
MEETING NOTICE

The City Council of the City of Woodcreek, Texas will conduct a meeting at Woodcreek City Hall, 41 Champions Circle, Woodcreek, Texas. The meeting will be held on Wednesday, January 22, 2025 at 5:30 PM. The public may watch this meeting live at the following link: [Click here to Join](#)
Meeting ID: 941 9630 0054 Passcode: 319426

A recording of the meeting will be made and made available to the public on the city's website:
<https://www.woodcreektx.gov>

AGENDA

CALL TO ORDER

MOMENT OF SILENCE

PLEDGES

ROLL CALL and ESTABLISH QUORUM

PUBLIC COMMENTS

This provides an opportunity for the citizens to comment on agenda and non-agenda items in advance of the regular business of the City Council. Those wishing to speak must sign-in before the meeting begins and observe a three-minute time limit when addressing the City Council. Speakers will have one opportunity to speak during the time period. Comments from speakers should not be directed towards any specific member of the Council or City staff. Comments should not be accusatory, derogatory or threatening in nature.

Submit written comments by email to woodcreek@woodcreektx.gov by 12:00 noon, the day prior to the meeting. Please include your full name, home or work address, and the agenda item number.

CONSENT CALENDAR

1. Approve City Council Meeting Minutes from January 8th 2025.

REPORTS FROM OFFICERS AND COUNCIL LIAISONS

2. - Update on LCRA Creekside Grant
- Update on General Land Office Resiliency Grant for Comprehensive Plan and Code updates

PROCLAMATIONS and PRESENTATIONS

REGULAR AGENDA

3. WORKSHOP: Community Development Block Grant Deerfield Drive plan review.
4. Discuss and take possible action on workshopped Community Development Block Grant Deerfield Drive plan.
5. WORKSHOP: City of Woodcreek new website.

6. Discuss and take possible action on workshopped City of Woodcreek website.
7. Discuss and take appropriate action on approving city arborist We Love Trees to trim oak trees in the public parks of the City of Woodcreek, not to exceed \$5,000 from the arborist budget line item to be completed by the trimming deadline of January 31, 2025.

COUNCIL CONSIDERATIONS FOR AGENDA ITEMS AT NEXT REGULAR COUNCIL MEETING

ANNOUNCEMENTS

ADJOURN

The City of Woodcreek is committed to compliance with the Americans with Disabilities Act. Reasonable modifications and equal access to communications will be provided upon request. Please call the City Secretary's Office at 512-847-9390 for information. Hearing-impaired or speech disabled persons equipped with telecommunications devices for the deaf may call 7-1-1 or may utilize the statewide Relay Texas program at 1-800-735-2988.

EXECUTIVE SESSION NOTE: The City Council may adjourn into Executive Session to consider any item listed on this agenda if a matter is raised that is appropriate for Executive Session discussion. An announcement will be made of the basis for the Executive Session discussion. The City Council may also publicly discuss any item listed on the agenda for Executive Session.

POSTING CERTIFICATION

IT IS HEREBY CERTIFIED that the foregoing agenda has been posted on the outdoor Notice Board of Woodcreek City Hall on the 17th day of January, 2025 at 4:00PM.

By:

Kari Lebkeucher, City Secretary

City Council Meeting (CITY HALL)

January 8, 2025; 5:30 PM

Woodcreek, Texas

MINUTES

CALL TO ORDER

MOMENT OF SILENCE

PLEDGES

ROLL CALL and ESTABLISH QUORUM

PRESENT

Mayor Jeff Rasco

Mayor Pro Tem Chrys Grummert

Council Member Debra Hines

Council Member Krista Richardson

Council Member Linnea Bailey

Council Member Rusell Scott

CITY STAFF PRESENT

City Administrator Jim Burton

City Secretary Kari Lebkuecher

City Clerk Taffy Barker

City Attorney Stan Springerley

PUBLIC COMMENTS

One public comment was made

CONSENT CALENDAR

1. **Approval of minutes from Regular City Council Meeting on November 13, 2024.**
2. **Approval of minutes from Regular City Council Meeting on December 11, 2024.**
3. **Approval of minutes from Special City Council Meeting on December 16, 2024.**

A motion was made by Council Member Debra Hines to approve all agenda minutes in consent calendar. Motion was seconded by Mayor Pro Tem Chrys Grummert.

A vote was held by show of hands. Motion passed 5-0-0

REGULAR AGENDA

5. **Discuss and take possible action on City Engineer's recommendation on the locations and type of advanced warning for speed cushions. (Burton)**
Mayor Pro Tem Chrys Grummert moves that council remove the Safety Enhancement plan with the six speed cushion warning signs previously

authorized and instead go with street painting advance warning per the city's engineer packet at the locations of the speed cushions that are to be installed. Seconded by Council Member Krista Richardson. (handout given from FreelandTurk)

A vote was held by show of hands. Motion failed 0-5-0

A motion was made by Council Member Debra Hines to move to original ten cushion warning signs. Seconded by Council Member Linnea Bailey.

A vote was held by show of hands. Motion passed 5-0-0

6. Discussion and possible action to approve the application of Shannon Suberbielle-Claussen as a member of the Tree Board. (Bailey)

A motion was made by Council Member Linnea Bailey to add Shannon Suberbielle-Claussen to become a member of the Tree Board. Seconded by Council Member Russell Scott.

A vote was held by show of hands. Motion passed 5-0-0

7. Discuss and take possible action to upgrade audio and video equipment in City Council Chambers as designed and to be implemented by Texas State student Wyatt McCarthy. (Rasco)

Mayor Pro Tem Chrys Grummert moves that council upgrades the audio and video equipment within City Council Chambers as designed and implemented by Texas State student Wyatt McCarthy not to exceed \$1,000. Seconded by Council Member Russell Scott.

Council Member Debra Hines amends to add to Capital Improvements of City Hall Budget to pay. Seconded by Mayor Pro Tem Chrys Grummert.

A vote was held by show of hands. Motion passed 5-0-0

Second amendment was made by Council Member Debra Hines to strike \$1,000 budget and change to \$1,500. Seconded by Council Member Krista Richardson.

A vote was held by show of hands. Motion passed 5-0-0

A vote was held on the main motion as amended. Motion passed 5-0-0

8. Discuss and take possible action to amend Right-of-Way Sign Ordinance section 152.25 (C)(5) of the City of Woodcreek related to permit applications and applicable fees. (Grummert)

Mayor Jeff Rasco removes this item from agenda without objection.

9. Discuss and take possible action to update the Master Rate Schedule related to various municipal services requiring fees. (Burton)

Mayor Pro Tem Chrys Grummert moves that council update the Master Rate Schedule related to various municipal services requiring fees. Seconded by Council Member Russel Scott.

Council Member Debra Hines amends by sending to legal council to draft an ordinance for appropriate Master Rate Schedule, Attorney Stan Springerley stating no more than 30-day deadline. Seconded by Mayor Pro Tem Chrys Grummert.

A vote was held by show of hands. Motion passed 5-0-0

A vote was held on the main motion as amended. Motion passed 5-0-0

10. Discuss and take possible action to add a rainwater harvest collection system to the Creekside public bathroom project and use for applying for the LCRA Grant. (Grummert)

Mayor Pro Tem Chrys Grummert moves to include the rainwater harvest collection system cost summary as part of the LCRA grant application. Seconded by Council Member Krista Richardson.

A vote was held by show of hands. Motion passed 4-1-0

RECESS 7:35 PM – 7:45 PM

11. EXECUTIVE SESSION- To consult, receive, and seek advice from attorney pursuant to Section 551.071 of the Texas Government Code related to legal requirements for advisory committees, including but not limited to scope of review authority and legal compliance considerations.

WENT INTO EXECUTIVE SESSION AT 7:46 PM

CAME OUT OF EXECUTIVE SESSION AT 8:30 PM

12. Discuss and take any necessary action regarding direction to city attorney related to proposed ordinances for streamlining advisory committees to bring back to council for future consideration.

Council Member Debra Hines moves to retain Planning and Zoning Commission as is and reduce required members to five, not including Ordinance Review Committee duties. Seconded by Mayor Pro Tem Chrys Grummert.

A vote was held by show of hands. Passed 5-0-0

Council Member Debra Hines moves to appeal Ordinance Review Committee ordinance in its entirety. Seconded by Council Member Krista Richardson.

A vote was held by show of hands. Passed 5-0-0

Council Member Debra Hines moves to combining Parks and Recreation Board with the Tree Board and to have full TOMA compliance. Seconded by Mayor Pro Tem Chrys Grummert.

A vote was held by show of hands. Passed 5-0-0

Council Member Debra Hines moves to repeal Infrastructure and Mobility Panel in its entirety. Seconded by Mayor Pro Tem Chrys Grummert.
A vote was held by show of hands. Passed 5-0-0

Council Member Debra Hines motions to make a Community Relations Committee with full TOMA compliance. Seconded by Council Member Russell Scott.
A vote was held by show of hands. Motion passed 5-0-0.

COUNCIL CONSIDERATIONS FOR AGENDA ITEMS AT NEXT COUNCIL MEETING

A workshop will be held on January 22 to discuss the Deerfield design plan as well as new city website launch.

ANNOUNCEMENTS

Retreat will be held on January 15, 2025 from 8:00am-4:30pm at CYJ.

ADJOURN

Motion was made to adjourn by Mayor Pro Tem Chrys Grummert. Motion was seconded by Council Member Linnea Bailey.
Meeting adjourned by Mayor Jeff Rasco at 8:44pm.

BY: _____
Kari Lebkuecher, City Secretary

CITY OF WOODCREEK

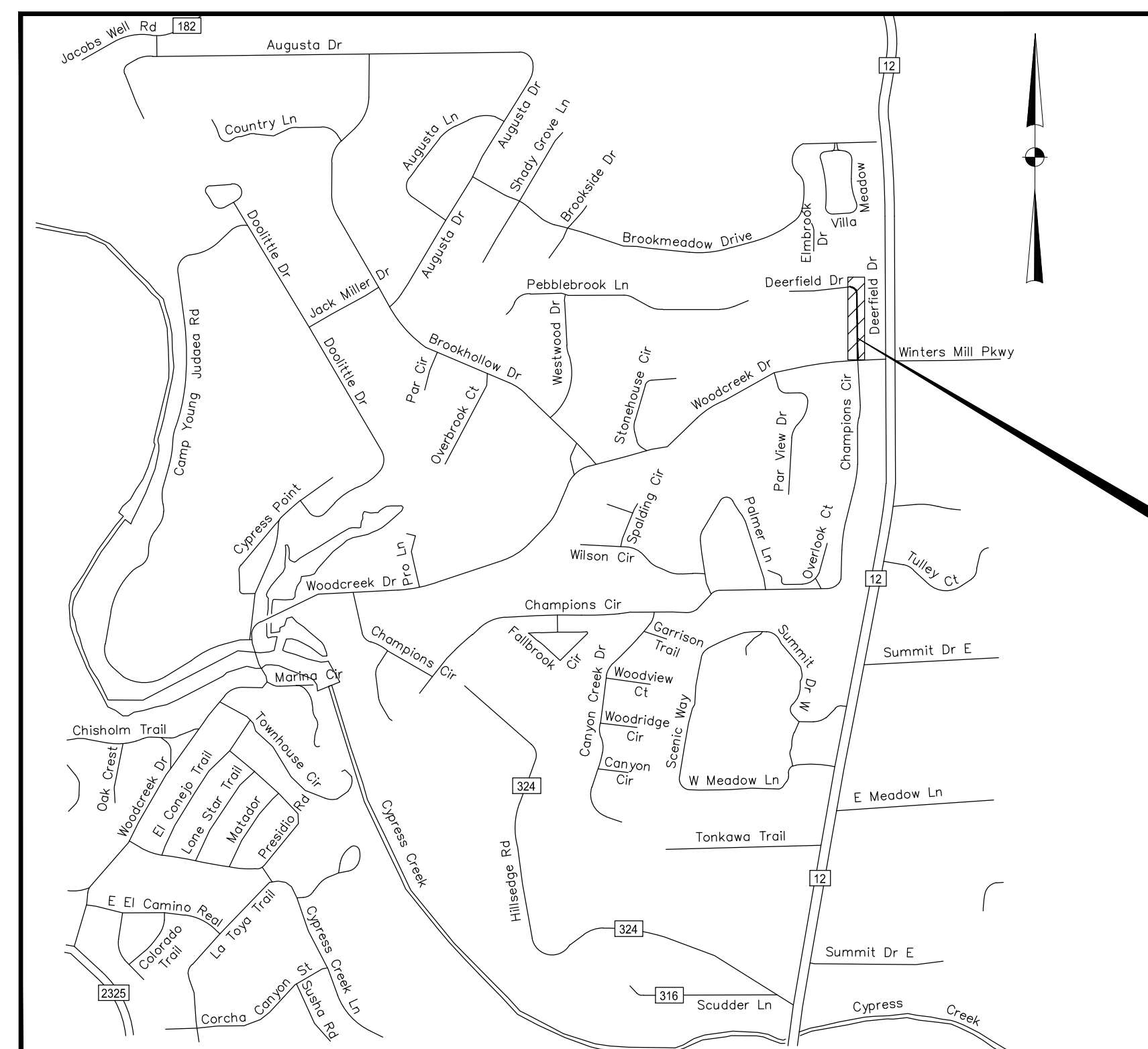
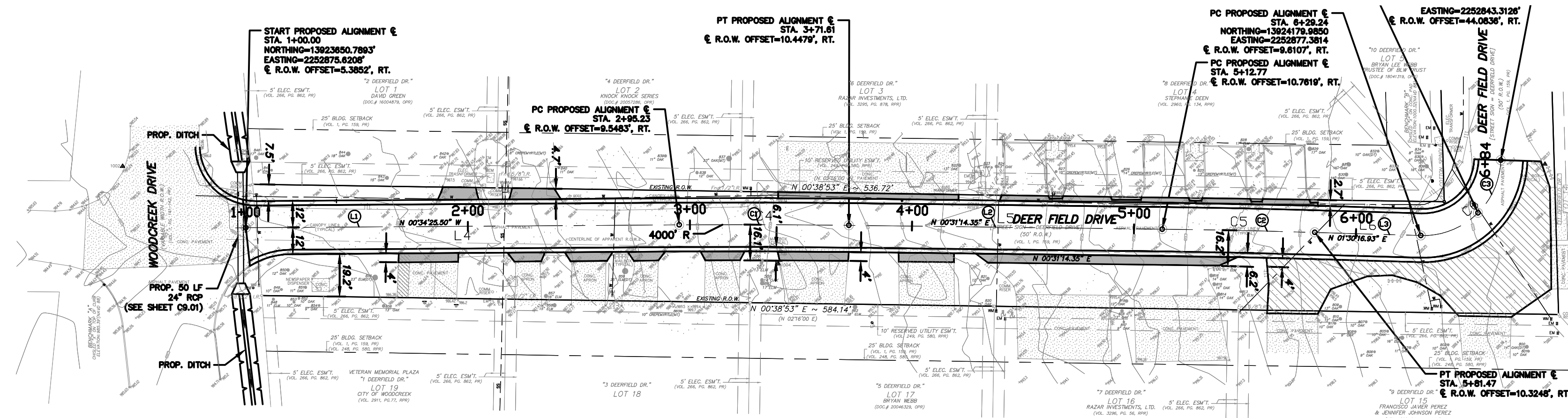
(HAYS COUNTY, TX.)

REHABILITATION OF DEERFIELD DR.

CIVIL SITE PACKAGE

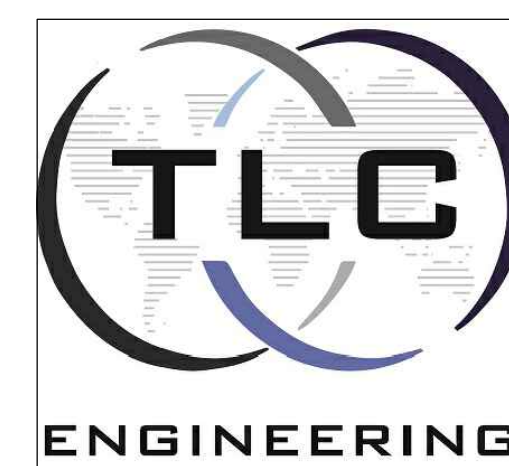
DEERFIELD DRIVE

WOODCREEK TEXAS, 78676

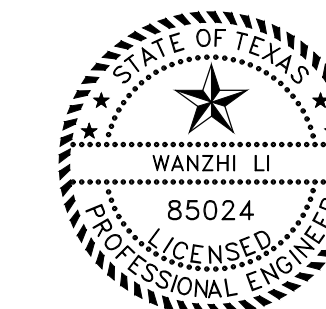


LOCATION MAP

PROJECT LOCATION



8204 WESTGLEN DRIVE
 HOUSTON, TEXAS 77063
 Phone: 713-868-6900 Fax: 713-868-0001
 www.tlceng.com



100% SUBMITTAL

REV. NO.	DATE		P.E. APPR.

(Design Engineer) (Design Firm)	DATE:
_____, P.E. Director of Engineering	DATE:

INDEX OF SHEETS

SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
C0.00	COVER	C6.04	CROSS SECTIONS - STA 4+25.00 TO STA 6+00.00
C0.01	INDEX SHEET	C6.05	CROSS SECTIONS - STA 6+25.00 TO STA 6+75.00
C0.02	DESIGN NOTES	C7.01	PAVING NOTES AND DETAILS SHEET (1 OF1)
C0.03	GENERAL NOTES AND LEGEND	C7.02	DRIVEWAY NOTES AND DETAILS
C0.04	SUMMARY OF QUANTITIES	C7.03	SWPPP SHEET
C1.01	TOPOGRAPHIC SURVEY (1 OF 1)	C7.04	SWPPP NOTES AND DETAILS
C2.01	DEMOLITION PLAN	C7.05	CONSTRUCTION SEQUENCE SHEET
C3.01	PLAN AND PROFILE 1 OF 2	C7.06	TREE PROTECTION DETAIL
C3.02	PLAN AND PROFILE 2 OF 2	C8.01	PAVEMENT MARKINGS AND SIGNAGE
C4.01	DETAIL SHEET	C8.02	PAVEMENT MARKINGS DETAILS
C5.01	SITE GRADING PLAN	C8.03	SIGN MOUNTING DETAILS
C6.01	TYPICAL SECTIONS	C9.01	CULVERT EXHIBIT
C6.02	CROSS SECTIONS - STA 0+25.00 TO STA 2+00.00	C9.02	CULVERT DETAILS
C6.03	CROSS SECTIONS - STA 2+25.00 TO STA 4+00.00		

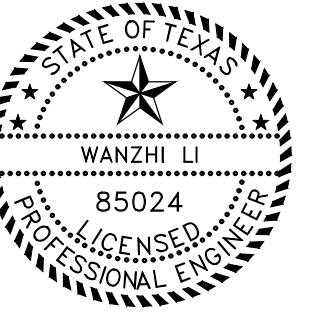
NOTE:
 CONTRACTOR TO CONTACT CITY OF WOODCREEK CITY ADMINISTRATOR, JIM BURTON MIN. 48 HOURS PRIOR TO CONSTRUCTION @ 512-847-9390

FOR PERMITTING ONLY



ENGINEERING

8204 Westglen Drive
Houston, Texas 77063
713.868.0001 WWW.TLCeng.com
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CITY OF WOODCREEK
DEERFIELD DRIVE
WOODCREEK Texas, 78676

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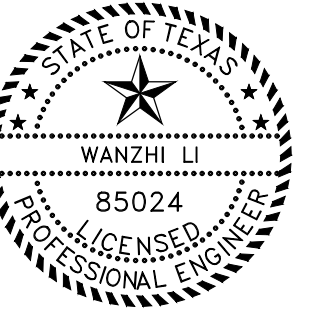
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INDEX SHEET

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CITY OF WOODCREEK
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DESIGN NOTES:

1. ALL MEASUREMENTS ARE CALLED OUT IN AMERICAN UNIT, FEET AND INCHES.
2. DESIGN SHOULD ABIDE BY TXDOT STANDARD SPECIFICATIONS, ROADWAY DESIGN MANUAL, PAVEMENT MANUAL AND RELATED STANDARDS.
3. ACCORDING TO CITY OF WOODCREEK REQUEST, THE TRAVEL LANE WIDTH LIMITS TO TEN FEET (10'-0").
4. THE ROADWAY SHOULD FURNISH TWO FEET (2'-0") SHOULDERS ALONG THE BOUNDARIES OF BOTH EAST AND WEST TRAVEL LANES.
5. THE ROADWAY ALIGNMENT WAS FORMED FOLLOWING THE EXISTING PAVEMENT ROUTE AND BOUNDARIES TO PROVIDE SIX FEET (6'-0") CLEARANCE BETWEEN THE EAST TRAVEL LANE AND THE EXISTING TREES FOR BYPASSING TREE REMOVAL AND FOUR FEET (4'-0") CLEARANCE BETWEEN THE WEST TRAVEL LANE AND EXISTING COMMUNICATION RISERS FOR SHELTERING THE RISERS.
6. BASED ON THE SURVEY DATA REPORTED, THE ROADWAY PROFILE ACCOMMODATES THE SCATTERED ELEVATIONS OF THE EXISTING ROADWAY PAVEMENT BY MEANS OF CURVE FITTING.
7. EXISTING PAVEMENT EXCAVATION AND STABILIZATION TREATMENT UPGRADING:
 - A DEMOLITION WIDTH SHOULD BE A MINIMUM OF TWENTY-FIVE FEET (25'-0") CONSISTING OF TWO TEN FEET (2 X 10'-0") TRAVEL LANES, A COMBINED FOUR FEET (4'-0") SHOULDERS, AND ONE-FOOT WORKING SPACE.
 - DEMOLITION DEPTH SHOULD REACH TO THE TOP OF THE EXISTING STABILIZATION TREATMENT LAYER.
 - REMOVE ALL LOOSE MATERIALS, DEBRIS, AND BLOW OUT DUST.
 - THE EXISTING STABILIZATION TREATMENT LAYER SHOULD BE INSPECTED AND ASSESSED.
 - CONFIRM THAT THE EXISTING STABILIZATION TREATMENT LAYER IS CONSOLIDATED AND FIRM WITH ADEQUATE STRENGTH FOR CAPABLE OF SUSTAINING THE NEW PAVEMENT DEADLOAD AND VEHICULAR TRAFFIC LOADS CONFORM TO TXDOT PAVEMENT MANUAL AND CST_TIPS_053QTR TABLE-1.
 - IF NECESSARY, EXISTING STABILIZATION TREATMENT LAYER MODIFICATION OR UPGRADING SHOULD BE CONDUCTED TO ENHANCE THE STRENGTH OF THE EXISTING TREATMENT LAYER OR TO INCREASE THE THICKNESS OF THE TREATMENT LAYER FOR ATTAINING THE DESIGNED ROADWAY ELEVATION.
 - BASED ON THE TOTAL DESIGNATED ASPHALT PAVEMENT THICKNESS OF FOUR AND HALF INCHES (4 1/2"), THE TOP ELEVATION OF THE STABILIZATION TREATMENT SHOULD NOT BE HIGHER THAN THE SPECIFIED LEVEL THAT EQUALS TO THE DESIGNATED ROADWAY ELEVATION MINUS FOUR AND HALF INCHES (4 1/2").
 - EITHER LIME STABILIZATION TREATMENT OR CEMENT STABILIZATION TREATMENT CAN BE USED FOR STABILIZATION TREATMENT MODIFICATION OR UPGRADING PER CONTRACTOR'S PREFERENCE UPON APPROVAL BY THE DESIGN ENGINEER.

8. EXISTING SUBGRADE INVESTIGATION AND MODIFICATION:

IT IS MANDATORY TO INVESTIGATE THE EXISTING SUBGRADE CONDITION TO FIND OUT WHETHER THE EXISTING SUBGRADE COVERS THE FULL WIDTH OF THE TWENTY-FIVE FEET (25'-0") PAVEMENT, AS WELL AS THE AREA WHERE THE ROADWAY TURNS NORTHWARD TO WESTWARD, TO DETERMINE WHETHER A SUBGRADE MAKE-UP CONSTRUCTION IS NECESSARY.

OPTION-ONE: CONDUCT SITE BORING AND TEST RIGHT AFTER THE 60% DESIGN SUBMITTAL TO DETERMINE WHETHER SUBGRADE MAKE-UP IS NECESSARY, ESPECIALLY IN THE SCOPE BEYOND THE TWENTY FEET (20'-0") TRAVEL LANES. THEN, INCLUDE THE SUBGRADE MAKE-UP DESIGN IN THE 100% DESIGN SUBMITTAL, IF REQUIRED.

OPTION-TWO: INVESTIGATE THE SUBGRADE CONDITION DURING EXISTING PAVEMENT EXCAVATION OR DEMOLITION CONSTRUCTION TO DETERMINE WHETHER SUBGRADE MAKE-UP IS NECESSARY ON CONDITION THAT SUBGRADE MAKE-UP MATERIALS AND MACHINERY PRESERVED FOR USE WHEN NECESSARY TO PREVENT DELAY OF PROJECT CONSTRUCTION.

9. APPLY 3/16" TACK COAT ATOP THE STABILIZATION TREATMENT LAYER RIGHT BEFORE DEPLOYING THE FIRST COURSE OF ASPHALT FOR BONDING PURPOSE BETWEEN THE STABILIZATION TREATMENT LAYER AND THE FIRST COURSE OF ASPHALT. APPLICATION OF TACK COAT MAY BE ELIMINATED BASED ON ENGINEERING JUDGMENT PERTAINING TO SURFACE ROUGHNESS OF THE STABILIZATION TREATMENT, THE WEATHER DURING CONSTRUCTION AND WORKABILITY OF ASPHALT.

10. HOT MIXTURE AND COLD LAID ASPHALT CONCRETE (HMAC) SHALL BE IMPLEMENTED TO REPAVE THE ROADWAY THAT CONSISTS OF TWO ASPHALT COURSES:

- 2", MAXIMUM OF 2 1/2", SUB-COURSE AS THE BASE LAYER OF THE PAVEMENT.
- 3/16" TACK COAT IN BETWEEN THE TWO COURSES FOR EMULSIFICATION PURPOSE.
- 2", MINIMUM 1 1/2", TOP COURSE AS THE SURFACE OF THE PAVEMENT.

11. IF THE ROADWAY REPAVING CONFLICTS WITH THE EXISTING UTILITIES AND FACILITIES, ESPECIALLY THOSE PRIVATE FACILITIES SUCH AS MAILBOXES BUILT INSIDE THE ROW OF DEERFIELD DRIVE, THE SPECIFIED FACILITIES SHOULD BE DEMOLISHED OR RELOCATED AT THE OWNER'S COST.

12. STORM DRAINAGE DESIGN PERTAINING TO ENVIRONMENTAL ASSESSMENT AND DRAINAGE DESIGN WITH THE FOLLOWING CONSTRUCTION:

- FURNISH A 24" CULVERT, AS SHOWN IN SHEET C9-01, AT THE SOUTH END OF DEERFIELD RD.
- ANY EXISTING SUBSURFACE WATER/SEWER LINE CONFLICT WITH THE CULVERT ALIGNMENT OR ELEVATION SHOULD BE RESOLVED DURING CULVERT CONSTRUCTION.
- OPEN DITCH ALONG THE NORTH EDGE OF WOODCREEK DRIVE, FLOWING WEST TO EAST WITHIN DEERFIELD RD. R.O.W..

IF UTILITIES NEED TO BE RELOCATED, THIS COULD HAVE LONG LEAD AND CREATE PROJECT DELAYS. DESIGN ENGINEER SHOULD COORDINATE/DESIGN TO MINIMIZE DELAY POTENTIAL

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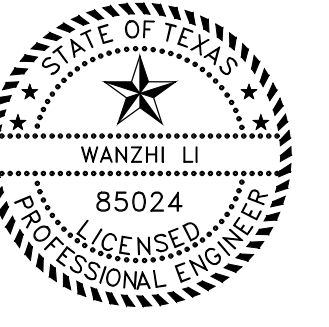
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DESIGN NOTES

C0.02



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CITY OF WOODCREEK
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WOODCREEK Texas, 78676

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SECURITY TO PROTECT THE PROJECT SITE, CONTRACTOR PROPERTY, EQUIPMENT, AND WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING STREETS OF CONSTRUCTION DIRT AND DEBRIS AT CLOSE OF EACH WORK DAY.
4. THE CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF THE JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR, ALONG WITH CONCURRENCE FROM THE FIELD ENGINEER, SHALL DETERMINE HIS/HER LAY-DOWN AND/OR STAGING AREA LOCATIONS.
6. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS A MINIMUM OF 24 HOURS PRIOR TO BLOCKING DRIVEWAYS OR ENTERING UTILITY EASEMENTS.
7. TRAFFIC INGRESS AND EGRESS FOR DRIVEWAYS AND PEDESTRIAN ACCESS FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
8. THE CONTRACTOR SHALL REMOVE ANY FENCES, POSTS, MAILBOXES, PLANTERS, PERMANENT TRASH CONTAINERS, CULVERTS, ETC. OR SECTIONS THEREOF, THAT ENCR OACH WITHIN THE COUNTY'S RIGHT-OF-WAY. NOTE: PRIOR TO CONSTRUCTION, THE PROPERTY OWNER WAS PAID TO RELOCATE OR REPLACE THESE ITEMS OUTSIDE OF THE COUNTY'S RIGHT-OF-WAY. IF THE OWNER HAS FAILED TO DO SO, THE CONTRACTOR WILL REPLACE THEM WITH THE MINIMUM LEVEL OF QUALITY NEEDED TO SECURE THE PROPERTY AND/OR MAINTAIN MAIL DELIVERY. IN THAT CASE, PAYMENT FOR THESE INSTALLATIONS WILL BE INCLUDED AS EXTRA WORK ITEMS OR AS OVERRUNS TO EXISTING PAY ITEMS.

ANY DAMAGE CAUSED BY THE CONTRACTOR TO SUCH ITEMS LOCATED OUTSIDE OF THE COUNTY'S RIGHT-OF-WAY, SHALL BE REPLACED WITH LIKE-KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.

ALSO, IF THESE ITEMS ARE LOCATED WITHIN THE PROJECT RIGHT-OF-WAY AND ARE DESIGNATED TO REMAIN, ANY DAMAGE CAUSED BY THE CONTRACTOR TO SUCH ITEMS, SHALL BE REPLACED WITH LIKE-KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.

TREES, BUSHES, SHRUBBERY AND OTHER DAMAGED PLANTINGS DESIGNATED TO REMAIN SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL AND ARE TO BE THOROUGHLY WATERED-IN. NO SEPARATE PAY.
9. PAVED SURFACES, PAVEMENT MARKERS AND MARKINGS SHALL BE PROTECTED FROM DAMAGE BY TRACKED EQUIPMENT.
10. IRON RODS DISTURBED DURING CONSTRUCTION ARE TO BE REPLACED BY A REGISTERED PROFESSIONAL LAND SURVEYOR FOR THE ORIGINAL PROPERTY OWNER AT NO SEPARATE PAY.
11. CONSTRUCTION STAKING WILL BE PROVIDED BY THE CONTRACTOR. TWO COPIES OF STAKING NOTES TO BE PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION.
12. THE COUNTY OR THE COUNTY'S SURVEYOR SHALL PROVIDE A BENCHMARK OR TEMPORARY BENCHMARK AND SURVEY CONTROLS.
13. THE CONTRACTOR SHALL MAINTAIN UPDATED RED-LINED RECORD DRAWINGS ON SITE FOR INSPECTION BY THE ENGINEER.
14. MOWING, MAINTENANCE, AND CLEAN-UP OF THE PROJECT SHALL MEET THE REQUIREMENT OF SPECIFICATION TXDOT ITEM 580 (NO SEPARATE PAY). MOWING, MAINTENANCE, AND CLEAN-UP IS REQUIRED FOR THE PROJECT LIMITS AND DURATION, REGARDLESS OF THE CONTRACTOR'S SCOPE OF ACTIVITIES WITHIN THE PROJECT LIMITS.
15. THE REMOVAL OF ANY ABANDONED UTILITIES REQUIRED TO COMPLETE THE WORK SHALL BE INCIDENTAL AND NO SEPARATE PAYMENT SHALL BE MADE.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STOCKPILE NECESSARY MATERIAL ON-SITE OR AT A SECURED OFF-SITE LOCATION AT NO ADDITIONAL EXPENSE TO THE CONTRACTED FEE. ANY SUITABLE EXCAVATED MATERIAL ON THE PROJECT WHICH IS AVAILABLE AT THE TIME OF NEED; WHETHER FROM STORM SEWER, ROADWAY, AND/OR CHANNEL EXCAVATION, SHALL BE USED BEFORE BORROW IS BROUGHT ON-SITE.
17. MANHOLES, JUNCTION BOXES, INLETS, AND RISERS ARE TO BE PRE-CAST OR CAST IN PLACE.

TRAFFIC CONTROL

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE TRAFFIC CONTROL PLANS ARE APPROVED BY THE CITY OF WOODCREEK.
2. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS EXCEPT DURING FLAGGING OPERATION OR PROVIDE DETOURS AROUND THE CONSTRUCTION SITE AND PROVIDE PUBLIC NOTIFICATION.
3. LANE CLOSURES SHALL PROVIDE CONVENIENCE FOR RESIDENTS ACCESS TO AND EXIT FROM THEIR PROPERTIES.
4. DETOURS REQUIRE PRIOR APPROVAL OF THE FIELD ENGINEER AND PRECINCT. DETOUR PLANS, IF ALLOWED, MUST INCLUDE APPROPRIATE DETOUR SIGNAGE, PUBLIC NOTICE VIA SIGNAGE TWO WEEKS IN ADVANCE STATING THE DATES OF THE AGREED UPON DATE OF CLOSURE AND DATE THE ROAD WILL RE-OPEN TO TRAFFIC. CONTRACTOR TO USE (WITH PRIOR APPROVAL OF THE FIELD ENGINEER) HIGH EARLY STRENGTH CONCRETE AND OTHER RELATED CONSTRUCTION METHODS TO MINIMIZE THE DURATION OF THE DETOUR AND TO ENSURE THAT THE ROADWAY IS OPEN ON, OR PRIOR TO, THE AGREED UPON DATE.
5. ONE DAY PRIOR TO THE IMPLEMENTATION OF A TRAFFIC CONTROL PLAN PHASE OR STEP, OR THE IMPLEMENTATION OF AN ADDITIONAL, REVISED, OR NEW TRAFFIC CONTROL ELEMENT, THE CONTRACTOR SHALL MEET WITH THE ENGINEER TO GIVE A DETAILED DESCRIPTION OF THE CONTRACTOR'S PLAN AND PREPARATIONS. THE CONTRACTOR SHALL OBTAIN WRITTEN CONCURRENCE FROM THE ENGINEER THAT ADEQUATE PROJECT PROGRESS HAS BEEN ACHIEVED AND THAT ADEQUATE PREPARATIONS ARE IN PLACE PRIOR TO SWITCHING TRAFFIC. IF, IN THE OPINION OF THE ENGINEER, REQUIRED PROGRESS AND ADEQUATE PREPARATIONS ARE NOT COMPLETE, THE CONTRACTOR SHALL NOT IMPLEMENT THE NEXT PHASE, STEP, OR ELEMENT OF TRAFFIC CONTROL UNTIL INCOMPLETE CONSTRUCTION ITEMS OR PREPARATIONS ARE COMPLETED. TIME EXTENSIONS WILL NOT BE GRANTED FOR DELAYS CAUSED BY THE INCOMPLETE CONSTRUCTION ITEMS OR INADEQUATE CONTRACTOR PREPARATIONS REQUIRED TO IMPLEMENT TRAFFIC CONTROL.
6. TRAFFIC CONTROL PER THE CONTRACT IS REQUIRED FOR THE ENTIRE DURATION OF THE PROJECT, INCLUDING THE PUNCHLIST PERIOD. PAYMENT FOR TRAFFIC CONTROL THAT IS PROPERLY INSTALLED FOR LESS THAN A FULL MONTH SHALL BE BASED ON A PERCENTAGE BASIS OF THE TIME INSTALLED. TRAFFIC CONTROL PAYMENTS TO THE CONTRACTOR SHALL END 10 DAYS AFTER SUBSTANTIAL COMPLETION, ALTHOUGH PROPER TRAFFIC CONTROL MUST BE MAINTAINED UNTIL PUNCHLIST COMPLETION.
7. THE PURPOSE OF THE CONSTRUCTION SEQUENCE AND TRAFFIC HANDLING OUTLINED HEREIN IS TO DOCUMENT A VIABLE TCP THAT CAN BE UTILIZED TO CONSTRUCT THE PROJECT. IT IS THE BASIS OF ESTIMATION FOR THE TRAFFIC CONTROL BID ITEMS, AND IS TO BE UTILIZED AND IMPLEMENTED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT TCP, HE/SHE SHALL PREPARE AND SUBMIT THE ALTERNATIVE TCP TO THE COUNTY FOR APPROVAL NO LESS THAN 10 WORKING DAYS PRIOR TO THE PROPOSED IMPLEMENTATION DATE. THE TCP SHALL BE DRAWN TO SCALE AND SIGNED & SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. UPON APPROVAL BY HAYS COUNTY, THE ALTERNATIVE PLAN SHALL BECOME THE BASIS FOR A "CHANGE IN CONTRACT" TO REVISE THE TRAFFIC CONTROL BID ITEMS ACCORDINGLY AND BECOME PART OF THE CONTRACT DOCUMENTS.

REVISION	
NO.	DATE

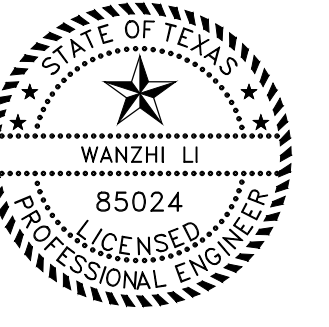
PROJECT #
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GENERAL NOTES

C0.03



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CITY OF WOODCREEK
DEERFIELD DRIVE
WOODCREEK Texas, 78676

SUMMARY OF ROADWAY QUANTITIES - DEERFIELD DRIVE						
P & P SHEET NO.	STATION TO STATION		EXCAVATION (ROADWAY) (5")	HMAC SURFACE (5")	2ND HMAC SURFACE (2")	LIME TRT (SUBGRADE)
			CY	CY	CY	SY
PAVEMENT						
C3.01 - C3.02	1+00.00	6+84.22				
TOTAL			19.0270	19.9148	4.6326	1571.0220
PAVEMENT APRON						
C3.02	5+59.85	6+84.22				
TOTAL			5.0851	5.0851	2.0340	165.1974

SUMMARY OF DEMOLITION QUANTITIES										
ITEM NO.	DESC. CODE	STATION TO STATION	REMOVE STRIPING	REM STAB BASE & ASPH	REMOVE (SIGN)	REMOVE (MAILBOX)	REMOVE "BLUE" REF MARKER	REMOVE DRIVEWAY CURB	REMOVE CONC CURB BLOCKS	REMOVE WOODEN CURB
			LF	SY	EA	EA	EA	EA	LF	LF
PAVEMENT										
C2.01		1+00.00 6+84.22								
TOTAL			0	1571.0220	1	(4)= 16	1	1	120	101
PAVEMENT APRON										
C2.01		5+59.85 6+84.22								
TOTAL			0	165.1974						

SUMMARY OF TRAFFIC CONTROL QUANTITIES DEERFIELD DRIVE N&S				
ITEM NO.	DESC. CODE	SHEET NO.	QUANTITY	
		TYPE 3 - BARRICADES	SIGNS	CHANNELIZING DEVICES
C7.05	EA	EA	EA	EA
TOTAL	3	7	118	

SUMMARY OF SWP3 ITEMS						
SW3 PLAN SHEET	ITEM DESCRIPTION	ITEM DESCRIPTION	ITEM DESCRIPTION	ITEM DESCRIPTION	ITEM DESCRIPTION	ITEM DESCRIPTION
C7.03	TEMPORARY FILTER	REINFORCED FILTER	STABILIZED CONSTRUCTION	GRATE INLET PROTECTION	CURB INLET PROTECTION	ROCK FILTER DAM TYPE 2
	FABRIC FENCE	FABRIC FENCE	ACCESS			
UNIT	LF	LF	EA	EA	EA	EA
TOTAL	737.95	0	1	0	0	0

SUMMARY OF PAVEMENT MARKINGS ITEMS - DEERFIELD DRIVE											
ITEM NO.	LOCATION	THERMO-PLASTIC WS12 (90MIL)	THERMO-PLASTIC WS24 (90MIL)	THERMO-PLASTIC (ARROW) (90MIL)	THERMO-PLASTIC (WORD) (90MIL)	THERMO-PLASTIC YS24 (90MIL)	REFLECTIVE RAISED PAV MRKR TY II-B-B	REFLECTIVE RAISED PAV MRKR TY II-A-A	THERMO-PLASTIC WS6-R20 (60MIL)	THERMO-PLASTIC YB4 (60MIL)	THERMO-PLASTIC WS4 (60MIL)
		LF	LF	EA	EA	LF	EA	EA	LF	LF	LF
	DEERFIELD DRIVE SB Sta. 1+00.00 to Sta. 1+02		10								
	DEERFIELD DRIVE CL Sta. 1+00.00 to Sta. 6+84.22				2		1	15		584.22	1168.44
PROJECT TOTALS:			10		2		1	15		584.22	1168.44

SUMMARY OF TREE PROTECTION ITEMS				
SW3 PLAN SHEET	ITEM DESCRIPTION	ITEM DESCRIPTION	ITEM DESCRIPTION	ITEM DESCRIPTION
C7.03	PLACE PROTECTIVE FENCE	REMOVE PROTECTIVE FENCE	PLACE BOUND WOOD PLANKING	REMOVE BOUND WOOD PLANKING
UNIT	LF	LF	LF	LF
TOTAL	74.00	74.00	9.86	9.86

NOTE:
 CONTRACTOR TO CONTACT CITY OF WOODCREEK CITY ADMINISTRATOR, JIM BURTON MIN. 48 HOURS PRIOR TO CONSTRUCTION @ 512-847-9390

FOR PERMITTING ONLY

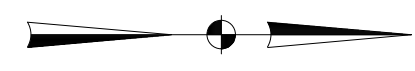
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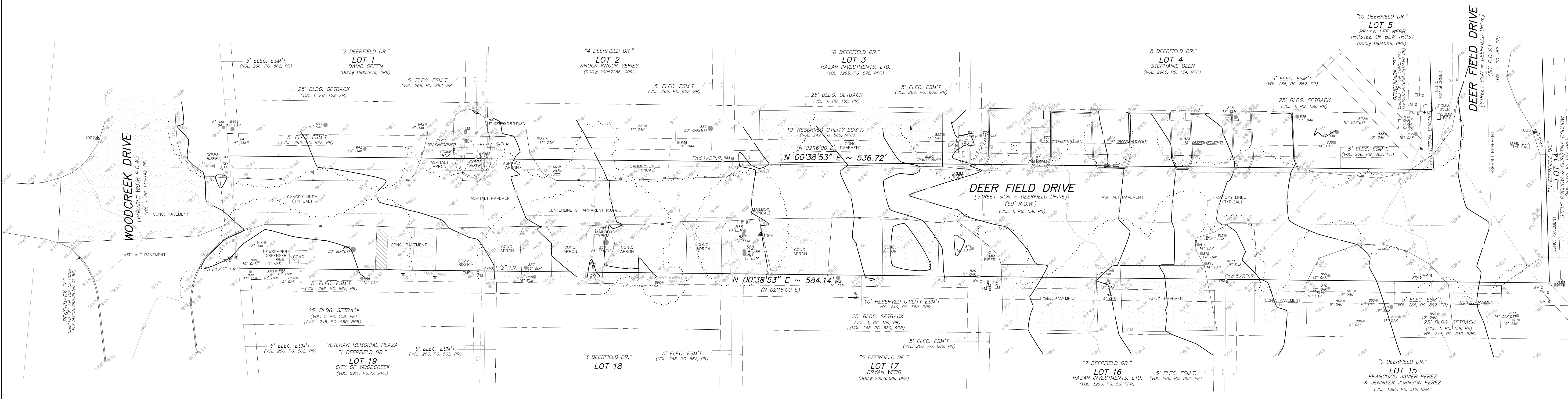
SUMMARY OF QUANTITIES

C0.04

- WM = WATER METER
- EM = ELECTRIC METER
- WV = WATER VALVE
- GV = GAS VALVE
- SP = SIGN POST
- UP = UTILITY POLE
- UG = UTILITY POLE & GUY WIRE
- LP = LIGHT POLE
- CP = CONCRETE PAVEMENT
- SS = UNDERGROUND SANITARY SEWER LINE (AS PER MARKINGS BY 811)
- WL = UNDERGROUND WATER LINE (AS PER MARKINGS BY 811)
- EA = EDGE OF ASPHALT PAVEMENT
- CC = CONCRETE CURB
- 900 = CONTOUR LINE WITH ELEVATION
- 1000 = SPOT ELEVATION
- 8" OAK = TREE TYPE AND SIZE WITH NUMBERED METAL TAG
- = CANOPY LIMITS ±
- = CENTERLINE OF APPARENT R.O.W. LINE ±
- () = RECORD OR PLAT DATA
- PR = PLAT RECORDS OF HAYS COUNTY, TEXAS.
- RRP = REAL PROPERTY RECORDS OF HAYS COUNTY, TEXAS.
- RRR = OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS.



SCALE: 1" = 20'



ADDRESS:
DEER FIELD DRIVE,
WOODCREEK, TEXAS

- NOTES:
1. DIRECTIONAL CONTROL LINE = D.C.L.
 2. ALL DIMENSIONS & ELEVATIONS REPRESENTED HEREON ARE IN U.S. SURVEY FEET
 3. BEARING BASIS = NAD83 TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE 4204. SOURCE: OPUS.
 4. ELEVATIONS ARE BASED ON NAVD 88. SOURCE: GPS
 5. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. THERE MAY EXIST EASEMENTS, SETBACKS, RESTRICTIONS AND CONDITIONS THAT ARE NOT SHOWN.
 6. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. UNDERGROUND UTILITIES SHOWN ARE BASED ON THE LOCATION OF ABOVE GROUND PHYSICAL EVIDENCE, AVAILABLE MAPS AND/OR MARKS MADE BY RESPONDENTS OF THE TEXAS811 UTILITY LOCATE SERVICE, TEXAS 811 LOCATE REQUEST MADE JULY 29, 2024, TICKET# 2470706135.
 7. NO UNDERGROUND MARKINGS OBSERVED FOR ELECTRIC, TELEPHONE OR CABLE TV.
 8. SANITARY SEWER DEPTH NOT DETERMINED.
 9. SUBJECT TO A EASEMENT 10 FEET IN WIDTH CENTERED ON THE INSTALLED WATER PIPE PER VOL. 210, PG. 128 HAYS COUNTY REAL PROPERTY RECORDS.

PLAT REFERENCE: PLAT RECORDS (PR)
WOODCREEK, SECTION 4-A, B, C & D
VOL. 1 PAGE 159-160 DATE APRIL 3, 1972

▲ CONTROL POINT TABLE

PT NO.	NORTHING	EASTING	ELEVATION (NAVD 88)	DESCRIPTION
BM"A"	13923586.9953	2252901.4720	985.39	CHISELED BOX ON CONC. CURB
BM"B"	13924186.4896	2252836.6376	1000.32	CHISELED "X" ON CONC. PAD
1002	13923595.2033	2252848.1757	985.37	SET 1/2" IRON ROD W/TRAV. CAP
1004	13923890.5521	2252891.0604	990.72	SET 1/2" IRON ROD W/TRAV. CAP
1005	13924235.7696	2252845.1127	1001.67	SET 1/2" IRON ROD W/TRAV. CAP

COORDINATES ARE NAD83 TEXAS STATE PLANE COORDINATE SYSTEM SOUTH CENTRAL ZONE 4204 ADJUSTED TO GROUND USING A SCALE FACTOR OF 1.0001070247 FROM (0,0).

NO.	DATE	BY	REVISION	CKD.	APPD.

Maverick Land Surveying Co.
1856 Lockhill-Seimo, Suite 105
San Antonio, Texas 78213
PH. 210-342-9455
FAX 210-342-9524

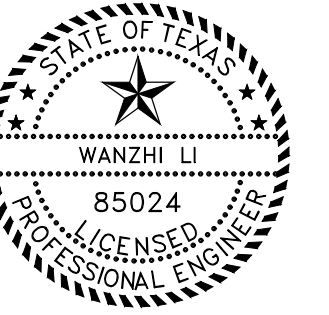
IMPROVEMENTS, TREE AND TOPOGRAPHIC SURVEY OF:
**A PORTION OF DEER FIELD DRIVE
WOODCREEK, SECTION 4
A, B, C & D**
CITY OF WOODCREEK, HAYS COUNTY, TEXAS

DRAWN BY: J.S. FIELD BY: J.R. APPROVED BY: JMO
SCALE: 1" = 20' DATE: 7-30-2024 SHEET 1 OF 1
SHEET SIZE 24"x36" JOB NO. 59278-0001



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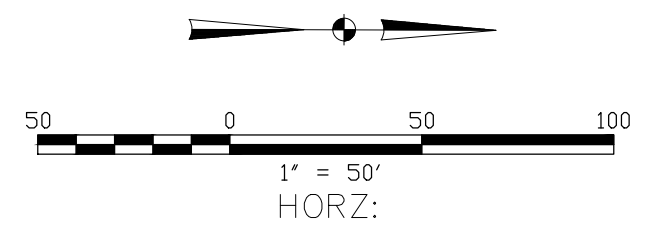
CITY OF WOODCREEK
DEERFIELD DRIVE
WOODCREEK Texas, 78676

REVISION NO.	DATE

PROJECT #
ISSUE:
DATE:
DRAWN BY:

DEMOLITION SHEET

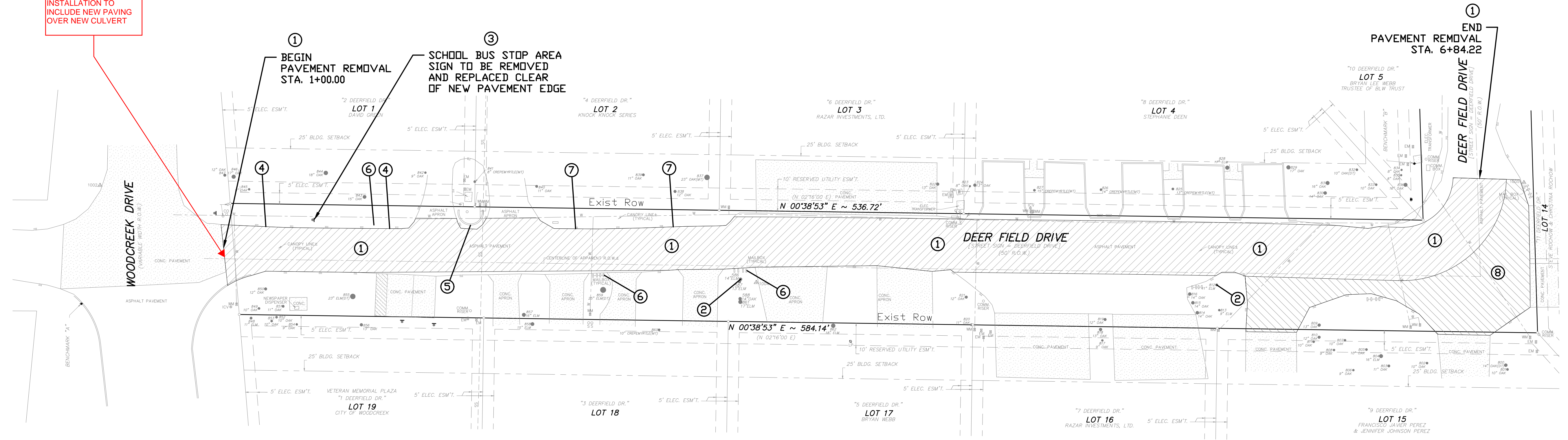
C2.01



NOTES:

1. DEMOLITION TO COMPLY WITH CITY STANDARDS SHOWN ON SHEET NO. 93 TO 98.
2. FOR TREE RESTORATION: (REFER TO THE TREE ANALYSIS AND PRESERVATION) SHEET NO.

EXTENDING THIS TO LIMITS OF CULVERT INSTALLATION TO INCLUDE NEW PAVING OVER NEW CULVERT



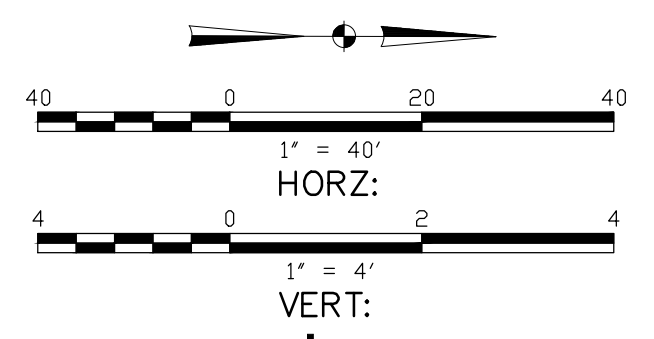
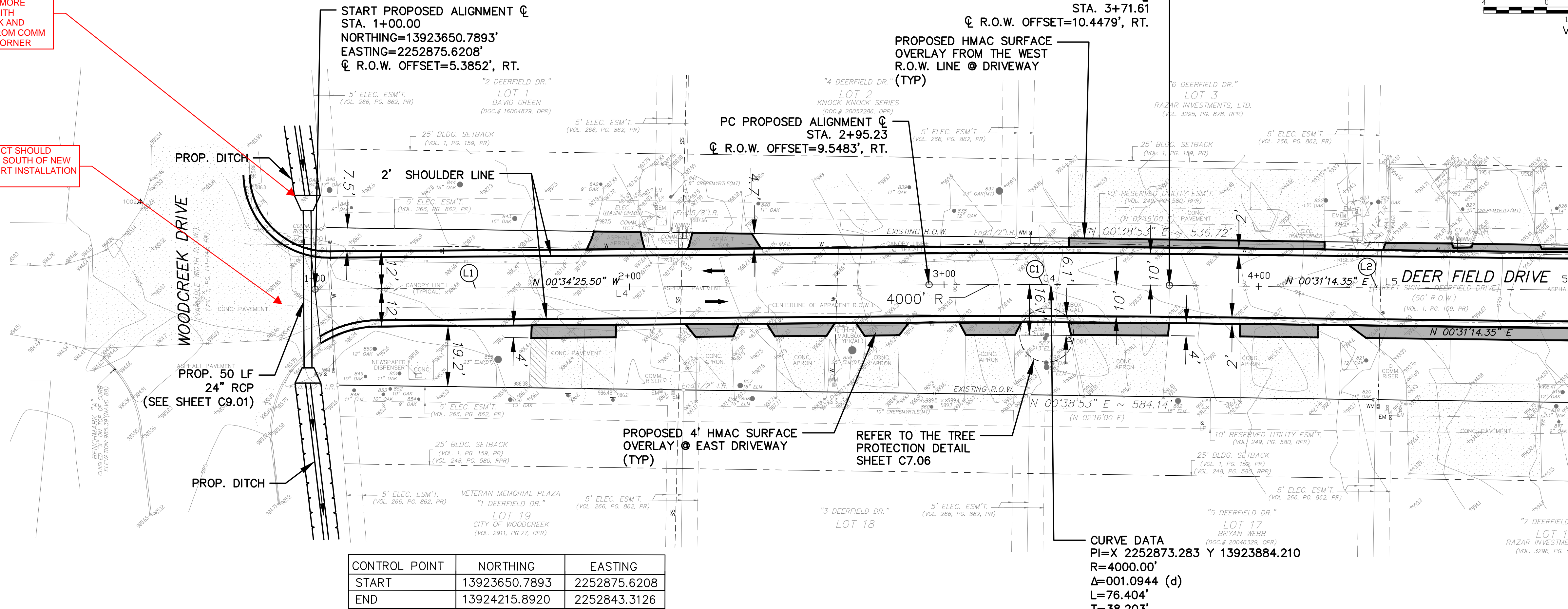
LEGEND

- ① REMOVE EXIST. PAVING
- ② TREES TO BE PRESERVED SEE TREE PROTECTION SHT. NO. C7.06
- ③ SCHOOL BUS STOP AREA SIGN TO BE REMOVED AND RELOCATED
- ④ REMOVE WOODEN LOGS CURB
- ⑤ REMOVE MEDIAN CONCRETE CURB
- ⑥ REMOVE AND REPLACE MAIL BOXES CLEAR OF NEW PAVEMENT EDGE
- ⑦ REMOVE CONCRETE BLOCKS CURB
- ⑧ REMOVE EXIST. ASPHALT APRON

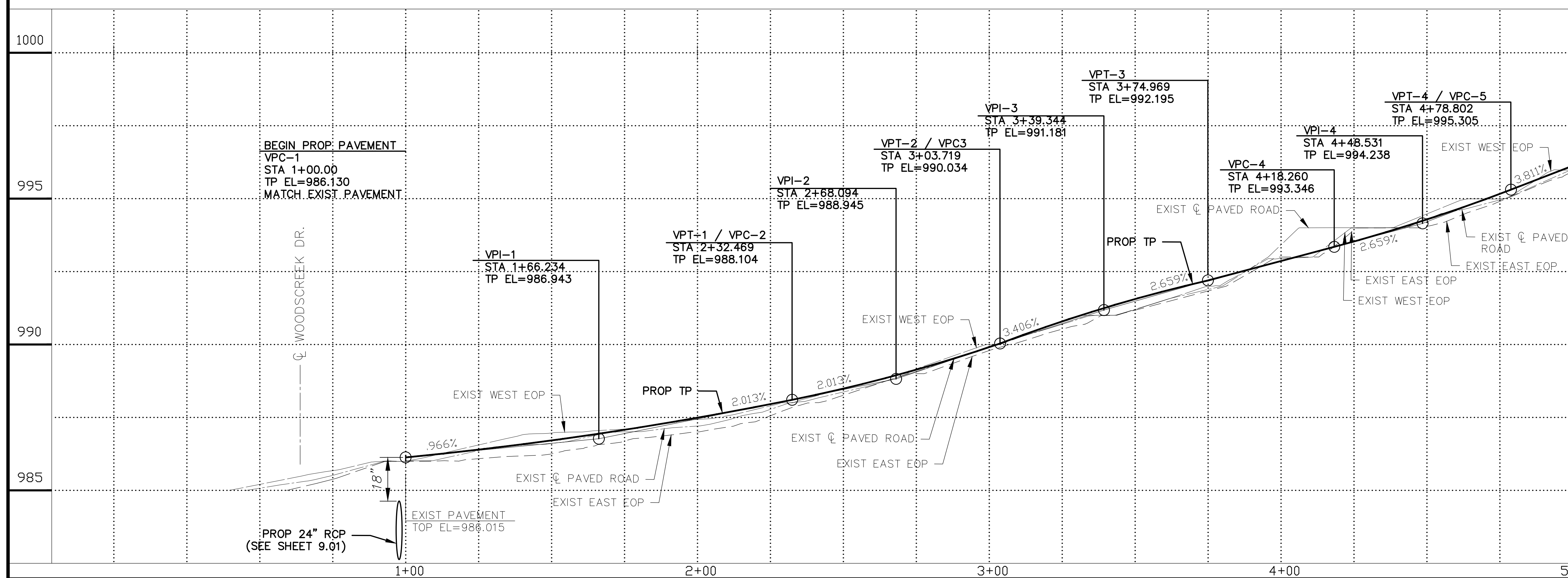
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 USER: Dec 31, 2024 - 3:17pm jsmart
 PLOT TAB: SHT 1 OF 2

RECOMMEND MOVING THIS SOUTH SO THAT CULVERT IS MORE PARALLEL WITH WOODCREEK AND FURTHER FROM COMM BOXES ON CORNER

PROJECT SHOULD START SOUTH OF NEW CULVERT INSTALLATION



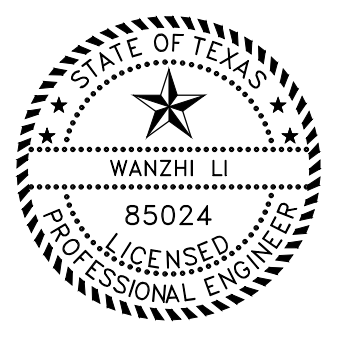
MATCH LINE STA. 5+00.00
 (SEE SHEET C3.02 2 OF 2)



MATCH LINE STA. 5+00.00



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WOODCREEK Texas, 78676

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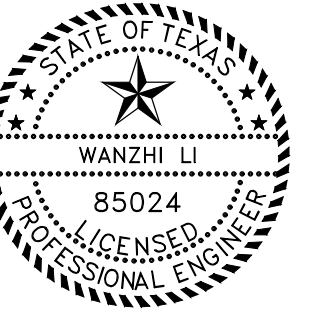
PLAN AND PROFILE

C3.01
 1 OF 2

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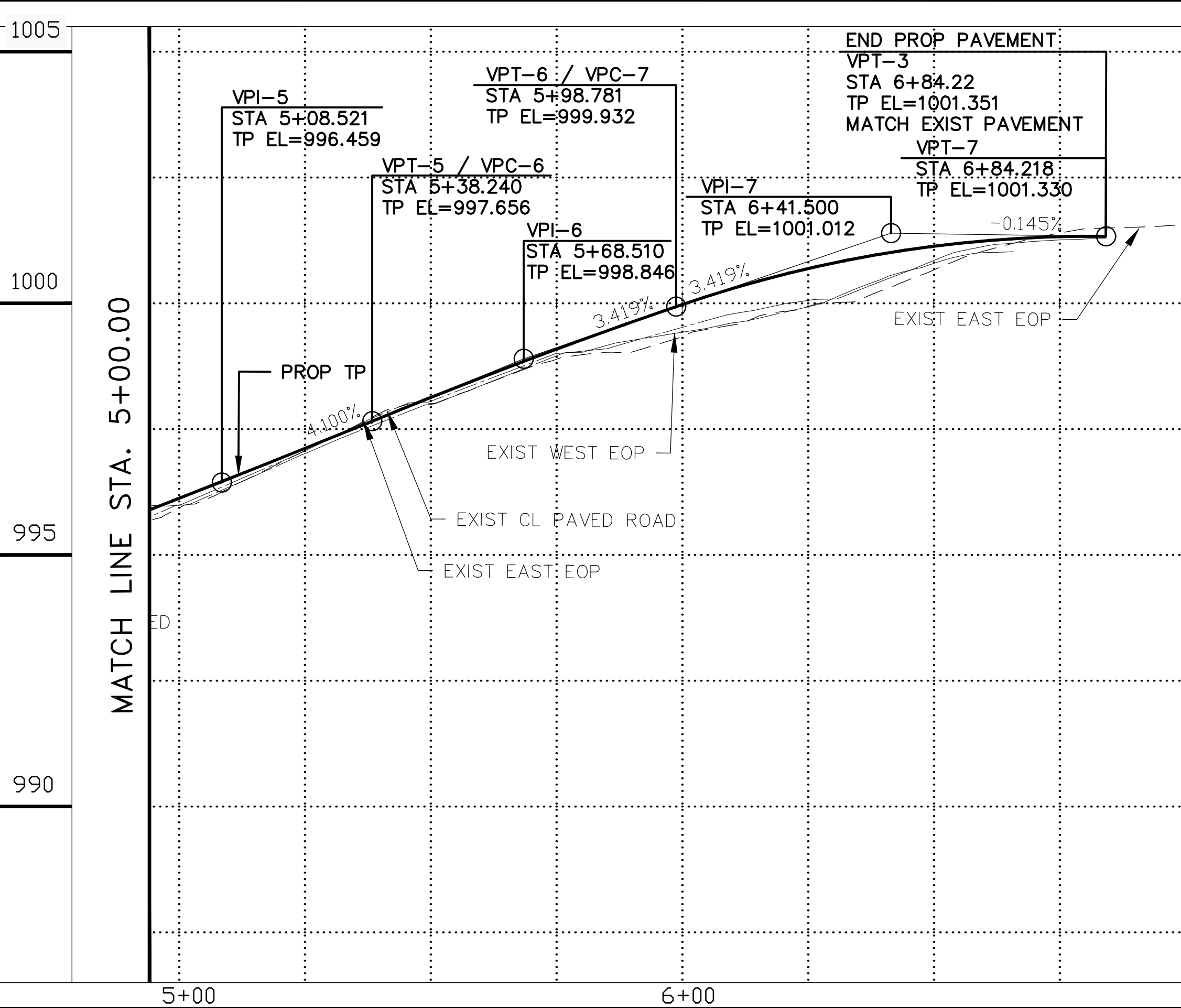
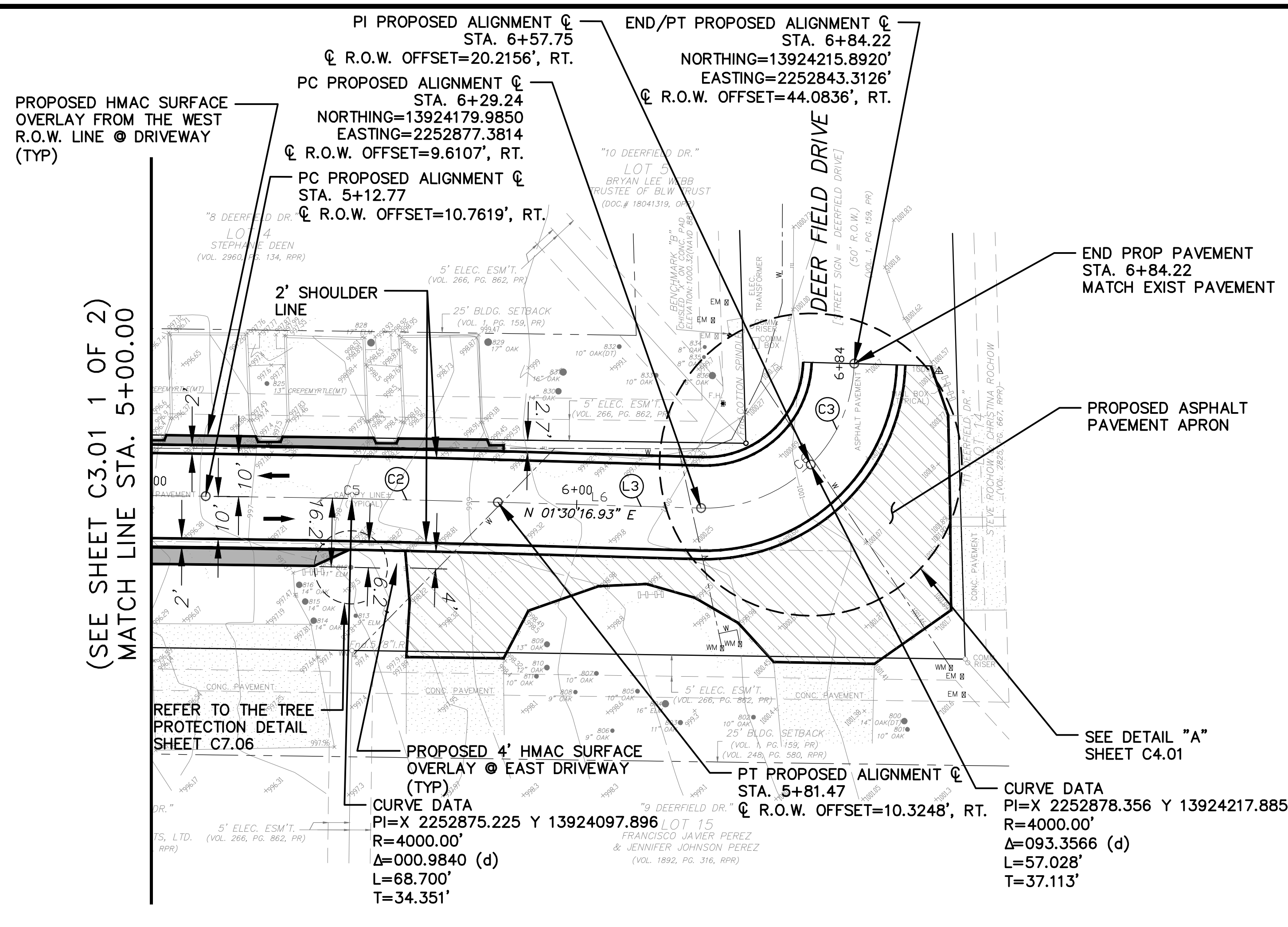
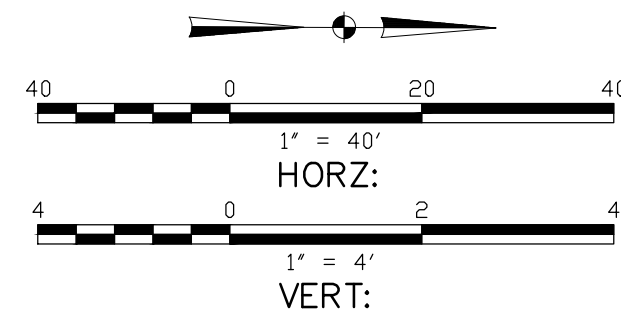
REVISION

NO.	DATE

PROJECT #
 ISSUE:
 DATE:
 DRAWN BY:

PLAN AND PROFILE

C3.02
 2 OF 2



A-1 Curve Fitting 100 to 268
Left Edge-1 OF Woodcreek

Curve-A	PI	PC	PT	Ex=	K=
Sta=	184.047	100.000	268.094	-0.187	189
Ele=	987.393	986.181	988.980	L=	168.094
BENDING		1.220%	2.110%	PI Peak	987.580

C-1 Fitting 421 TO 586- Straight Line
Left Edge-1 OF Woodcreek

Curve-C	PI	PC	PT	Ex=	K=
Sta=	494.755	421.000	568.510	0.000	N/A
Ele=	996.274	993.575	998.973	L=	147.510
BENDING		3.660%	3.660%	PI Peak	996.274

B-1 Curve Fitting 268 to 421
Left Edge-1 OF Woodcreek

Curve-B	PI	PC	PT	Ex=	K=
Sta=	344.547	268.094	421.000	-0.250	117
Ele=	991.027	988.980	993.575	L=	152.91
BENDING		2.350%	3.660%	PI Peak	990.776

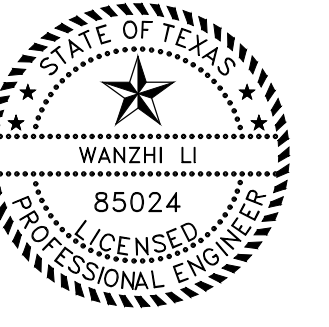
D-1 Fitting 586 to 684
Left Edge-1 OF Woodcreek

Curve-D	PI	PC	PT	Ex=	K=
Sta=	626.364	568.510	684.218	0.464	36.046
Ele=	1000.627	998.973	1001.351	L=	115.708
BENDING		3.660%	0.450%	PI Peak	1001.091

PROFILE CURVE FITTING



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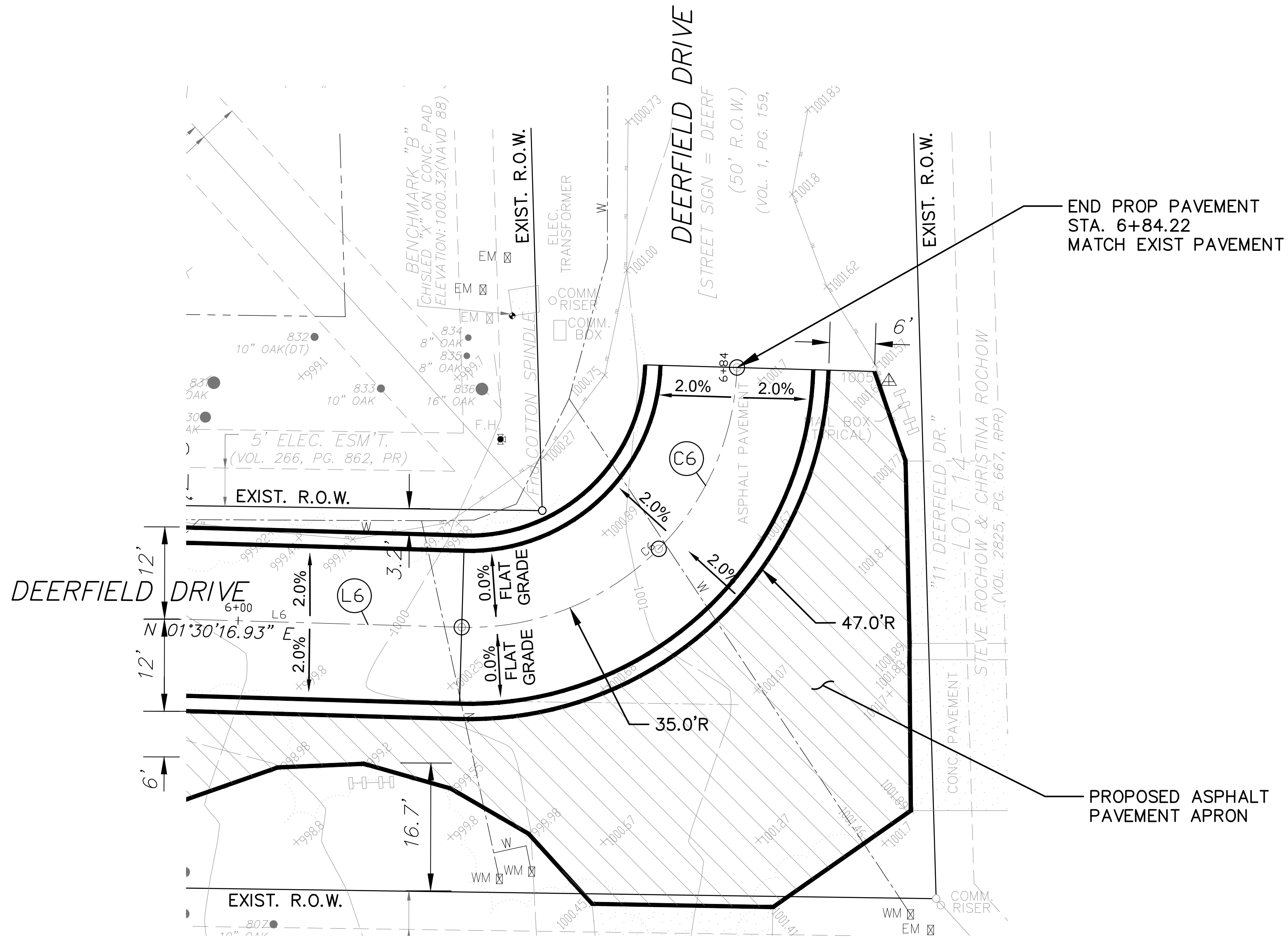
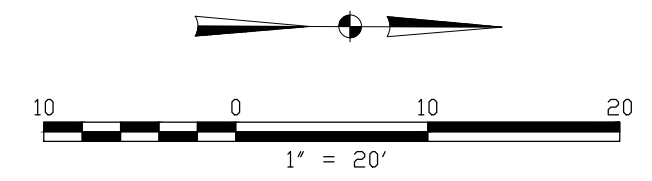
CITY OF WOODCREEK
DEERFIELD DRIVE
WOODCREEK Texas, 78676

REVISION	
NO.	DATE

PROJECT #
 ISSUE:
 DATE:
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DETAILS

C4.01



DETAIL "A"
 N.T.S.

Finalized Control Points for Lines and Curves

Line#	Length	Start-North	End-East	Start-North	End-North
L1	195.2262	13923650.7893	2252875.6208	13923846.0057	2252873.6658
Bearing//Station	0	-34.0000	-25.571	100.0000	295.22616
L2	141.1420	13923922.4109	2252873.6304	13924063.5471	2252874.9130
Bearing//Station	0	31.0000	14.41605	371.63256	512.77458
L3	47.7739	13924132.228	2252876.1270	13924179.9850	2252877.3814
Bearing//Station	1	30	16.61	581.46666	629.241

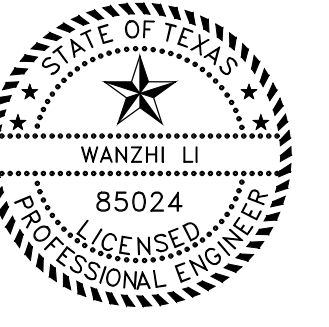
Curves: Radius = 4000' for C1 and C2; Radius=35' for C3

Curve #	Length	Start-North	End-East	Start-North	End-North
C1/R=4000'	76.4064	13923846.0057	2252873.6658	13923922.4109	2252873.6304
Sweep//Station	1	5	40	295.2262	371.6326
C2/R=4000'	68.6921	13924063.5471	2252874.9130	13924132.2276	2252876.1270
Sweep//Station	0	59	2	512.7746	581.4667
C3/R=35'	54.9779	13924179.985	2252877.3814	13924214.9850	2252842.3814
Sweep//Station	90	0	0	629.2405	684.2184

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 PLOT TAB: Detail



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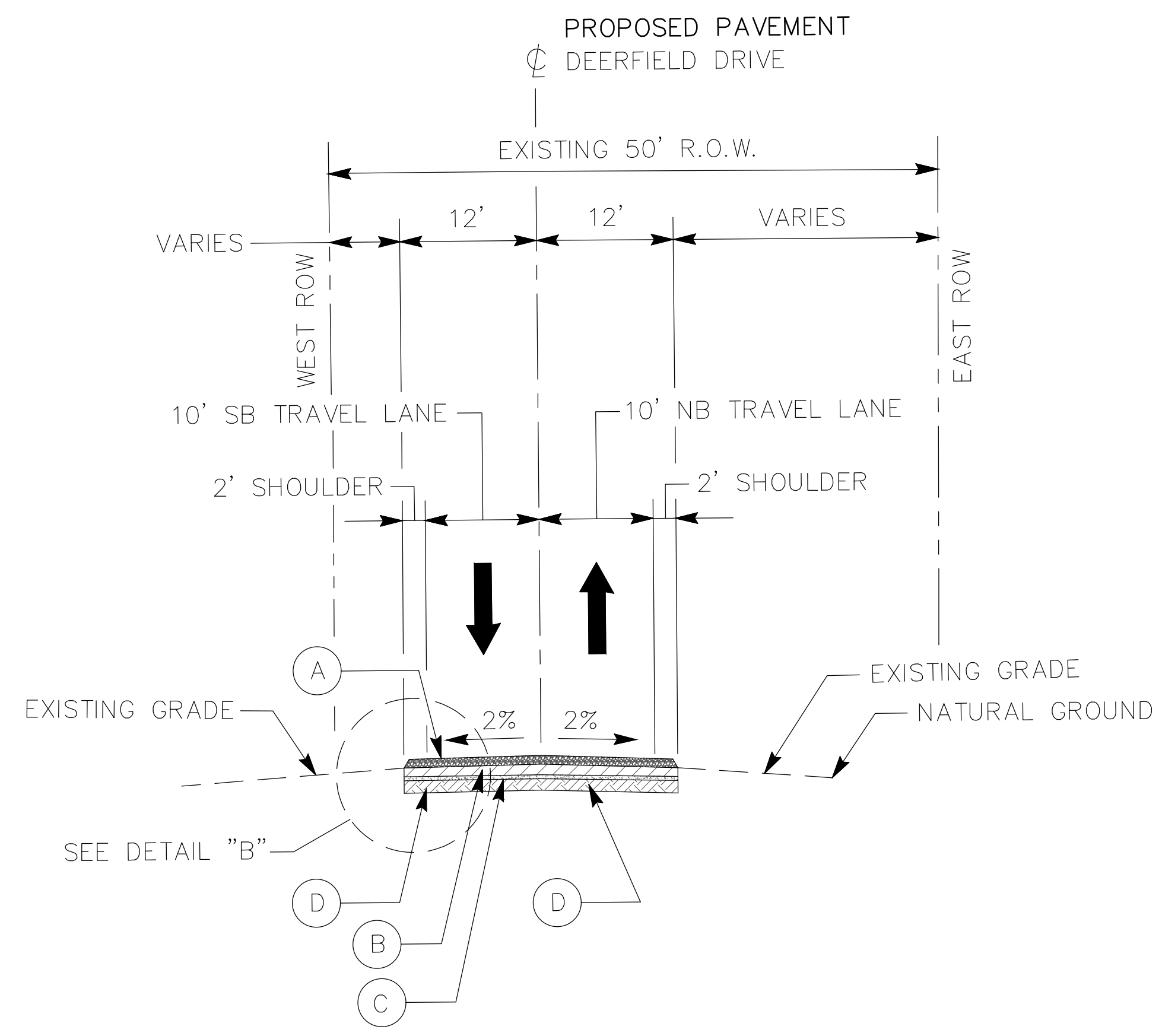
CITY OF WOODCREEK
DEERFIELD DRIVE
WOODCREEK Texas, 78676

REVISION NO.	DATE

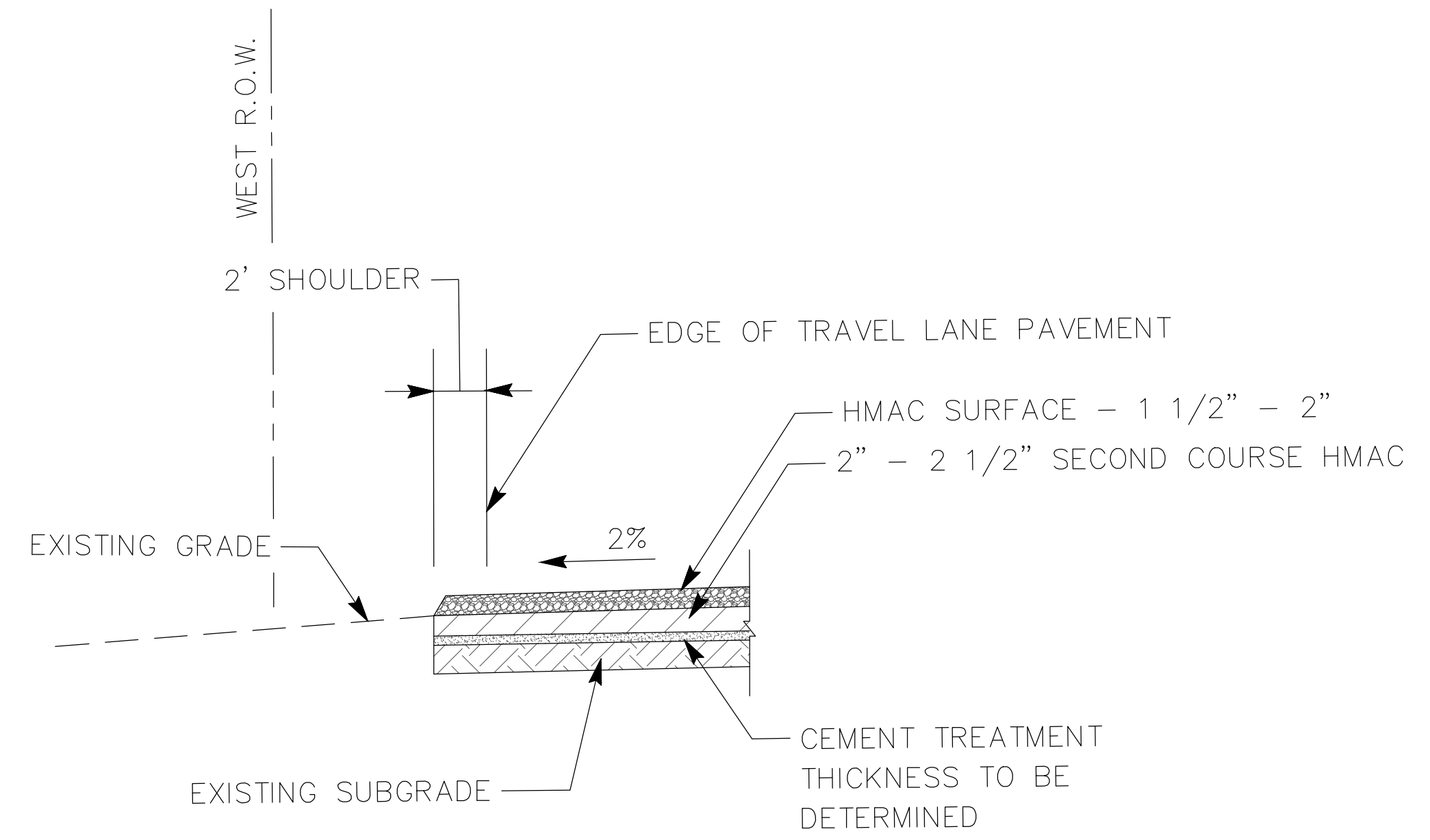
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TYPICAL SECTIONS

C6.01

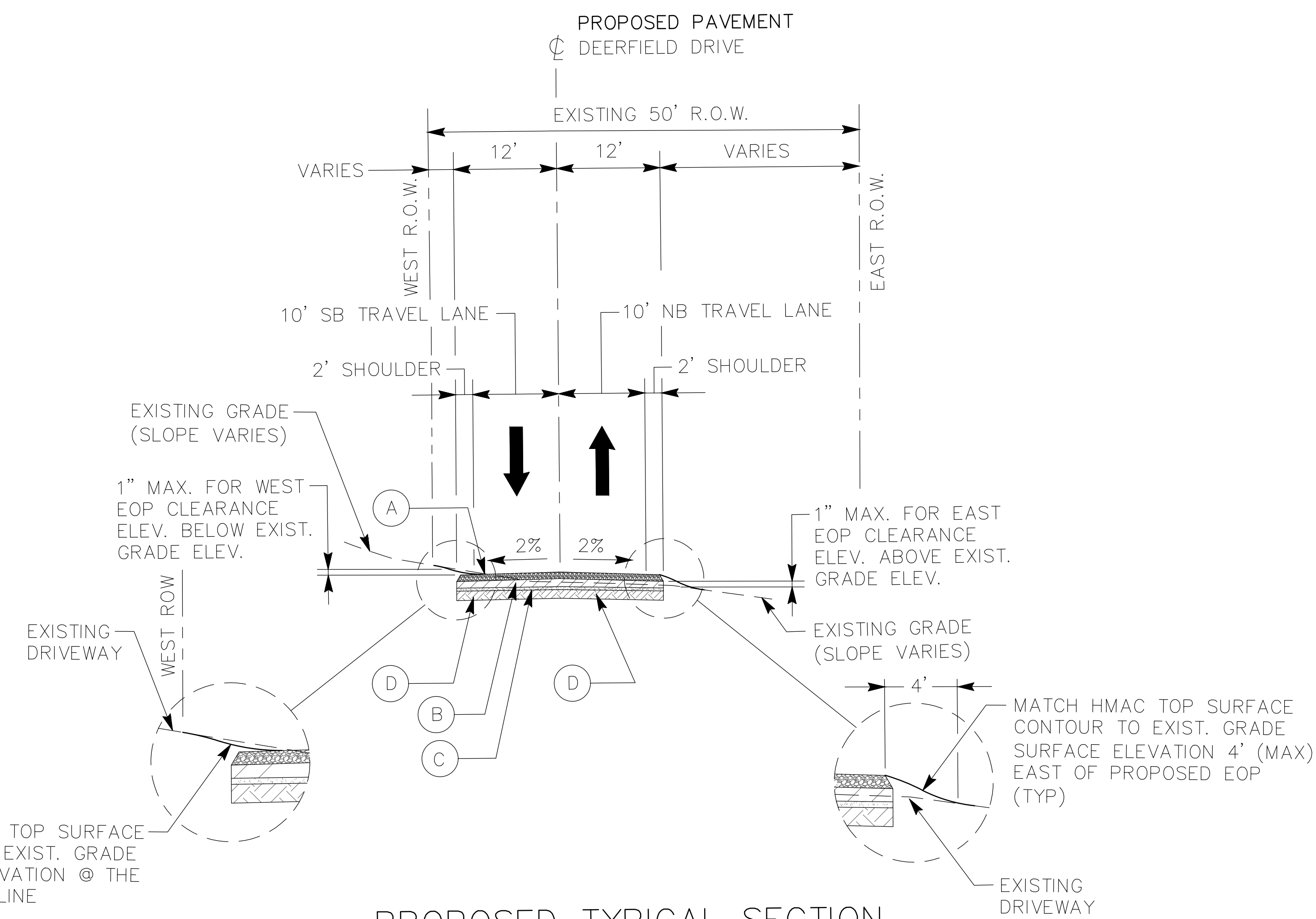


1 PROPOSED TYPICAL SECTION
 N.T.S.



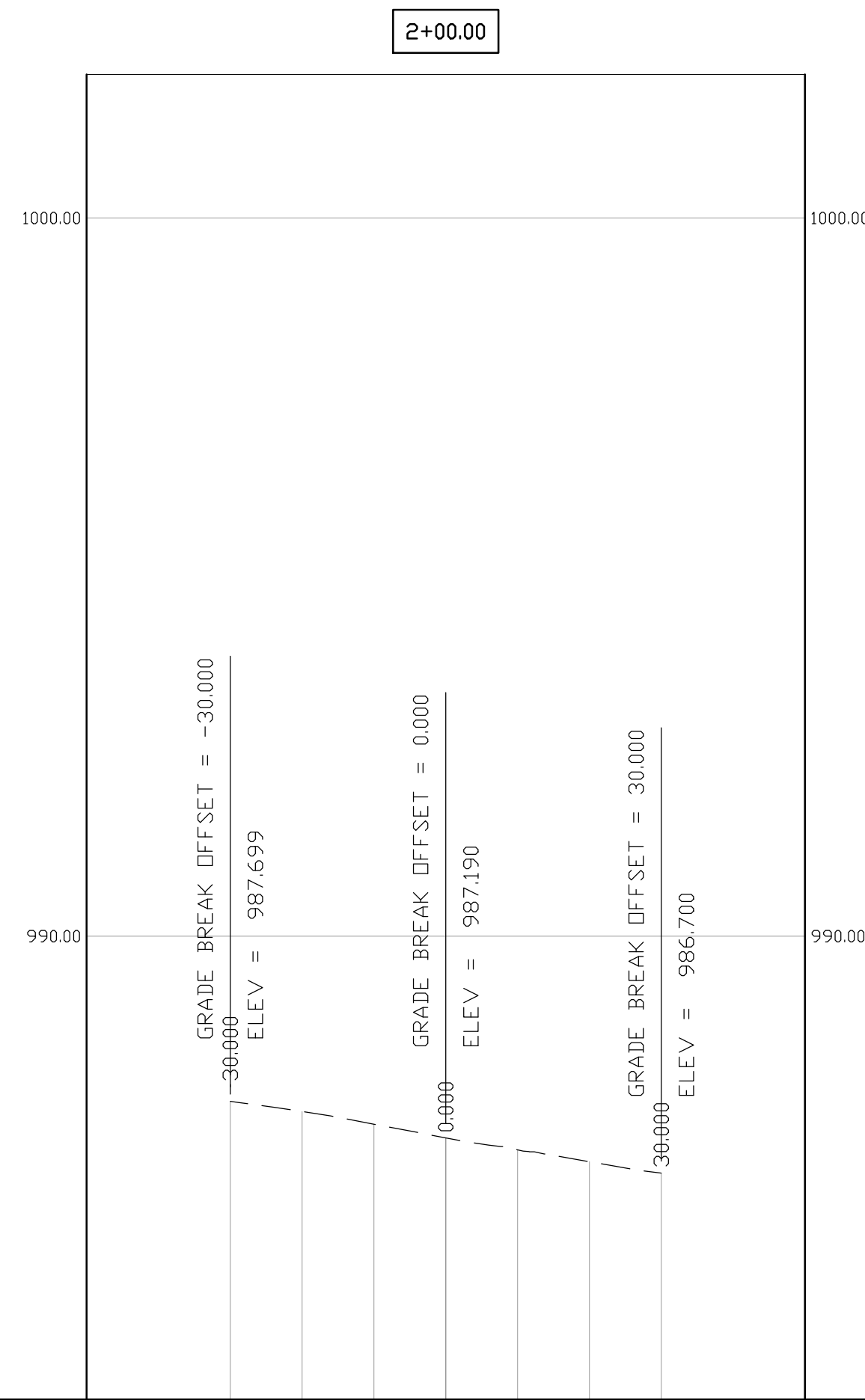
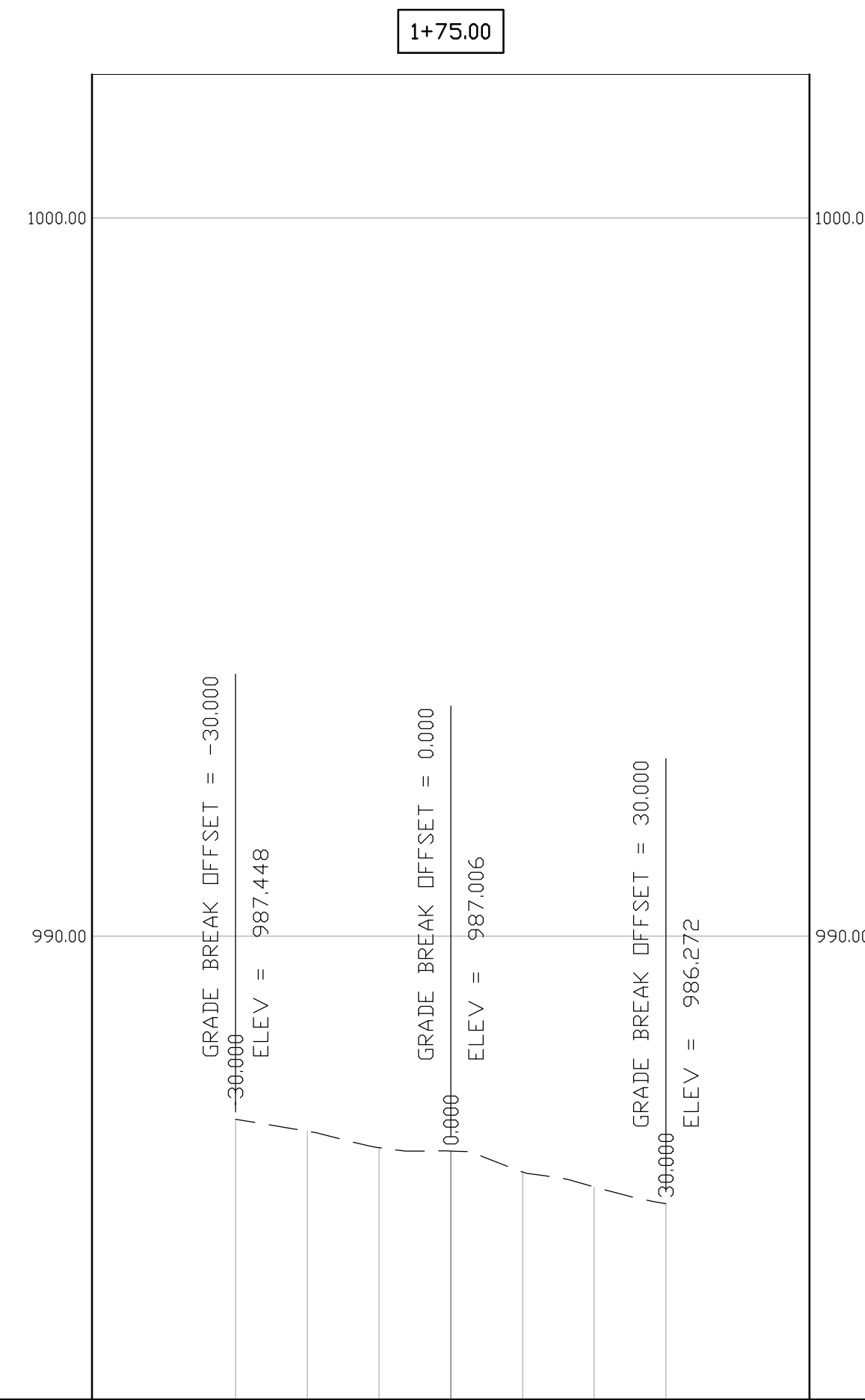
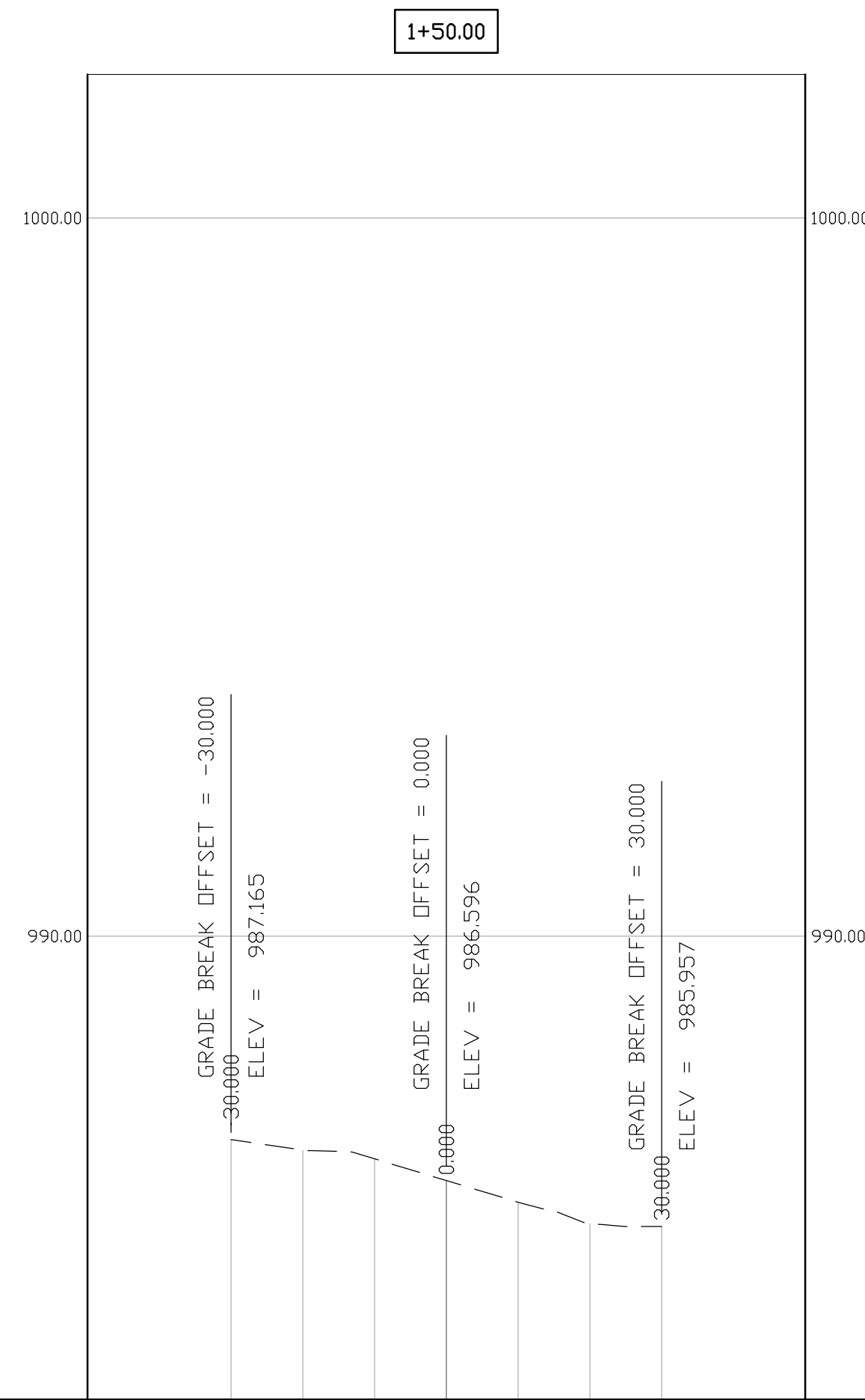
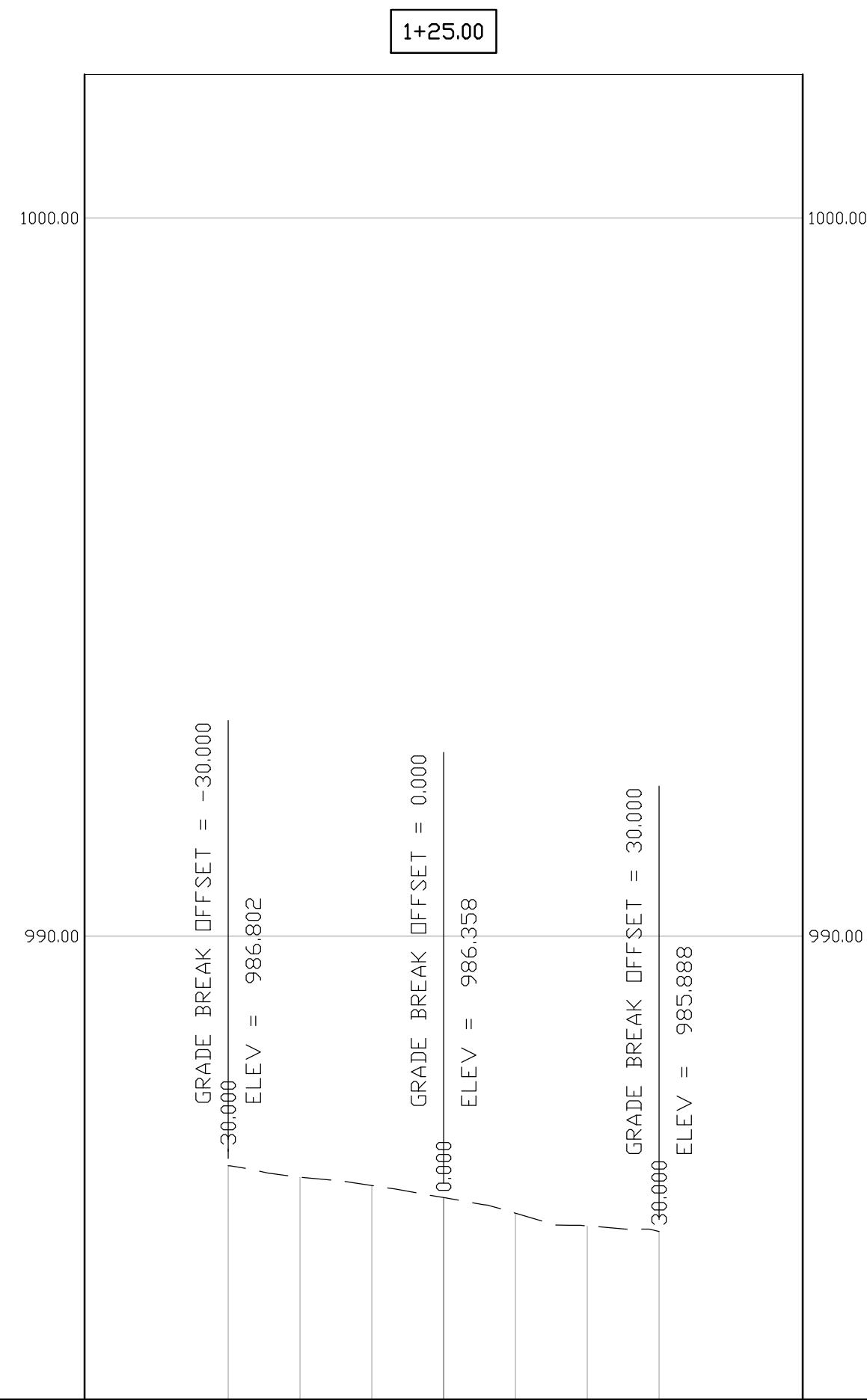
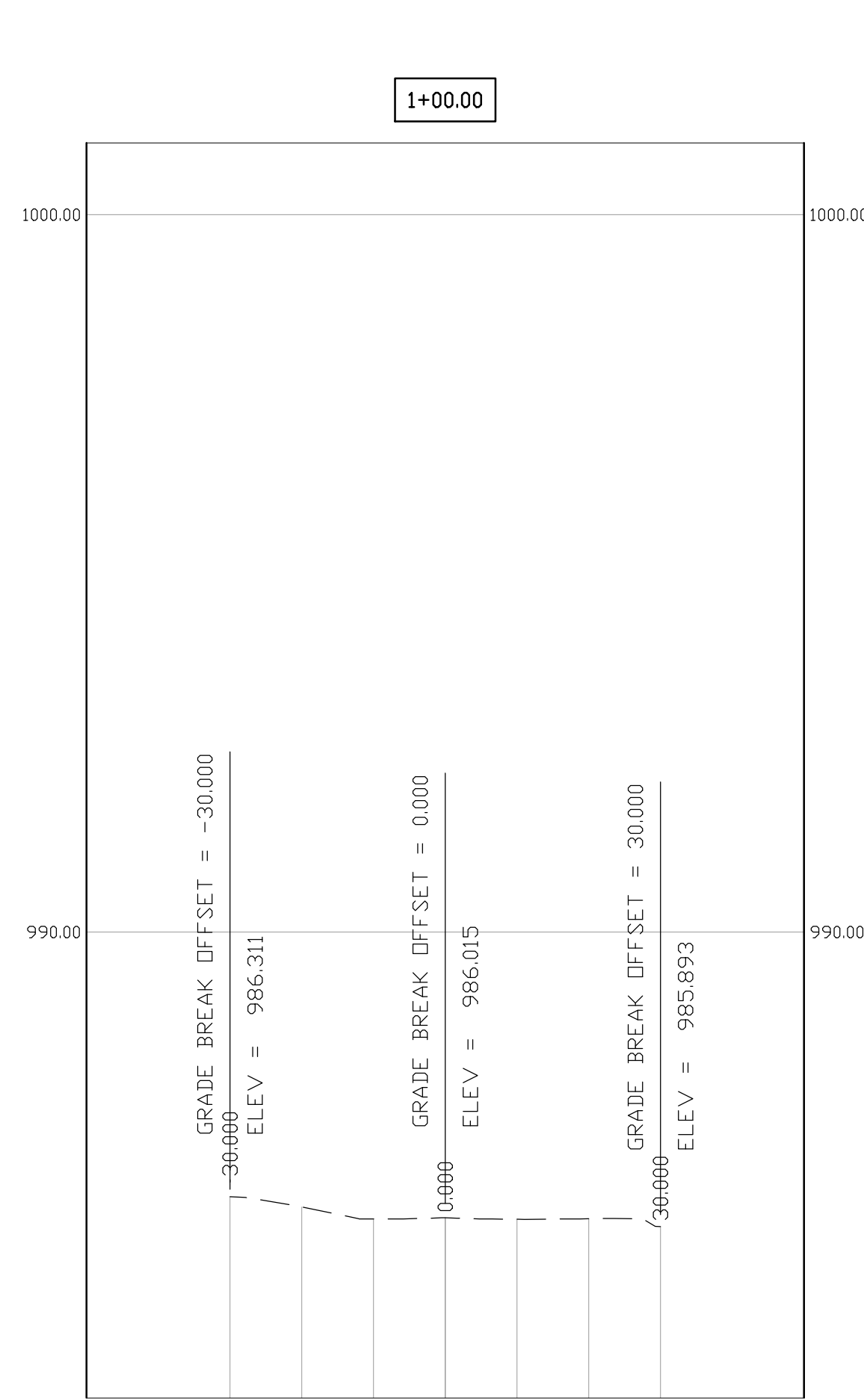
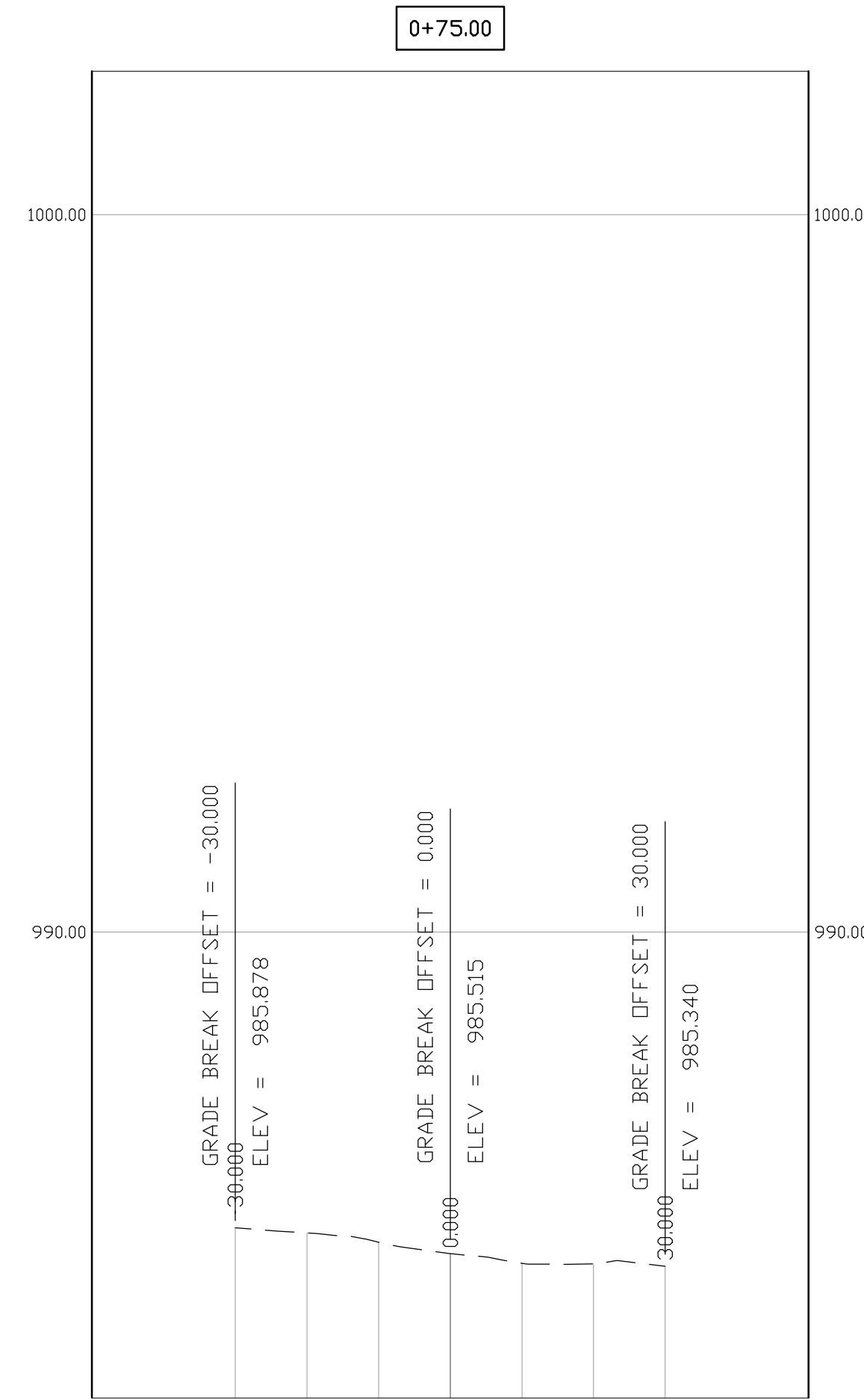
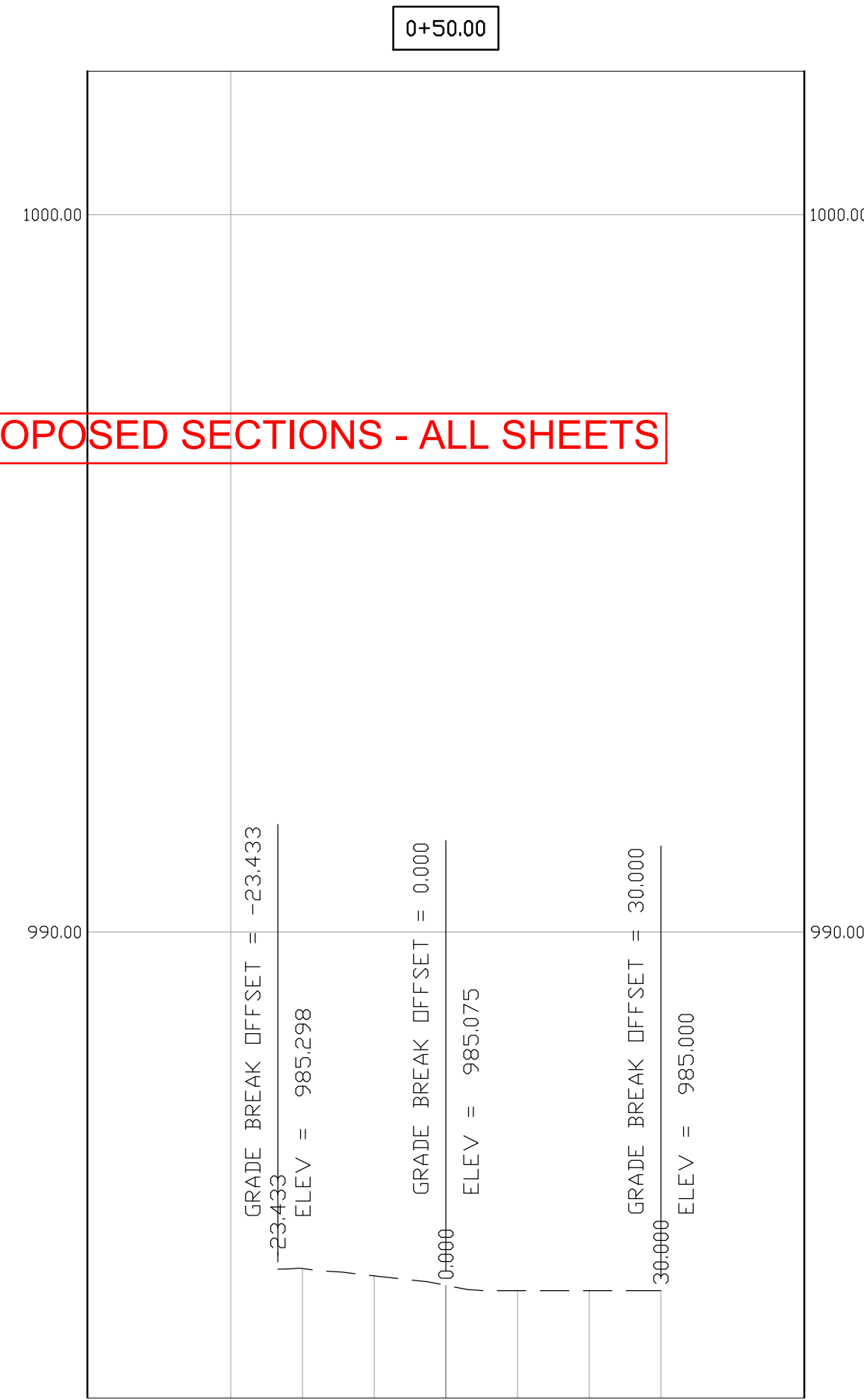
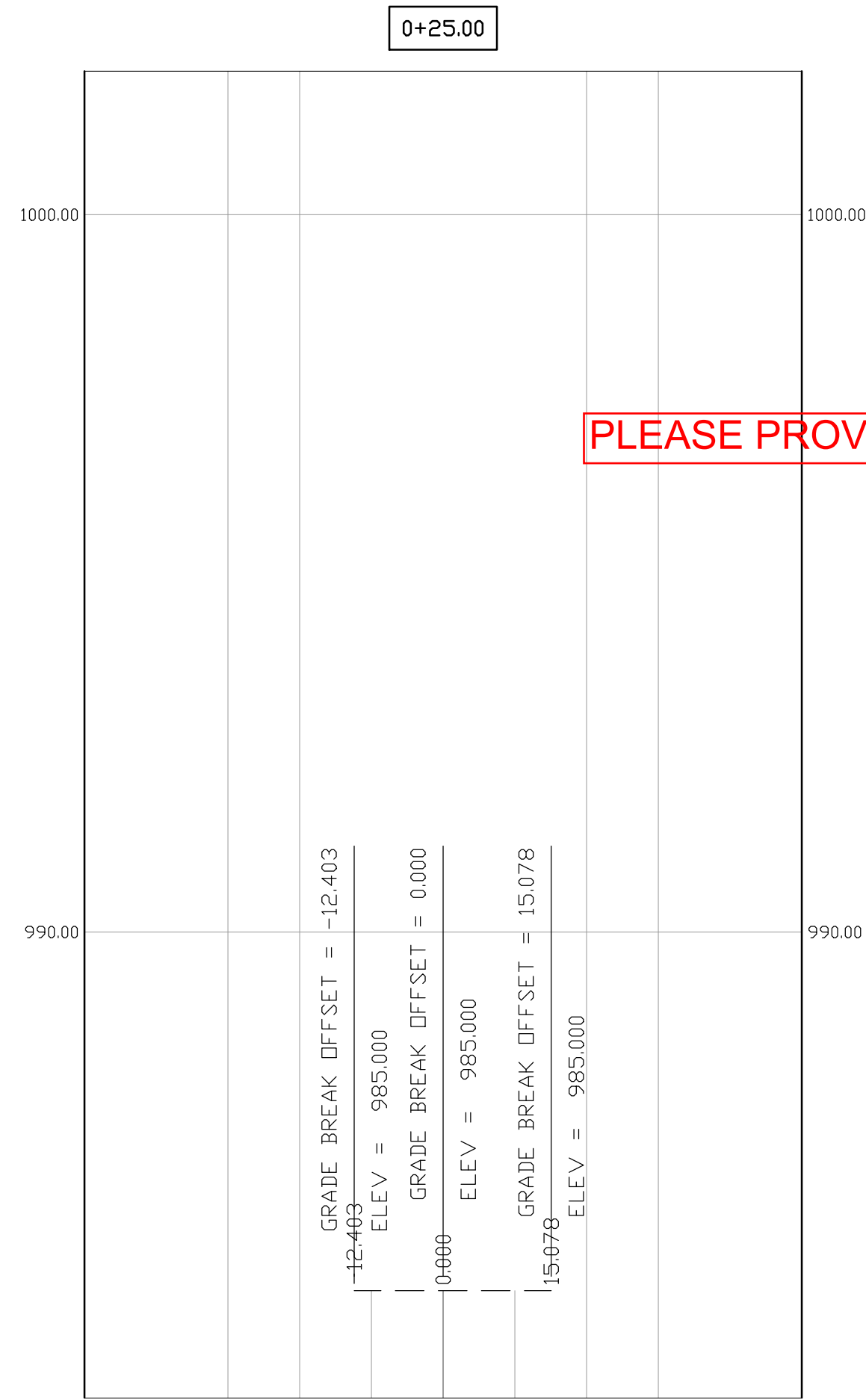
B DETAIL
 N.T.S.

- LEGEND:
- (A) 1 1/2" - 2" HMAC SURFACE
 - (B) 2" - 2 1/2" SECOND COURSE HMAC
 - (C) CEMENT BASE TREATMENT
 - (D) EXISTING SUBGRADE
 - (E) THE CLIENT SHOULD DETERMINE THE TYPICAL SECTIONS PRIOR TO STARTING 60% DESIGN
- ➔ NEW TRAVEL LANE

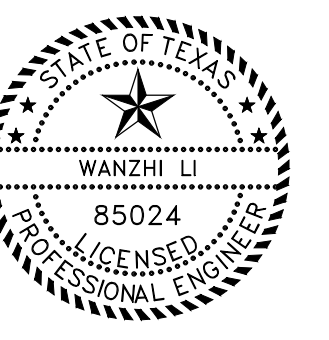


2 PROPOSED TYPICAL SECTION
 N.T.S.

MATCH HMAC TOP SURFACE CONTOUR TO EXIST. GRADE SURFACE ELEVATION @ THE WEST R.O.W. LINE (TYP)



PLEASE PROVIDE PROPOSED SECTIONS - ALL SHEETS



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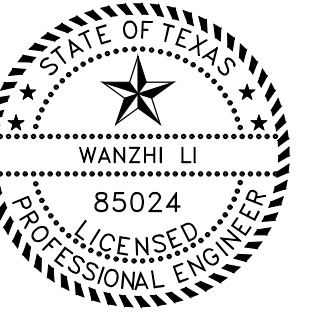
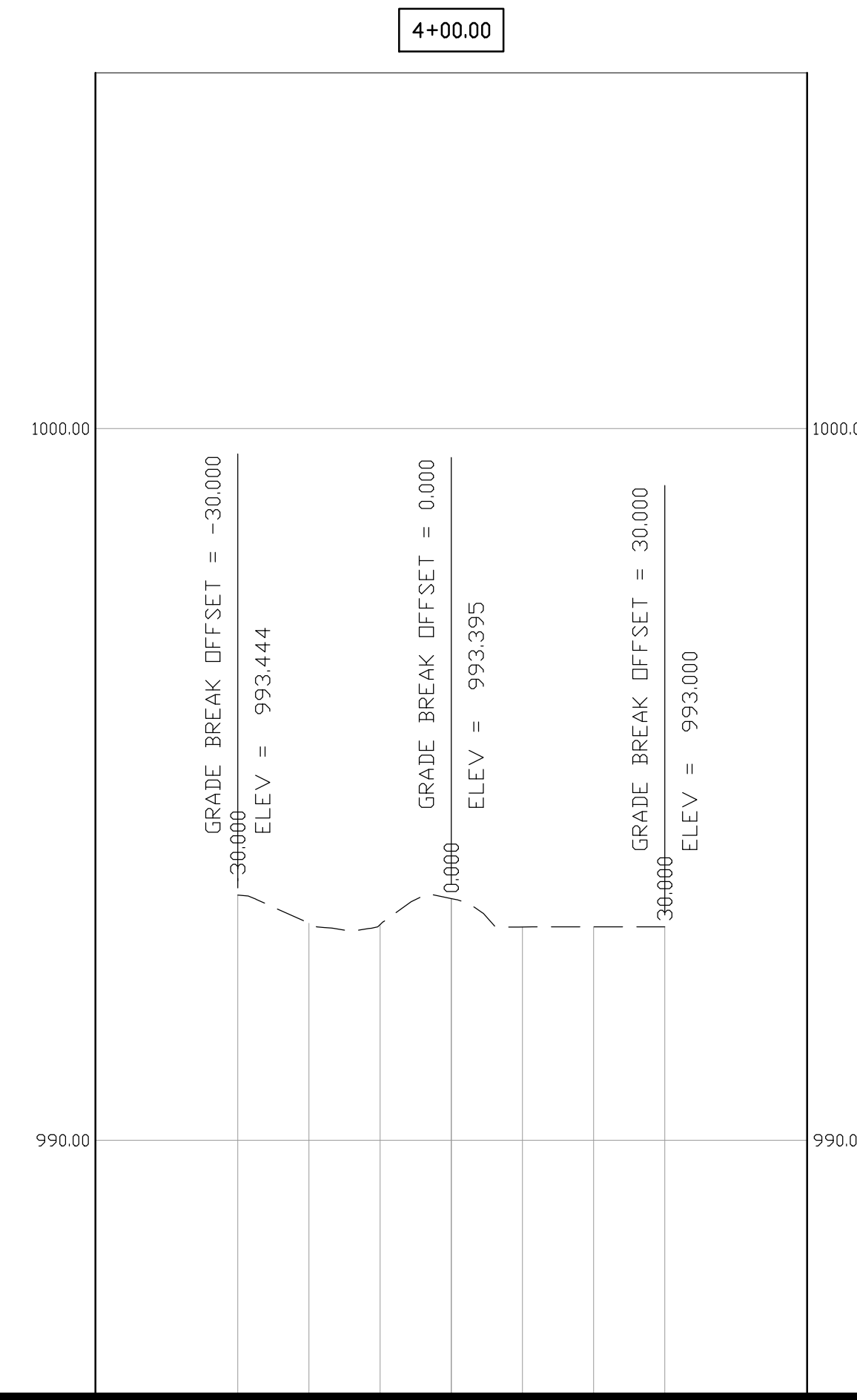
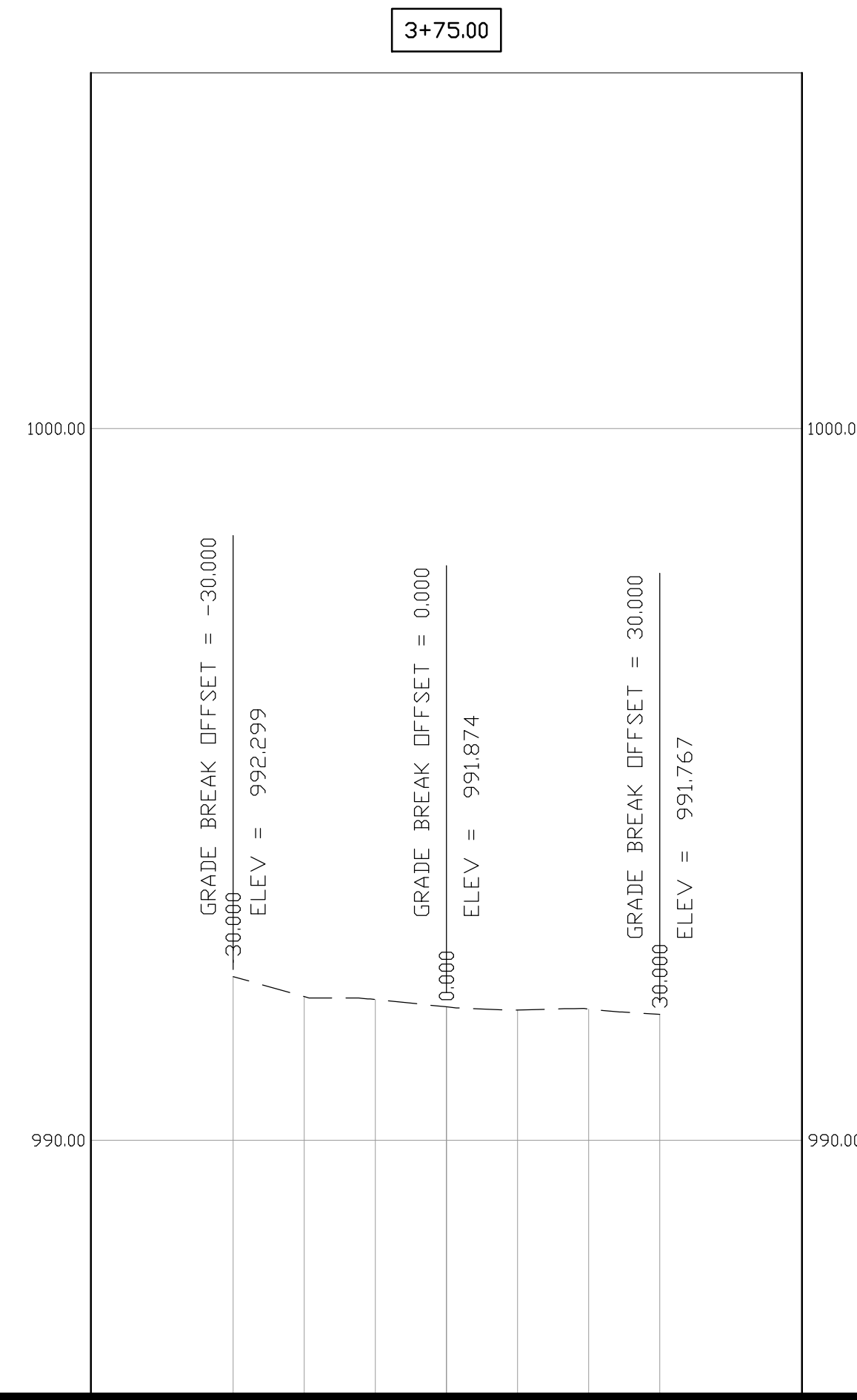
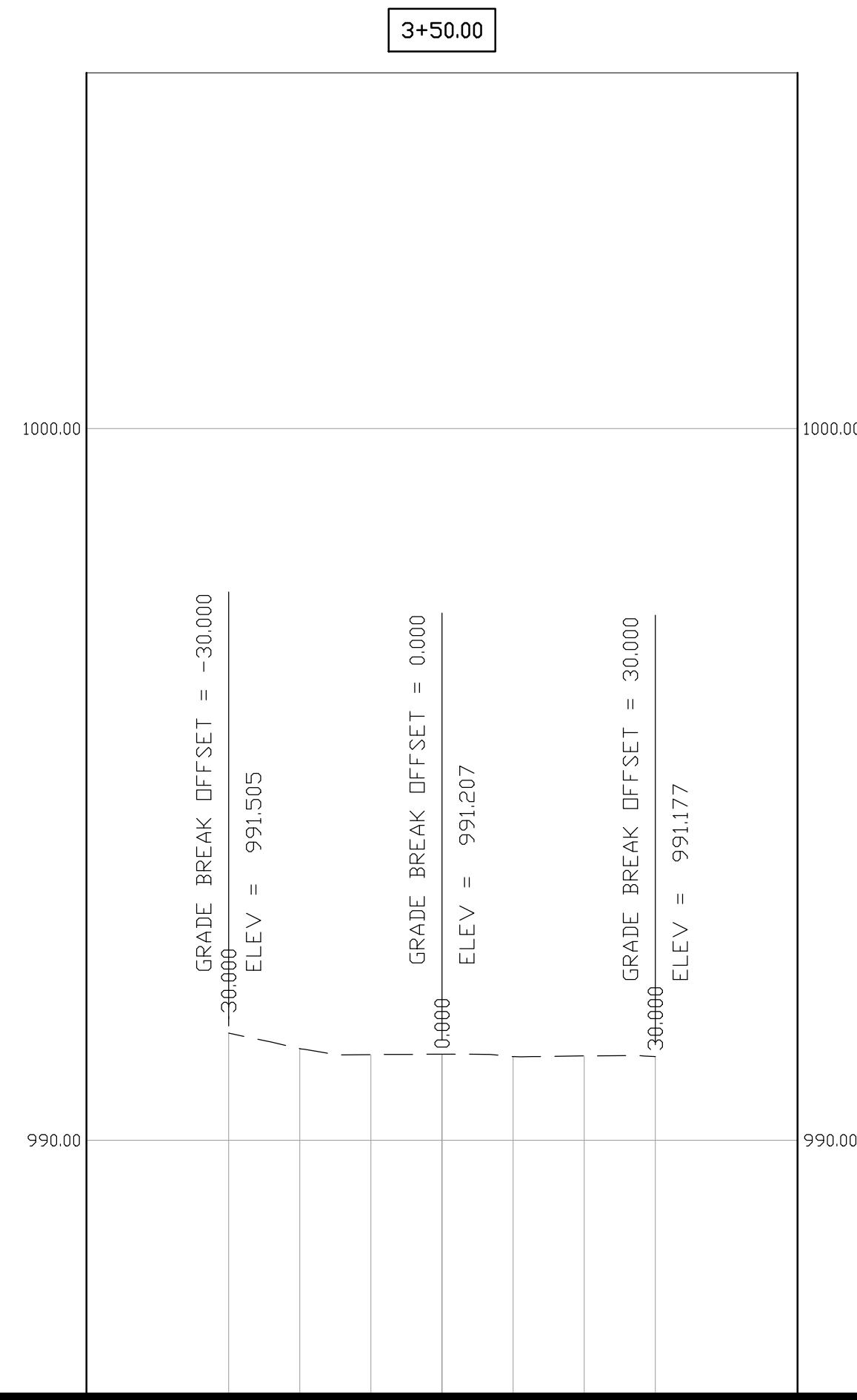
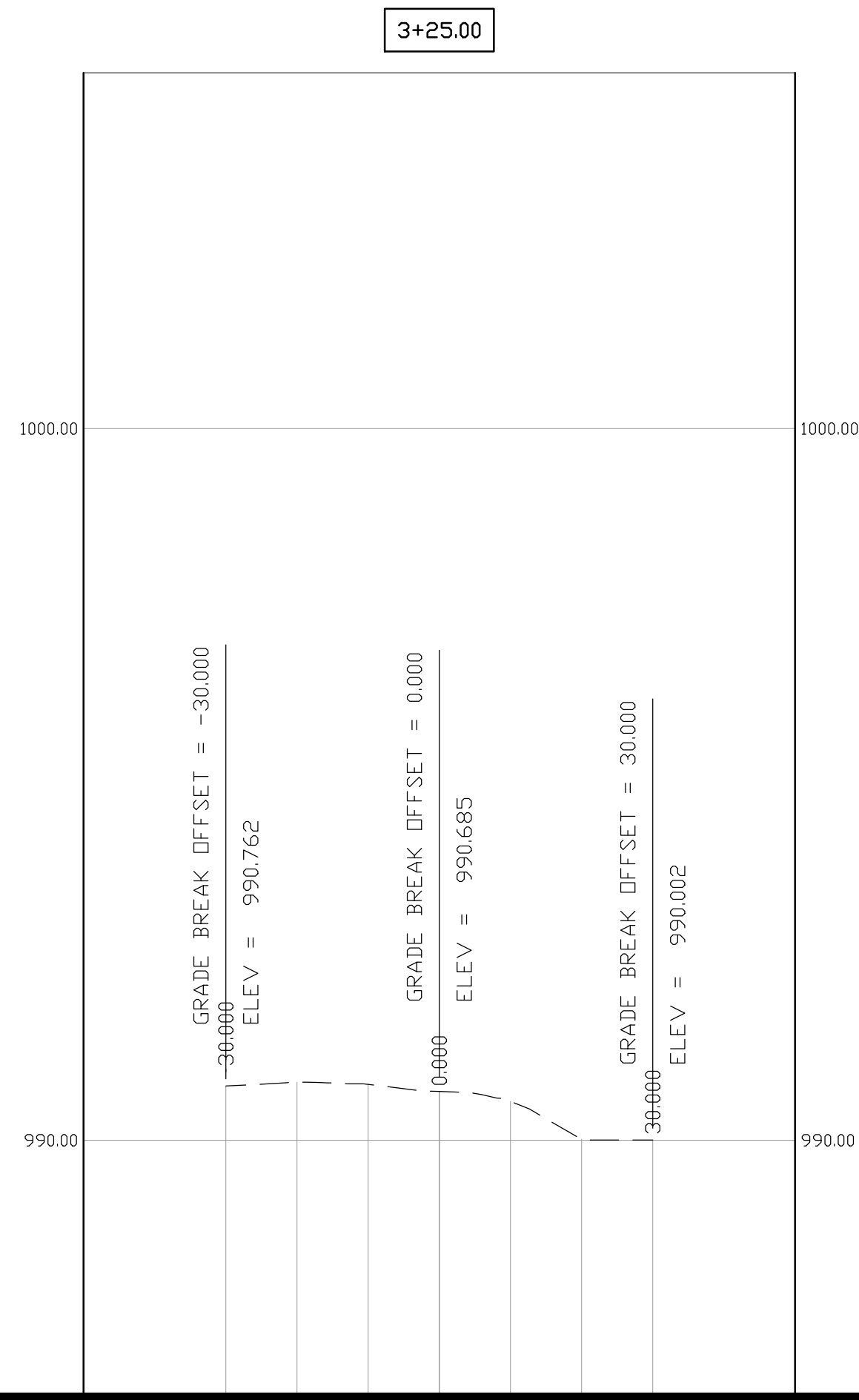
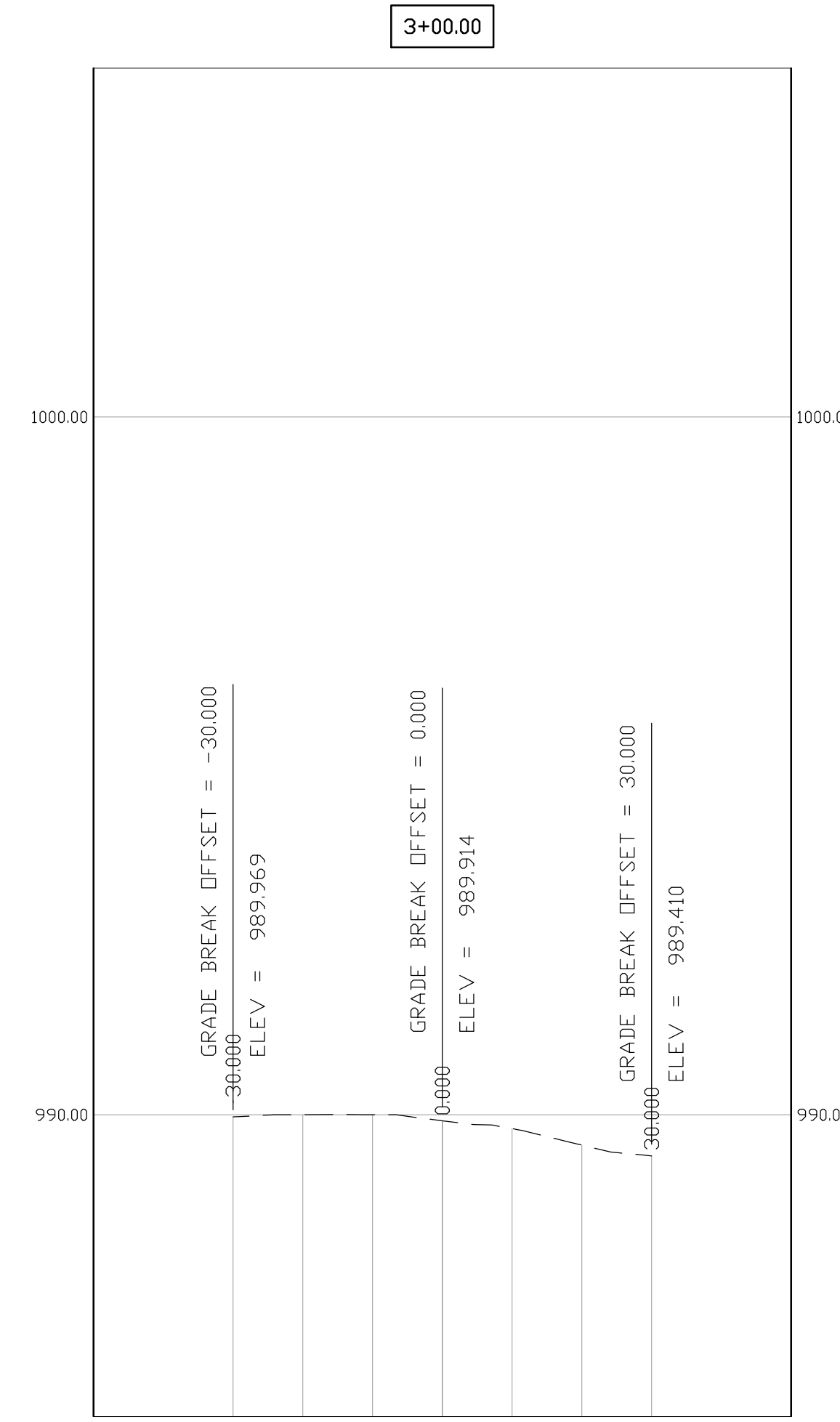
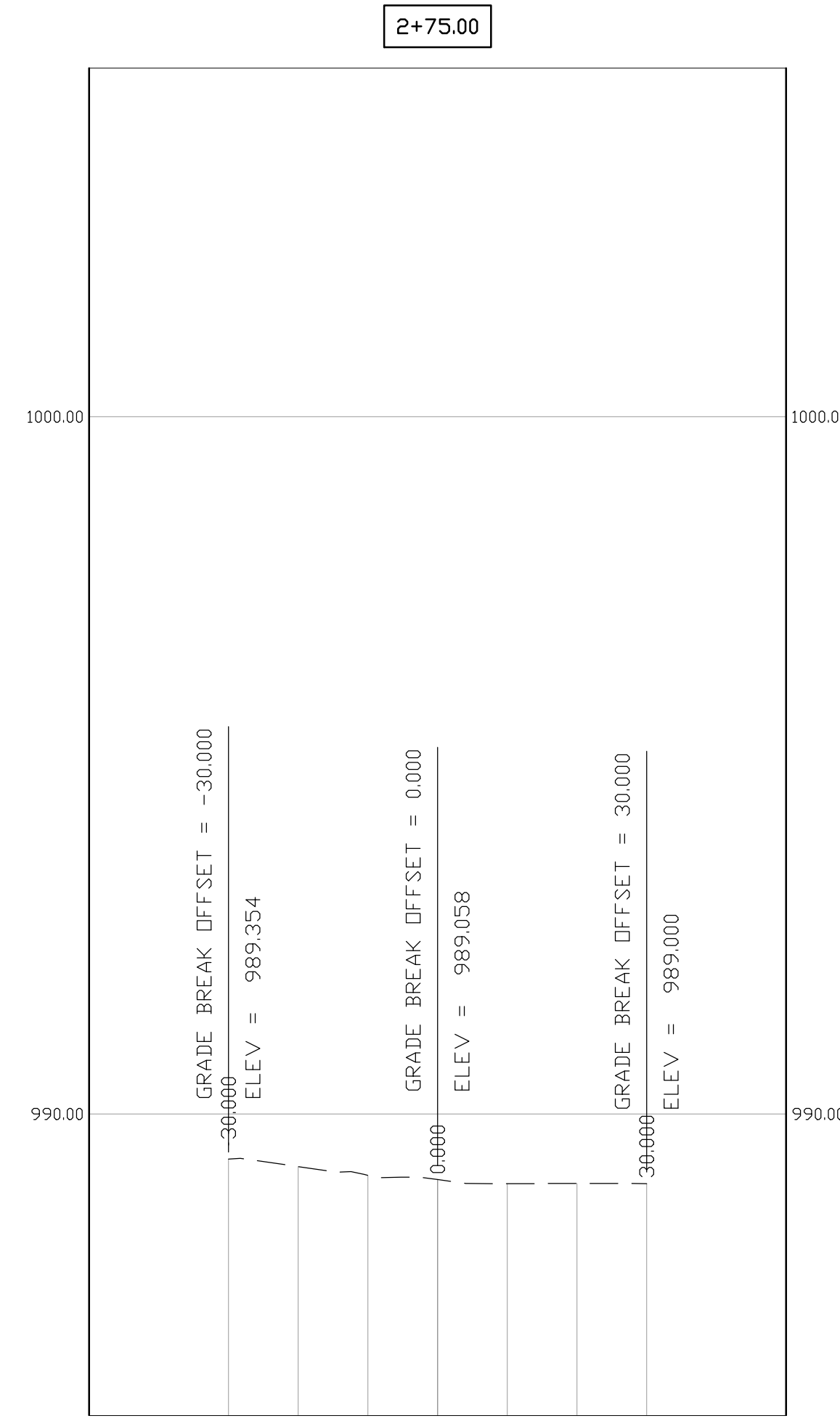
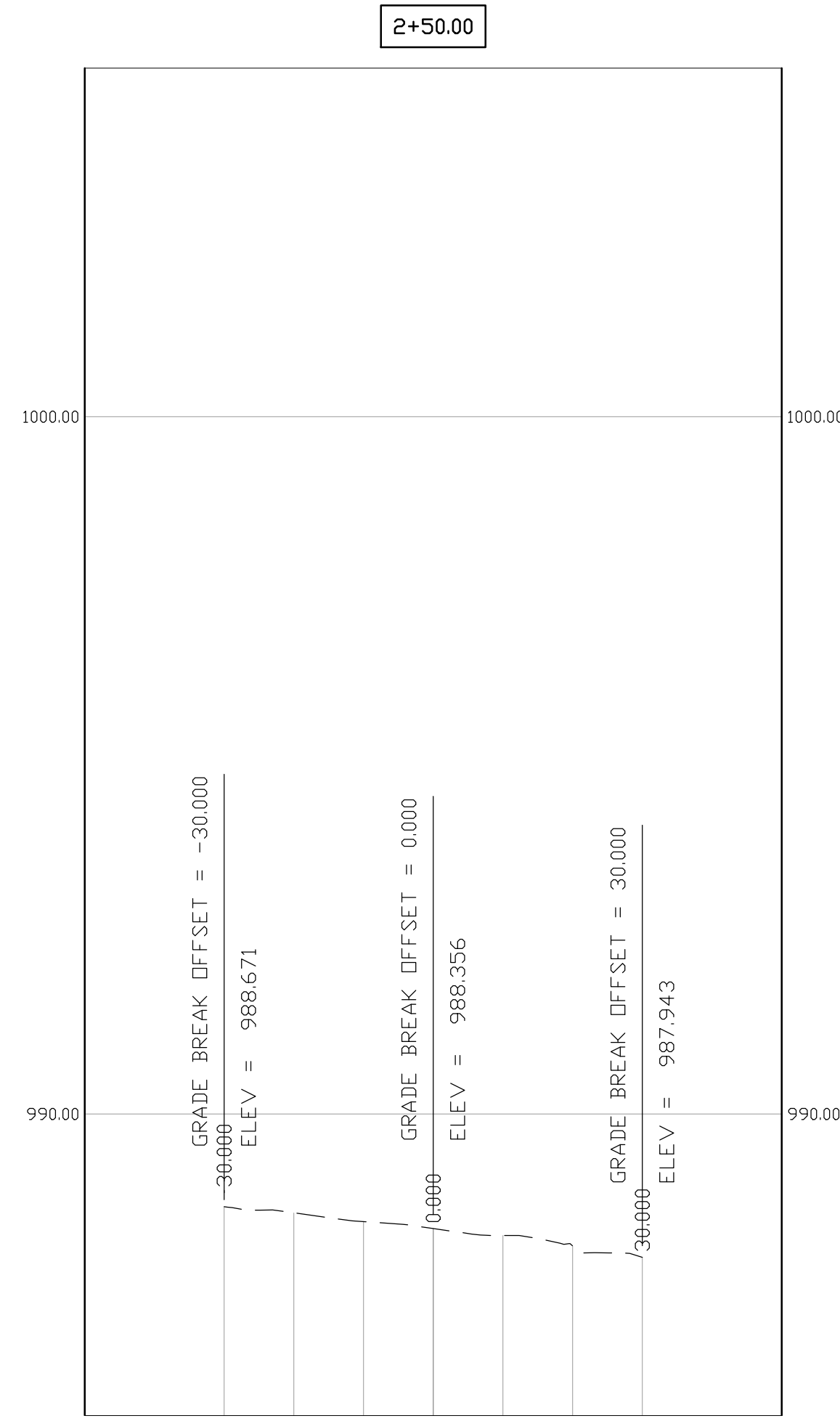
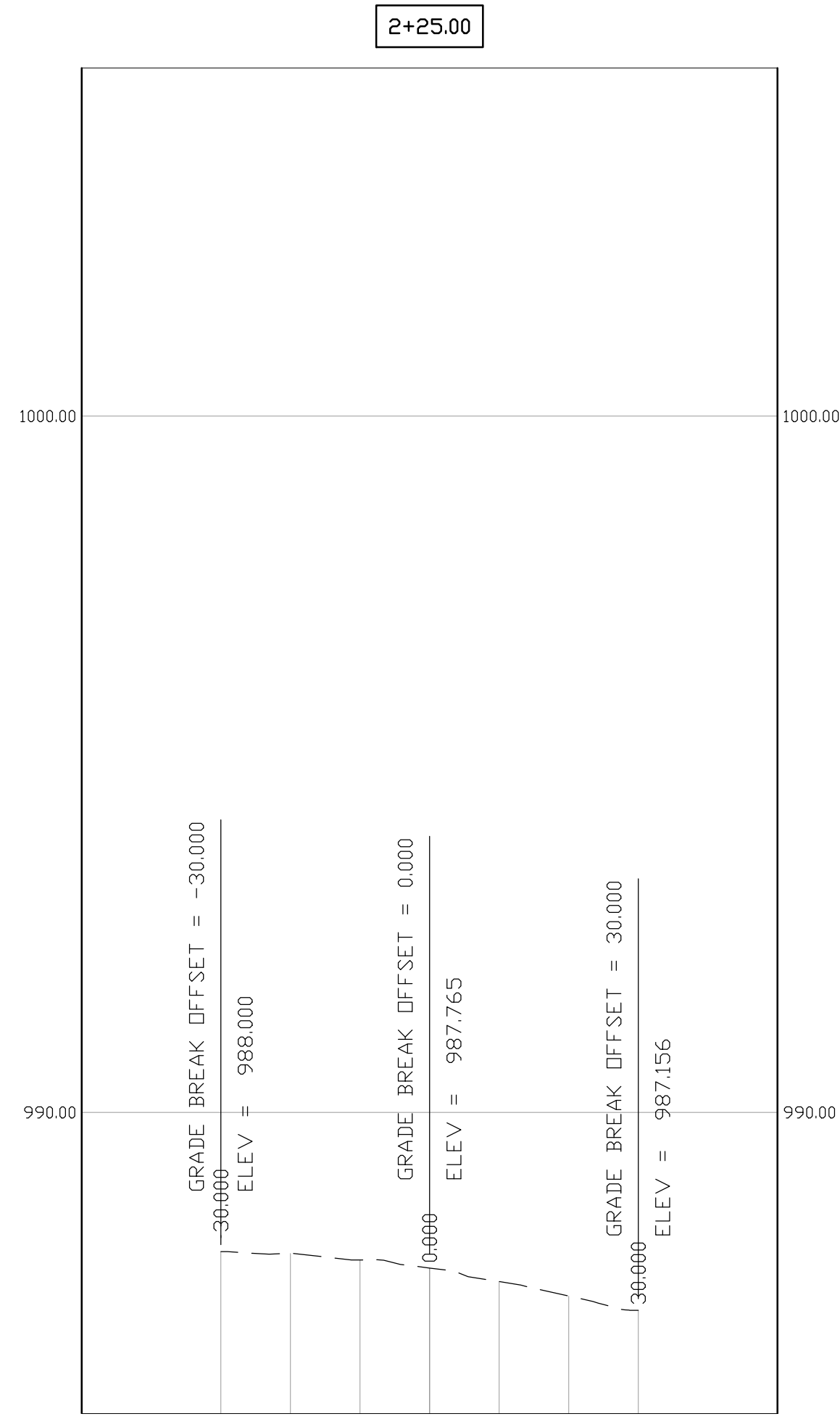
CITY OF WOODCREEK
 DEERFIELD DRIVE
 WOODCREEK Texas, 78676

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EXIST. CROSS SECTIONS

C6.02
 1 OF 4



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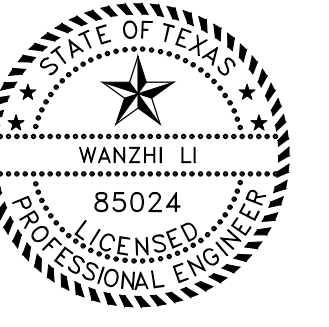
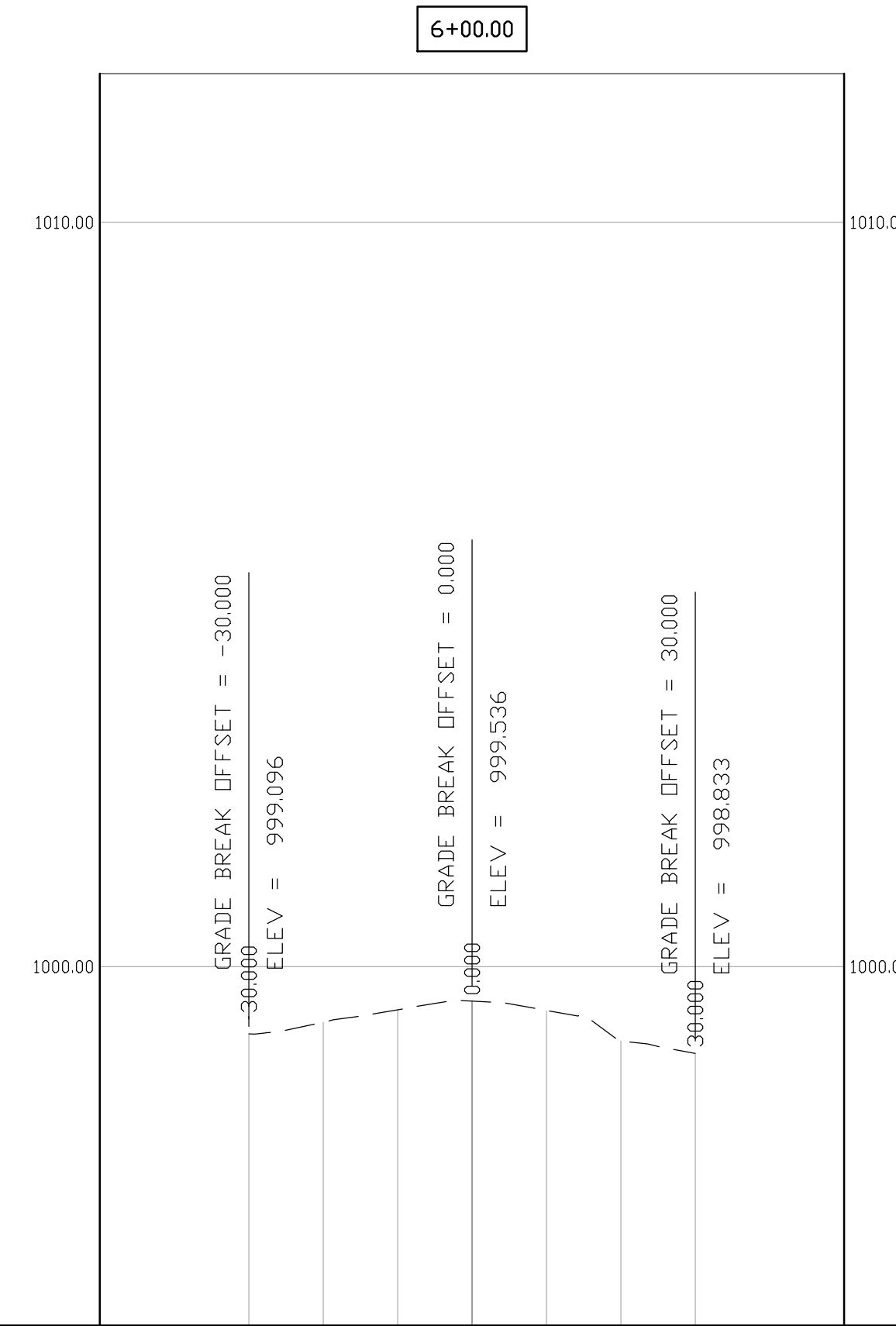
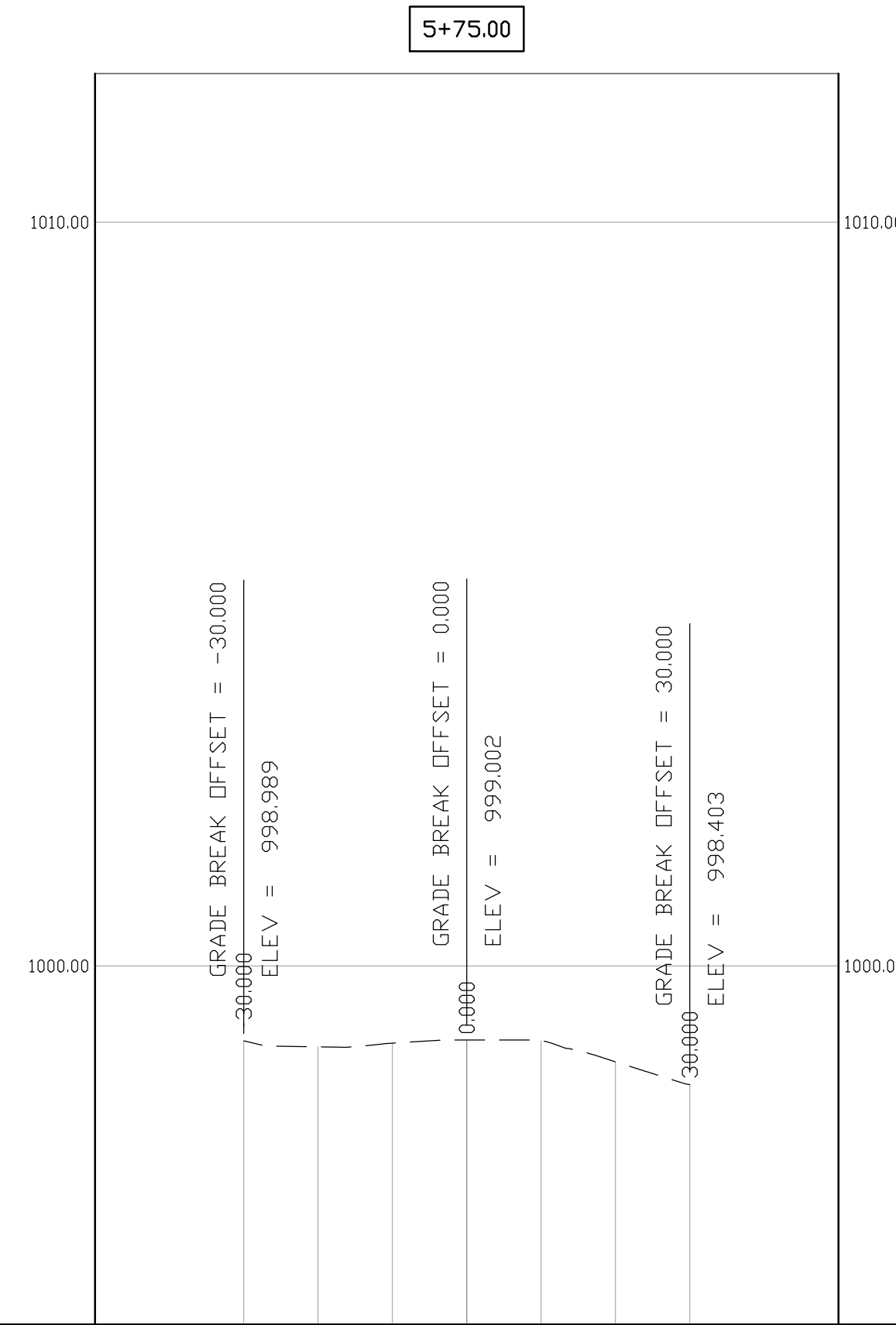
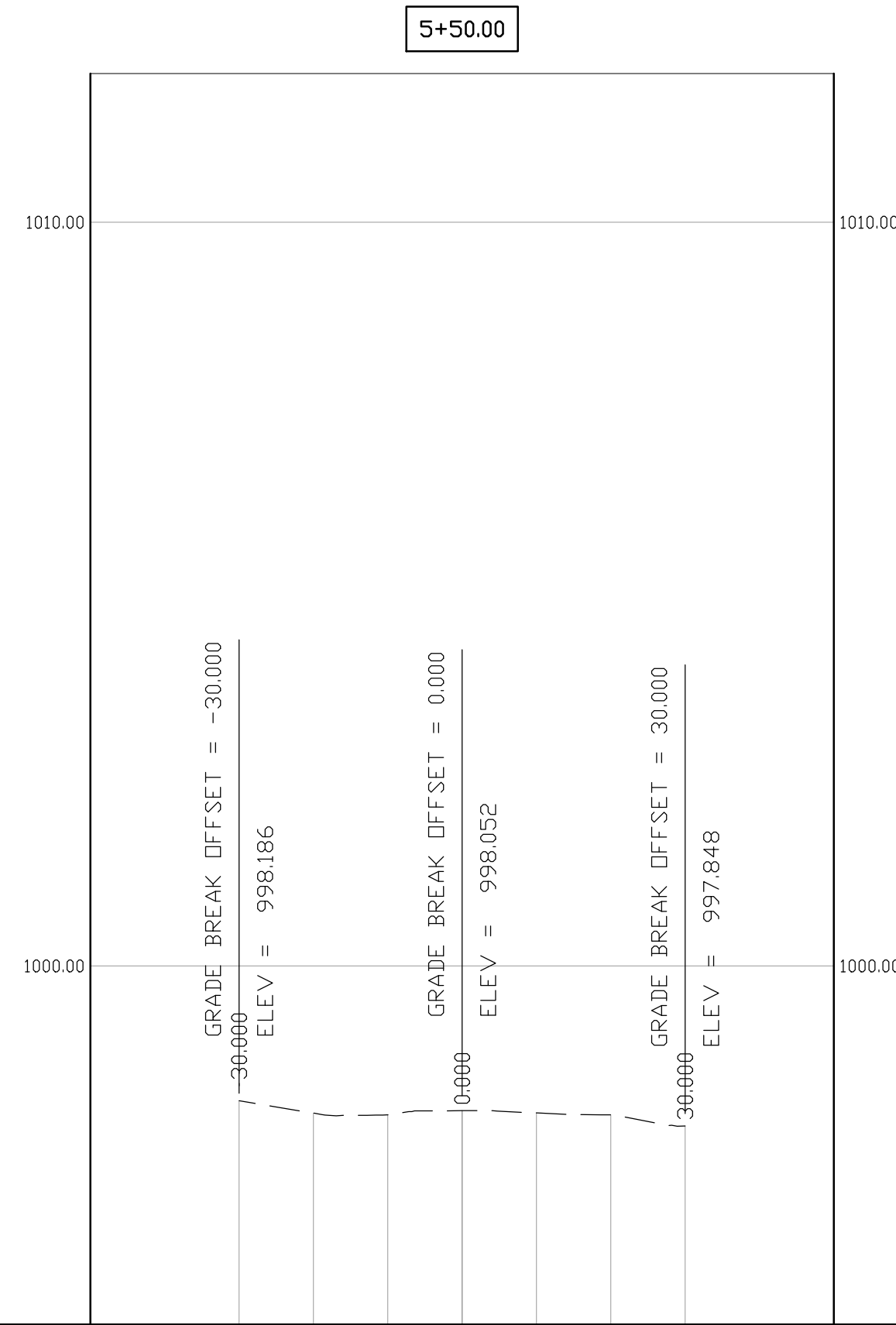
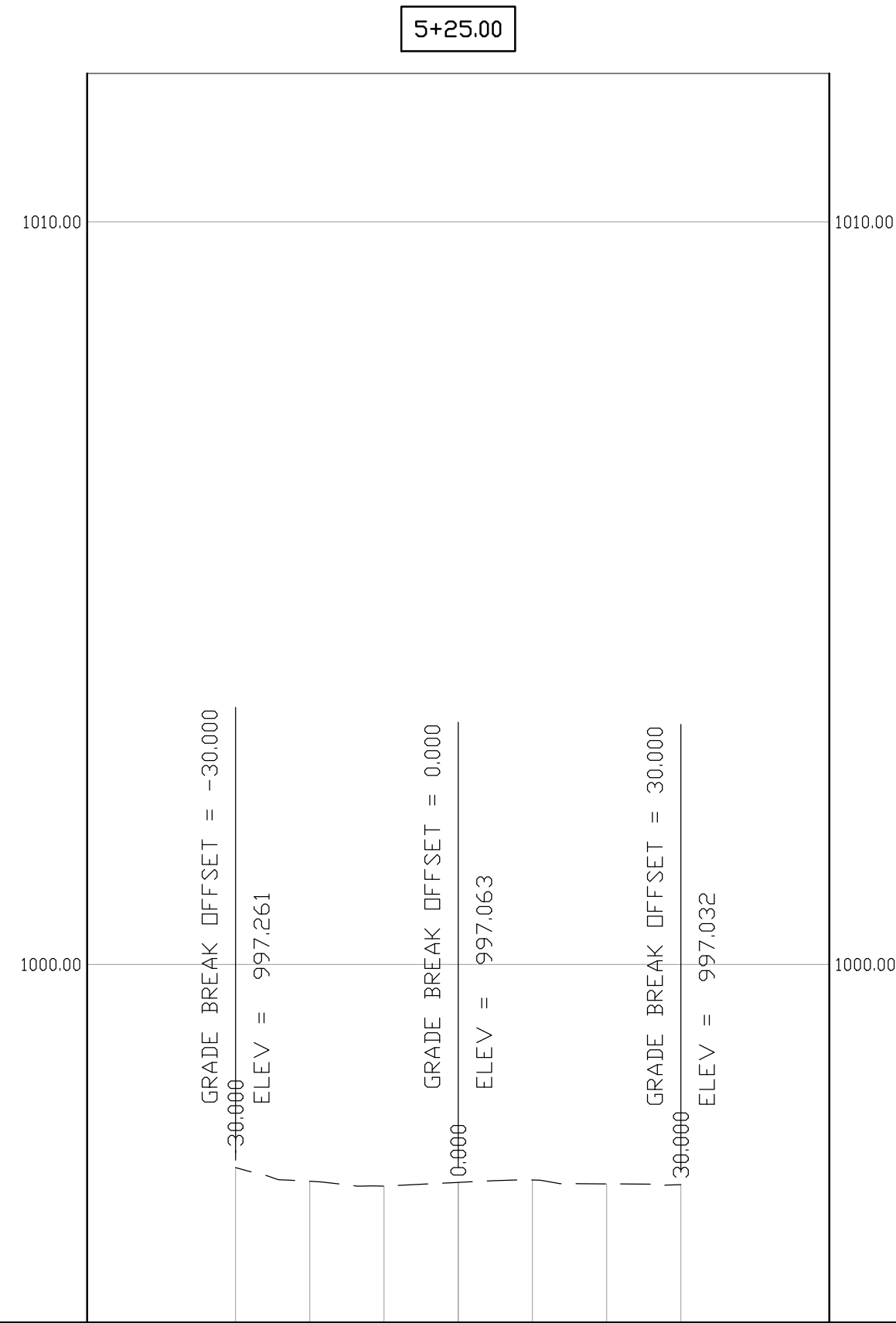
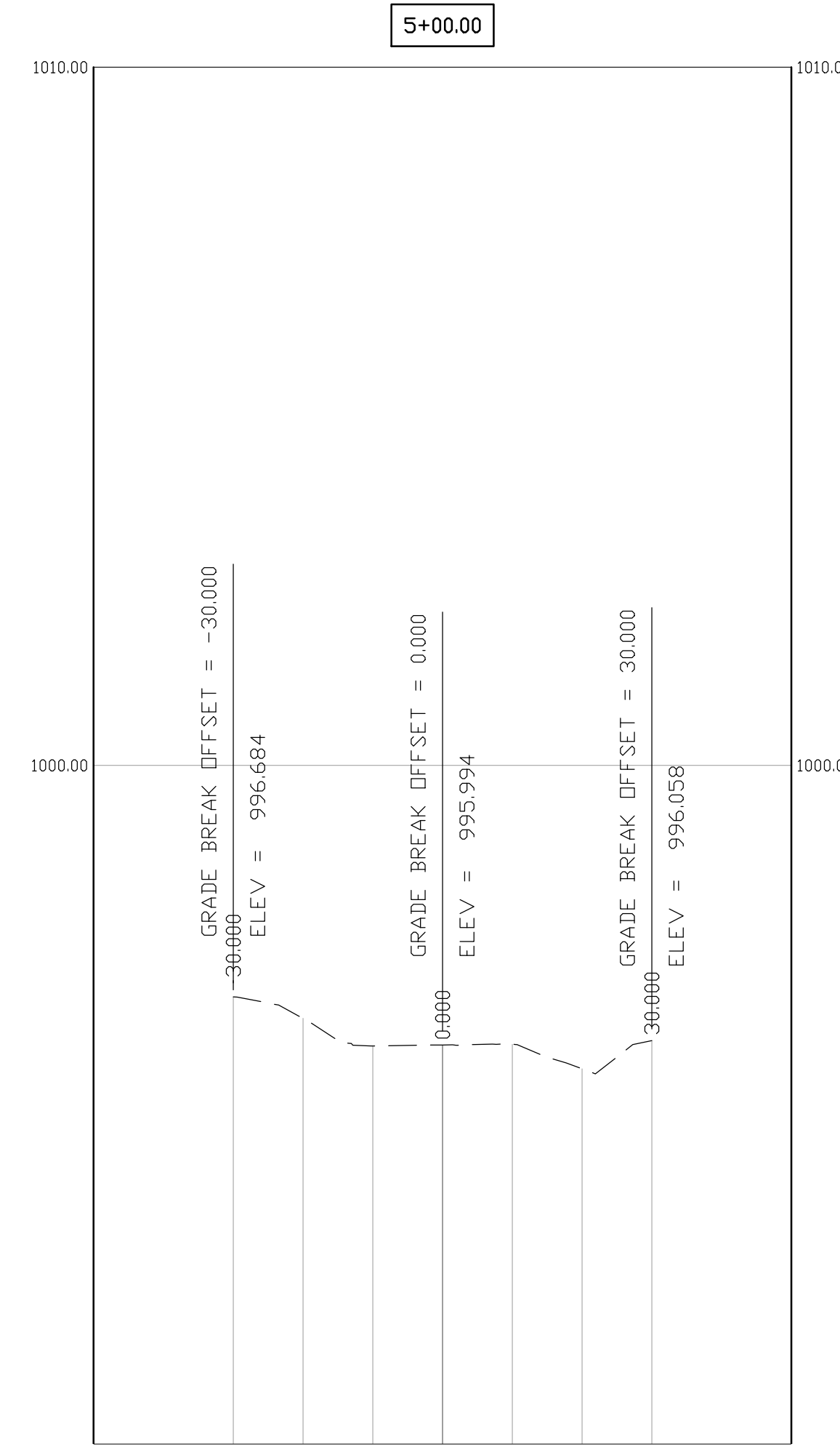
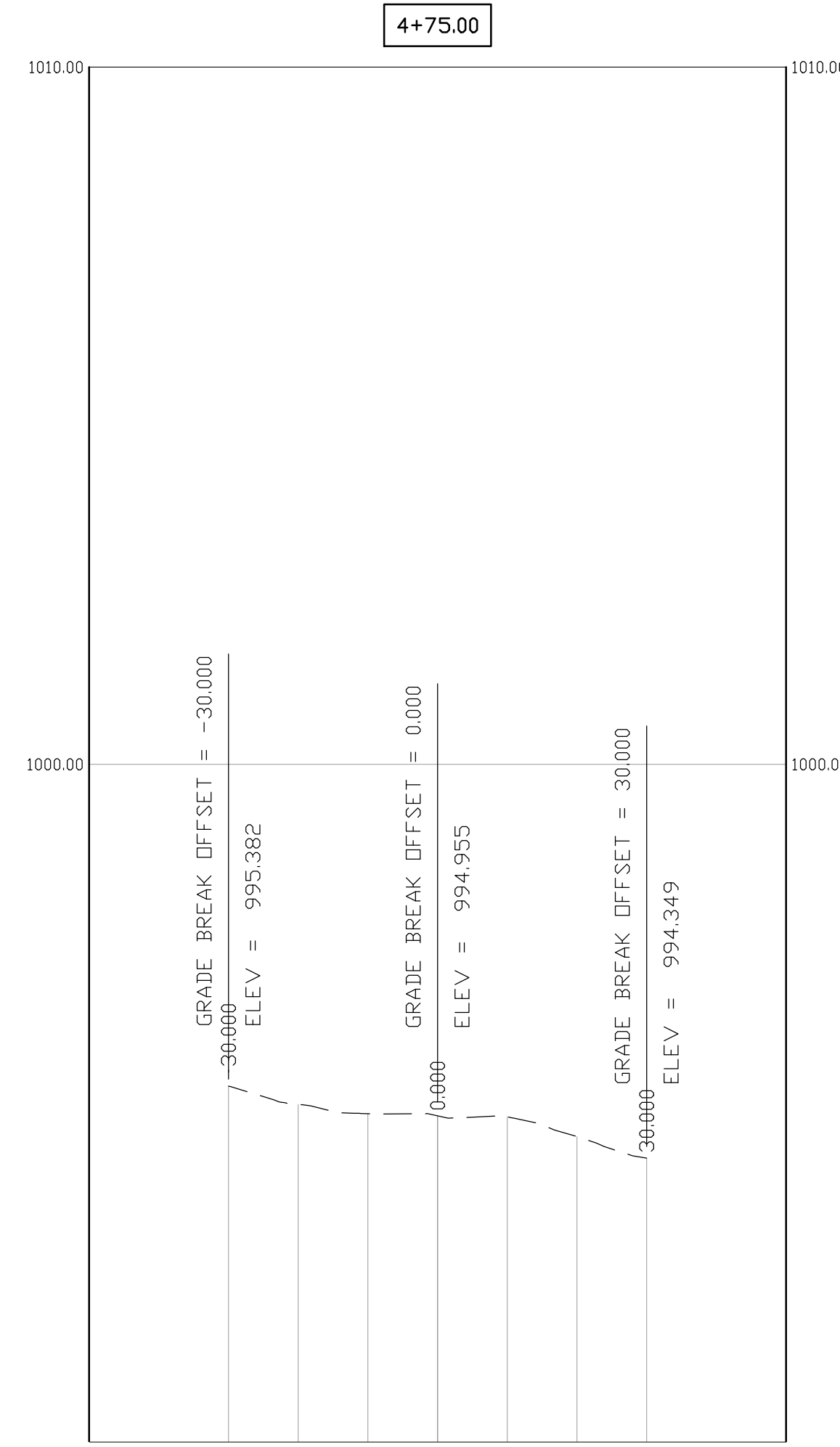
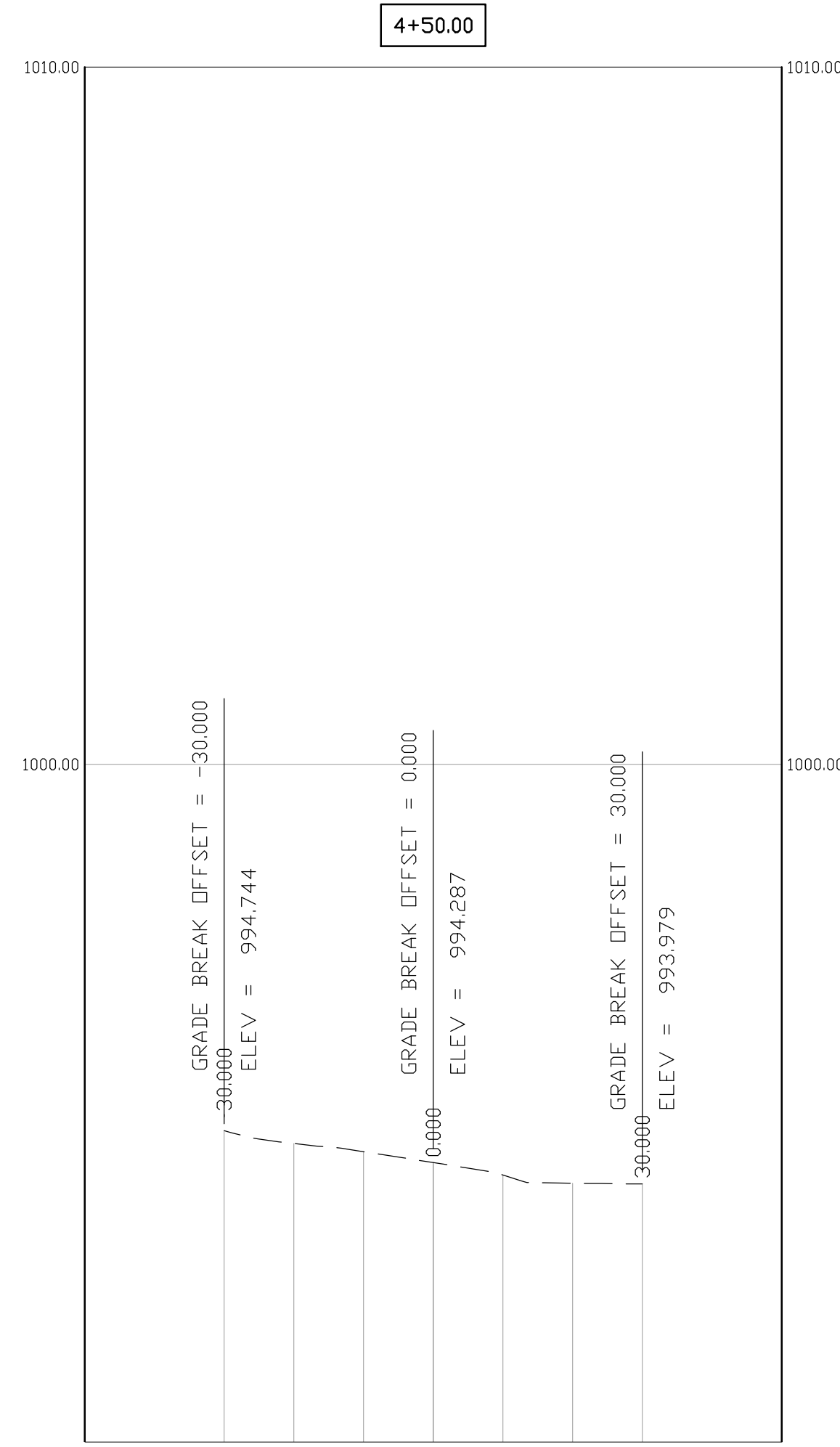
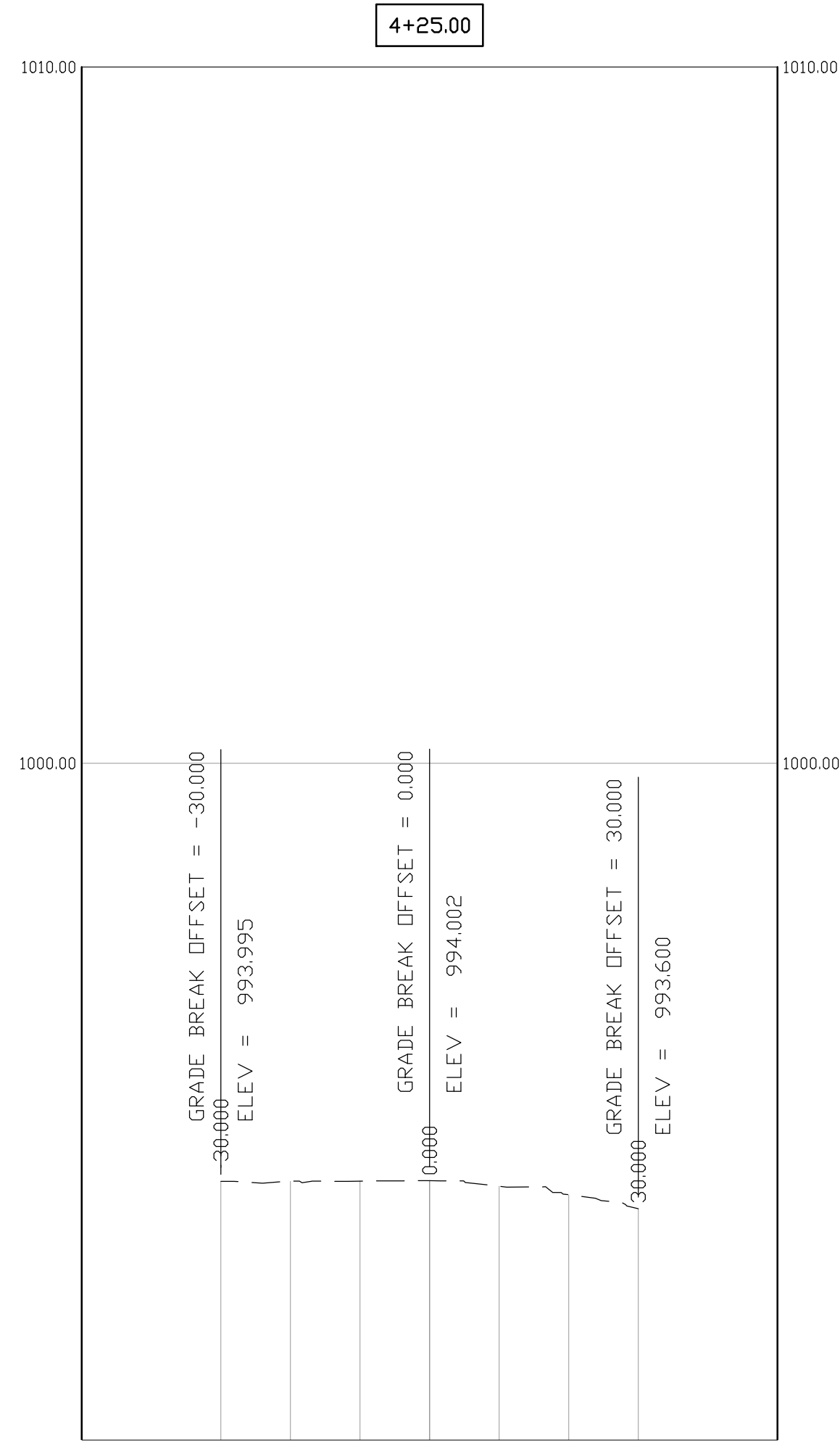
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C6.03
 2 OF 4



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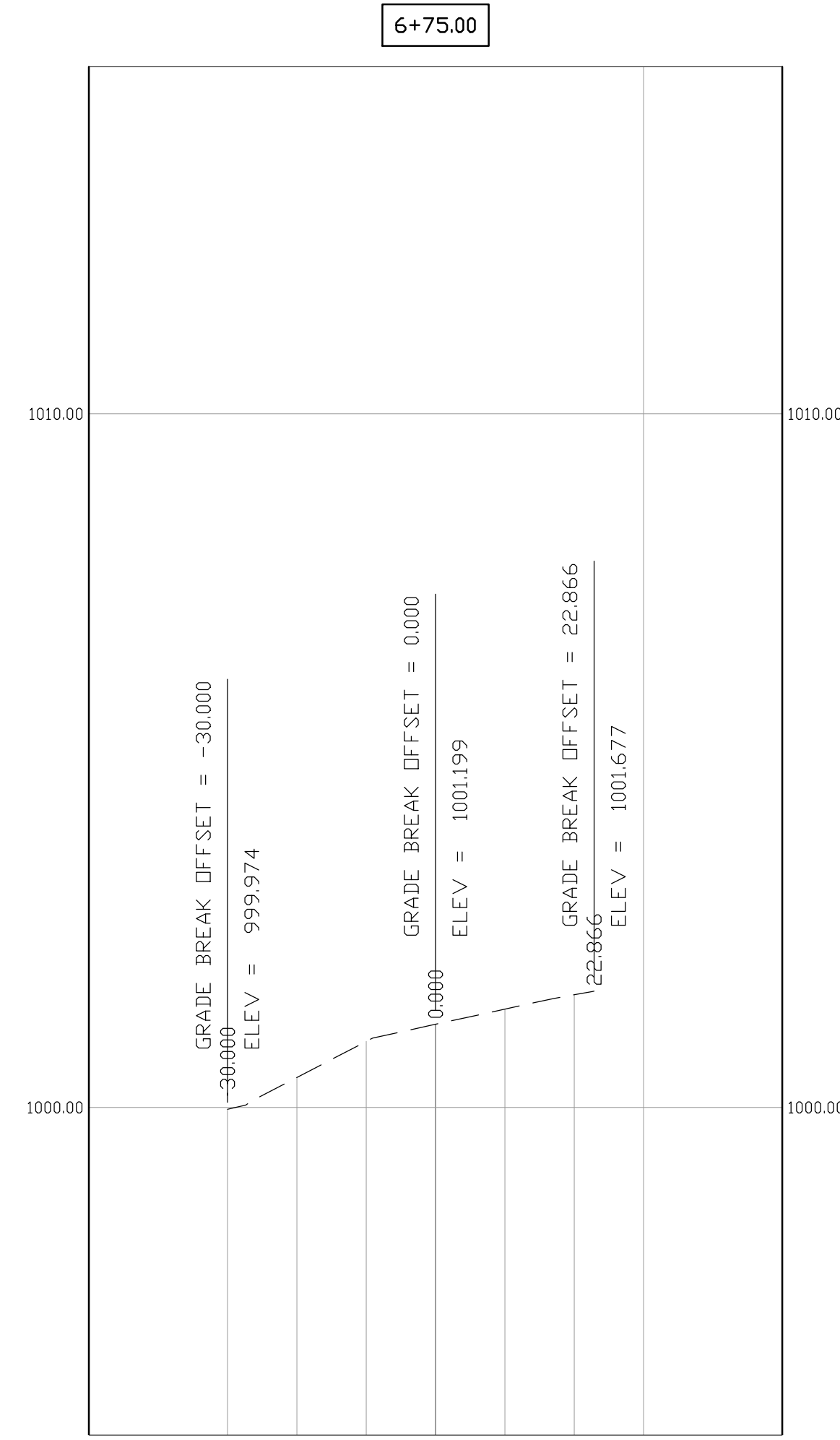
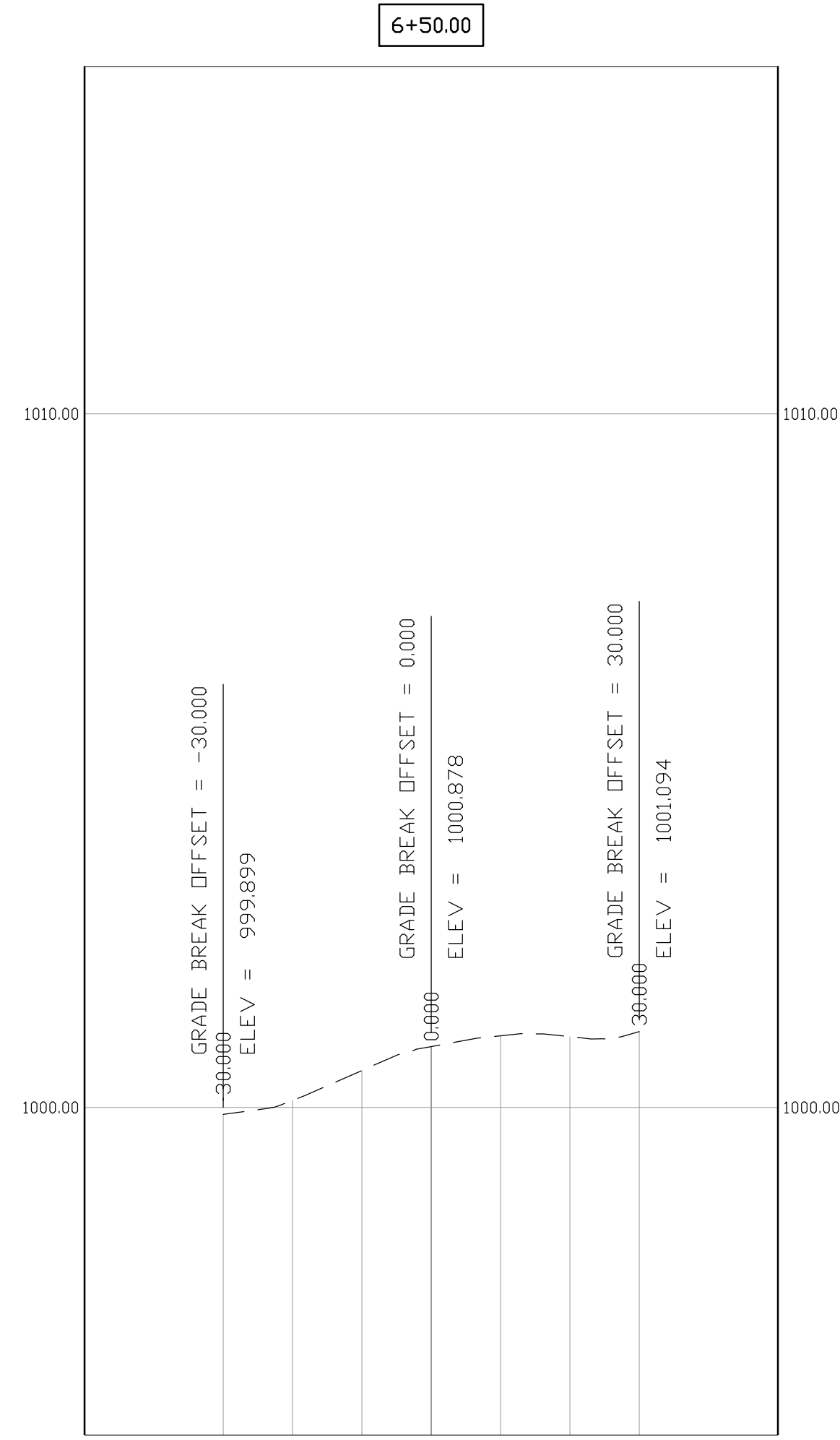
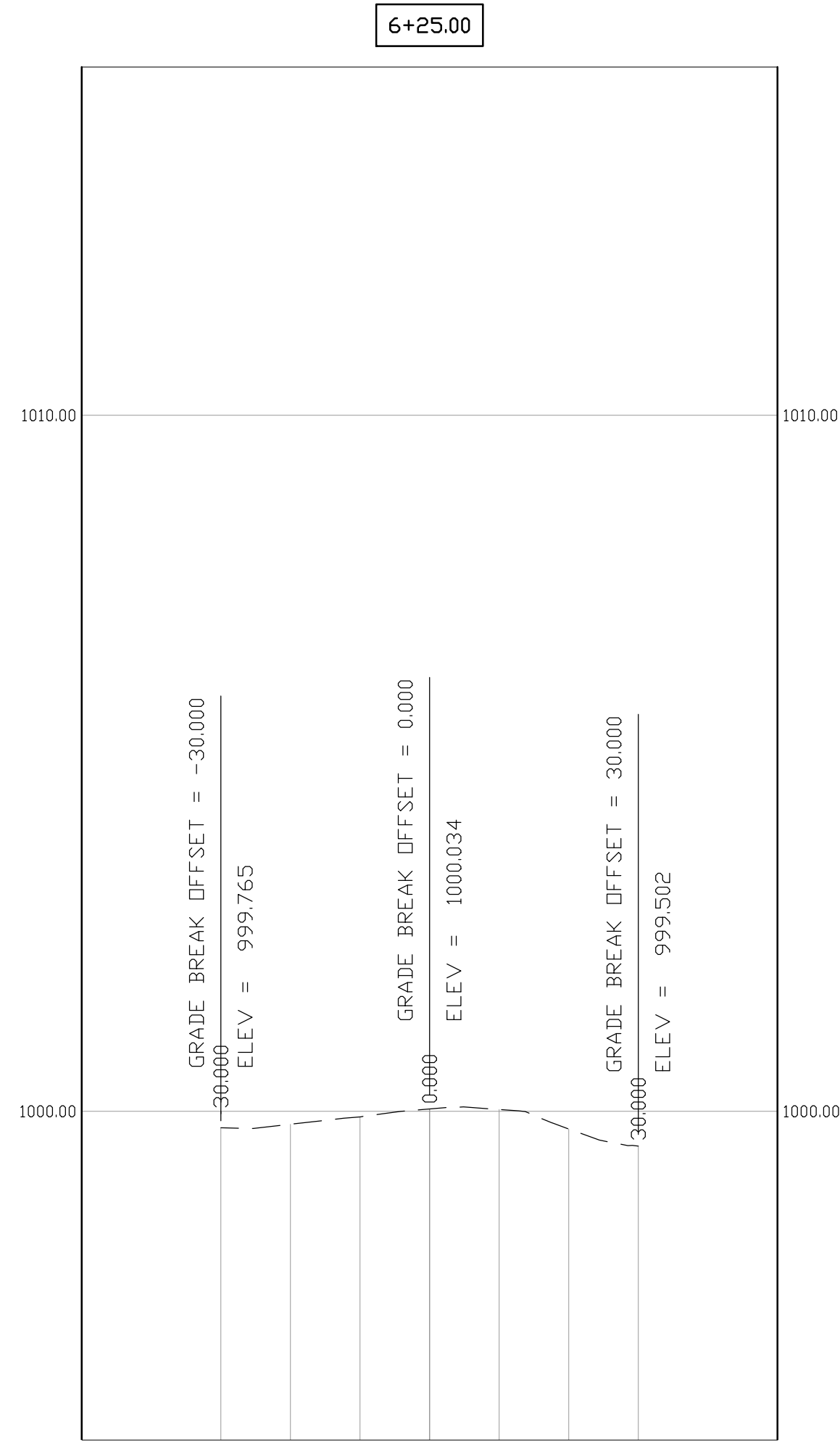
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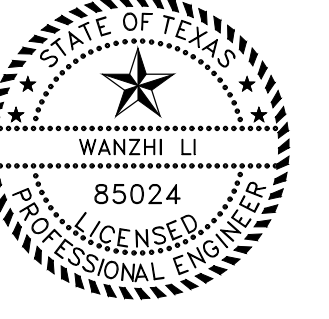
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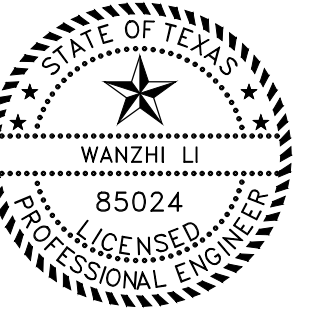
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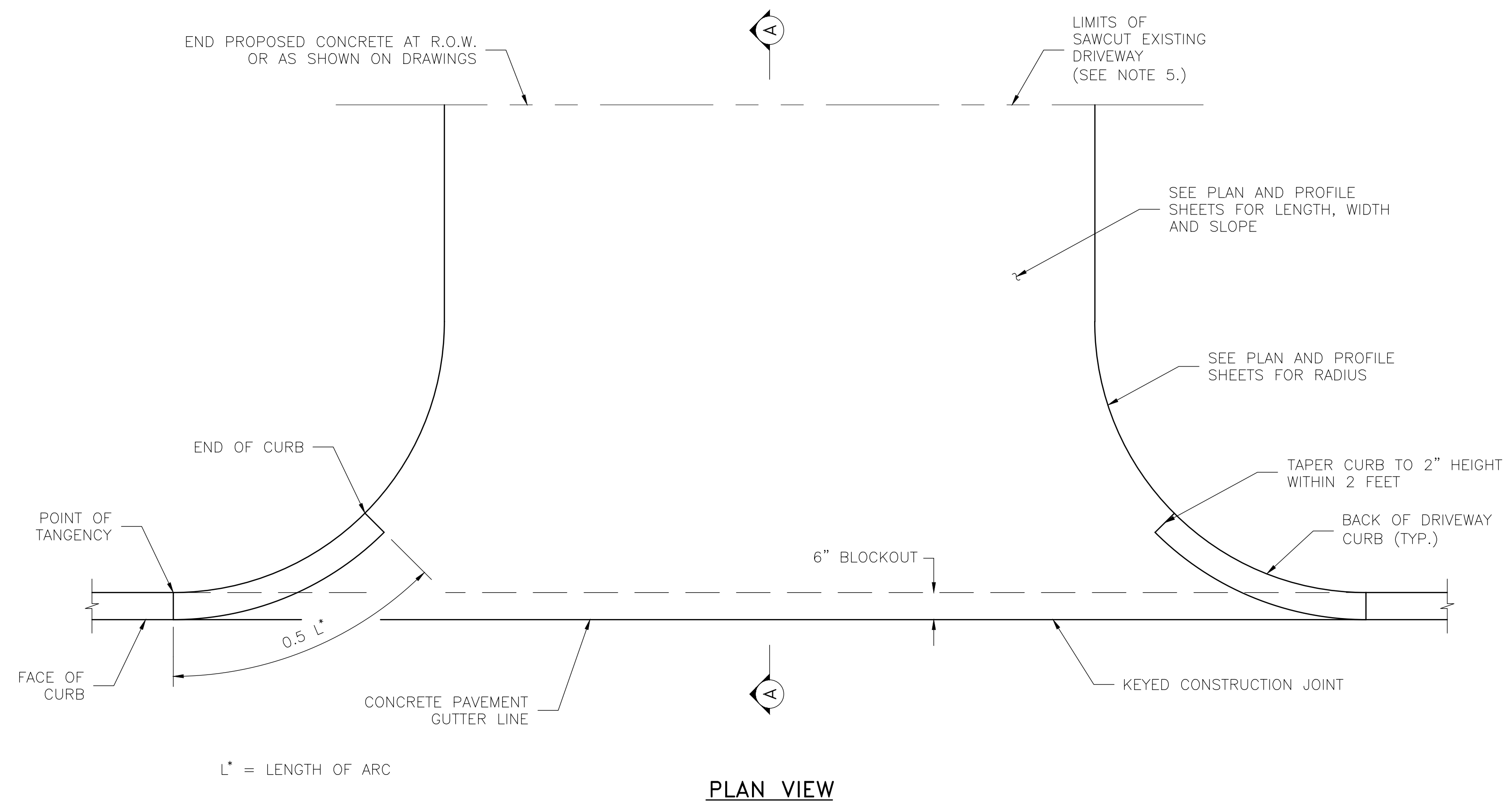
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DRIVEWAY DETAILS

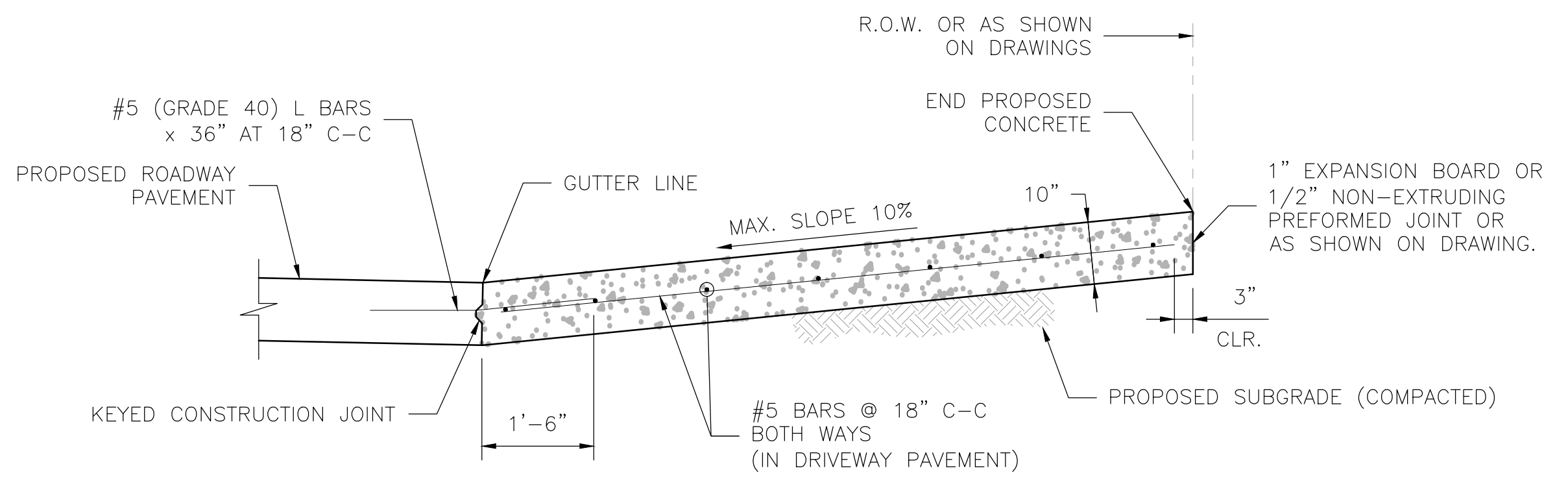
C7.02



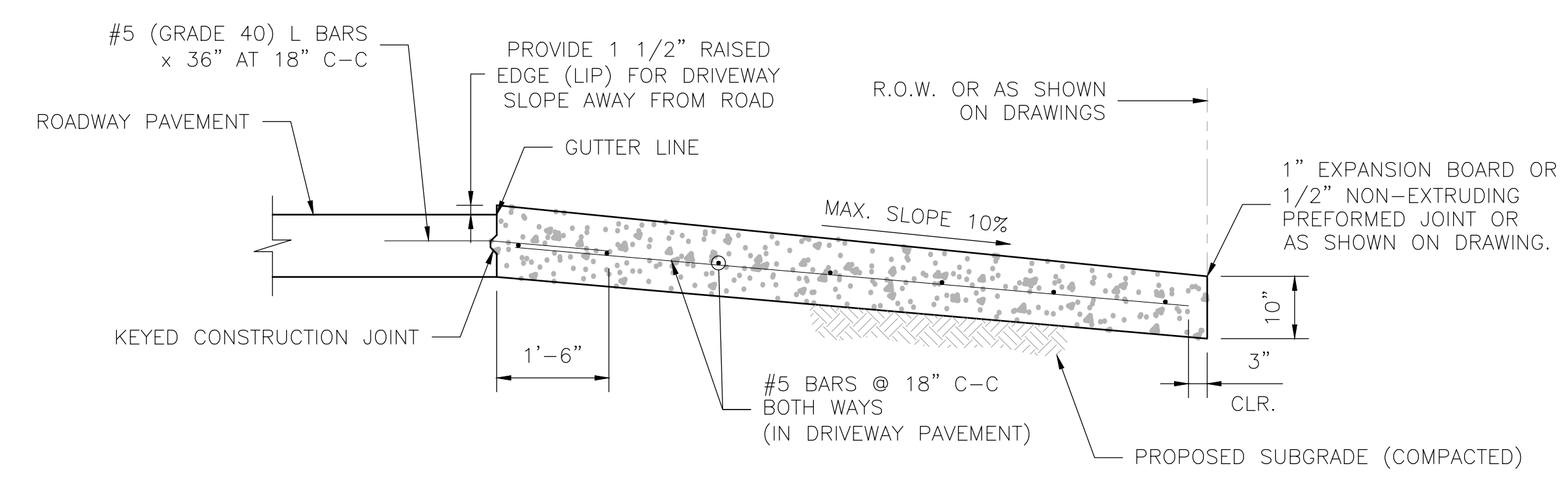
PLAN VIEW

NOTES:

1. SAWCUT EXISTING DRIVEWAY AT R.O.W. LINE OR AS SHOWN ON DRAWING AND REMOVE EXISTING DRIVEWAY TO SAWCUT LINE.
2. IF THERE IS EXISTING CURB ON DRIVEWAY, CONNECT PROPOSED CURB TO EXISTING CURB; OTHERWISE TAPER CURB HEIGHT AS SHOWN.
3. SEE PAVEMENT DETAIL SHEET FOR CONCRETE CURB REINFORCEMENT.
4. THIS DRIVEWAY INSTALLATION IS GOVERNED BY ITEM 360.
5. LIMIT OF SAWCUT OF PAVEMENT TO APPROACH TO EXISTING DRIVEWAYS:
(A) UP TO THE R.O.W. ALONG WEST SHOULDER
(B) UP TO 4'-0" BEYOND THE EAST BOUNDARY OF PAVEMENT.



SECTION A-A
(DRIVEWAY SLOPES TO ROADWAY)

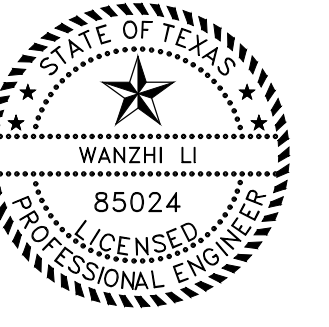


SECTION A-A
(DRIVEWAY SLOPES AWAY FROM ROADWAY)



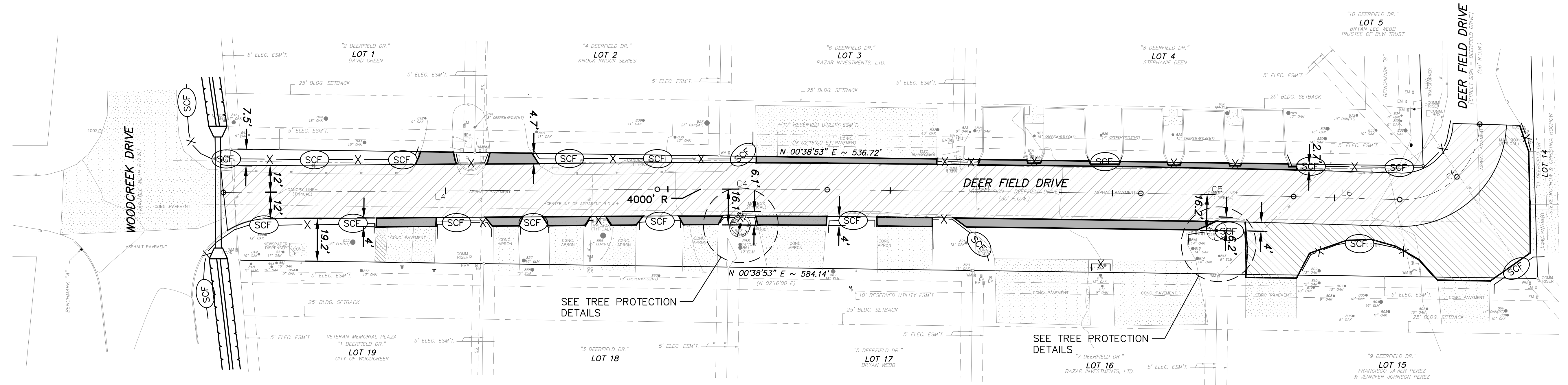
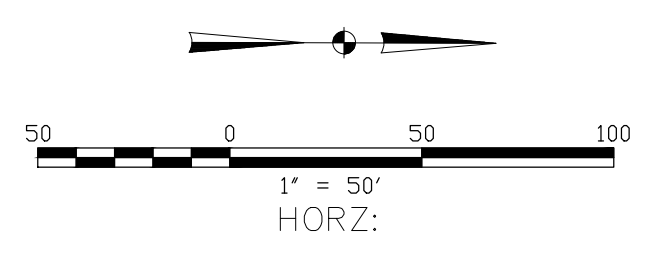
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NOTES:

1. STABILIZED CONSTRUCTION ACCESS QUANTITY INCLUDED FOR CONSTRUCTION EXITS ACTUAL LOCATION TO BE DETERMINED BY CONTRACTOR.
2. FILTER FENCING IS NOT TYPICALLY REQUIRED ALONG THE R.O.W. LINE UNLESS STORM WATER FLOWS FROM THE R.O.W. ONTO PRIVATE PROPERTY, WHICH SHOULD BE AVOIDED.

LEGEND:

- X — SCF — X SEDIMENT CONTROL FENCE (SEE TXDOT DETAIL EC(1)-16)
- REFER TO TREE PROTECTION DETAILS (TXDOT DETAIL TPD-19)
- PROPOSED ROAD PAVING
- PROPOSED APRON PAVING

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NO.	DATE

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SWPPP SHEET

C7.03

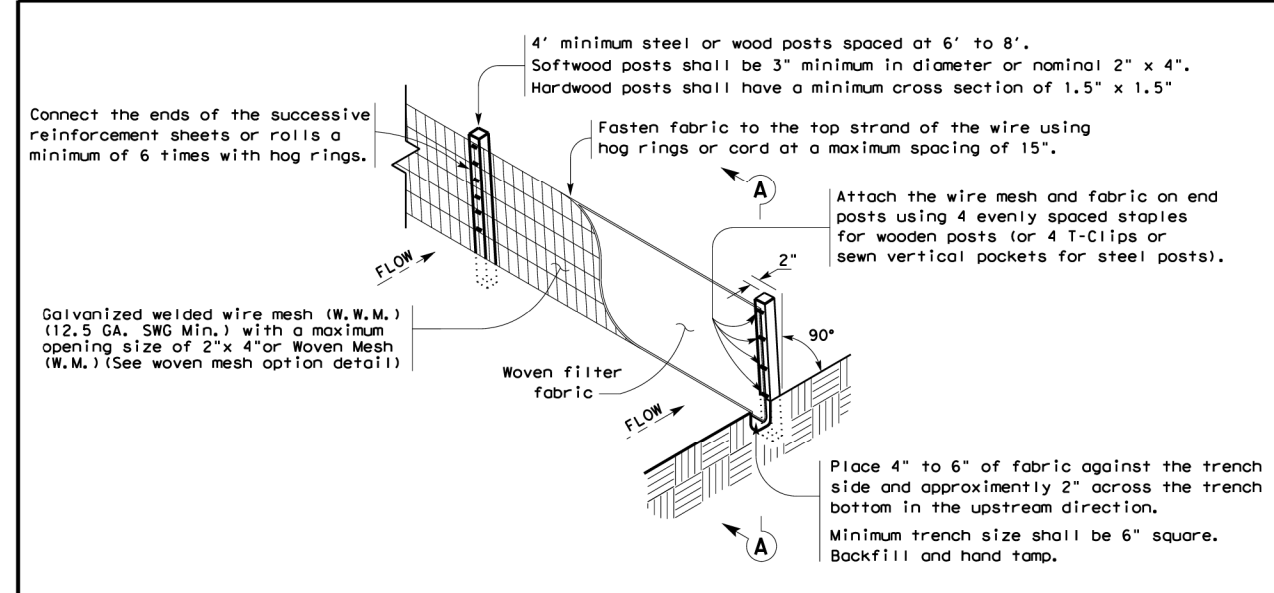
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SWPPP DETAILS

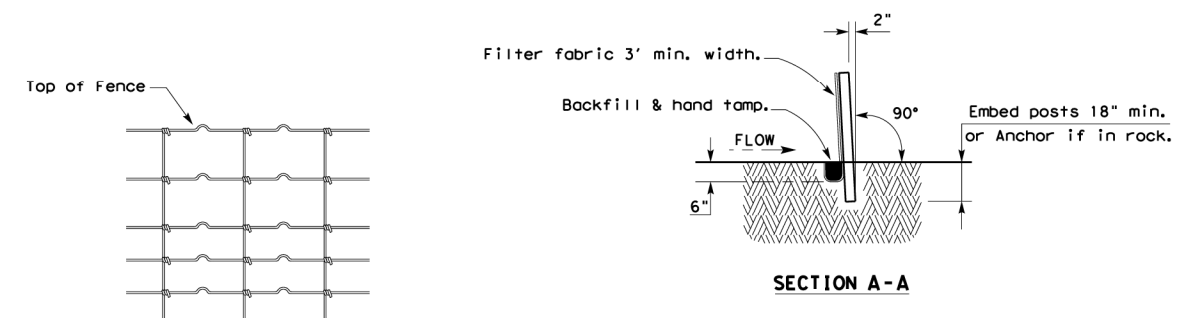
C7.04

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TEMPORARY SEDIMENT CONTROL FENCE

SCF



HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA. SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A 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.

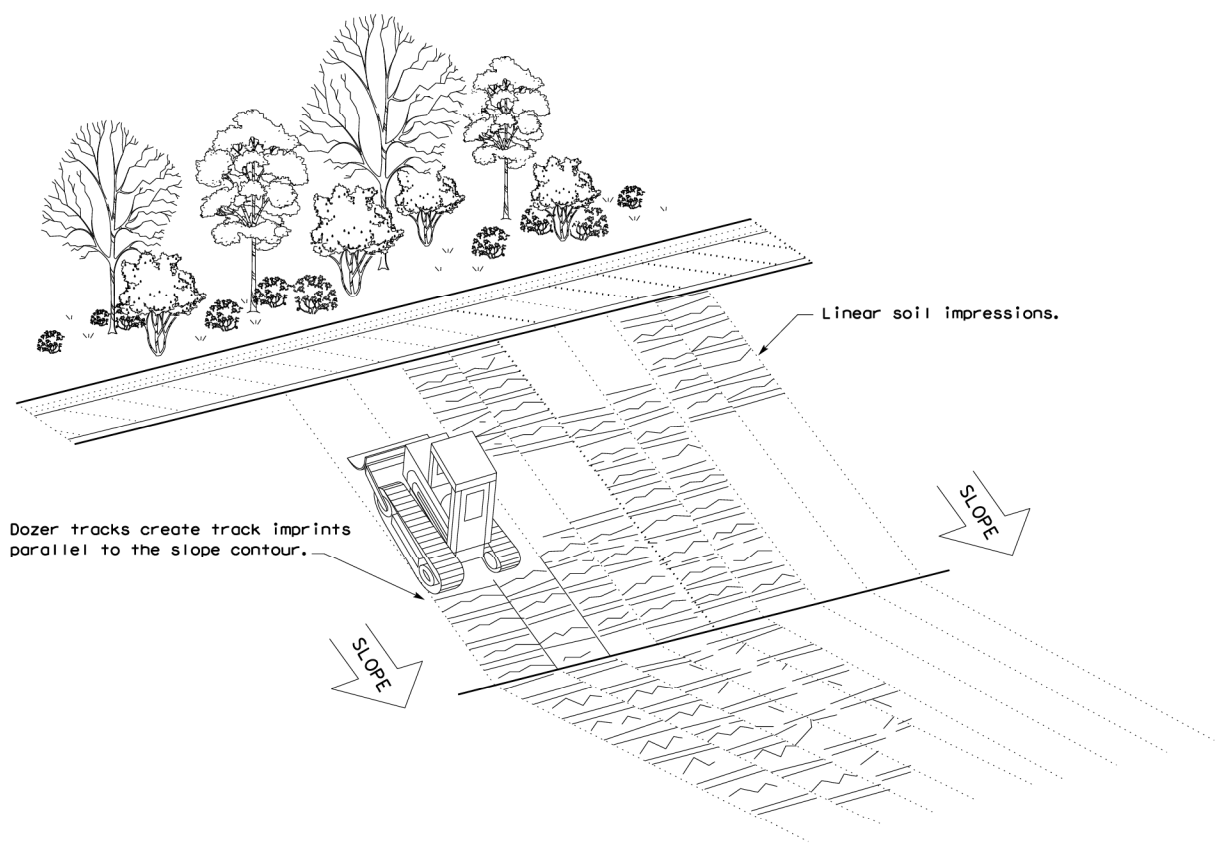
Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT². Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

LEGEND


Sediment Control Fence
 SCF

GENERAL NOTES

- Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
- Perform vertical tracking on slopes to temporarily stabilize soil.
- Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
- Do not exceed 12" between track impressions.
- Install continuous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



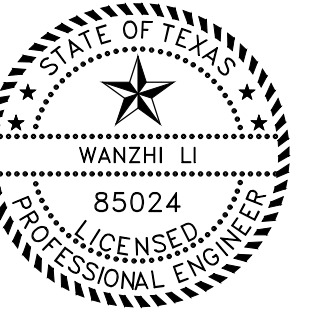
VERTICAL TRACKING

		Design Division Standard	
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING			
EC(1)-16			
FILE: ec116	DN: TxDOT	CK: KM	DR: VP
© TxDOT: JULY 2016	CONT: SECT	JOB: HIGHWAY	DN/CK: LS
REVISIONS			
DIST	COUNTY	SHEET NO.	

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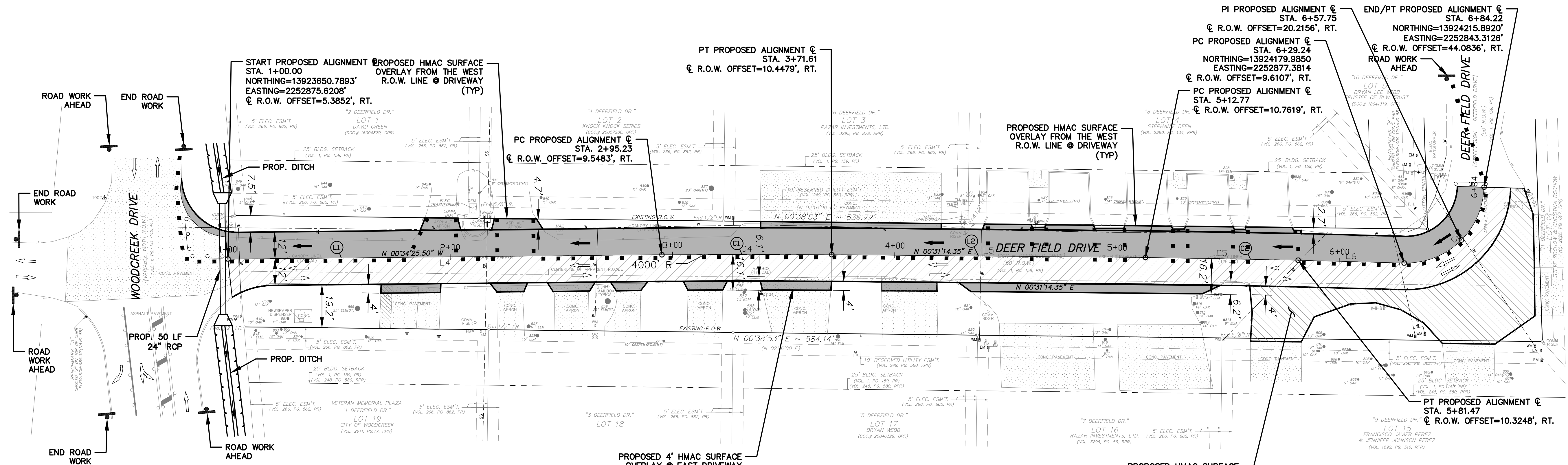
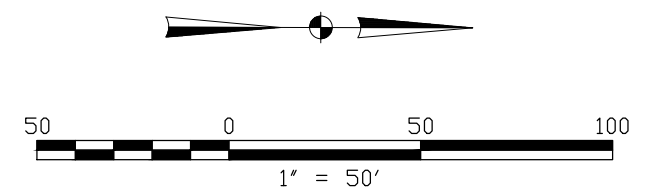
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CONSTRUCTION SEQUENCE

C7.05
1 OF 1



MAKE SURE ALL SPECIFICATION ITEMS MATCH PROJECT MANUAL

- CONSTRUCTION W. TRAVEL LANE (PHASE 1)
- CONSTRUCTION E. TRAVEL LANE (PHASE 2)
- CONSTRUCTION PROP. APRON (PHASE 2)
- DIRECTION OF TRAVEL (PROPOSED)
- DIRECTION OF TRAVEL (EXISTING)
- TYPE III BARRICADE
- CHANNELIZING DEVICES
- VERTICAL PANELS
- CONSTRUCTION SIGN

GENERAL NOTES:

- PRIOR TO ANY PHASE, IMPLEMENT ADVANCE WARNING SIGNS IN ACCORDANCE WITH HAYS COUNTY BARRICADE AND CONSTRUCTION STANDARDS (BC) AND SHOWN IN THE TCP.
- PRIOR TO ANY PHASE, PLACE CHANNELIZING DEVICES AND BARRICADES AS SHOWN IN THE PLANS.
- MAINTAIN ACCESS TO ALL PROPERTY OWNER'S DRIVEWAY THROUGHOUT CONSTRUCTION. REFER TO TCP ITEM ____, TEMPORARY ACCESS DRIVEWAYS SHALL PROVIDE AN ALL-WEATHER SURFACE AND SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION ACCEPTABLE TO THE ENGINEER. WHERE INDICATED IN THE BID DOCUMENTS, ASPHALT MILLINGS MAY BE USED FOR TEMPORARY DRIVEWAYS.

PHASE 1 SOUTHBOUND ROADWAY CONSTRUCTION:

TRAFFIC OPERATIONS:

- BEGIN TRAFFIC MERGE AT WOODCREEK DRIVE.
- CONTRACTOR TO REFER TO ITEM ____ FOR INSTALLING TEMPOARY PAVEMENT.
- THE EXISTING NORTHBOUND TRAFFIC LANE WILL BE SWITCHED TO ONE LANE FOR NORTHBOUND AND SOUTHBOUND TRAFFIC.

CONSTRUCTION:

- DEMOLISH EXISTING SOUTHBOUND LANE (SEE SHEET C2.01, DEMOLITION PLAN).
- CONSTRUCT PROPOSED SOUTHBOUND 10' LANE AND 2" SHOULDER FROM STATION 1+00 TO STATION 6+85.22 (END).
- ALL DRIVEWAYS ON THE WEST SIDE OF ROADWAY WILL BE INSTALLED ONE HALF AT A TIME TO ALLOW FOR RESIDENTS ACCESS.

PHASE 2 NORTHBOUND ROADWAY CONSTRUCTION:

TRAFFIC OPERATIONS:

- THE TRAFFIC ON THE OLD NORTHBOUND ROADWAY WILL BE SWITCHED TO THE NEWLY CONSTRUCTED SOUTHBOUND LANES (TWO WAY TRAFFIC).
- MODIFY TRANSITION FROM SOUTHBOUND TO NORTHBOUND BETWEEN WOODCREEK DRIVE AND TO STATION 6+85.22 (END).

CONSTRUCTION:

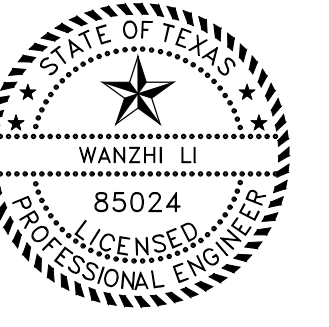
- DEMOLISH EXISTING NORTHBOUND LANE (SEE SHEET C2.01, DEMOLITION PLAN)
- CONSTRUCT 10' TRAFFIC LANE AND 2' SHOULDER PROPOSED NORTHBOUND ROAD PAVEMENT FROM STATION 1+00 TO 6+84.22 (END) TO W. BELFORT BLVD.
- ALL DRIVEWAYS ON THE EAST SIDE OF ROADWAY WILL BE INSTALLED ONE HALF SIDE AT A TIME TO ALLOW FOR RESIDENTS ACCESS.

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USER: Dec 31, 2024 3:21pm jsmart
PLOT TAB: CONSTRUCTION SEQUENCE



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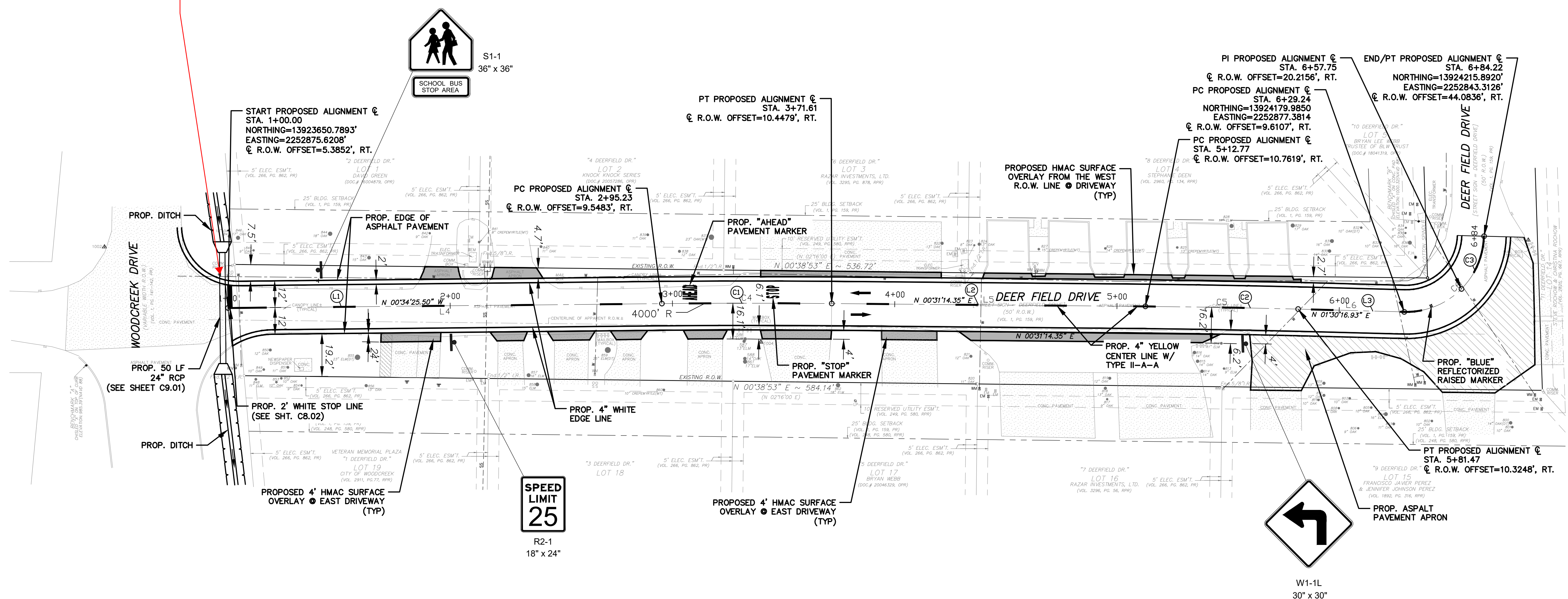
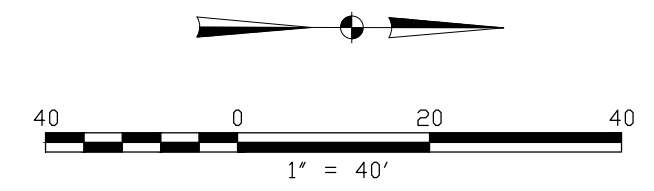
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PAVEMENT MARKINGS
AND SIGNAGE

C8.01
1 OF 1

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PLOT TAB: PAVEMENT MARKINGS AND SIGNAGE

WILL THIS PROJECT
REQUIRE NEW STOP
SIGN OR IS THIS ONE
BEING RECYCLED?



- LEGEND:
- PROP. 2" "STOP LINE" PAVEMENT MARKING (SEE SHT. C8.02)
 - PROP. "AHEAD" WHITE PAVEMENT MARKING WORD
 - PROP. "STOP" WHITE PAVEMENT MARKING WORD
 - PROP. 4" "YELLOW" CENTER LINE W/ TYPE II-A-A
 - PROP. 4" WHITE EDGE LINE OF 2' SHOULDER
 - PROP. "BLUE" REFLECTORIZE TYPE II-B-B RAISED MARKER
 - PROP. ASPHALT PAVEMENT APRON
 - PROP. ASPHALT PAVEMENT @ DRIVEWAY

- NOTES:
- ALL OF THE PROPOSED MARKINGS SHOWN ARE TO BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD PAVEMENT MARKING DETAILS AND THE TEXAS M.U.T.C.D. MANUAL, PART 3.
 - CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION WHERE PROPOSED PAVEMENT MARKINGS ARE TO BE INSTALLED.
 - CONTRACTOR TO FIELD VERIFY THE LOCATION AND LIMITS OF THE EXISTING OR PROPOSED ROADWAY BEFORE THE INSTALLATION OR REMOVAL OF ANY PAVEMENT MARKINGS.
 - REFER TO SHEET C8.03 FOR SIGN MOUNTING DETAILS.



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EDGE LINE AND LANE LINES ONE-WAY ROADWAY WITH OR WITHOUT SHOULDERS

TYPICAL TWO-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS

CENTERLINE AND LANE LINES FOUR LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS

TYPICAL MULTI-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS

TWO LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS

FOUR LANE DIVIDED ROADWAY CROSSOVERS

GENERAL NOTES

- Edge line striping shall be as shown in the plans or as directed by the Engineer. The edge line should not be placed less than 6 inches from the edge of pavement. This distance may vary due to pavement leveling or other conditions. Edge lines are not required in curb and gutter sections of roadways.
- The traveled way includes only that portion of the roadway used for vehicular travel. It does not include the parking lanes, sidewalks, berms and shoulders. The traveled way shall be measured from the center of edge line to the center of edge line of a two lane roadway.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

YIELD LINES

For posted speed on road being marked equal to or greater than 45 MPH.

GUIDE FOR PLACEMENT OF STOP LINES, EDGE LINE & CENTERLINE

Based on Traveled Way and Pavement Widths for Undivided Roadways

NOTES

- Where divided highways are separated by median widths at the median consisting itself of 30 feet or more, median openings shall be signed as two separate intersections. Each median opening has two width measurements, with one measurement for each approach. The narrow median width will be the controlling width to determine if signs are required. Yield signs are the typical intersection control. Stop signs and stop bars are optional as determined by the Engineer.
- Install median striping (double yellow centerlines and stop lines/yield lines) when a 50' or greater median centerline can be placed. Stop lines shall only be used with stop signs. Yield lines shall only be used with yield signs.
- Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer.

Texas Department of Transportation Traffic Safety Division Standard

TYPICAL STANDARD PAVEMENT MARKINGS

PM(1) - 22

REV	DATE	BY	CHK	APP	DESCRIPTION
1	11-18-00	8-20			
2	8-10-01	10-20			
3	8-20-01	10-20			

CENTERLINE FOR ALL TWO LANE TWO-WAY ROADWAYS

CENTERLINE & LANE LINES FOR FOUR LANE TWO-WAY ROADWAYS

LANE LINES FOR ONE-WAY ROADWAY (NON-FREWAY FACILITIES)

REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE

CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE

REFLECTORIZED PROFILE PATTERN DETAIL

USING REFLECTIVE PROFILE PAVEMENT MARKINGS

300 to 500 mil in height

A quick field check for the thickness of base line and profile marking is approximately equal to a stack of 5 quarters to a maximum height of 7 quarters.

NOTES

- Edge lines should typically be 6" wide and the materials shall be specified in the plans.
- Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.

MATERIAL SPECIFICATIONS

PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

RAISED PAVEMENT MARKERS

SECTION A

350 max - 250 min

Roadway Surface

Adhesive

Texas Department of Transportation Traffic Safety Division Standard

POSITION GUIDANCE USING RAISED MARKERS REFLECTORIZED PROFILE MARKINGS

PM(2) - 22

REV	DATE	BY	CHK	APP	DESCRIPTION
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2	8-10-01	10-20			
3	8-20-01	10-20			

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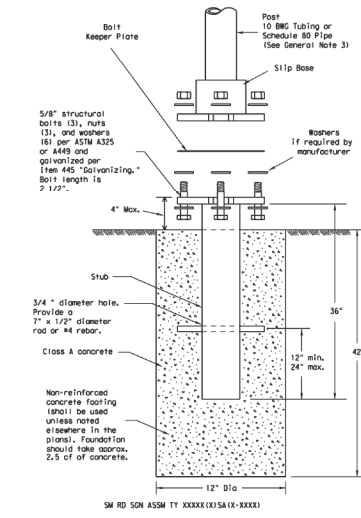
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PAVEMENT MARKINGS DETAILS

C8.02

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TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



NOTE
There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer_list.htm The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

- Slip base shall be permanently marked to indicate manufacturer, Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
- Material used as part of this system shall conform to the following specifications:
 - 10 BNC Tubing (2.675" outside diameter)
 - 0.134" nominal wall thickness
 - Seamless or electric-resistance welded steel tubing or pipe
 - Steel shall be A513 or 55 per ASTM A1011 or ASTM A1008
 - Other steels may be used if they meet the following:
 - 50,000 PSI minimum yield strength
 - 70,000 PSI minimum tensile strength
 - 20% minimum elongation in 2"
 - Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"
 - Outside diameter (uncoated) shall be within the range of 2.667" to 2.683"
 - Galvanization per ASTM A123 or ASTM A581 G15. For precast steel tubing (ASTM A653), recast schedule 80 pipe (2.675" outside diameter)
 - tube outside diameter weld seam by metalizing with zinc wire per ASTM B833.
 - Schedule 80 Pipe (2.675" outside diameter)
 - 0.276" nominal wall thickness
 - Steel tubing per ASTM A307 or C
 - Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
 - 46,000 PSI minimum yield strength
 - 62,000 PSI minimum tensile strength
 - 21% minimum elongation in 2"
 - Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
 - Outside diameter (uncoated) shall be within the range of 2.655" to 2.685"
 - Galvanization per ASTM A123
- See the Traffic Operations Division website for detailed drawings of sign clips and Texas Universal Triangular Slipbase System components. The website address is <http://www.txdot.gov/publications/traffic.htm>
- Sign supports shall not be applied except where shown. Sign support posts shall not be applied.

ASSEMBLY PROCEDURE

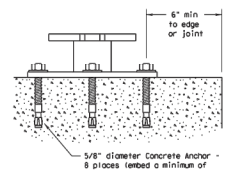
Foundation

- Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
- The Engineer may permit bottom of concrete less than 2 cubic yards, to be mixed with a portable motor or lawn concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
- Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth until it is pushing it down into the concrete to ensure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
- Place the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
- The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support

- Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the roadway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the roadway. The cut shall be square and straight.
- Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLP-2) for clearances based on sign types.

CONCRETE ANCHOR



Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end, heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 ksi, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with type III epoxy per DMS-6100, "Epoxy Resin and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal weight concrete with a 1/2" minimum embedment, shall have a minimum ultimate tensile and shear of 3900 and 3100 psi, respectively.

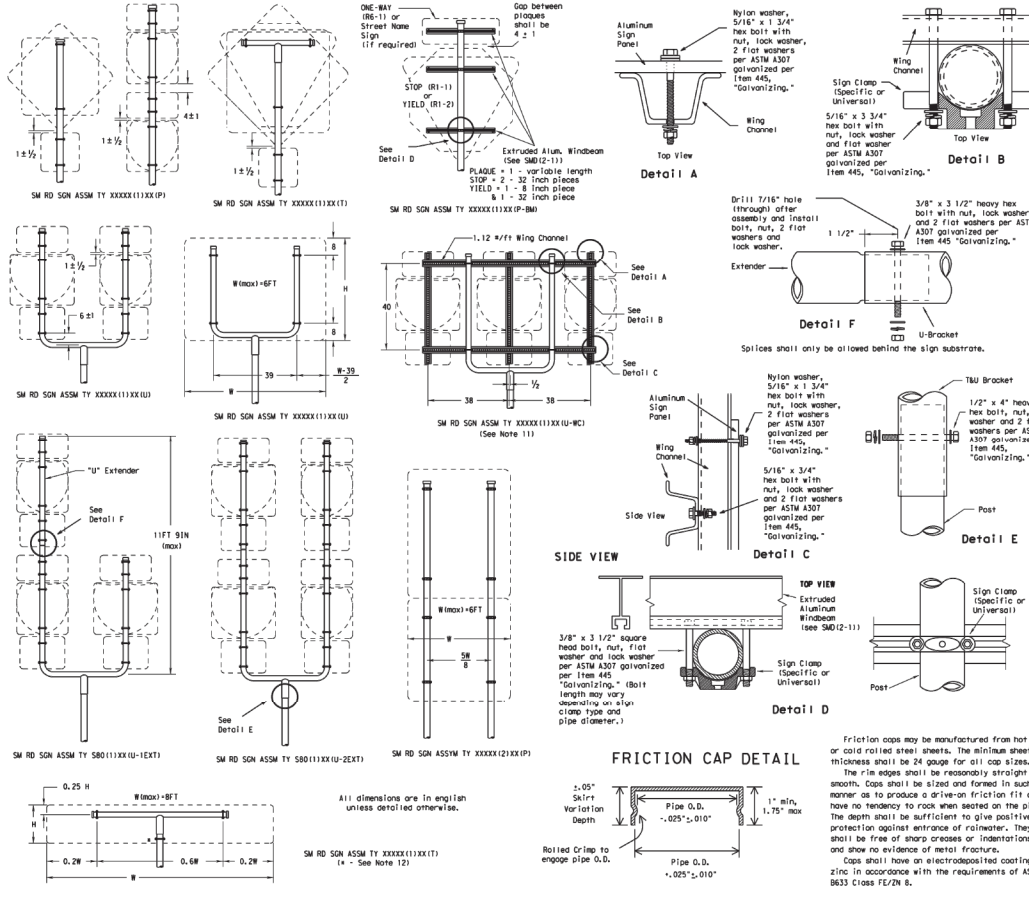
Texas Department of Transportation
Traffic Operations Division

**SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM**

SMD (SLP-1) - 08

DATE: July 2002	REV:	BY:	CHK:	APP:	DATE:
9-08	1				

DISCLAIMER: The use of this drawing is governed by the terms, conditions and provisions of the contract. No warranty or any other statement is made by the Engineer as to the accuracy or reliability of the information or data furnished by the contractor. The Engineer is not responsible for any errors or omissions in this drawing or for any consequences resulting from its use.



GENERAL NOTES:

- Sign support height of posts
- Engineer may require that a Schedule 80 post be used in place of a 10 BNC where a sign height is normally in the range of 10 to 15 feet.
- Sign supports shall not be galvanized except where shown.
- Sign support posts shall not be galvanized.
- Aluminum sign blocks shall conform to Departmental Material Specifications DMS-7115 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Sign channel shall meet ASTM A 1011 55 or 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or window shall be cut off so that it does not extend beyond the sign zone (i.e., excess support shall not be visible when the sign is viewed from the front.) Basic galvanized coating at cut support ends per Item 445, "Galvanizing," 16 mil (10 mil for cut ends) zinc minimum. Galvanizing shall be applied to all cut ends.
- Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
- 12 foot open ends shall be fitted with Friction Caps.
- Sign blocks shall be the sizes and shapes shown on the plans.

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BNC	2	16 SF
10 BNC	2	32 SF
SCH 80	2	32 SF
SCH 80	2	64 SF

REQUIRED SUPPORT

SIGN DESCRIPTION	SUPPORT
48-inch STOP sign (R1-1)	TY 10BNC(11)X(11)
60-inch YIELD sign (R1-2)	TY 10BNC(11)X(11)
48x16-inch ONE-WAY sign (R8-1)	TY 10BNC(11)X(11)
36x48, 48x36, and 48x48-inch signs	TY 10BNC(11)X(11)
48x60-inch signs	TY 580(11)X(11)
48x48-inch signs (diamond or square)	TY 10BNC(11)X(11)
48x60-inch signs	TY 580(11)X(11)
48-inch Advance School X-ing sign (S1-1)	TY 10BNC(11)X(11)
48-inch School X-ing sign (S2-1)	TY 10BNC(11)X(11)
Large Arrow sign (R1-6 & R1-7)	TY 10BNC(11)X(11)

Texas Department of Transportation
Traffic Operations Division

**SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM**

SMD (SLP-2) - 08

DATE: July 2002	REV:	BY:	CHK:	APP:	DATE:
9-08	1				

Item 3.

TLC

ENGINEERING

8204 Westglen Drive
Houston, Texas 77063
713.868.0001 WWW.TLCeng.com
F-4066



100% SUBMITTAL

CITY OF WOODCREEK
DEERFIELD DRIVE
WOODCREEK Texas, 78676

REVISION

NO.	DATE

PROJECT #
ISSUE:
DATE:
DRAWN BY:

SIGN MOUNTING
DETAILS

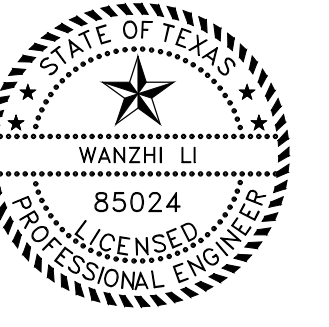
C8.03

31



ENGINEERING

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F-4066



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DEERFIELD DRIVE
WOODCREEK Texas, 78676

REVISION NO.	DATE

PROJECT #
ISSUE:
DATE:
DRAWN BY:

CULVERT EXHIBIT

C9.01
1 OF 1

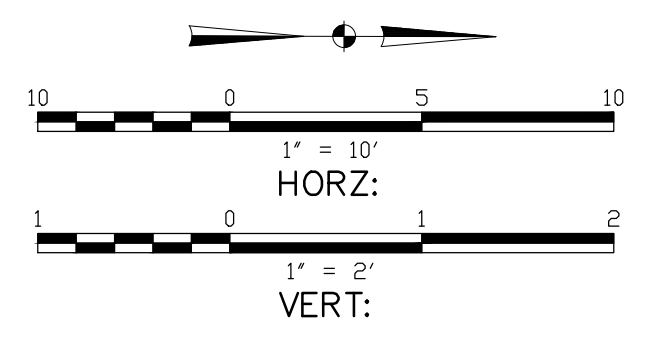
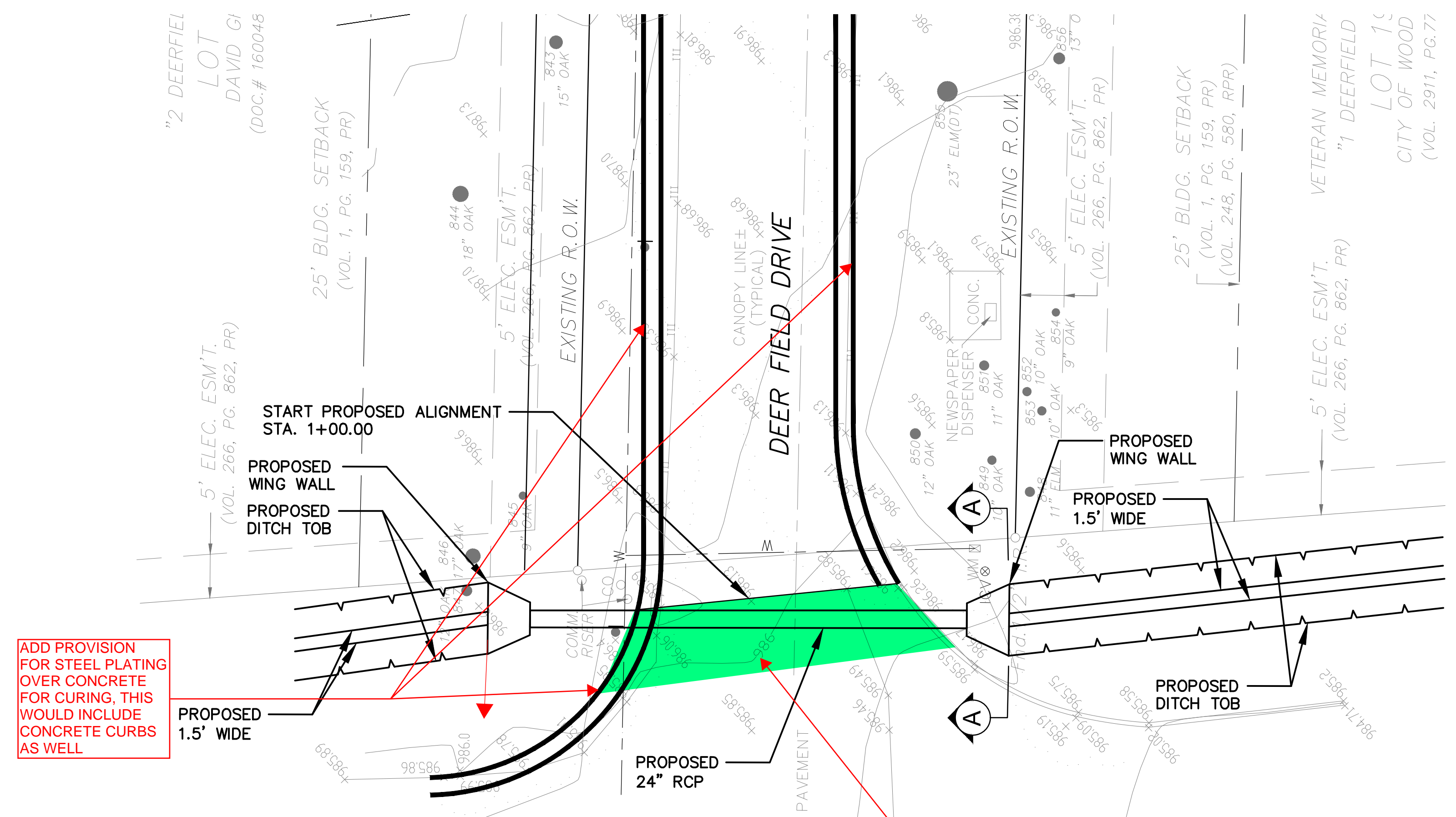
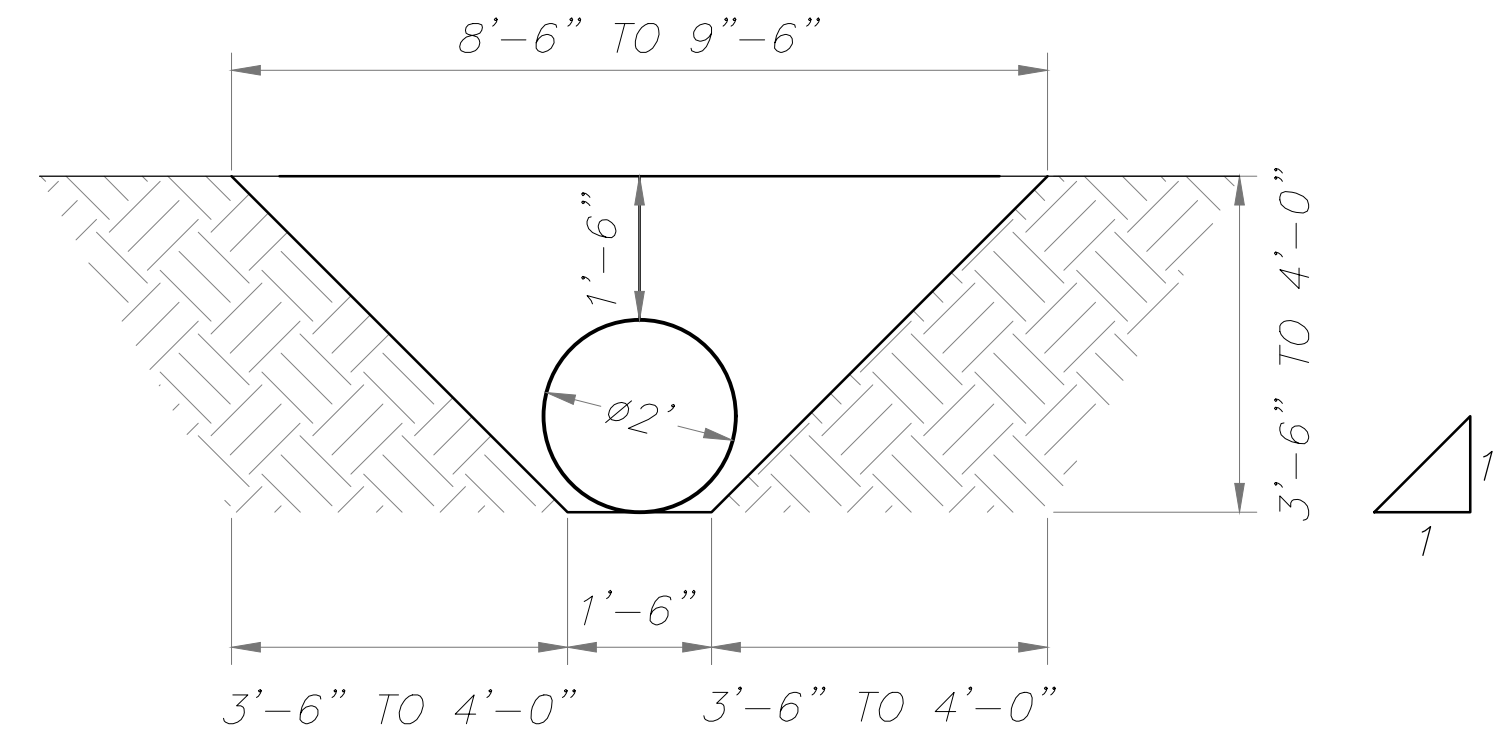


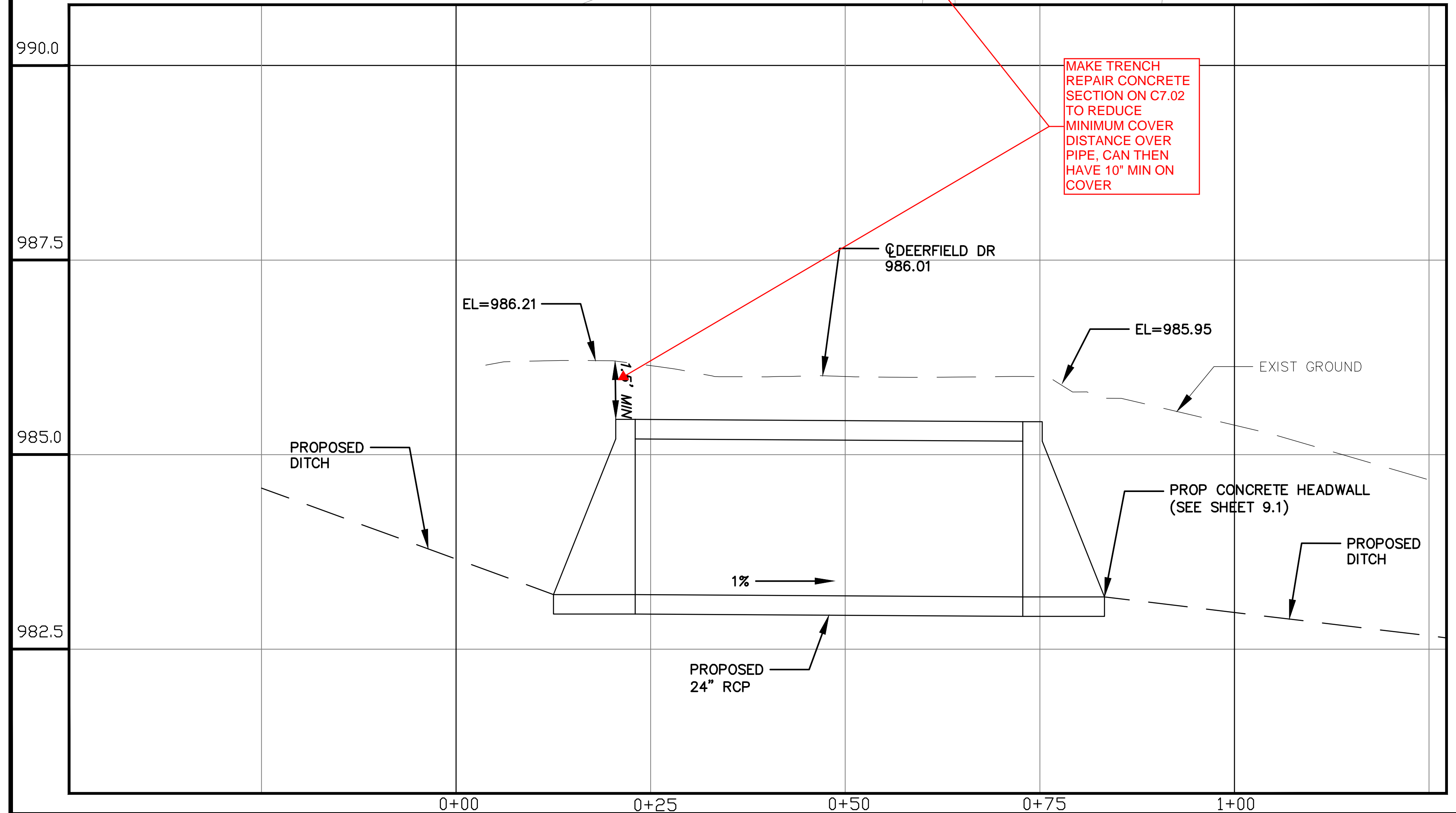
EXHIBIT NOTES:

1. PROPOSED SWALE ON E SIDE OF DEERCREEK TO BE GRADED AT MINIMUM 1%.
2. FIELD VERIFY LOCATION OF WATERLINE TO ENSURE NO CONFLICT WITH PROPOSED 24" CULVERT.
3. SIDE SLOPE ON SWALE MAXIMUM TO BE 1:1.
4. WINGWALL DETAIL SEE TXDOT STANDARD REFERENCED IN SHEET C9.02.



ADD PROVISION FOR STEEL PLATING OVER CONCRETE FOR CURING. THIS WOULD INCLUDE CONCRETE CURBS AS WELL

MAKE TRENCH REPAIR CONCRETE SECTION ON C7.02 TO REDUCE MINIMUM COVER DISTANCE OVER PIPE. CAN THEN HAVE 10' MIN ON COVER



PATH: Z:\2022 Open Projects\Woodcreek, Tx Engineering Project TDA\CADD\100% Submittal\DEERFIELD DRIVE_CULVERT-EXHIBIT.dwg
USER: Jan 02, 2025 10:16am jsmart
PLOT TAB: CULVERT EXHIBIT



100% SUBMITTAL

CITY OF WOODCREEK
DEERFIELD DRIVE
WOODCREEK Texas, 78676

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

Values to be Added for Each Add'l Pipe

Slope	Dia of Pipe (D)	Values for One Pipe				Reinf (lbs)	Conc (CY)	X and W	Reinf (lbs)	Conc (CY)
		W	X	Y	L					
12°	4'-7 1/2"	2'-6"	2'-10"	3'-3 1/2"	88	0.6	1'-9"	20	0.2	
15°	5'-5 1/2"	2'-9 1/2"	3'-4"	3'-10 1/2"	103	0.7	2'-2"	24	0.3	
18°	6'-4 1/2"	2'-1"	3'-10"	4'-5"	124	0.9	2'-8"	32	0.3	
21°	7'-2 1/2"	2'-4 1/2"	4'-4"	5'-0"	143	1.1	3'-1"	43	0.4	
24°	8'-2 1/2"	2'-9 1/2"	4'-10"	5'-7"	164	1.3	3'-7"	50	0.5	
27°	9'-1"	4'-1"	5'-4"	6'-2"	179	1.5	3'-11"	56	0.6	
30°	9'-11 1/2"	4'-4 1/2"	5'-10"	6'-8 3/4"	203	1.7	4'-4"	65	0.8	
33°	10'-10"	4'-8"	6'-4"	7'-3 3/4"	224	2.0	4'-8"	71	0.9	
36°	11'-8 1/2"	4'-11 1/2"	6'-10"	7'-10 1/2"	249	2.2	5'-1"	81	1.0	
42°	13'-5 1/2"	5'-6 1/2"	7'-10"	9'-0 1/2"	298	2.8	5'-10"	97	1.3	
48°	15'-9"	6'-1 1/2"	9'-4"	10'-9 1/4"	360	3.8	6'-7"	117	1.7	
54°	17'-5 1/2"	6'-8 3/4"	10'-4"	11'-11 1/2"	427	4.5	7'-6"	151	2.1	
60°	19'-2 1/2"	7'-9 1/2"	11'-4"	13'-9 1/2"	481	5.3	8'-5"	174	2.5	
66°	20'-11 1/2"	7'-10 1/2"	12'-4"	14'-3"	544	6.2	8'-9"	194	2.9	
72°	22'-8 1/2"	8'-5 1/2"	13'-4"	15'-4 3/4"	601	7.1	9'-4"	213	3.3	
12°	6'-3"	2'-6"	4'-3"	4'-11"	118	0.8	1'-9"	22	0.2	
15°	7'-5"	2'-9 1/2"	5'-0"	5'-9 1/2"	137	1.1	2'-2"	28	0.3	
18°	8'-6 1/2"	2'-1"	5'-9"	6'-7 3/4"	170	1.3	2'-8"	37	0.5	
21°	9'-8 1/2"	2'-4 1/2"	7'-6"	7'-6"	195	1.6	3'-1"	48	0.6	
24°	11'-0"	2'-9 1/2"	8'-4 1/2"	8'-4 1/2"	221	2.0	3'-7"	58	0.7	
27°	12'-2"	4'-1"	8'-0"	9'-2 3/4"	251	2.3	3'-11"	67	0.8	
30°	13'-4"	4'-4 1/2"	8'-9"	10'-1 1/2"	293	2.7	4'-4"	77	1.0	
33°	14'-5 1/2"	4'-8"	9'-6"	10'-11 1/2"	318	3.1	4'-8"	84	1.2	
36°	15'-7 1/2"	4'-11 1/2"	10'-3"	11'-10"	351	3.5	5'-1"	96	1.4	
42°	17'-11 1/2"	5'-6 1/2"	11'-9"	13'-6 3/4"	432	4.5	5'-10"	119	1.7	
48°	21'-1 1/2"	6'-1 1/2"	14'-0"	16'-2"	537	6.1	6'-7"	146	2.3	
54°	23'-5 1/2"	6'-8 3/4"	15'-0"	17'-10 1/2"	630	7.3	7'-6"	186	2.9	
60°	25'-9 1/2"	7'-3 1/2"	17'-0"	19'-7 1/2"	719	8.7	8'-3"	219	3.4	
66°	28'-1"	7'-10 1/2"	18'-6"	21'-4 1/2"	811	10.1	8'-9"	242	3.9	
72°	30'-4 1/2"	8'-5 1/2"	20'-0"	23'-1 1/2"	924	11.7	9'-4"	272	4.4	
12°	7'-10 1/2"	2'-6"	5'-8"	6'-6 1/2"	148	1.1	1'-9"	24	0.3	
15°	9'-4"	2'-9 1/2"	6'-8"	7'-8 1/2"	181	1.5	2'-2"	32	0.4	
18°	10'-9 1/2"	2'-1"	7'-8"	8'-10 1/2"	221	1.9	2'-8"	42	0.5	
21°	12'-2 1/2"	2'-4 1/2"	8'-0"	10'-0"	260	2.3	3'-1"	57	0.7	
24°	13'-9 1/2"	2'-9 1/2"	9'-0"	11'-2"	301	2.8	3'-7"	67	0.8	
27°	15'-3"	4'-1"	10'-8"	12'-3 3/4"	334	3.3	3'-11"	77	1.0	
30°	16'-8 1/2"	4'-4 1/2"	11'-8"	13'-5 3/4"	385	3.8	4'-4"	89	1.3	
33°	18'-1 1/2"	4'-8"	12'-8"	14'-7 1/2"	425	4.5	4'-8"	101	1.4	
36°	19'-7"	4'-11 1/2"	13'-8"	15'-9 1/2"	472	5.1	5'-1"	115	1.7	
42°	22'-5 1/2"	5'-6 1/2"	15'-8"	18'-1"	583	6.5	5'-10"	141	2.1	
48°	26'-6 1/2"	6'-1 1/2"	18'-0"	21'-6 1/2"	730	8.9	6'-7"	175	2.8	
54°	29'-5"	6'-8 3/4"	20'-0"	23'-10 1/2"	855	10.7	7'-6"	226	3.6	
60°	32'-3 1/2"	7'-3 1/2"	22'-8"	26'-2"	996	12.7	8'-3"	264	4.3	
66°	35'-2 1/2"	7'-10 1/2"	24'-8"	28'-5 3/4"	1,140	14.9	8'-9"	300	4.9	
72°	38'-1 1/2"	8'-5 1/2"	26'-8"	30'-9 1/2"	1,297	17.3	9'-4"	334	5.6	
12°	11'-2"	2'-6"	8'-0"	9'-9 3/4"	224	1.9	1'-9"	28	0.4	
15°	13'-2 1/2"	2'-9 1/2"	10'-0"	11'-6 1/2"	268	2.5	2'-2"	37	0.5	
18°	15'-2 1/2"	2'-1"	11'-6"	13'-3 1/4"	330	3.2	2'-8"	50	0.7	
21°	17'-2 1/2"	2'-4 1/2"	13'-0"	15'-0 1/2"	387	3.9	3'-1"	69	0.9	
24°	19'-4 1/2"	2'-9 1/2"	14'-6"	16'-9"	453	4.8	3'-7"	80	1.2	
27°	21'-4 1/2"	4'-1"	16'-0"	18'-5 3/4"	512	5.7	3'-11"	96	1.4	
30°	23'-5 1/2"	4'-4 1/2"	17'-6"	20'-2 1/2"	593	6.7	4'-4"	110	1.7	
33°	25'-5 1/2"	4'-8"	19'-0"	21'-11 1/2"	675	7.8	4'-8"	127	2.0	
36°	27'-5 1/2"	4'-11 1/2"	20'-6"	23'-8"	735	9.0	5'-1"	144	2.3	
42°	31'-6 1/2"	5'-6 1/2"	23'-6"	27'-1 1/2"	922	11.5	5'-10"	179	3.0	
48°	37'-3 1/2"	6'-1 1/2"	28'-0"	32'-4"	1,191	15.9	6'-7"	231	4.0	
54°	41'-4 1/2"	6'-8 3/4"	31'-0"	35'-9 1/2"	1,424	19.2	7'-6"	300	5.0	
60°	45'-4 1/2"	7'-3 1/2"	34'-0"	39'-3"	1,631	22.9	8'-3"	353	6.0	

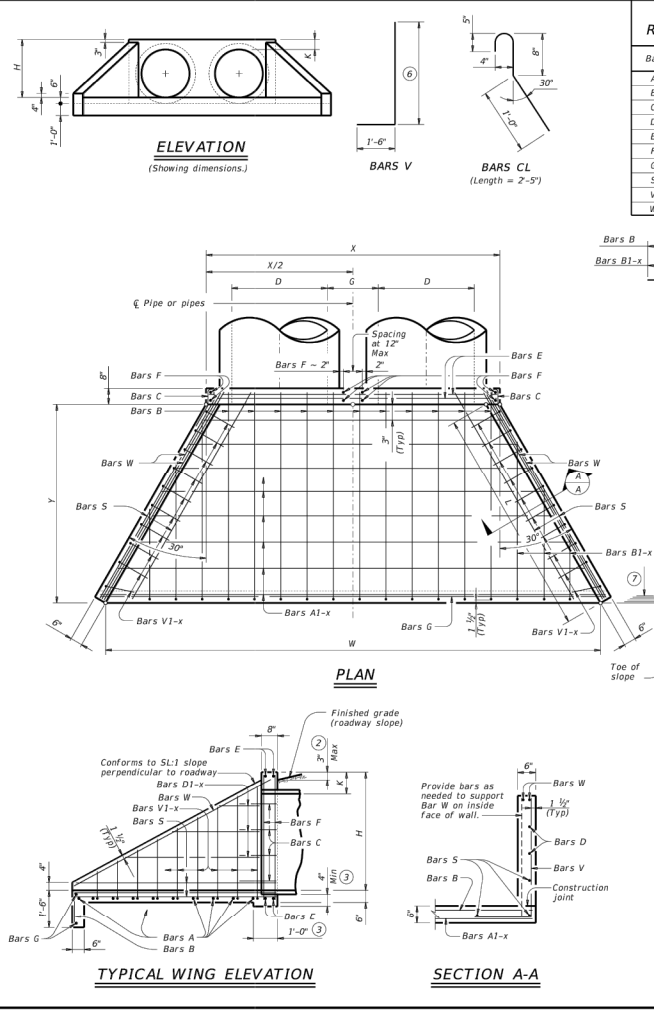


TABLE OF REINFORCING STEEL

Bar	Size	Spa	No.
A	#4	1'-0"	-
B	#3	1'-0"	-
C	#4	1'-0"	-
D	#3	1'-0"	-
E	#5	-	4
F	#5	-	-
G	#3	-	2
S	#4	-	6
V	#4	1'-0"	-
W	#5	-	4

- TABLE OF CONSTANT DIMENSIONS**
- | Dia of Pipe (D) | G | K | H |
|-----------------|--------|-------|-------|
| 12" | 0'-9" | 1'-0" | 2'-0" |
| 15" | 0'-11" | 1'-0" | 2'-3" |
| 18" | 1'-2" | 1'-0" | 2'-6" |
| 21" | 1'-4" | 1'-0" | 2'-9" |
| 24" | 1'-7" | 1'-0" | 3'-0" |
| 27" | 1'-8" | 1'-0" | 3'-3" |
| 30" | 1'-10" | 1'-0" | 3'-6" |
| 33" | 1'-11" | 1'-0" | 3'-9" |
| 36" | 2'-1" | 1'-0" | 4'-0" |
| 42" | 2'-4" | 1'-0" | 4'-6" |
| 48" | 2'-7" | 1'-0" | 5'-3" |
| 54" | 3'-0" | 1'-3" | 5'-9" |
| 60" | 3'-3" | 1'-3" | 6'-3" |
| 66" | 3'-4" | 1'-3" | 6'-9" |
| 72" | 3'-4" | 1'-3" | 7'-3" |
- Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.
 - For vehicle safety, construct curbs no more than 3" above finished grade. Reduce curb heights, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
 - Provide a 1'-0" footing as shown where required to maintain 4" minimum cover for sizes.
 - Dimensions shown are usual and maximum.
 - Quantities shown are for one structure end only (one headwall).
 - Min Length = $6' + 3' \times \left(\frac{12 \times H - 7}{12 \times L} \right)$
 Max Length = $12 \times H - 3' \times \left(\frac{12 \times H - 7}{12 \times L} \right) - 1'$
 - Lengths of wings based on SL1 slope along this line.
- MATERIAL NOTES:**
 Provide Grade 60 reinforcing steel.
 Provide Class C concrete (f'c = 3,600 psi).
- GENERAL NOTES:**
 Designed according to AASHTO LRFD Bridge Design Specifications.
 Do not mount bridge rails of any type directly to these culvert headwalls.
 This standard may not be used for wall heights, H, exceeding the values shown.
- Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.

Texas Department of Transportation Bridge Division Standard

CONCRETE HEADWALLS WITH FLARED WINGS FOR 0° SKEW PIPE CULVERTS

CH-FW-0

Rev: CD-CH-FW-03-dgn
 February 2020

REV	DATE	BY	CHK	APP	REASON

DISCLAIMER: This standard is prepared by the Texas Engineering Practice Act. No warranty or liability is made by TCEC for any purpose whatsoever. TCEC assumes no responsibility for the construction of this standard or for incorrect results or damages resulting from its use.

DATE: _____

REVISION

NO.	DATE

PROJECT # _____
 ISSUE: _____
 DATE: _____
 DRAWN BY: _____

CULVERT DETAILS

C9.02

Council Meeting Agenda Item Cover Sheet

AGENDA ITEM SUBJECT/ TITLE:

Discuss and take appropriate action on approving city arborist We Love Trees to trim oak trees in the public parks of the City of Woodcreek, not to exceed \$5,000 from the arborist budget line item to be completed by the trimming deadline of January 31, 2025.

AGENDA ITEM SUMMARY:

There are a handful of oak trees in the city parks that have dead, weak, or diseased limbs, and are in need of trimming. The city arborist has already evaluated the trees and estimates that there will not need to be more than three days of work to get all of the oak trees in the parks trimmed properly. We want to have this completed before the January 31st oak tree trimming guideline, as recommended by the Texas Oak Wilt Partnership and Texas A&M.

FINANCIAL IMPACT:

Up to \$5,000

SUBMITTED BY:

Krista Richardson, Council member

AGENDA TYPE:

Agenda Item New Business