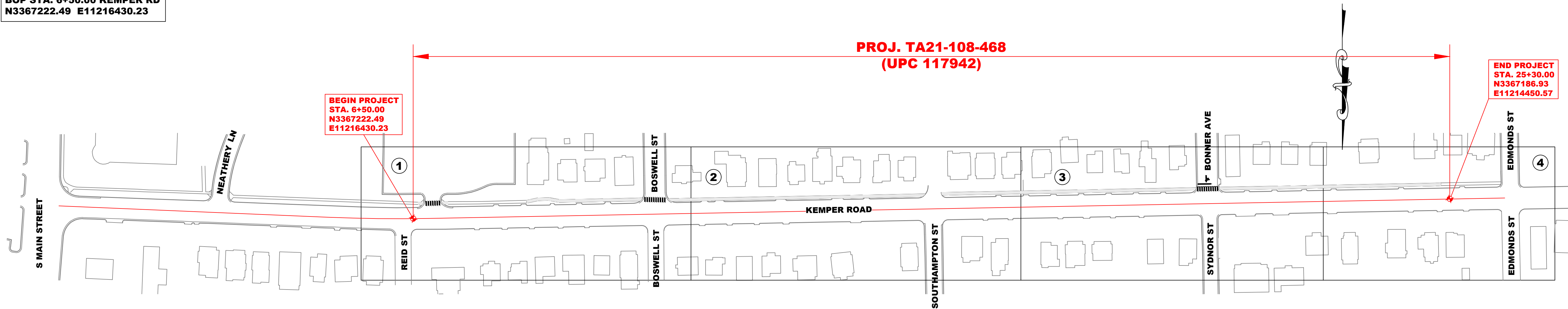


PROJECT MANAGER KAREN BLACK 434-799-5019 ext. 2532 (City of Danville)
SURVEYED BY, DATE CITY OF DANVILLE PUBLIC WORKS ENGINEERING DIVISION 434-799-5019
DESIGN BY CITY OF DANVILLE PUBLIC WORKS ENGINEERING DIVISION 434-799-5019
SUBSURFACE UTILITY BY, DATE CITY OF DANVILLE PUBLIC WORKS ENGINEERING DIVISION 434-799-5019

INDEX OF SHEETS

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XSEC-2 CROSS SECTIONS STA. 12+50 TO STA. 18+00
XSEC-3 CROSS SECTIONS STA. 18+50 TO STA. 24+00
XSEC-4 CROSS SECTIONS STA. 24+50 TO STA. 26+00

DESCRIPTION REFERENCE
BOP STA. 6+50.00 KEMPER RD
N3367222.49 E11216430.23



THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

THE ORIGINAL APPROVED TITLE SHEET, INCLUDING ORIGINAL SIGNATURES, IS FILED IN THE CITY ENGINEER'S OFFICE OF THE CITY OF DANVILLE. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

LEGEND

	RIGHT OF WAY LINE		EXIST. TREE
	PROPERTY LINE		EXIST. SHRUB
	EXIST. WATER MAIN		EXIST. SIGN
	EXIST. FIRE HYDRANT		EXIST. POLE
	EXIST. WATER VALVE		EXIST. GUY WIRE
	EXIST. WATER METER		EXIST. JUNCTION BOX
	EXIST. GAS MAIN		ELECTRIC MANHOLE
	EXIST. GAS VALVE		TELEPHONE MANHOLE
	EXIST. GAS METER		DEMOLITION OF CONC. WALK, DRIVEWAY ENT.
	EXIST. SANITARY MAIN		PROPOSED CONCRETE SIDEWALK, 4" THICK
	EXIST. SANITARY MANHOLE		PROPOSED CONCRETE DRIVEWAY, 7" THICK
	EXIST. SANITARY CLEANOUT		PROPOSED ASPHALT DRIVEWAY TIE-IN
	EXIST. STORM SEWER		PROPOSED GRASS STRIP
	EXIST. STORM INLET		
	EXIST. STORM MANHOLE		
	EXIST. CHAIN LINK FENCE		



PLANS FOR CONSTRUCTION OF PROPOSED
ROADWAY IMPROVEMENTS

CITY OF DANVILLE
#TAP21 KEMPER ROAD IMPROVEMENTS
FROM: S MAIN STREET TO: EDMONDS STREET

UPC 117942
FHWA-DATA-534-34028

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.	SEE TABULATIONS BELOW FOR SECTION NUMBERS	9999	(NFO)TA21-108-468 SEE TABULATIONS BELOW FOR SECTION NUMBERS	COV-1

KEMPER ROAD: FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
URBAN MINOR ARTERIAL ROLLING - 30 MPH DESIGN SPEED	
	Fr: S MAIN STREET To: EDMONDS STREET
ADT 2022	5100
ADT	5100
DHV	430
D (%) (design hour)	8.4%
T (%) (design hour)	1%
V (MPH)	30

BONNER AVE: FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
LOCAL RESIDENTIAL ROLLING - 25 MPH DESIGN SPEED	
	Fr: KEMPER RD To: CHATHAM AVE
ADT 2022	1400
ADT	1400
DHV	160
D (%) (design hour)	11.3%
T (%) (design hour)	2%
V (MPH)	25

BOSWELL ST: FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
LOCAL RESIDENTIAL ROLLING - 25 MPH DESIGN SPEED	
	Fr: KEMPER RD To: DEAD END
ADT 2022	<500
ADT	<500
DHV	N/A
D (%) (design hour)	N/A
T (%) (design hour)	N/A
V (MPH)	25

POPULATION 42,590 (2020 CENSUS) City of Danville

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES		
U000-108-428	P-101	#TAP-5118(306)	PENG	117942	1880.00	0.356	1880.00	0.356	Prelim. Engr.	FROM: S MAIN STREET TO: EDMONDS STREET
	C-501	#TAP-5108(203)	SFTY	117942	1880.00	0.356	1880.00	0.356	Construction	

NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

TIER 1 PROJECT

LOCALLY ADMINISTERED PROJECTS	
CITY OF DANVILLE	
NAME OF LOCALITY	
BRIAN L. DUNEVANT, P.E.	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
12/11/2024	CITY ENGINEER
DATE	TITLE OF POSITION

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H-958
PROJECT TA21-108-468
SHEET NO. COV-1

-10

0

1

2

3

4

5

6

7

8

9

10

PLANS	BY	DATE
DESIGNED	KAB	12/16/22
CHECKED	KAB	12/16/22
RED LINE	N/A	

CITY OF DANVILLE, VIRGINIA
OFFICE OF THE CITY ENGINEER
427 PATTON STREET
DANVILLE, VA 24541
434-799-5019

TRAFFIC MANAGEMENT PLAN

INTRODUCTION

Project Location: Kemper Road
From: S Main Street
To: Edmonds Street

Kemper Road corridor improvements from S Main Street to Edmonds Street. This project will add sidewalk to the south side of Kemper Road to allow for pedestrian access from adjacent residential development to Danville Community College and to commercial corridor on S Main Street.

Kemper Road is an undivided two-lane, Collector Street with a 2022 Annual Average Daily Traffic (AADT) of 5100 vehicles per day (VPD), and serves as a neighborhood hub for multiple residential areas. Types of traffic primarily include, travelers, commuters, and residents. Trucks comprise only 1% of the AADT. Right (outside) lane closures will be required throughout the project.

The following traffic control specifications from the 2011 Virginia Work Area Protection Manual, Revision 2.1 (November 1, 2020), shall be utilized:

- TTC-16.2 Outside Lane Closure Operation on a Four-Lane Roadway
- TTC-35.1 Sidewalk Closure and Bypass Sidewalk Operation
- TTC-36.2 Crosswalk Closure and Pedestrian Detour Operation
- TTC-53.0 Signing for Project Limits

Use of other typical applications shall be used as needed or as directed and/or approved by the Engineer.

TEMPORARY TRAFFIC CONTROL PLAN

General Notes

- Work zone length is 1980 LF along Kemper Road. Bonner Avenue and Boswell Street will be impacted by the proposed crosswalks at both intersections, as well as the re-striping of the stop bar/arrows at Bonner Avenue.
- During the Work the Temporary Traffic Control (TTC) work zone shall be maintained in accordance with the 2011 Edition of the Virginia Work Area Protection Manual (VWAPM), Revision 2.1 - November 1, 2020, to include all revisions.
- Traffic control devices shall be furnished, installed and maintained by the Contractor.
- Minimum Lane width which shall be maintained is ten (10) feet.
- Pedestrians shall be accommodated through detours as shown in TTC-35.1 and TTC-36.2.
- Temporary traffic control devices that are not in use, or are in conflict, shall either be covered or removed by the Contractor.
- Without prior notice the Contractor shall be prepared to open the roadway and provide access to emergency response vehicles during the Work.
- Access to all connections and entrances shall be maintained during the Work unless otherwise approved by the Engineer.
- Travel lanes will be affected intermittently on all routes during the Work. Alternate routes may be available. Certified flaggers may be used when needed to control traffic through the work zone.
- The work zone shall be maintained in accordance with Section 108.02 "Limitations of Operations" of the 2016 Virginia Department of Transportation Road & Bridge Specifications and day and time limitations/restrictions noted in the attached schedule of sites.
- To maintain efficient traffic flow in a flagging operation on a two-lane roadway the maximum time motorist should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) (VWAPM, Section 6E.07)
- Measures shall be taken to ensure adequate sight distance to all crossing/intersecting routes and entrances is maintained; traffic control devices, construction equipment, material storage or any other obstacle shall not interfere with sight distances in vicinity of intersections and/or entrances.
- Restrictions in these notes will apply, except in cases where the Engineer determines they are not in the best interest of the Department and/or travelling public.
- Contractor shall designate a Worksite Traffic Control Supervisor (WTCS) who shall be responsible for the maintenance and installation of temporary traffic control devices and available twenty-four (24) hours per day. Seven (7) days a week in the event of an emergency. Furthermore, the Contractor shall have at least one person certified in Intermediate Work Zone Traffic Control to design and install temporary traffic control, and one person certified in Basic Work Zone Traffic Control to adequately maintain the work zone.

TRANSPORTATION OPERATIONS & PUBLIC COMMUNICATION PLAN

- The process to notify City of Danville of planned lane closures is:
 - Contractor shall contact the Project Manager a minimum of 24 hours in advance of the planned lane closure.
- The Project Manager shall provide the necessary information to the City of Danville Public Information Officer, as well as post the closure on the City of Danville Road Closure App.
- The following is a list of local emergency contact agencies:
 - City of Danville Police: 911
 - Danville Public Works: (434) 799-5245
 - 911 Center: 911
 - Fire & Rescue: 911
 - Hazmat Center (if spill involved): 911
- Process to respond to incidents occurring in or adjacent to the construction work zone(s) is:
 - The Contractor shall call 911 to determine the appropriate response.
 - Depending upon severity of incident and need for incident management, the Contractor shall immediately cease all work activities.
 - The following personnel shall be notified of an incident within the work zone:

Project Inspector: TBD

Project Manager: Karen Black (434) 799-5019 x2532

Public Works City Engineer: Brian Dunevant: (434) 799-5019 x2530

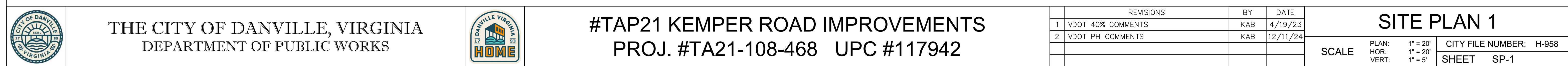
Public Works Division Director of Streets: Jonathan Sharp (434) 799-5245

SEQUENCE OF CONSTRUCTION

Unless otherwise approved or directed by the Engineers, the Contractor shall plan and prosecute the work in accordance with the following:

- PHASE 1
 - Install sidewalk, pedestrian curb ramps, and required sign work to include relocating or new installations of signs along the eastbound side of Kemper Road between the intersections of S Main Street and Edmonds Street.
 - Eradicate Stop Bar, Through/Left Double Turn Arrow, and Double Yellow Lines at the intersection of Bonner Avenue. Reinstall pavement markings behind new continental crosswalk. Additional continental crosswalks shall be installed as shown on plans.

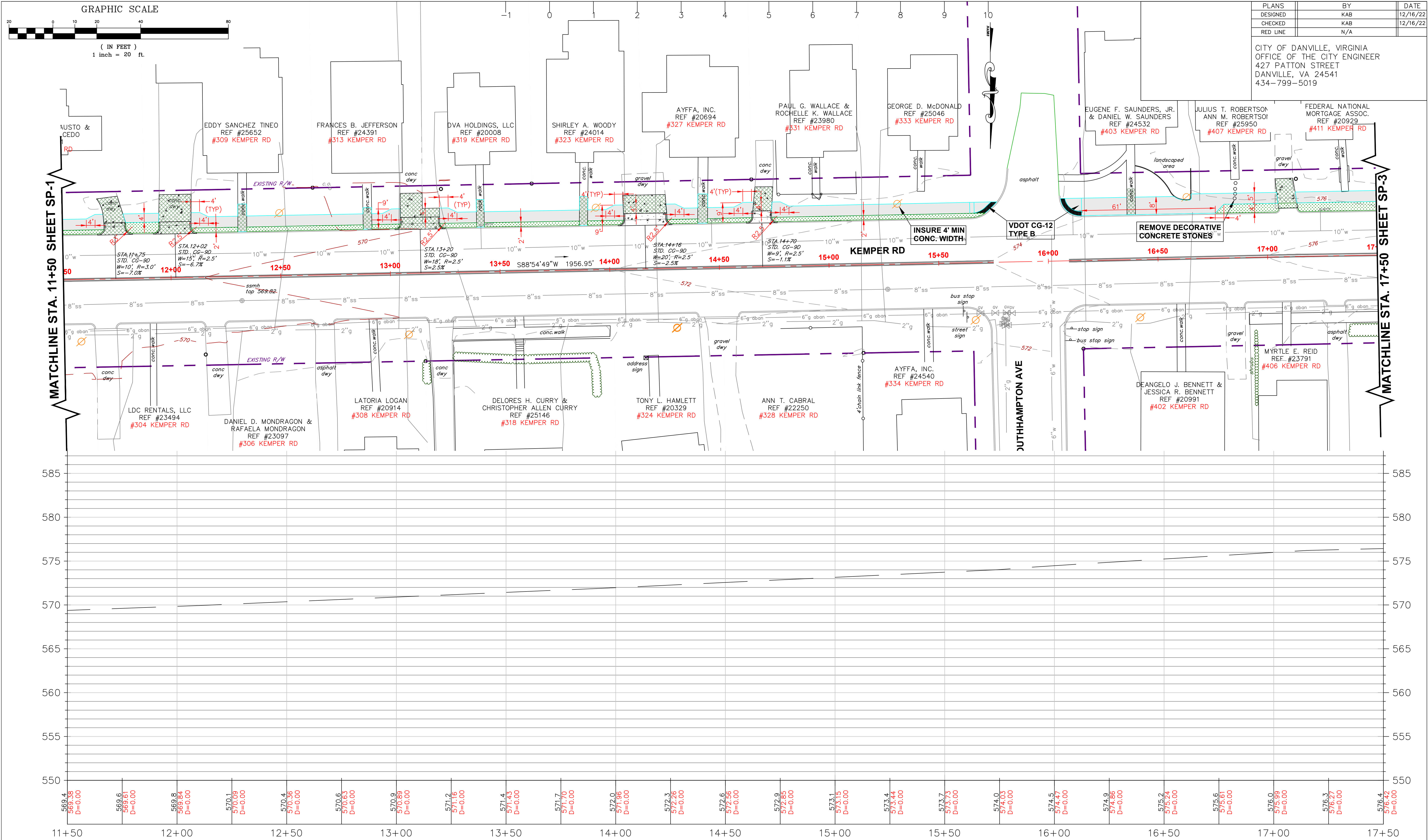
It is not the intent of the sequence of construction plan to enumerate every detail which must be considered in the construction of each stage, but only to show the general handling of traffic.

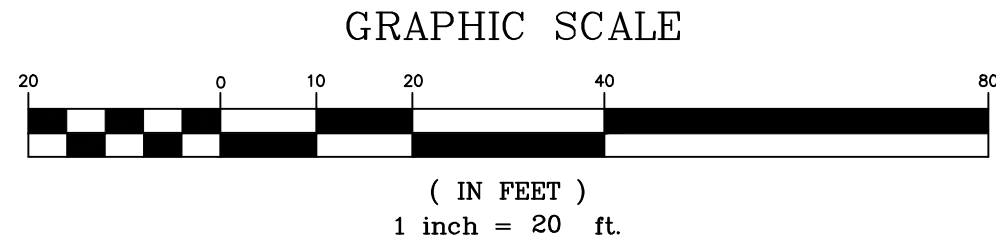


CITY OF DANVILLE, VIRGINIA
OFFICE OF THE CITY ENGINEER
427 PATTON STREET
DANVILLE, VA 24541
434-799-5019

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2	VDOT PH COMMENTS	KAB	12/11/24

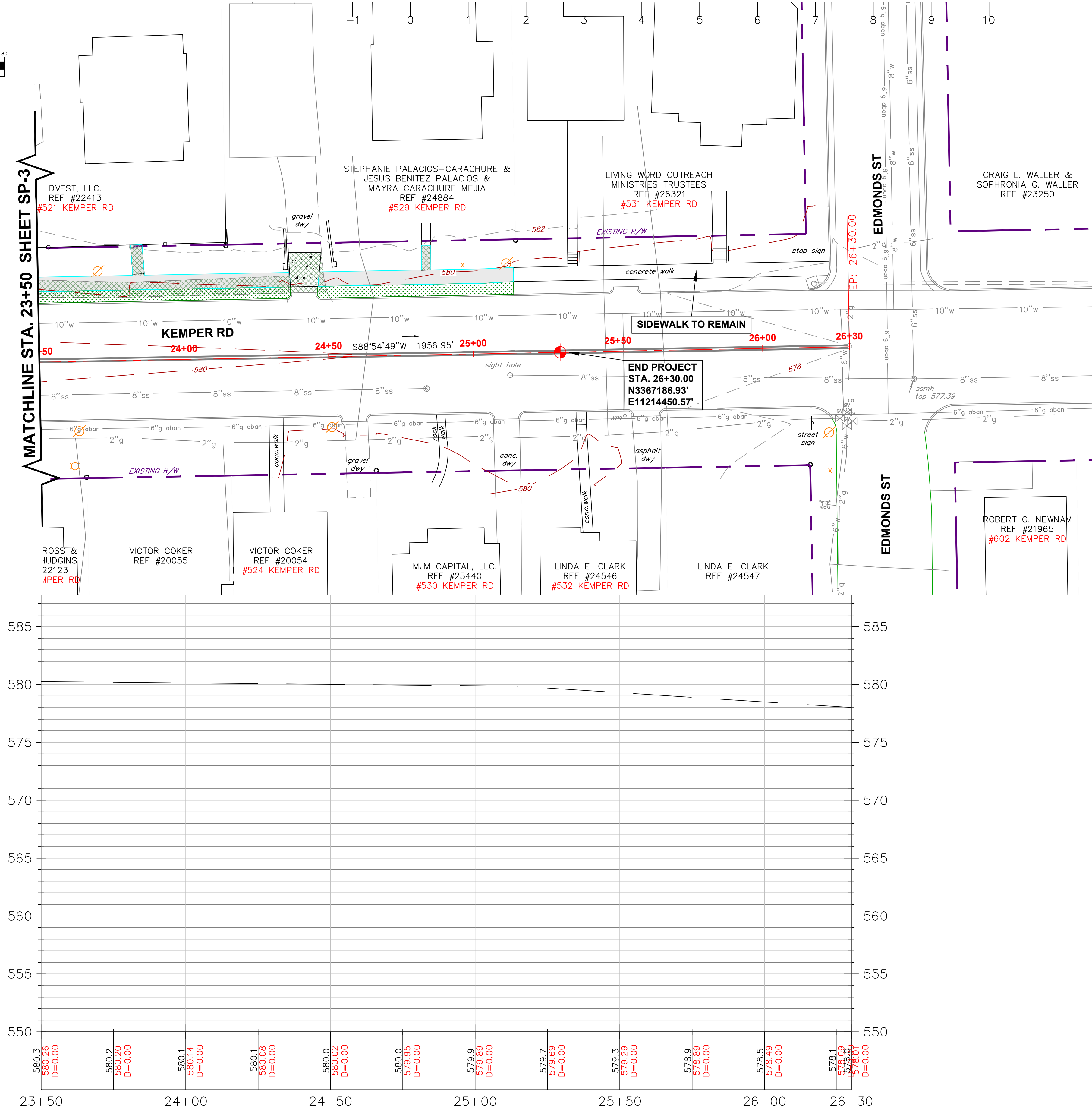
SITE PLAN 1			
SCALE	PLAN:	1" = 20'	CITY FILE NUMBER: H-958
	HOR:	1" = 20'	
	VERT:	1" = 5'	SHEET SP-1





PLANS	BY	DATE
DESIGNED	KAB	12/16/22
CHECKED	KAB	12/16/22
RED LINE	N/A	

CITY OF DANVILLE, VIRGINIA
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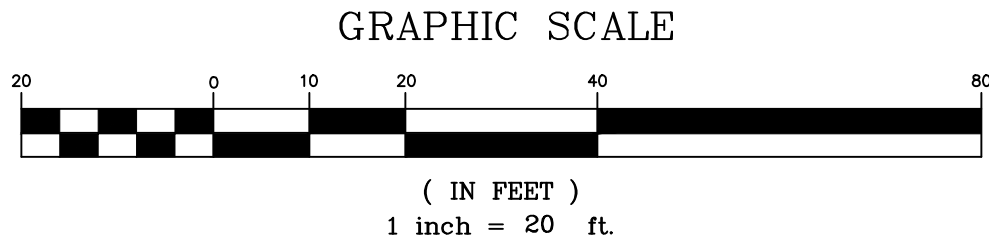
THE CITY OF DANVILLE, VIRGINIA
DEPARTMENT OF PUBLIC WORKS



#TAP21 KEMPER ROAD IMPROVEMENTS
PROJ. #TA21-108-468 UPC #117942

REVISIONS		BY	DATE
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2	VDOT PH COMMENTS	KAB	12/11/24

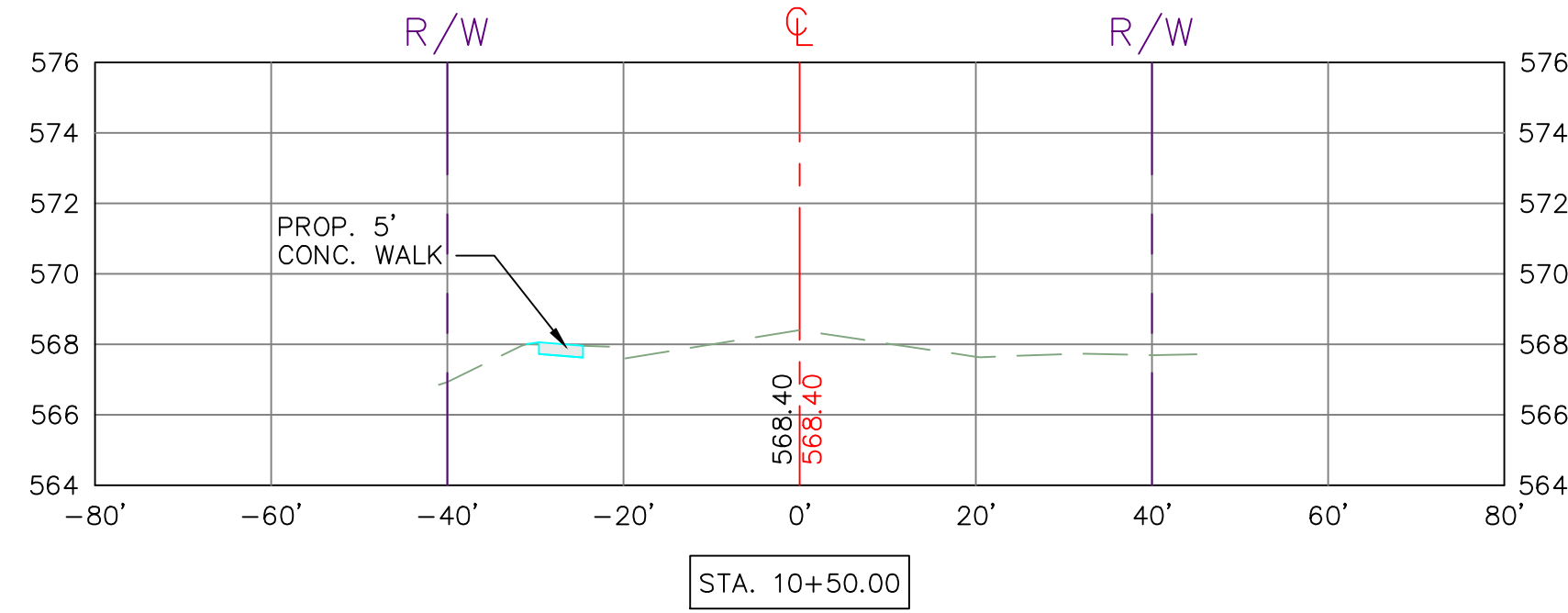
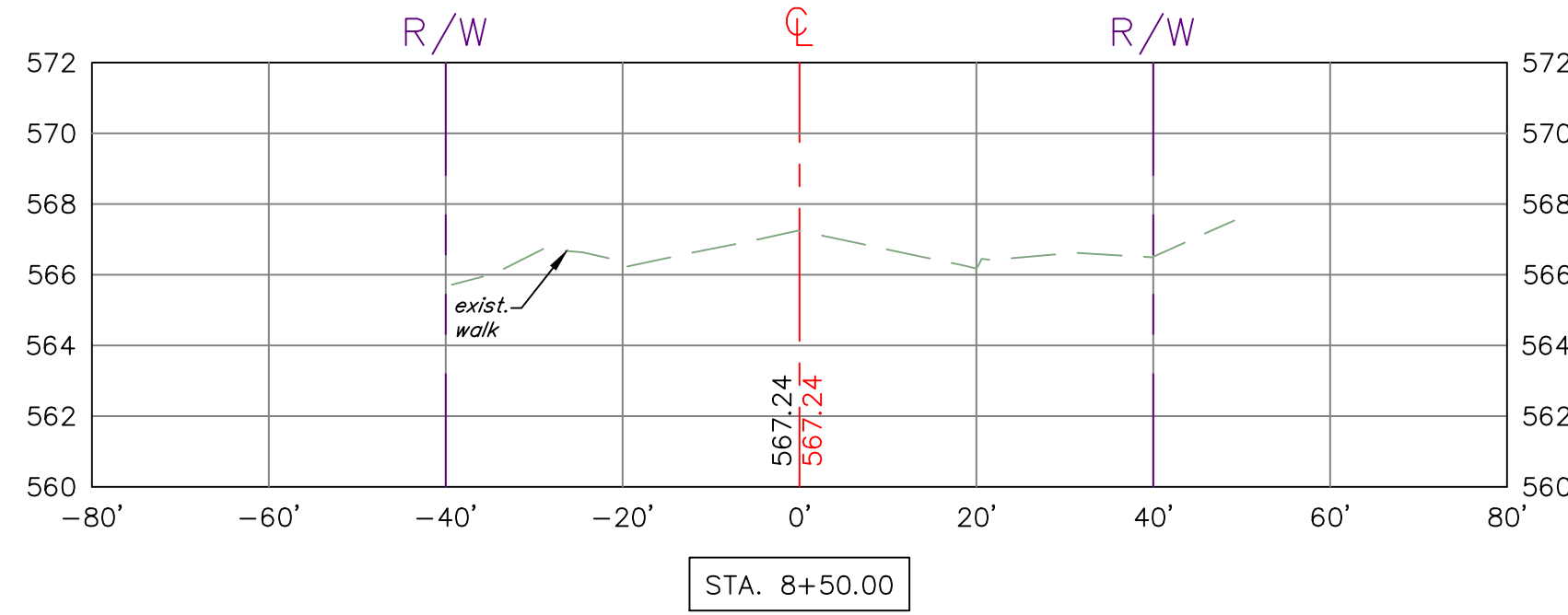
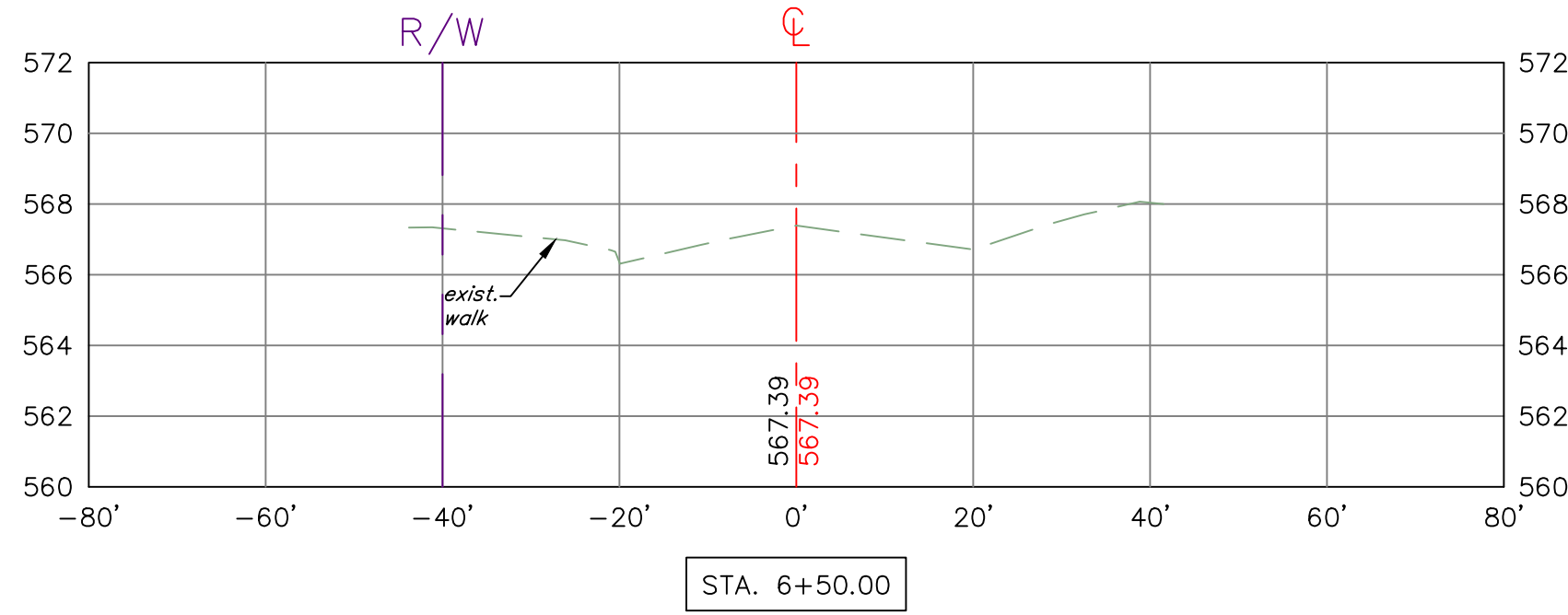
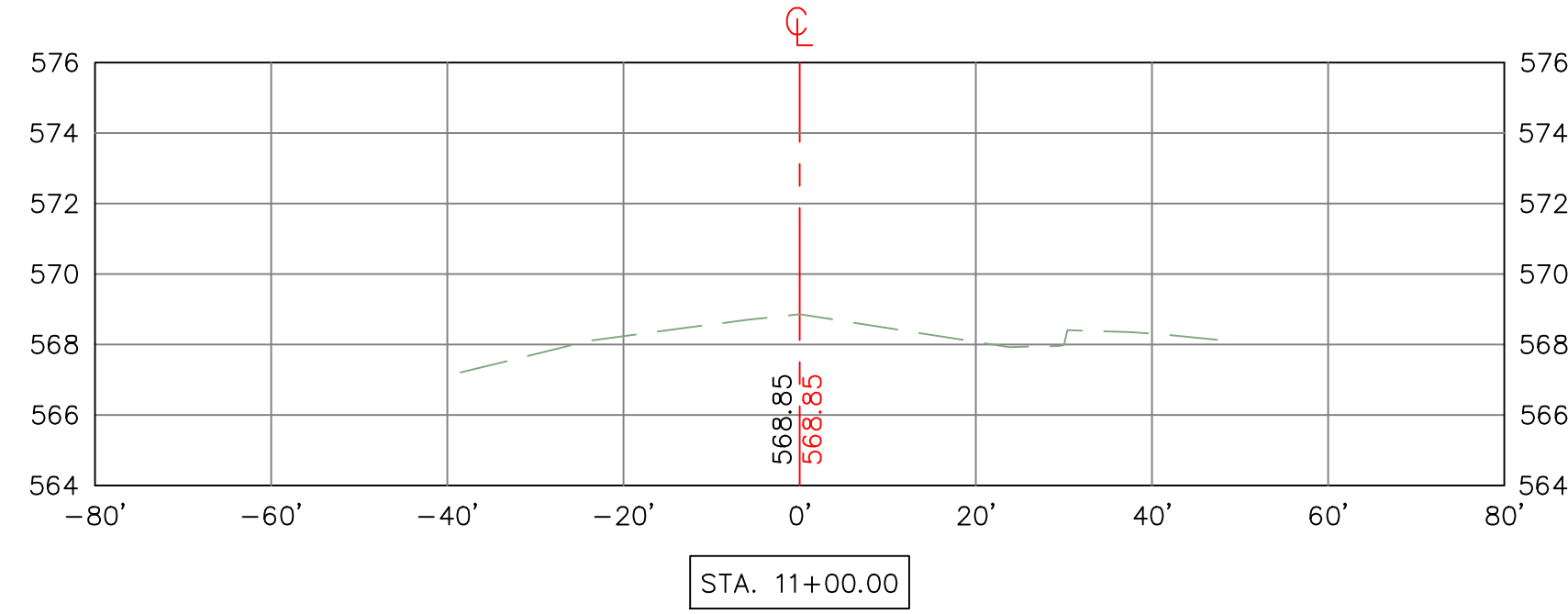
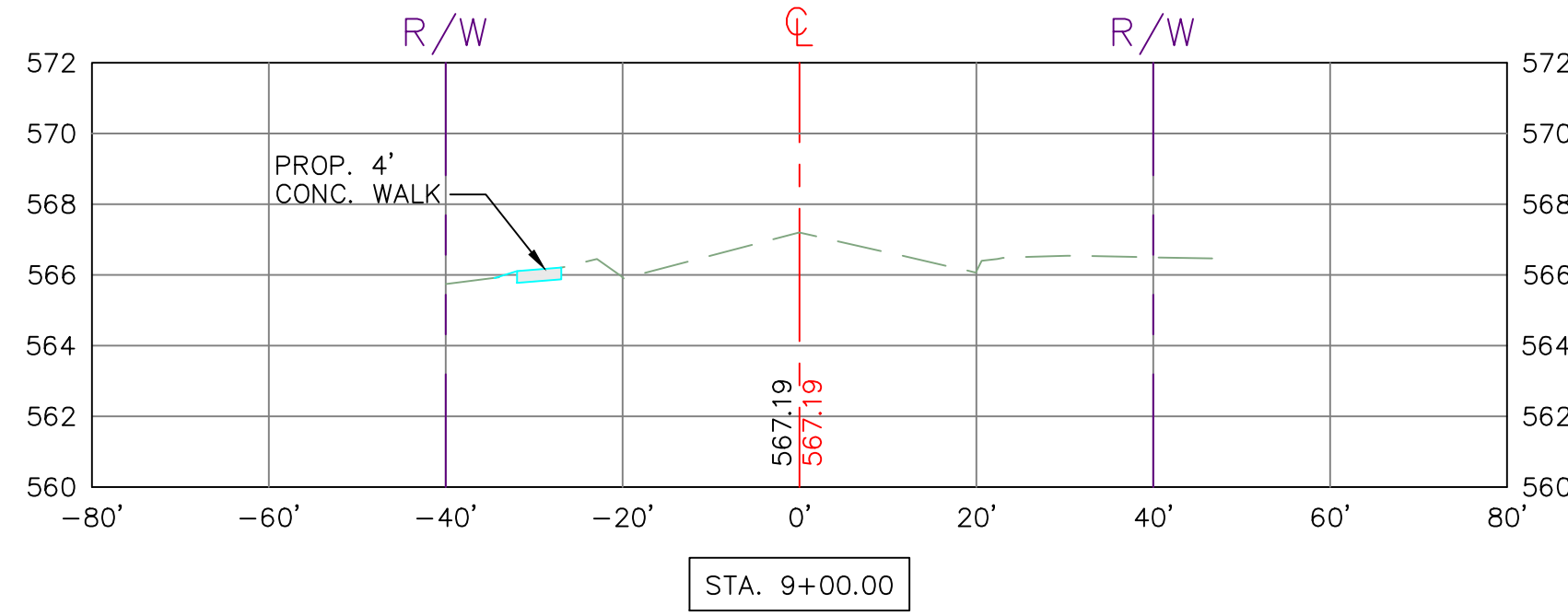
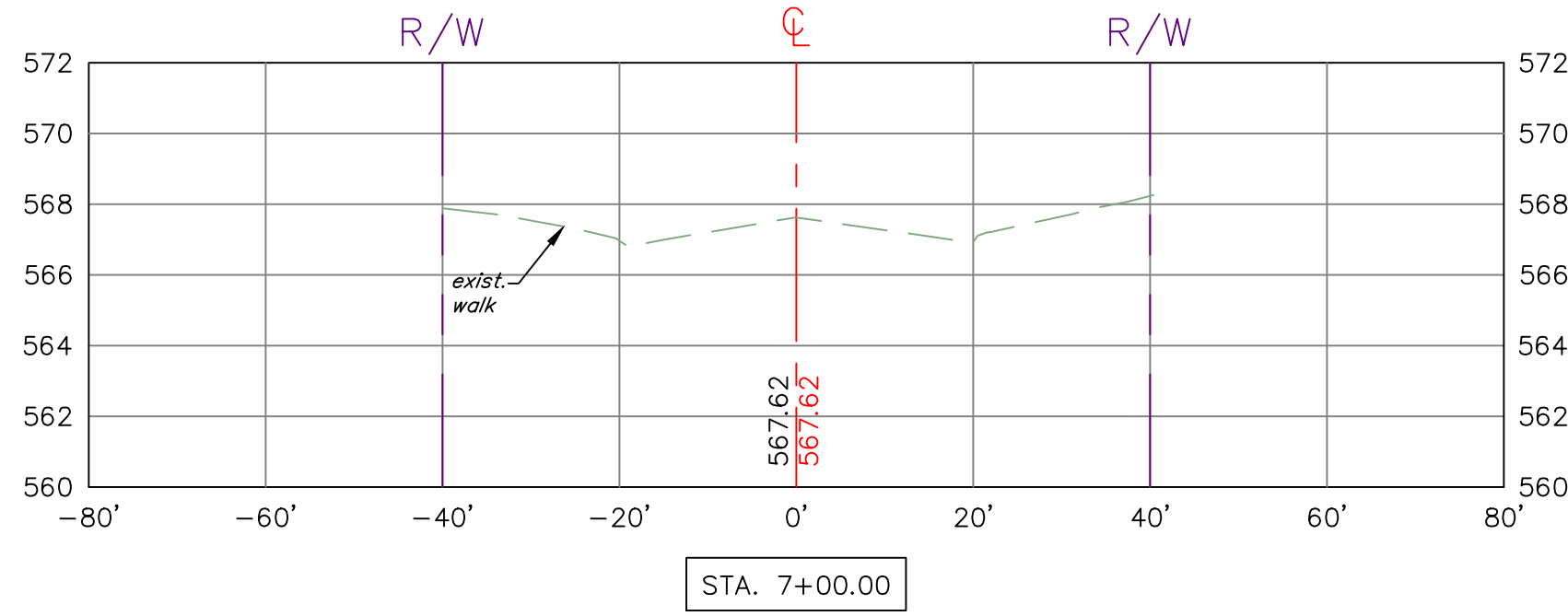
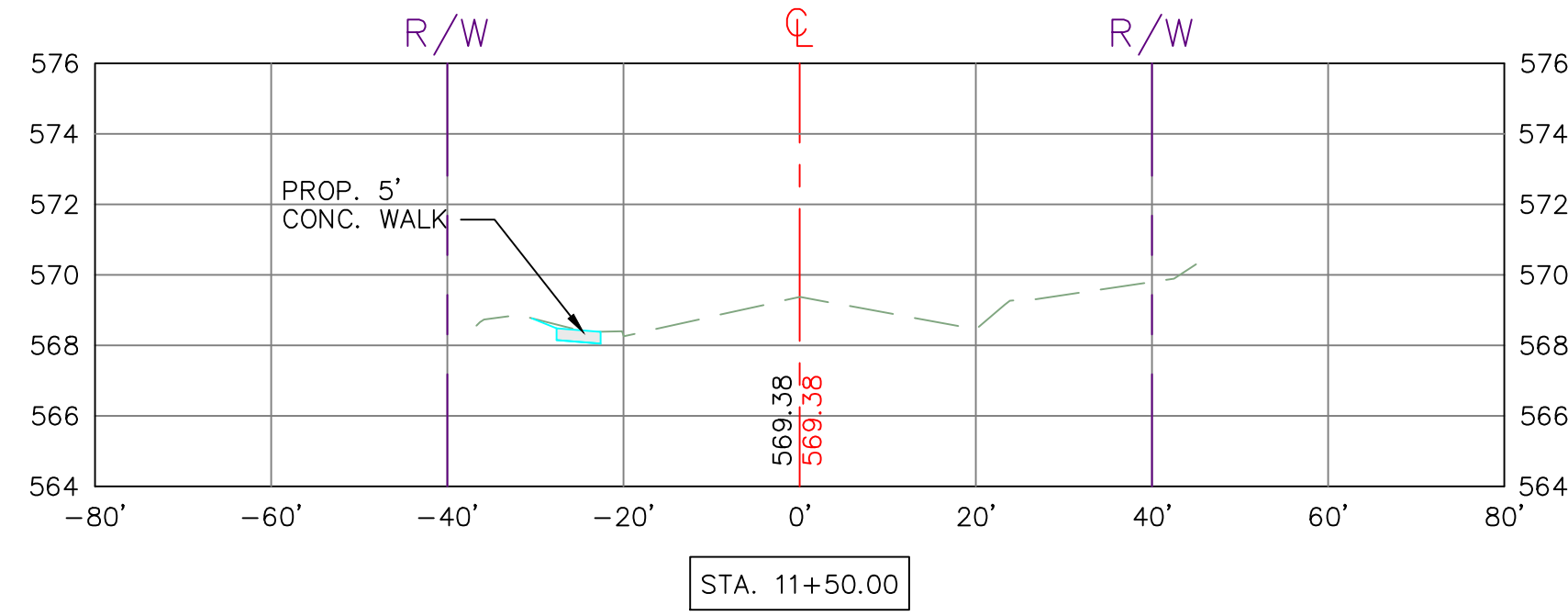
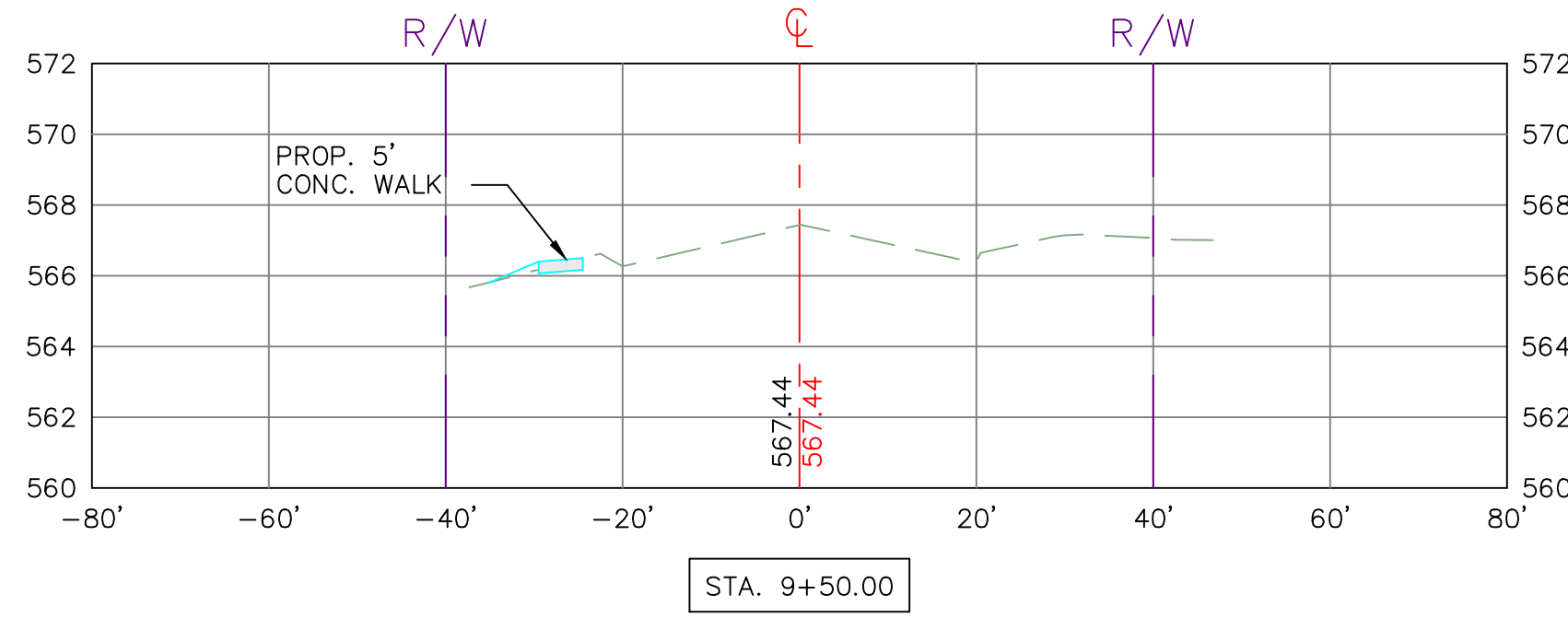
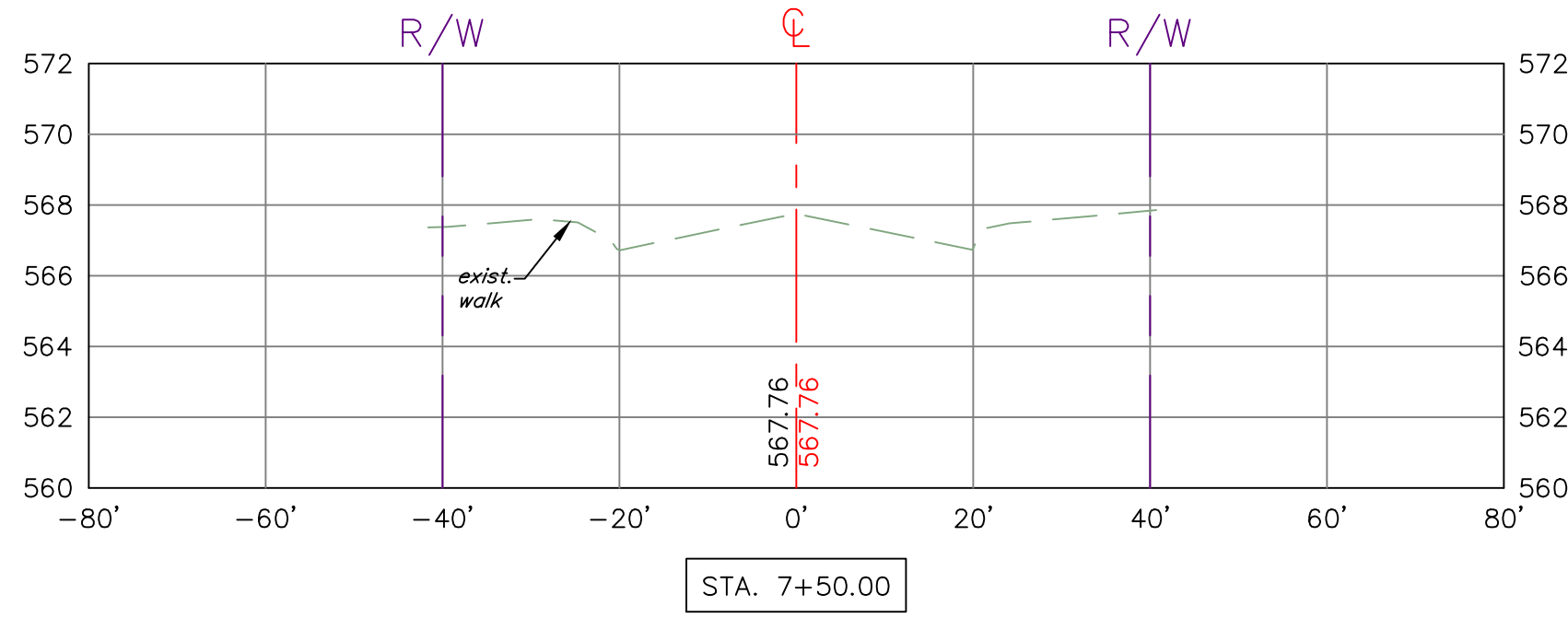
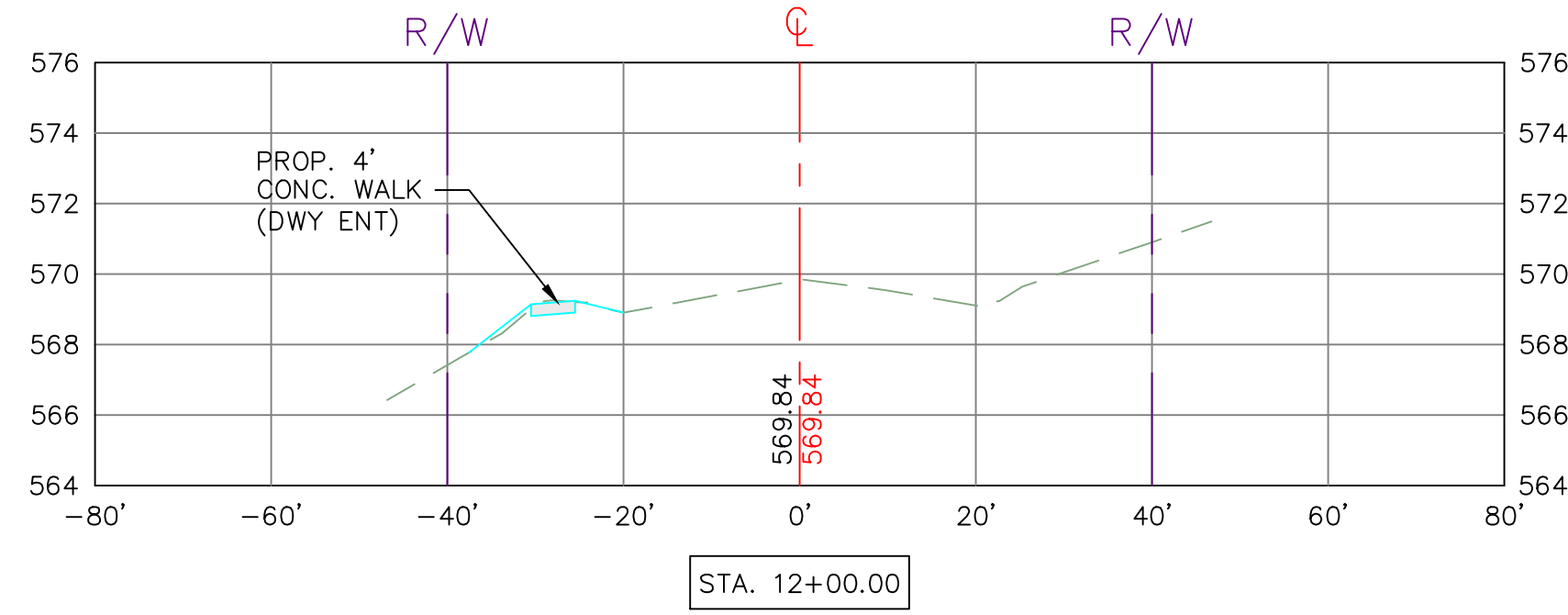
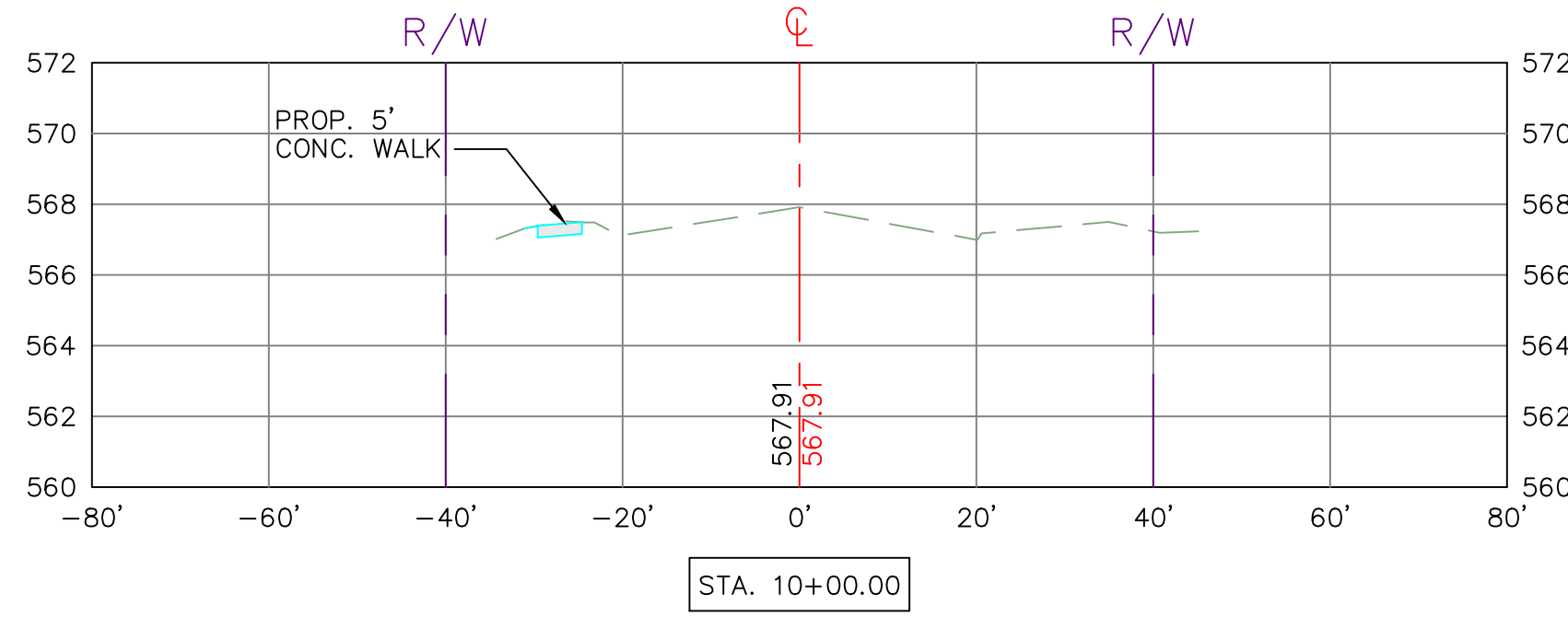
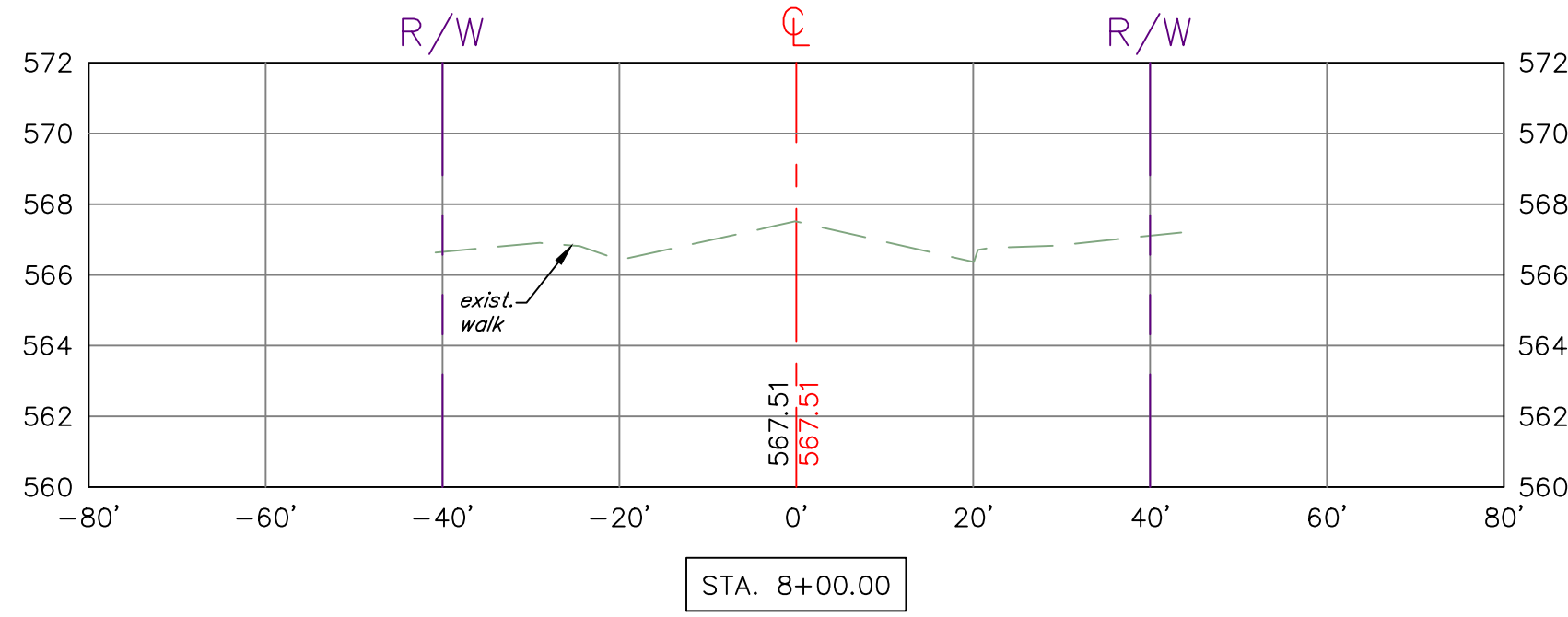
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	HOR:	1" = 20'	
	VERT:	1" = 5'	SHEET SP-4



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PLANS	BY	DATE
DESIGNED	KAB	12/16/22
CHECKED	KAB	12/16/22
RED LINE	N/A	

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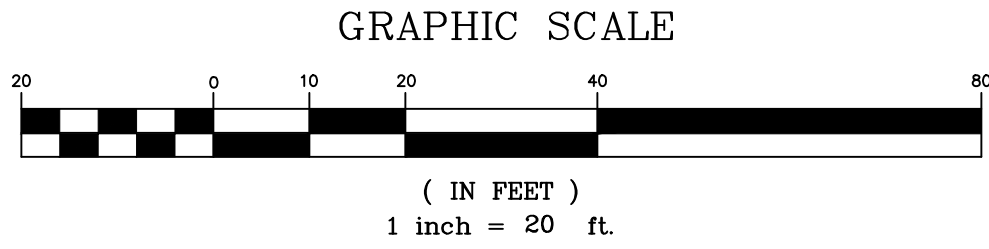


#TAP21 KEMPER ROAD IMPROVEMENTS
PROJ. #TA21-108-468 UPC #117942

REVISIONS	BY	DATE
1 VDOT 40% COMMENTS	KAB	4/19/23

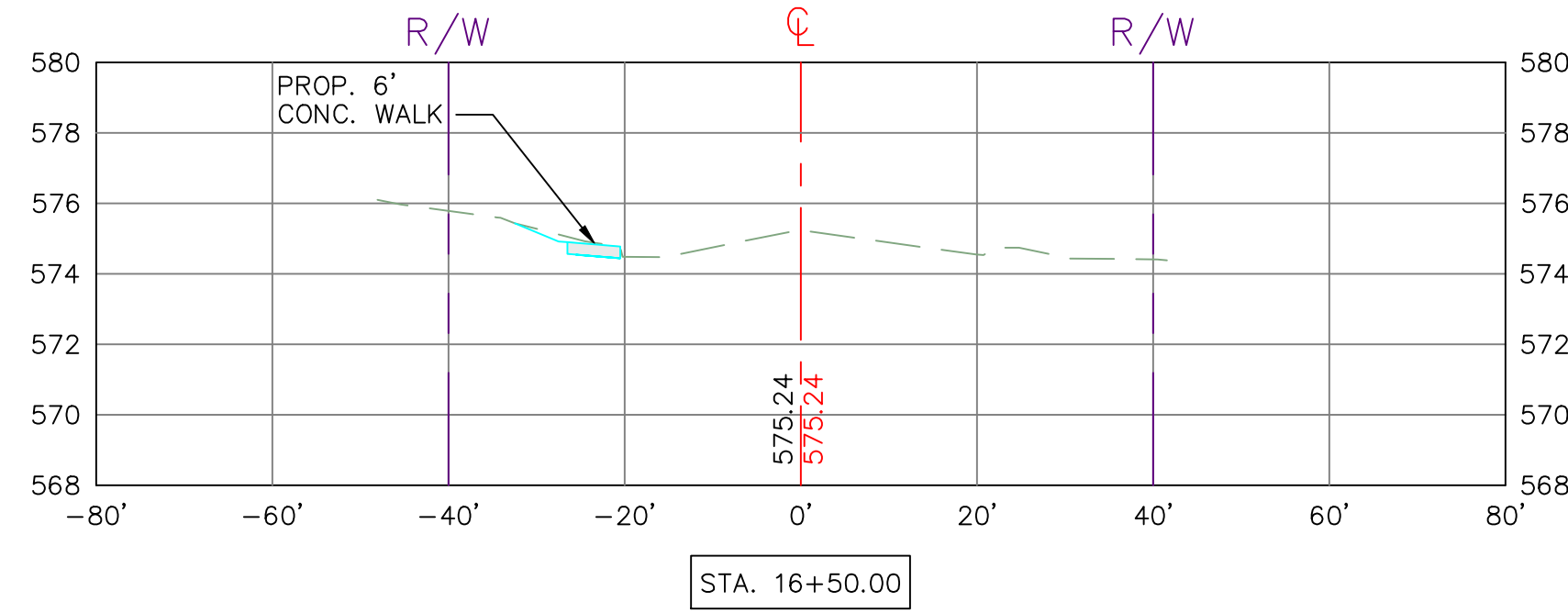
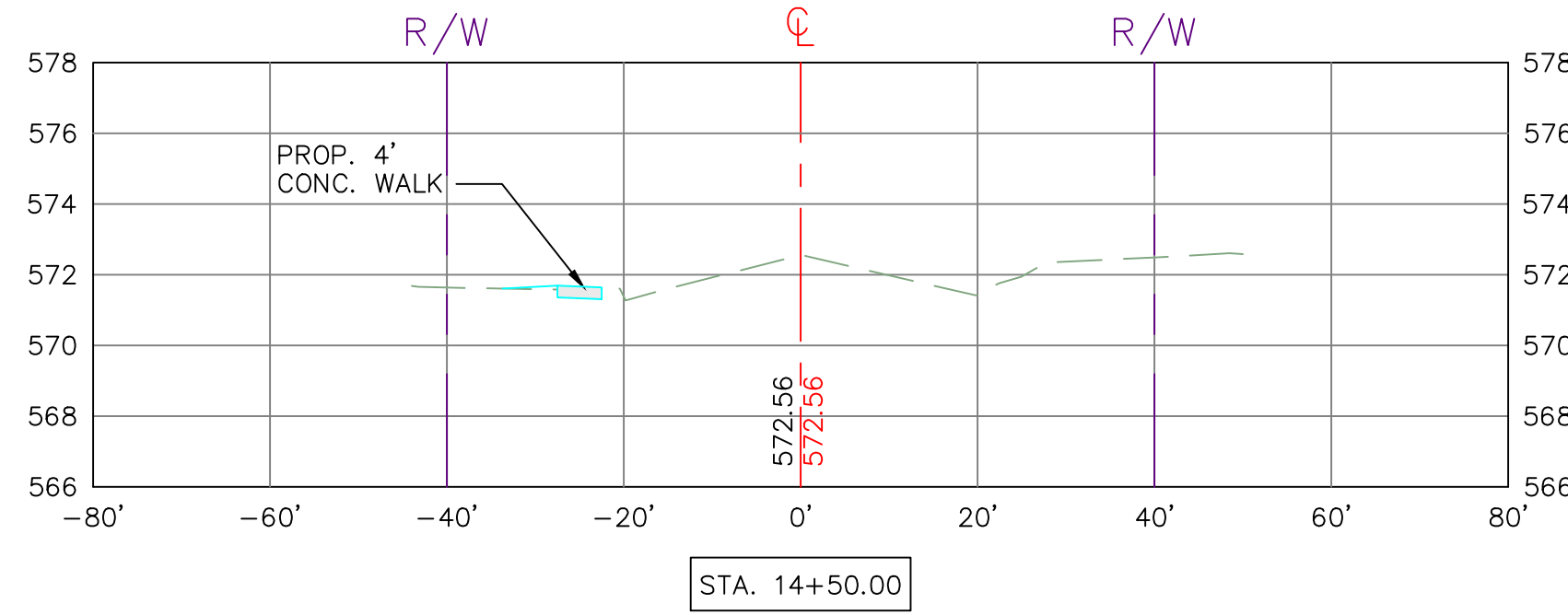
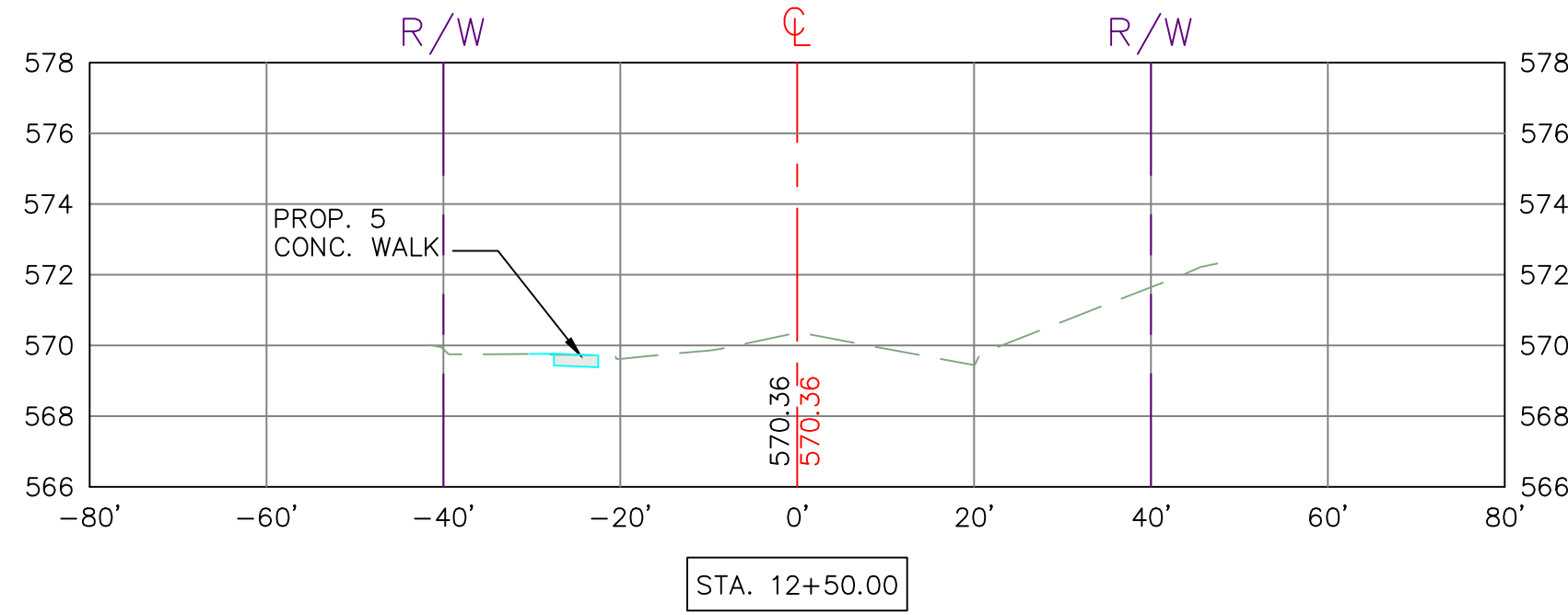
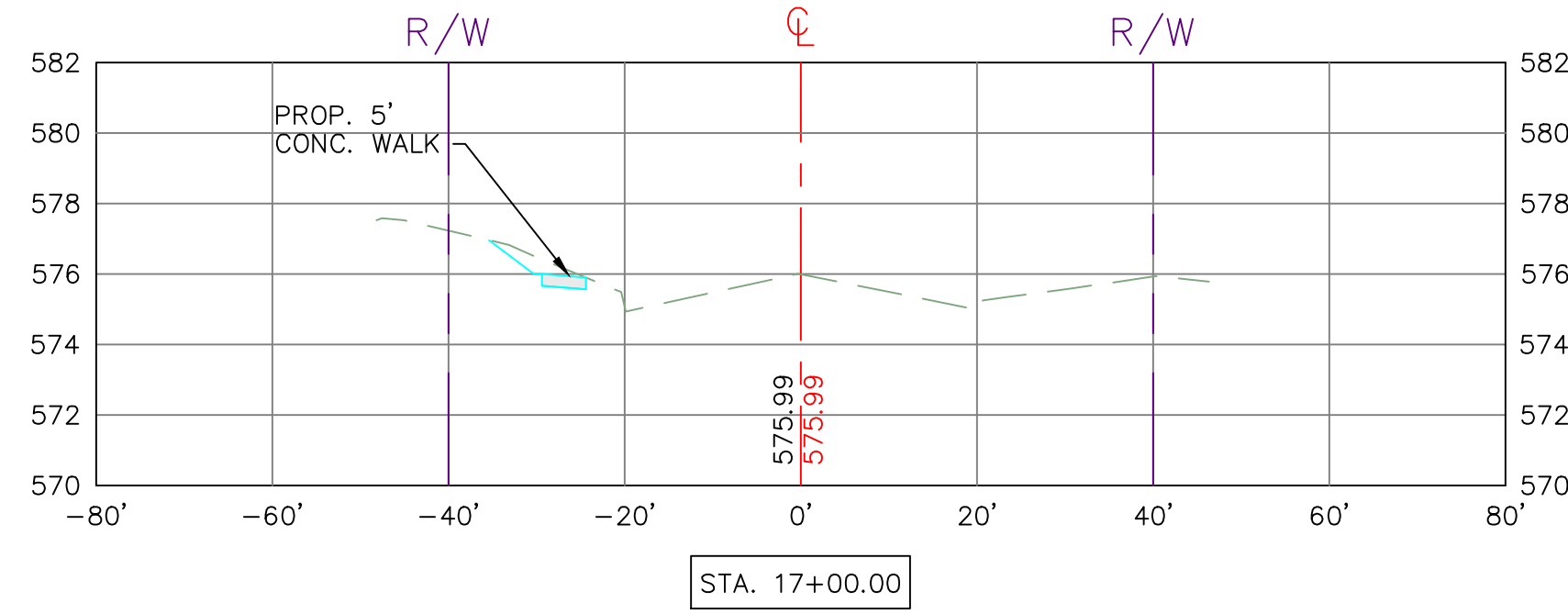
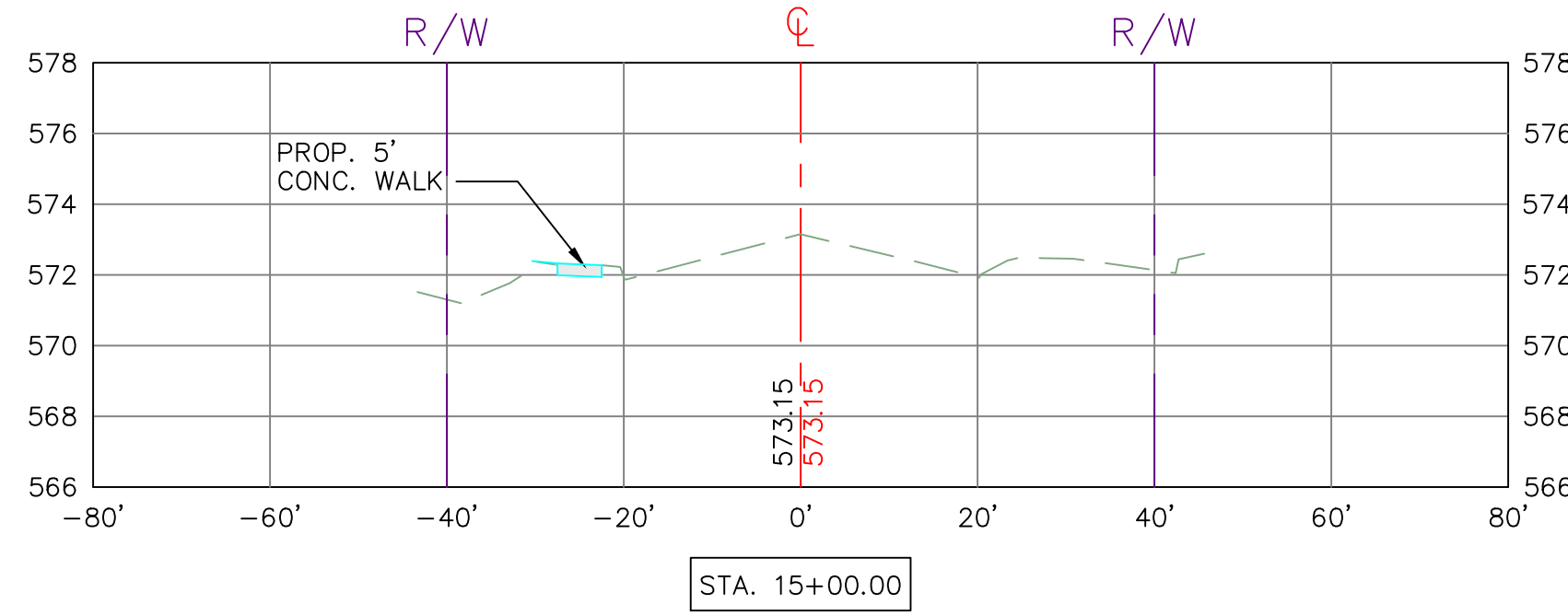
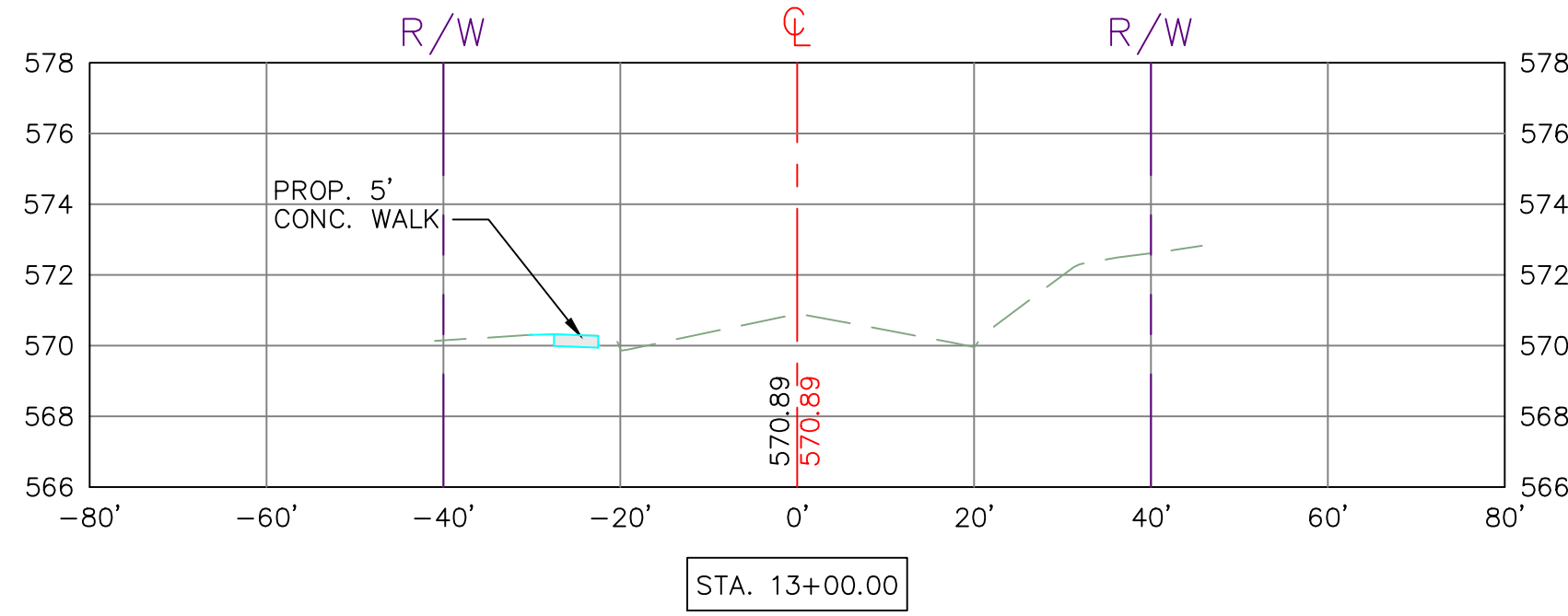
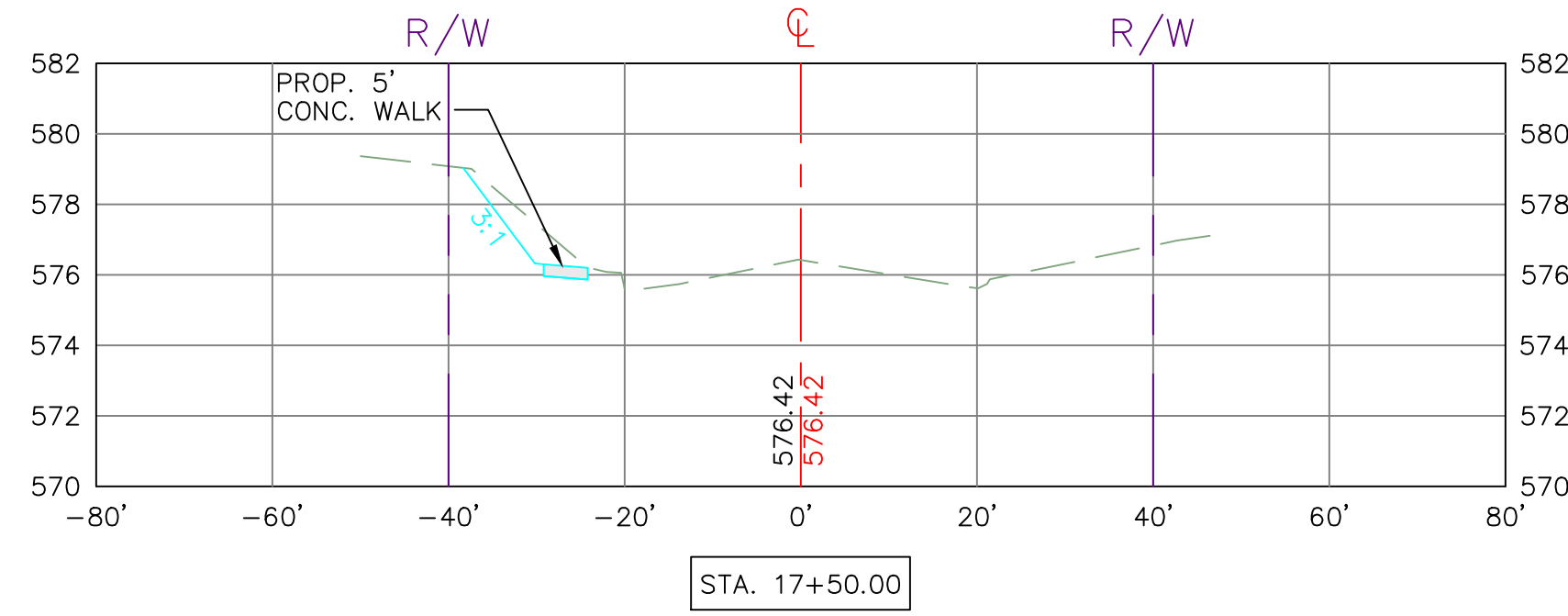
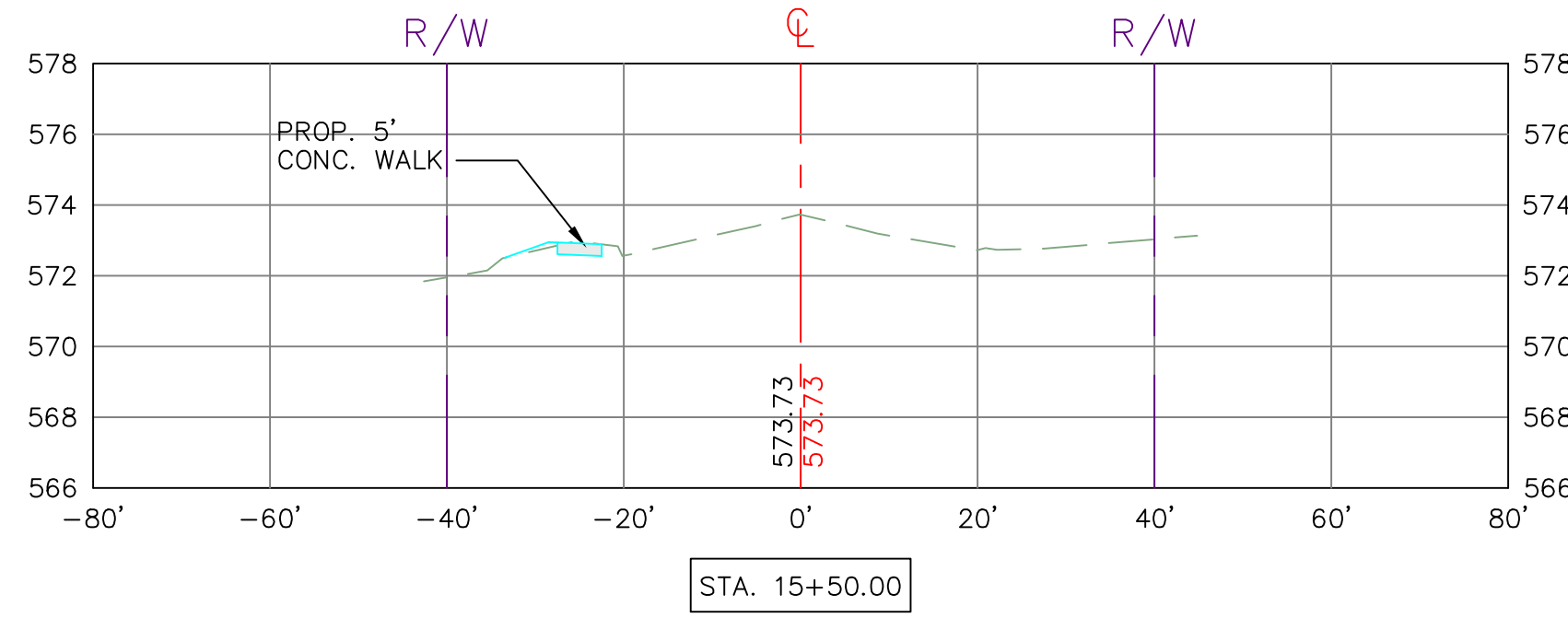
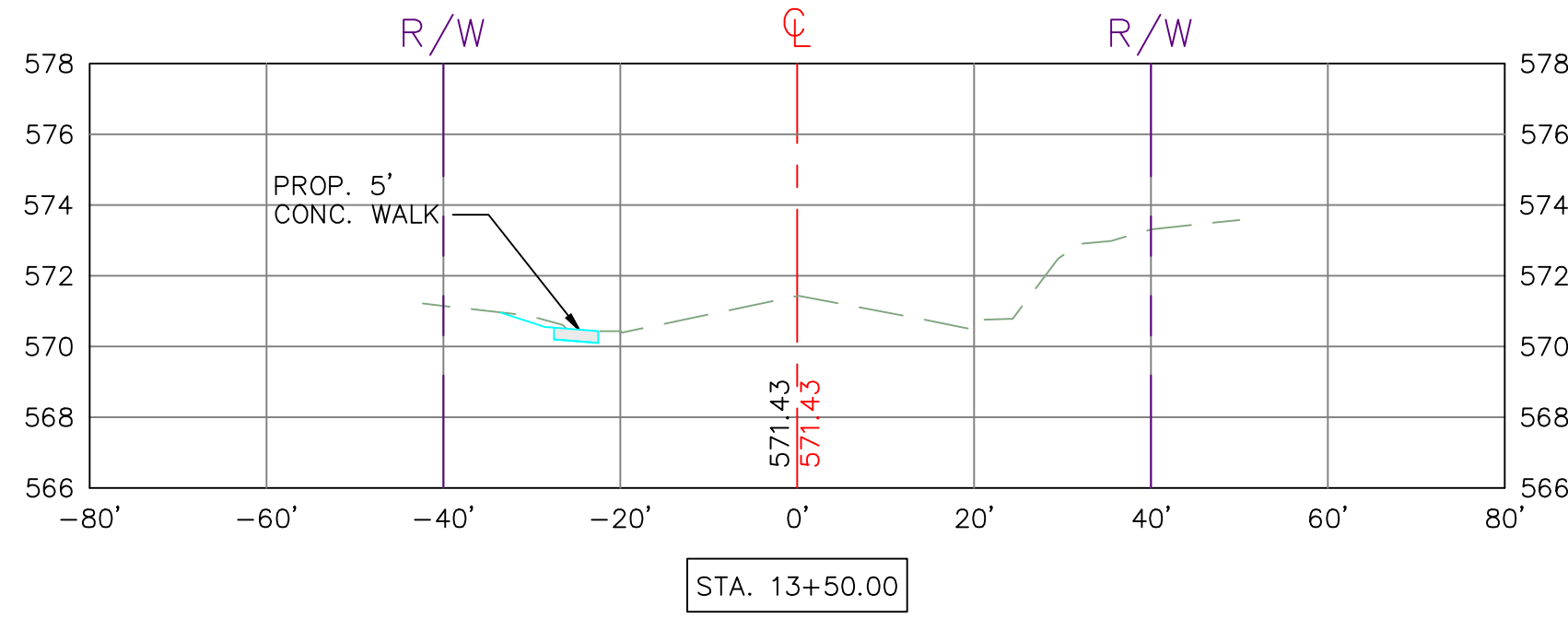
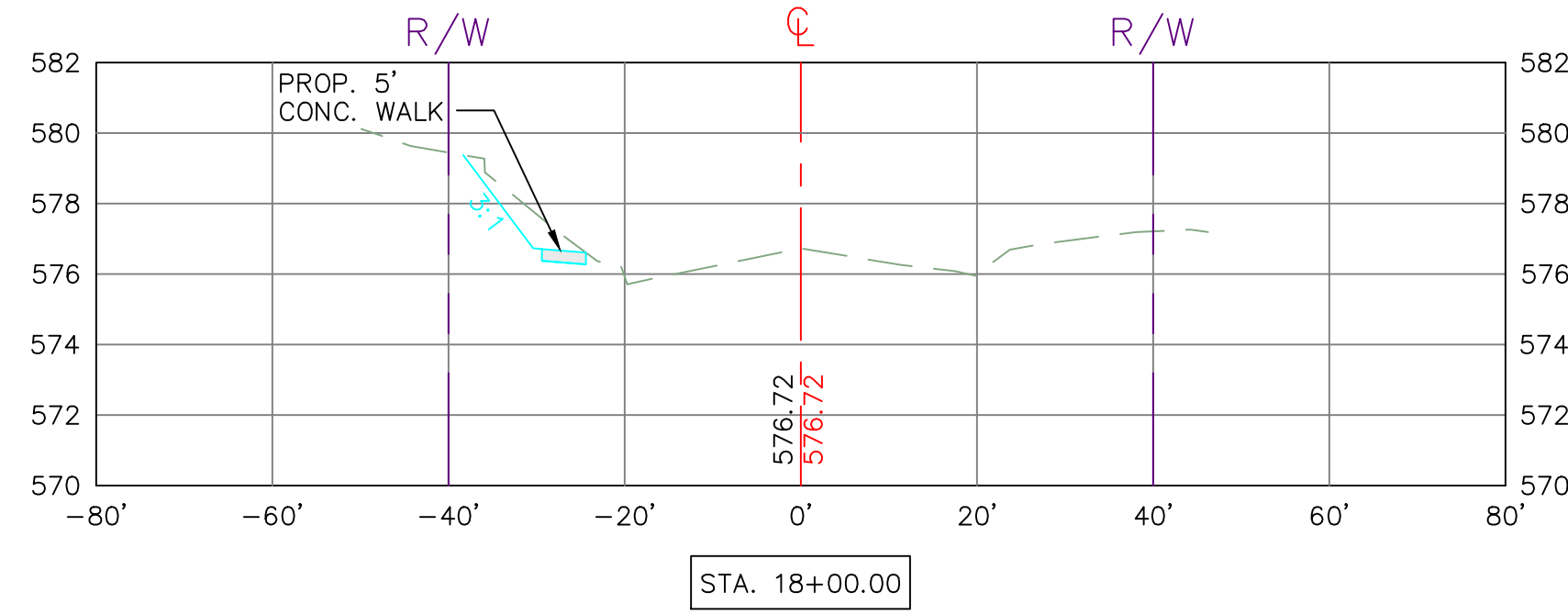
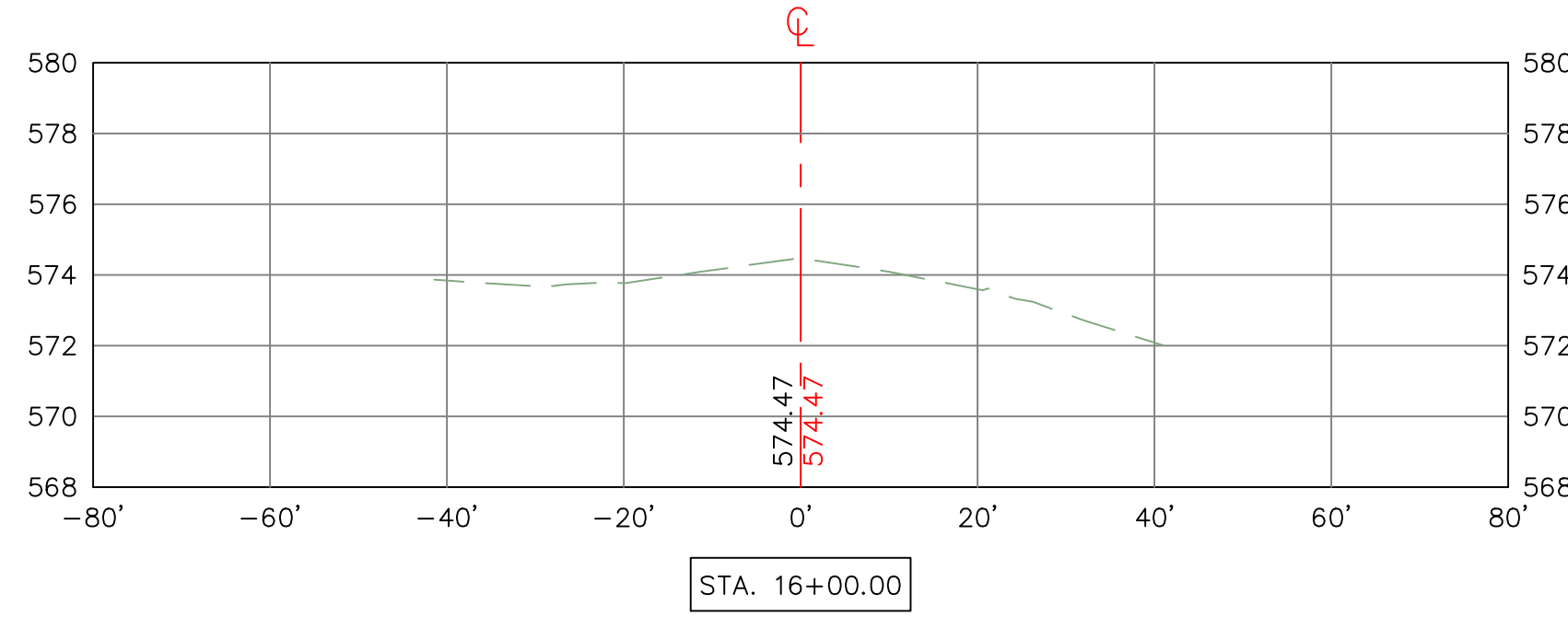
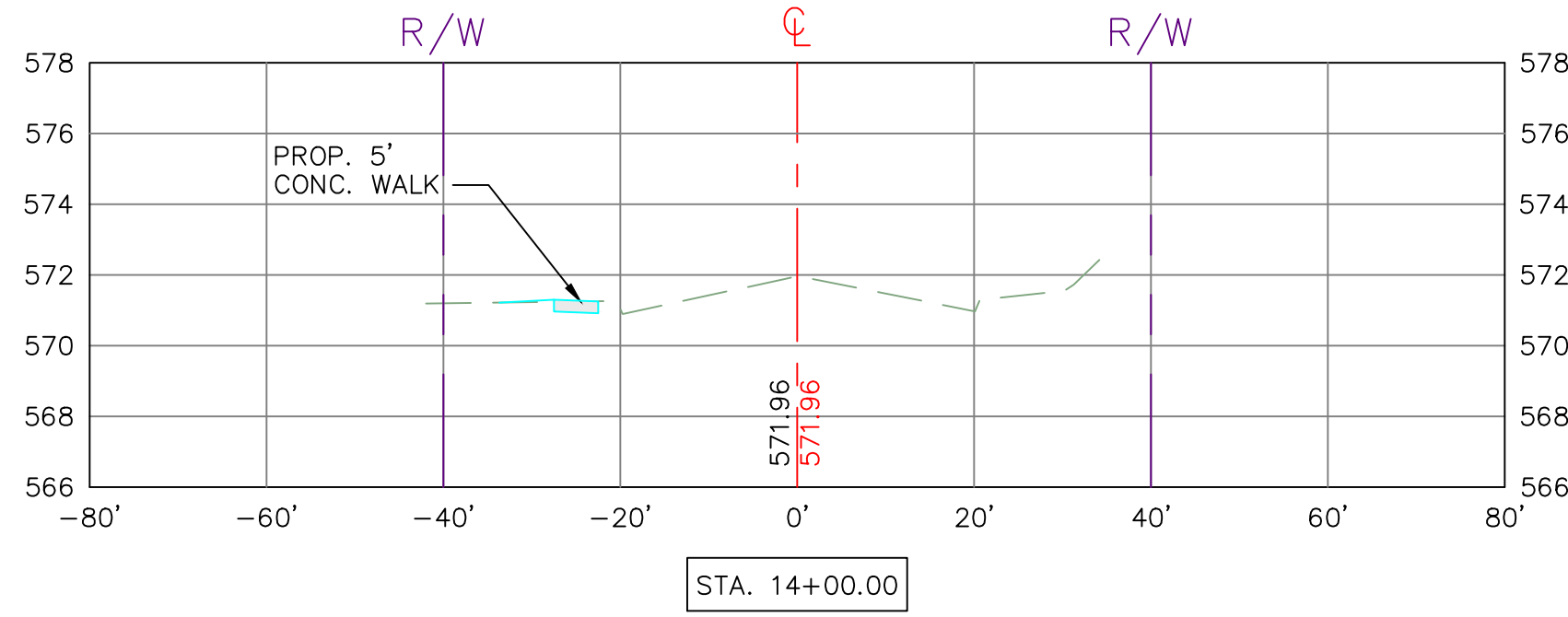
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SCALE	PLAN: 1" = 20' HOR: 1" = 20' VERT: 1" = 5'	CITY FILE NUMBER: H-958
		SHEET XSEC-1



PLANS	BY	DATE
DESIGNED	KAB	12/16/22
CHECKED	KAB	12/16/22
RED LINE	N/A	

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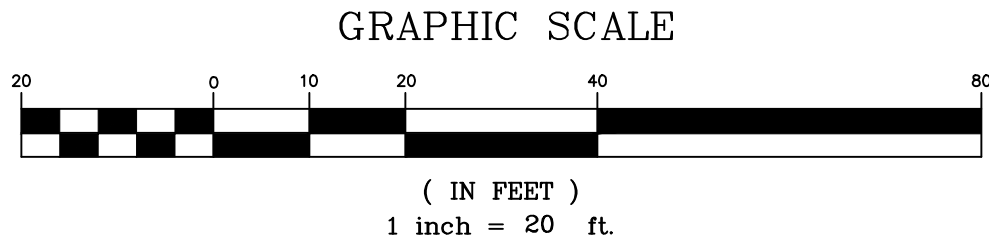
#TAP21 KEMPER ROAD IMPROVEMENTS
PROJ. #TA21-108-468 UPC #117942

REVISIONS	BY	DATE
1 VDOT 40% COMMENTS	KAB	4/19/23

CROSS SECTIONS 2

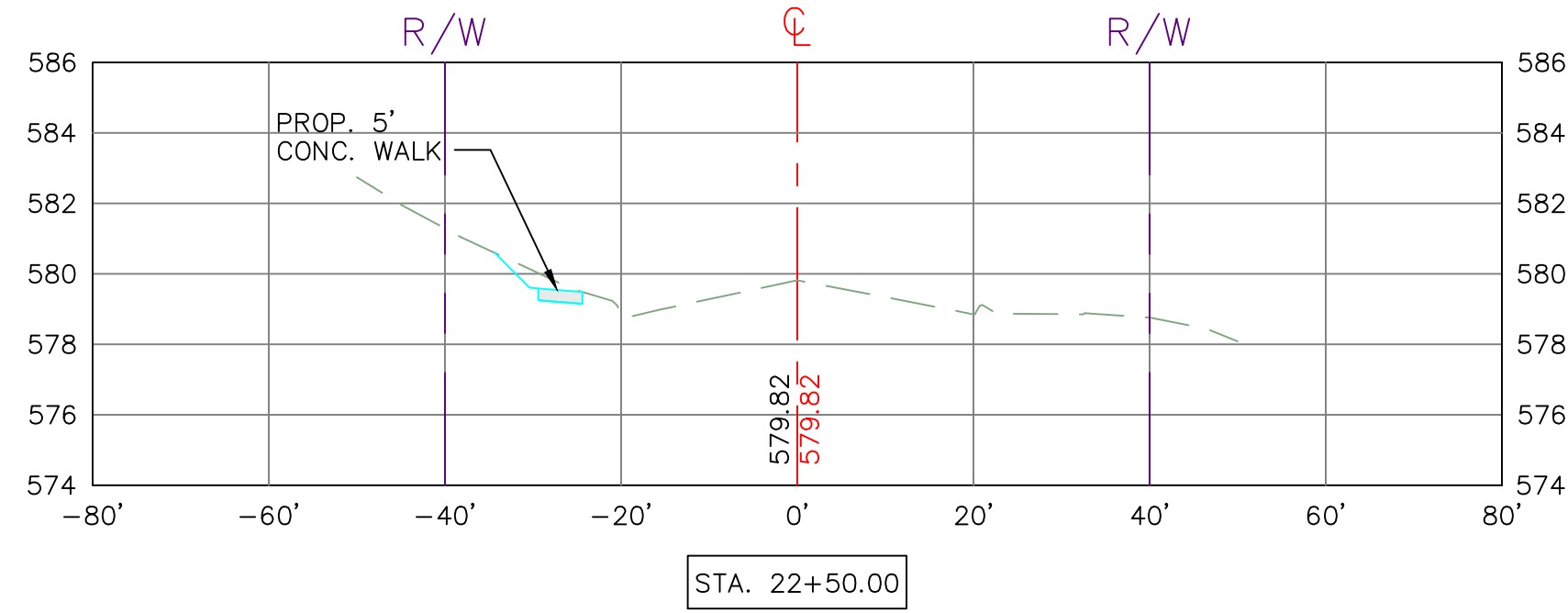
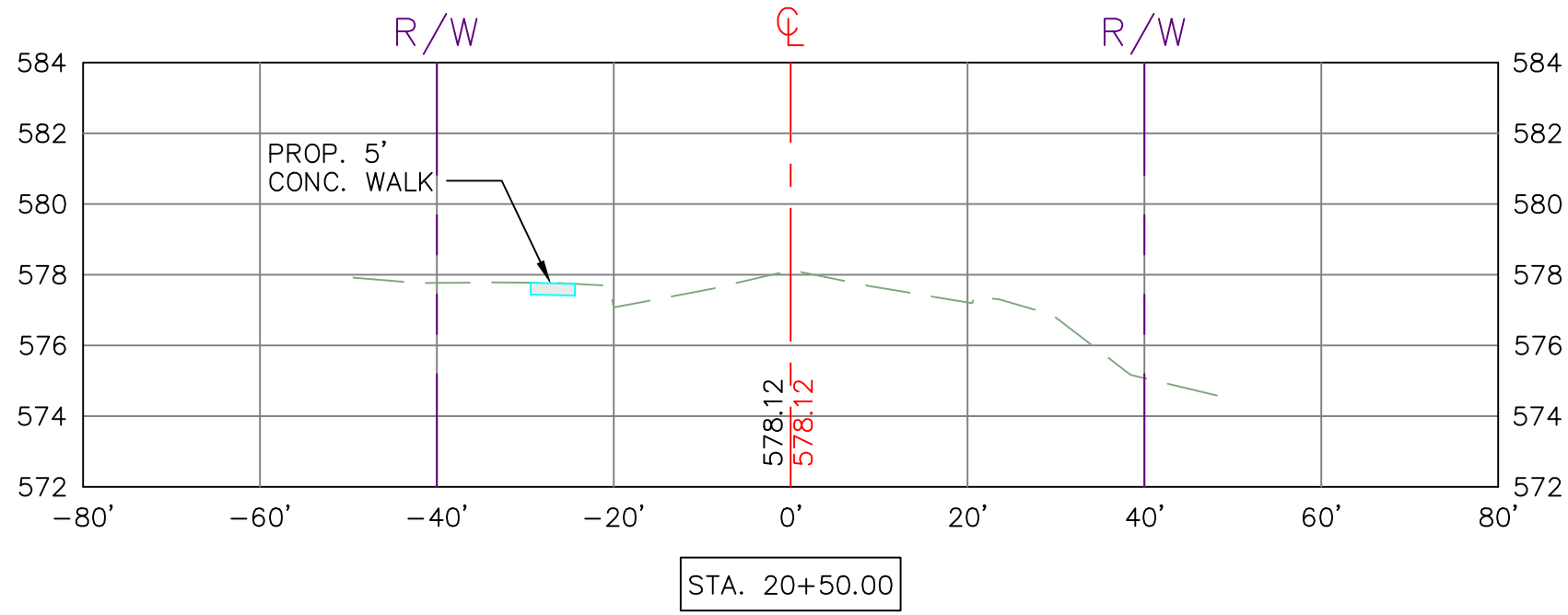
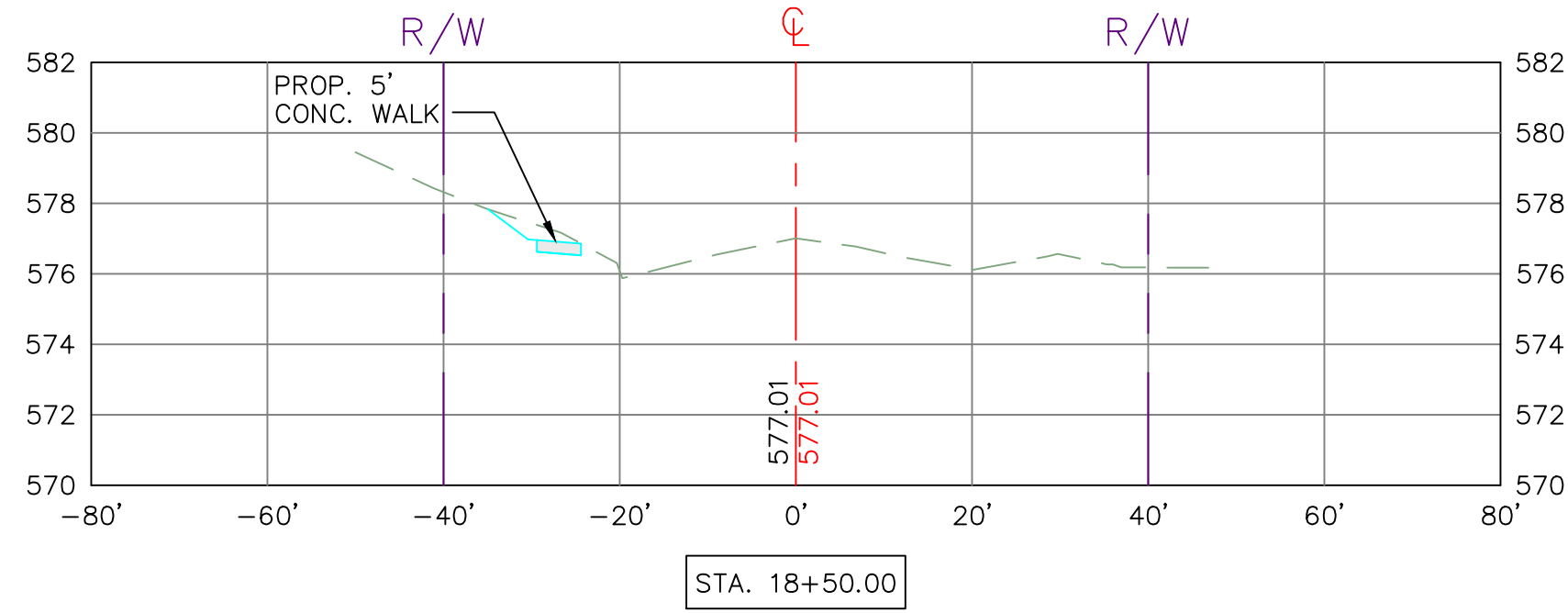
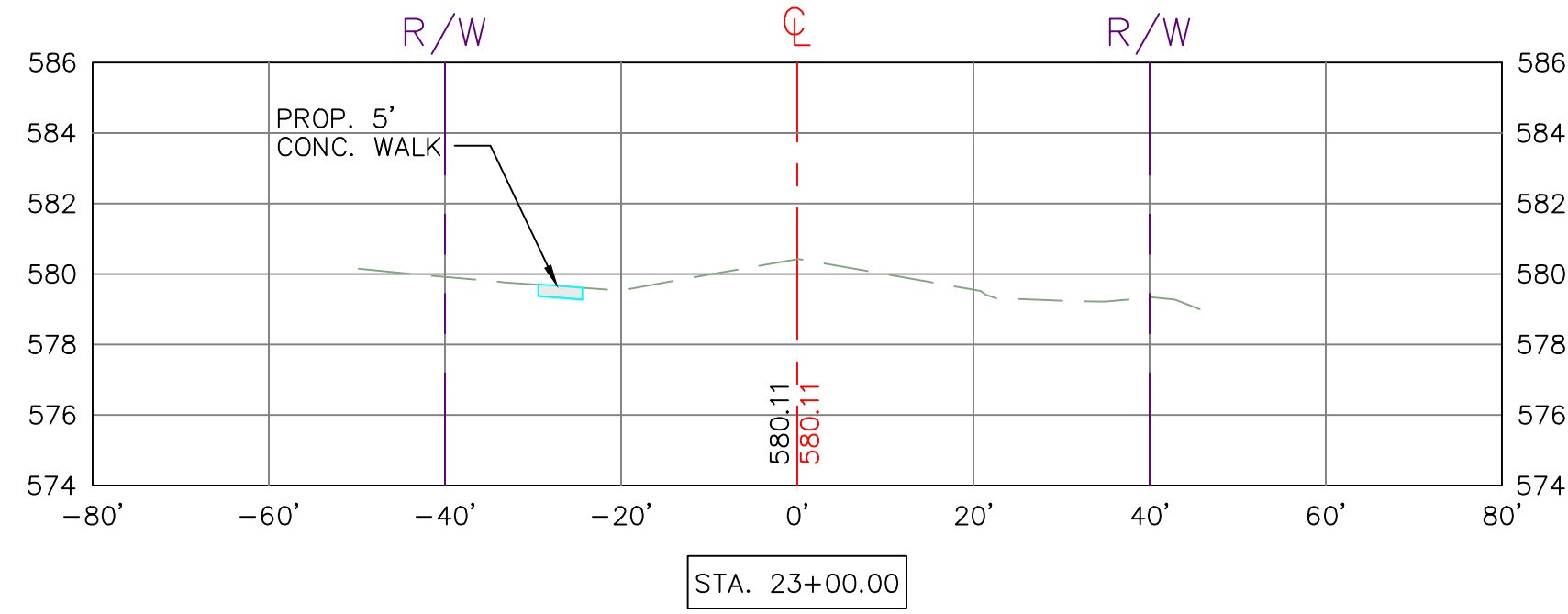
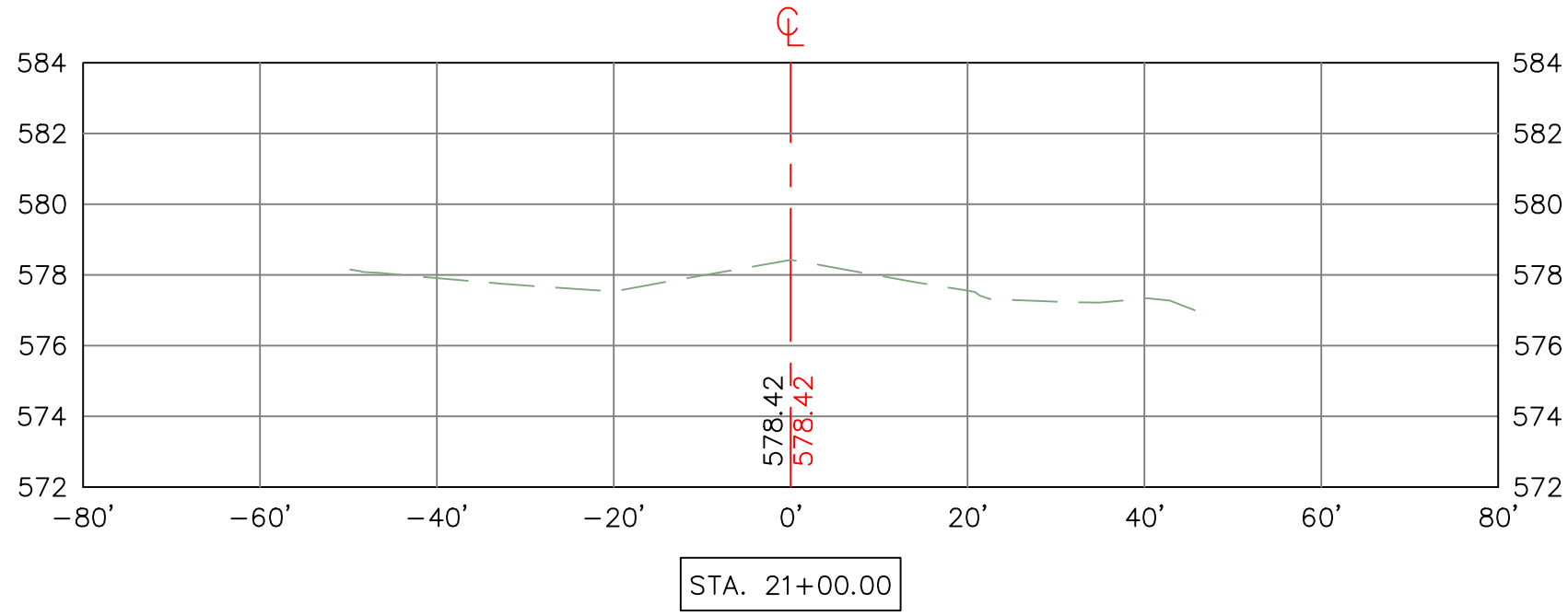
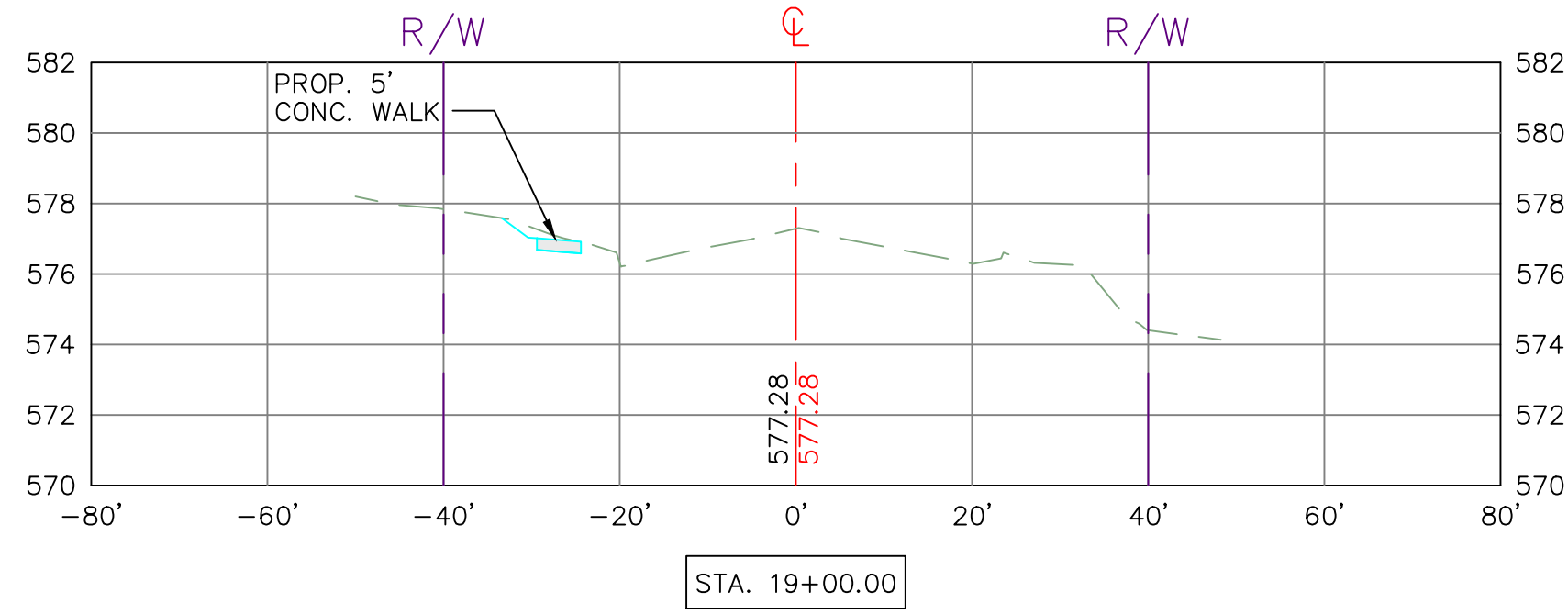
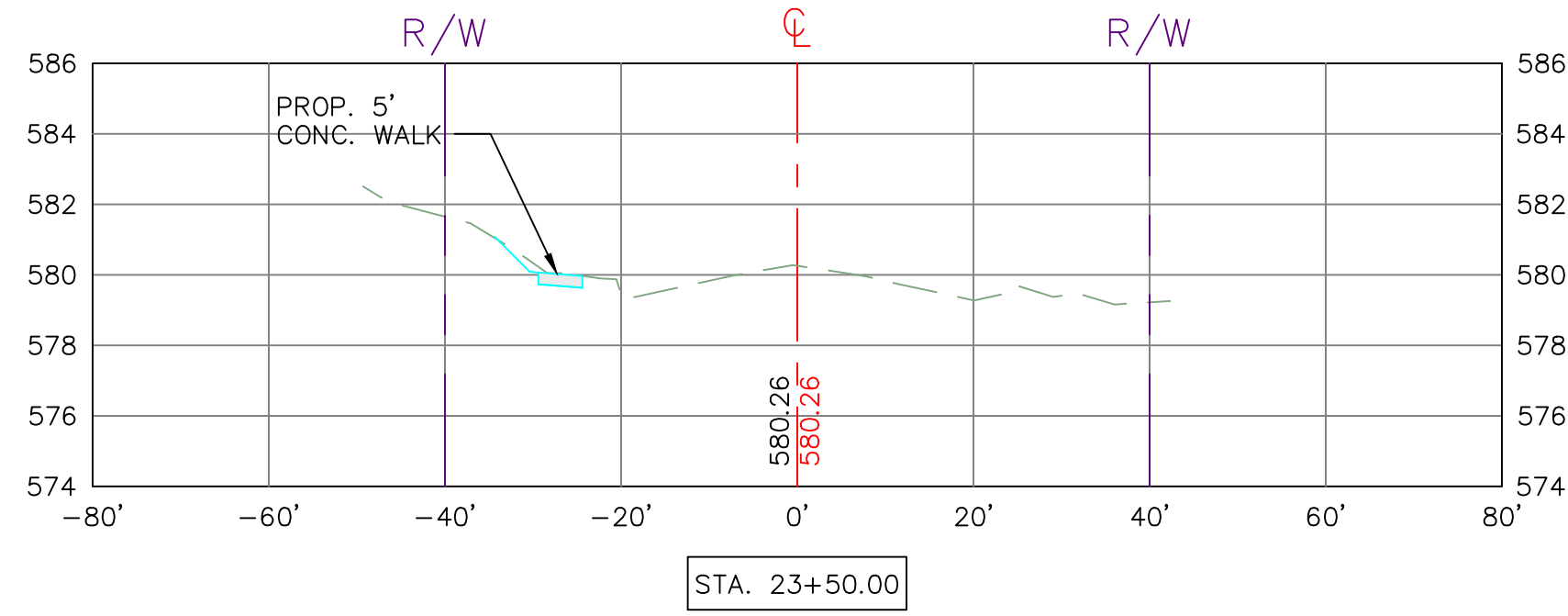
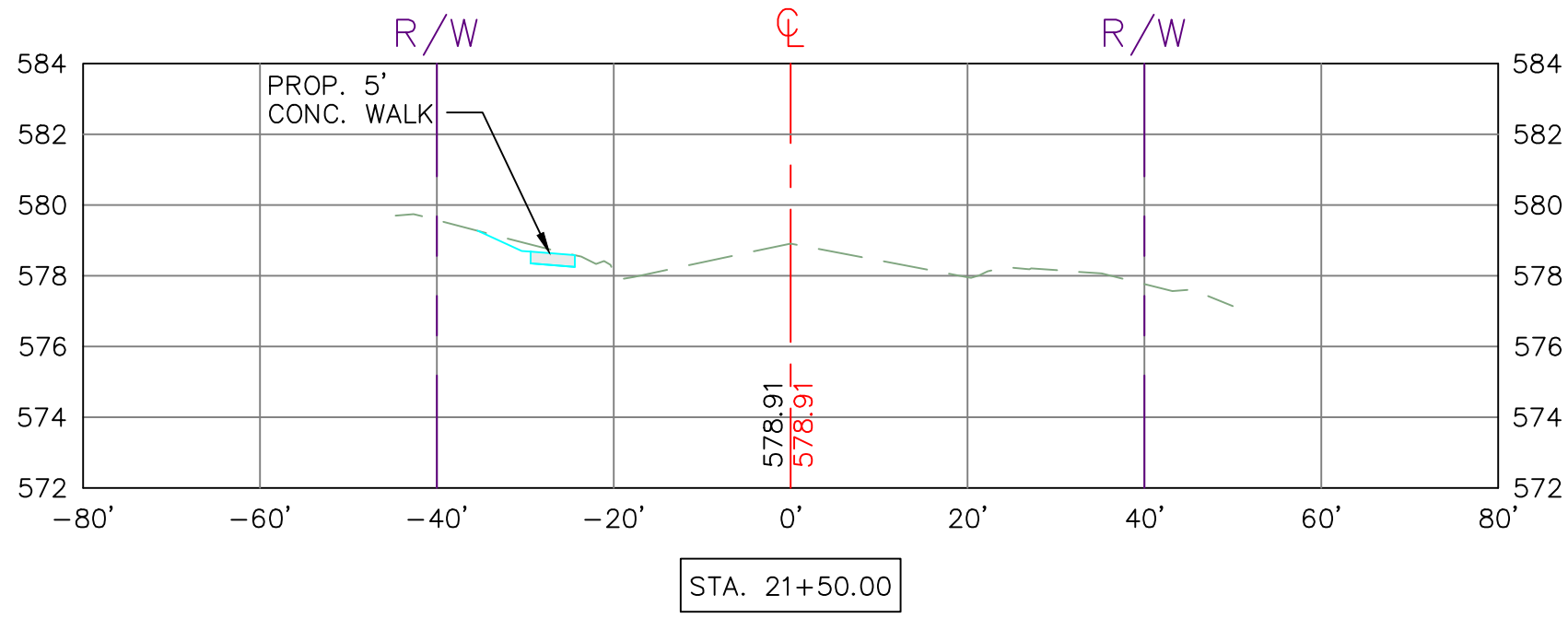
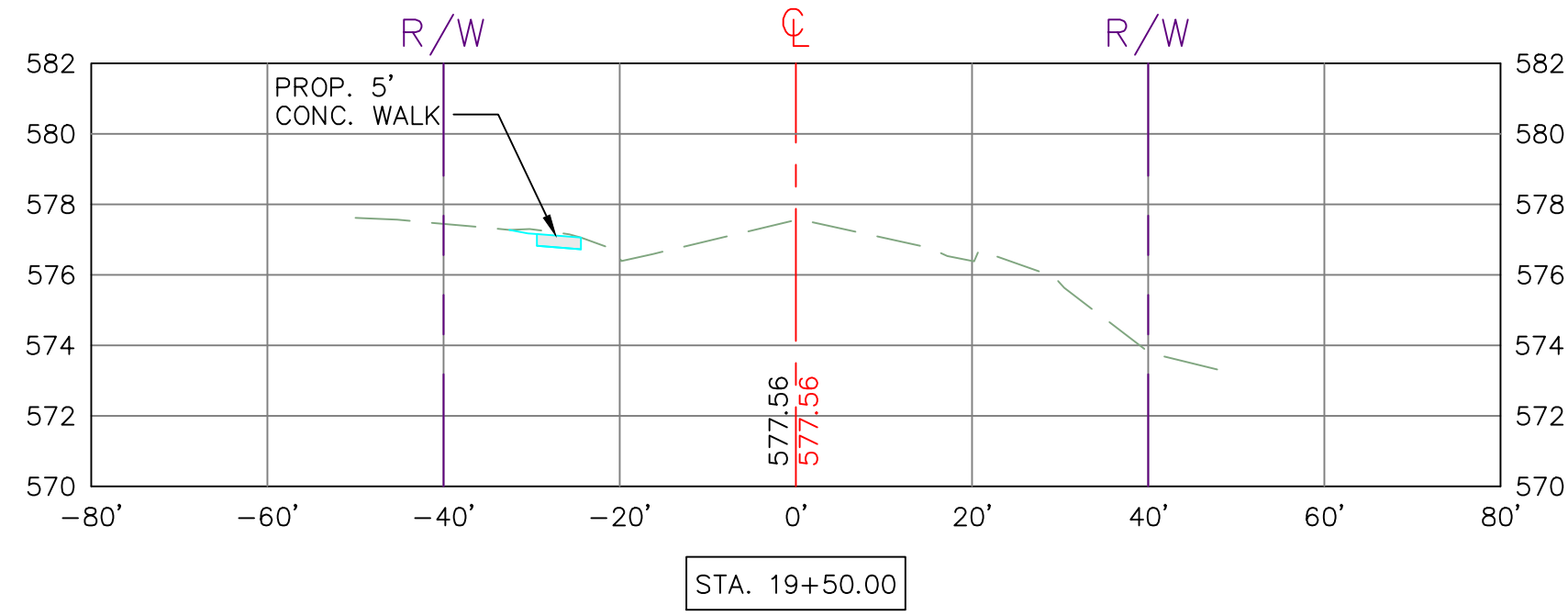
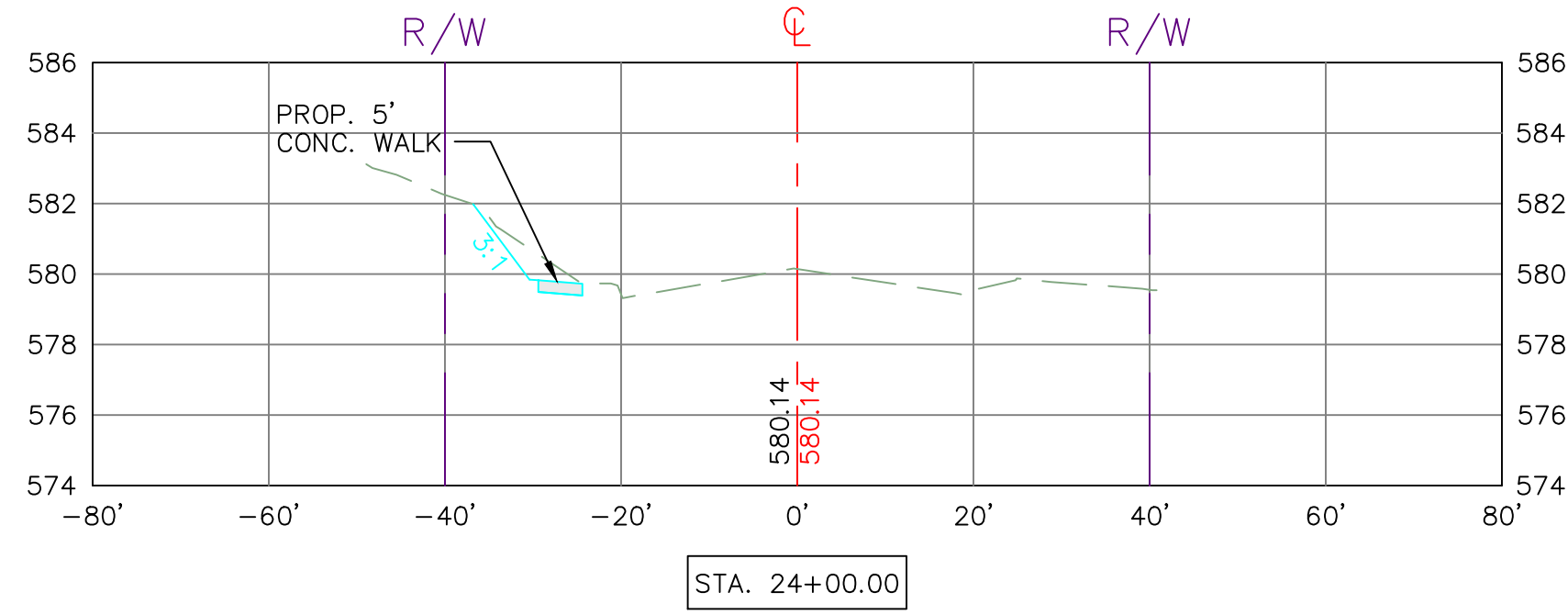
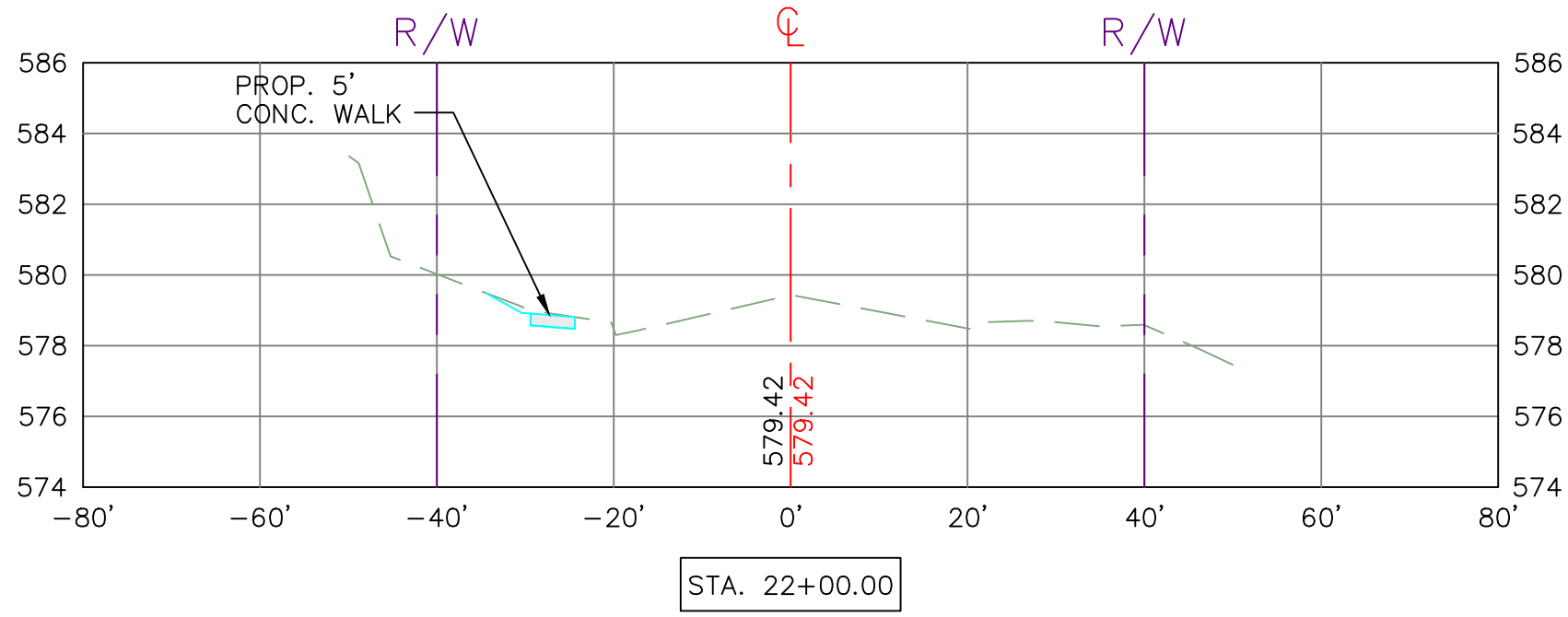
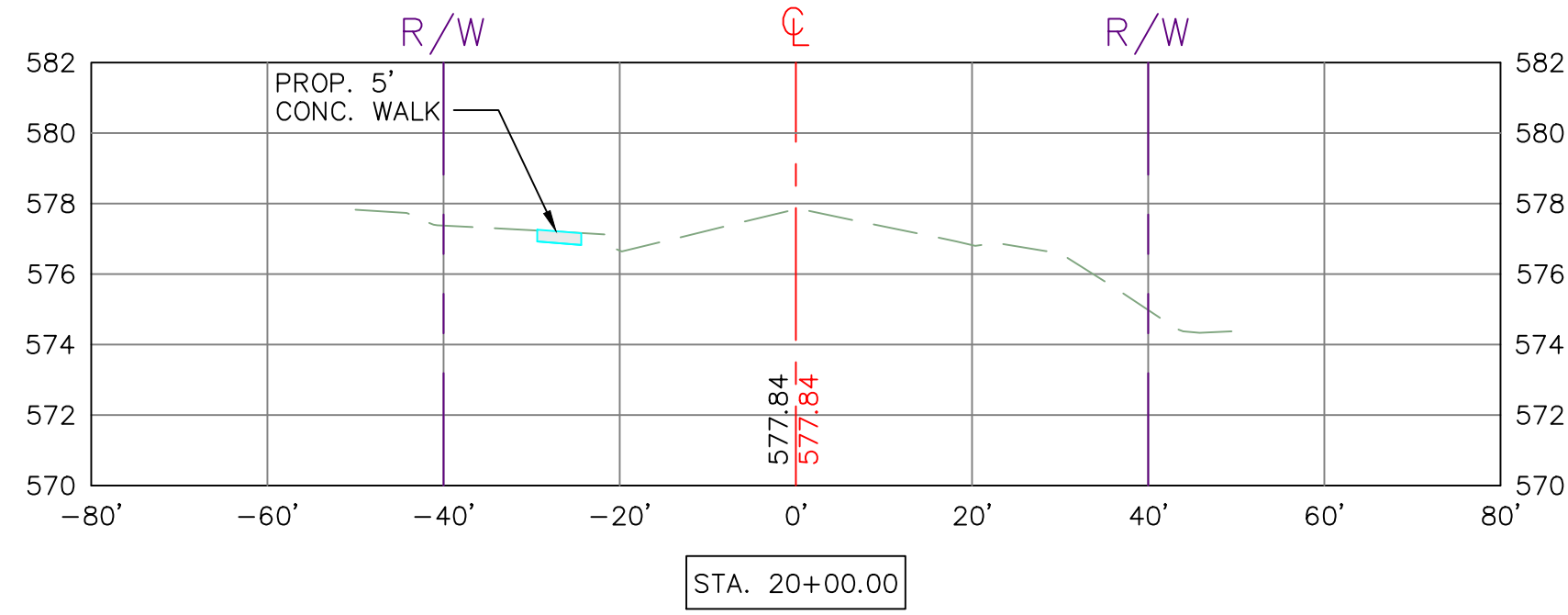
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HOR: 1" = 20'
VERT: 1" = 5'

CITY FILE NUMBER: H-958
SHEET XSEC-2



PLANS	BY	DATE
DESIGNED	KAB	12/16/22
CHECKED	KAB	12/16/22
RED LINE	N/A	

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THE CITY OF DANVILLE, VIRGINIA
DEPARTMENT OF PUBLIC WORKS



#TAP21 KEMPER ROAD IMPROVEMENTS
PROJ. #TA21-108-468 UPC #117942

REVISIONS		BY	DATE
1	VDOT 40% COMMENTS	KAB	4/19/23

CROSS SECTIONS 3

SCALE	PLAN:	1" = 20'	CITY FILE NUMBER: H-958
	HOR:	1" = 20'	
	VERT:	1" = 5'	
			SHEET XSEC-3

GRAPHIC SCALE

200

0

10

20

40

80

(IN FEET)

1 inch = 20 ft.

-1

0

1

2

3

4

5

6

7

8

9

10

PLANS	BY	DATE
DESIGNED	KAB	12/16/22
CHECKED	KAB	12/16/22
RED LINE	N/A	

CITY OF DANVILLE, VIRGINIA
OFFICE OF THE CITY ENGINEER
427 PATTON STREET
DANVILLE, VA 24541
434-799-5019

