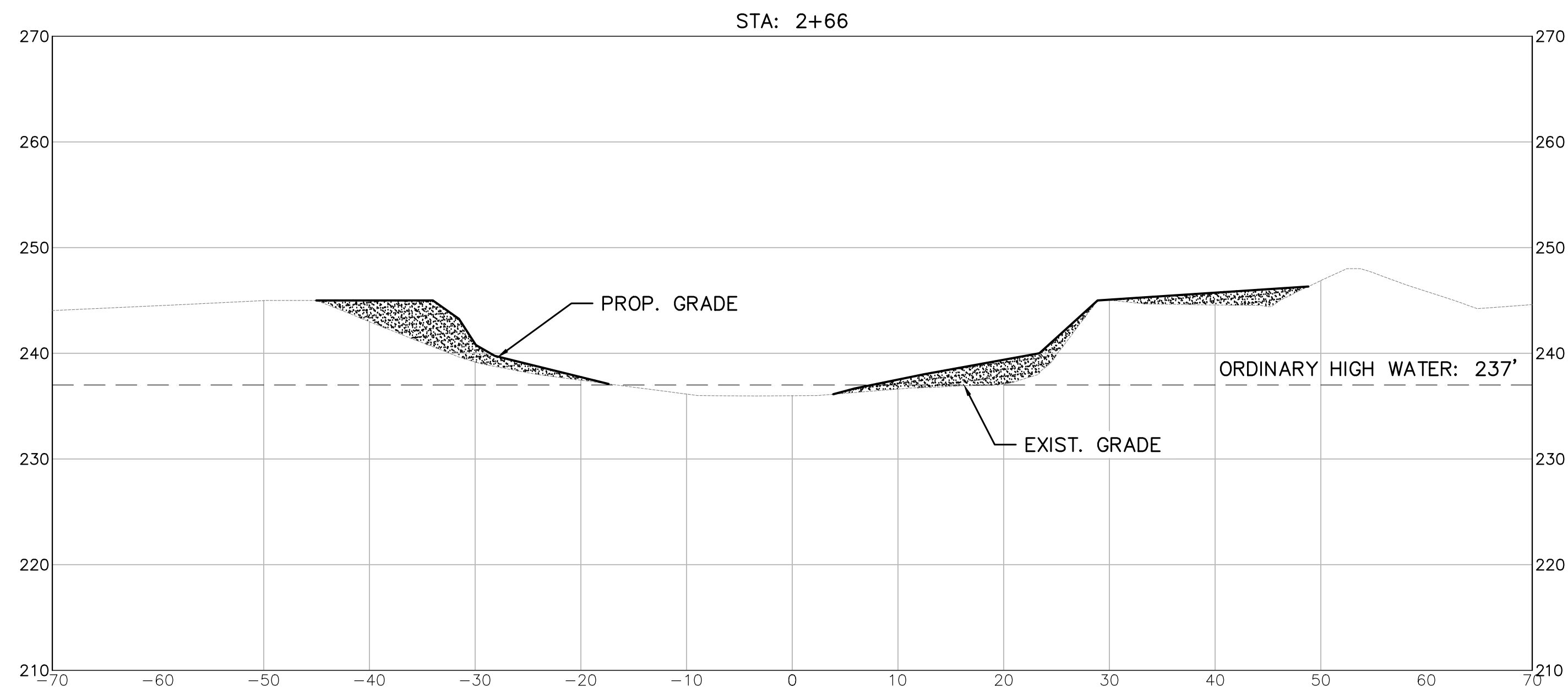
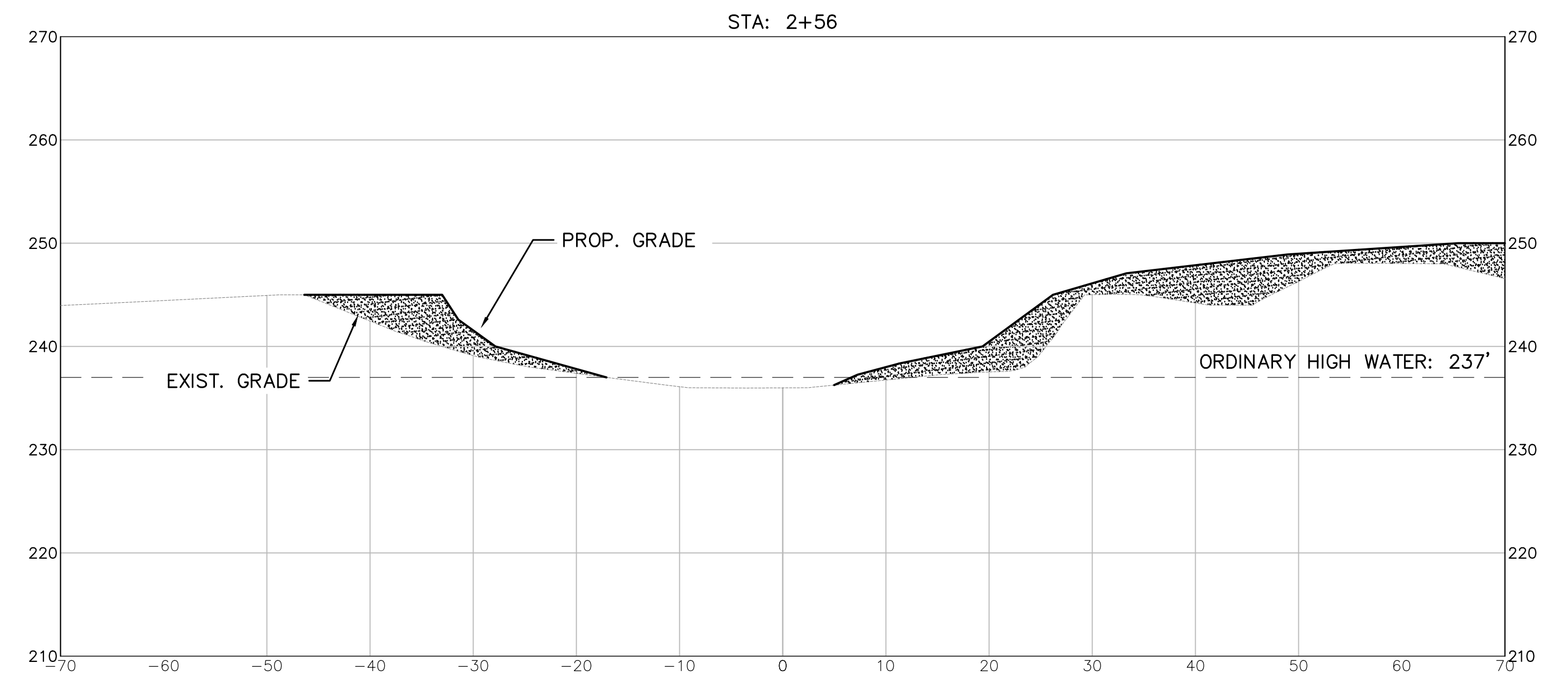
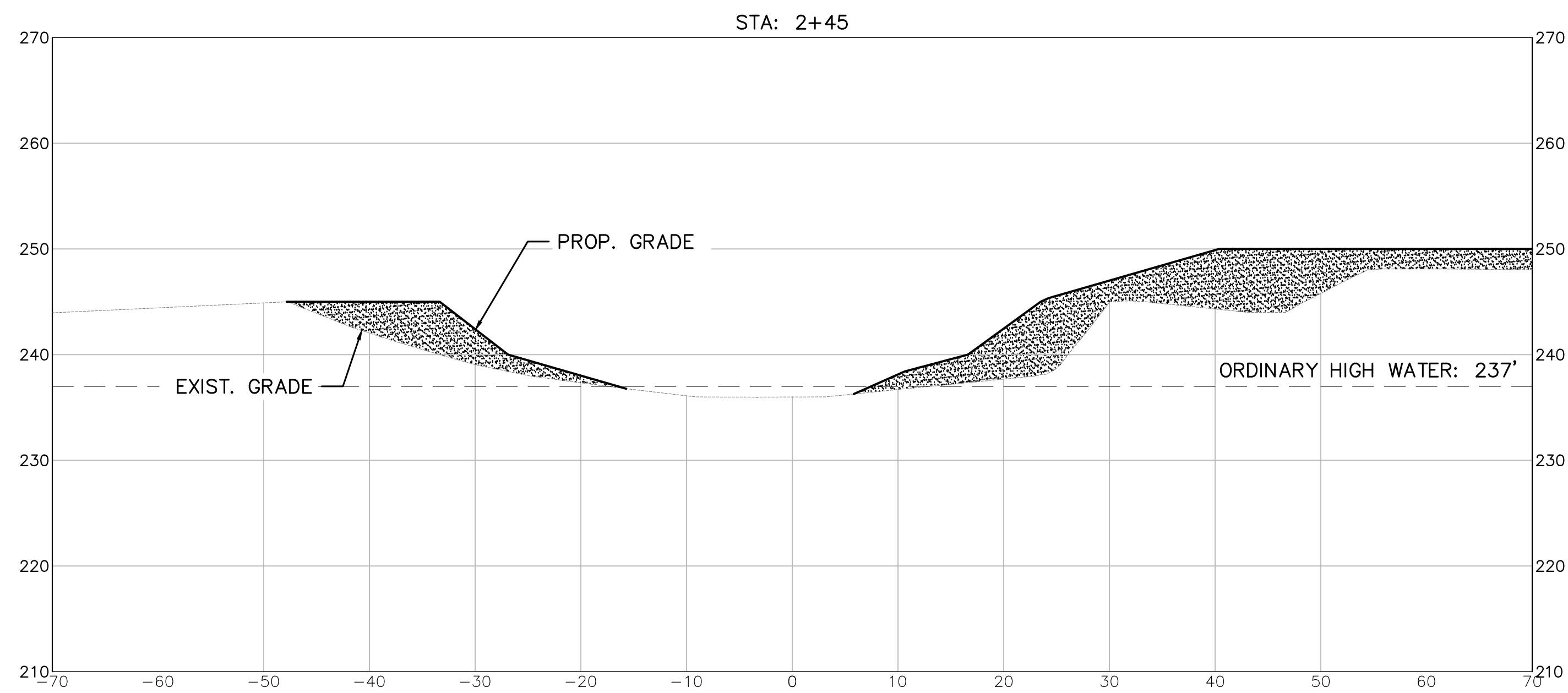
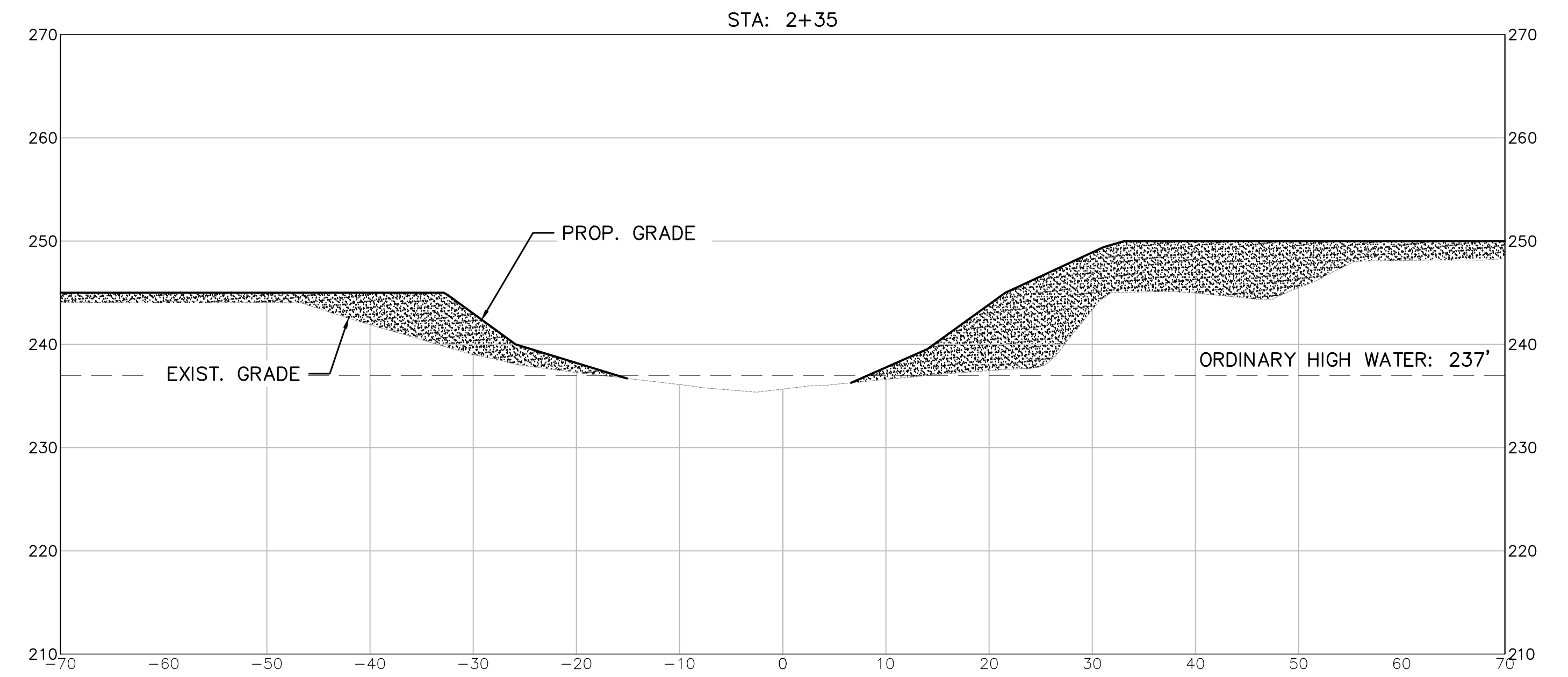
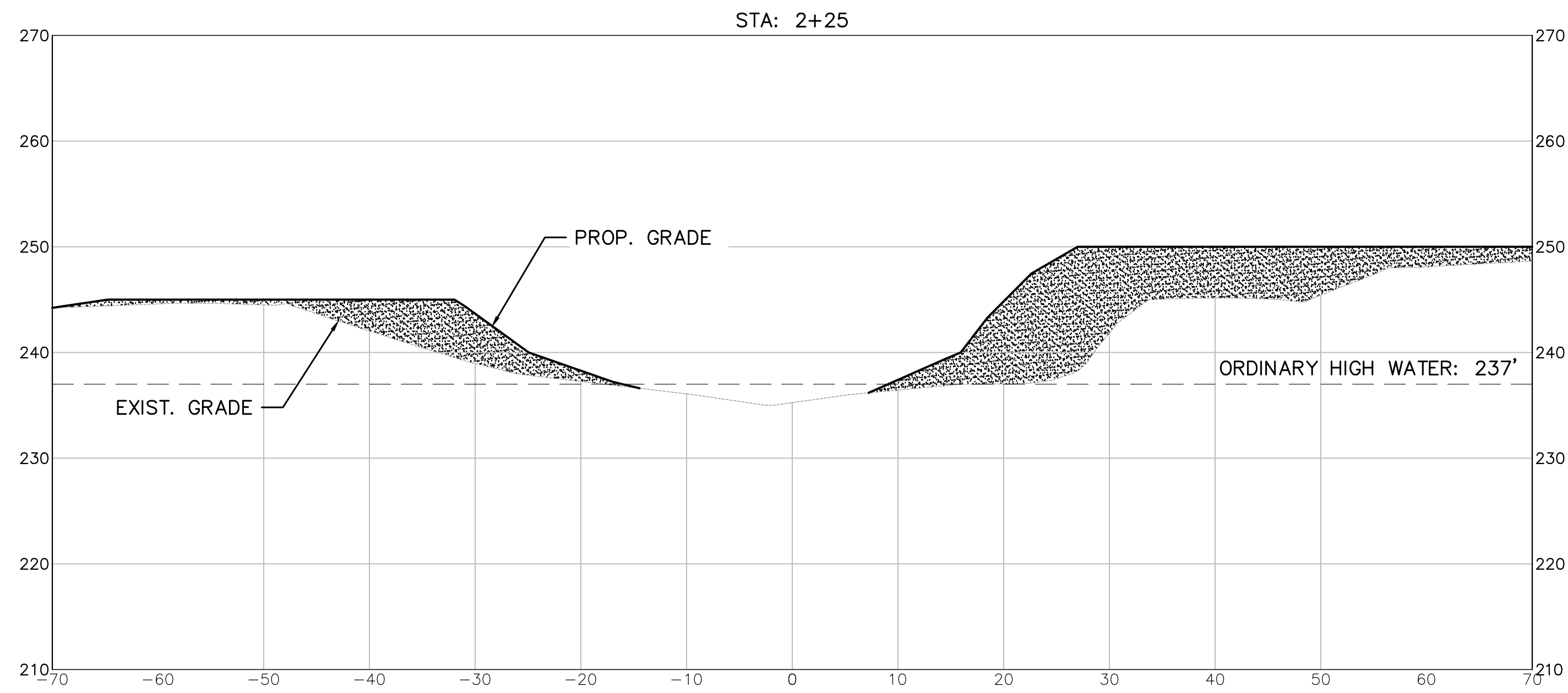


PATH: P:\133\10060-001\4-0-Production-Working\4-1-BIM-CAD\Civil\Sheets\C-XX - CREEK CROSS SECTIONS.dwg

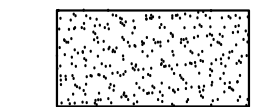
DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0- FB SUBMITTAL
(02/04/2026)

SHEET TITLE
**NAILS CREEK
CROSS SECTION
SHEET 3 OF 3**

SHEET NUMBER
C-12



LEGEND



PROPOSED FILL



SMH
2/6/26



NOTES

1. SEE GEOTECHNICAL ENGINEERING REPORT BY ALPHA TESTING DATED MARCH 27, 2024 (UES PROJECT NO. 23-0722).

LEGEND

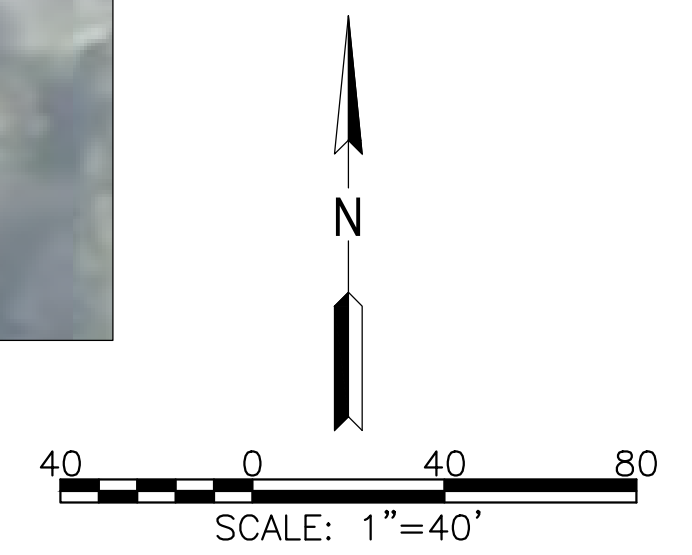
- XXX--- EXISTING CONTOURS
- XXX--- PROPOSED CONTOURS
- [Patterned Box] PROPOSED GRAVEL BRIDGE APPROACH & TRAIL (SEE SHEET C-20)
- [Truss Symbol] PROPOSED CONCRETE ABUTMENT AND RUB RAILS (SEE SHEET C-20)
- [Line with Circle] PROPOSED RUB RAIL (SEE SHEET C-20)
- [Gabbion Box] PROP. GABION BASKETS (SEE SHEET C-19)
- (XX) COORDINATE POINT
- [Compass Symbol] BORE HOLE LOCATION (SEE NOTE 1)

TABLE 1 - TRAIL BASELINE

POINT	STATION	NORTHING	EASTING
A1	0+00	10,098,199.58	3,438,828.84
A2	0+40	10,098,224.14	3,438,860.42
A3	0+80	10,098,258.78	3,438,880.42
A4	2+04	10,098,380.75	3,438,907.97
A5	2+46	10,098,417.81	3,438,926.23
A6	2+87	10,098,459.22	3,438,928.59
B1	0+00	10,098,393.31	3,438,689.27
B2	1+29	10,098,329.12	3,438,801.26
B3	2+50	10,098,303.56	3,438,919.65
B4	3+38	10,098,310.92	3,439,007.93
B5	4+64	10,098,356.74	3,439,126.06

TABLE 2 - BORING LOCATIONS

BORING NO.	DEPTH FEET BGS	SURFACE ELEVATION	GPS LOCATION	
			NORTHING	EASTING
B-03	60	245	10,098,278.300	3,438,871.492
B-04	60	246	10,098,330.879	3,438,903.103



STATE OF TEXAS
SCOTT M. HARRIS
99261
LICENSED PROFESSIONAL ENGINEER
2/6/26

LAKE SOMERVILLE TRAILWAY
TRAIL BRIDGE REPLACEMENTS
PROJECT NO. 1211815

DESIGNED BY: RJR
DRAWN BY: GG
REVIEWED BY: SMH
REVISION:
0- FB SUBMITTAL (02/06/2024)

SHEET TITLE
YEGUA CREEK
OVERALL VIEW

SHEET NUMBER
C-13