

PROJECT MANAGER... CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
SURVEYED BY, DATE... TIMMONS GROUP (804) 200-6500 8/2020  
DESIGN BY... TIMMONS GROUP (804) 200-6500  
SUBSURFACE UTILITY BY, DATE... TIMMONS GROUP (804) 200-6500 8/2020

**RW PLANS**

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

**PROPOSED SIGNAL INSTALLATION GENERAL NOTES**

REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE 050	PROJECT 0050-151-225 P101	
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Timmons Group Richmond, Virginia ROADWAY ENGINEER				

**STANDARD TRAFFIC SIGNAL LEGEND**

PLAN ITEM	PLAN SYMBOL	
	PROPOSED	EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)		
Pedestal Pole and Foundation (Std. PF-2)		
Pedestal Pole and Foundation (Std. PA-3)		
Traffic Signal Head w/ Backplate		
Traffic Signal Head w/o Backplate		
Pedestrian Signal Head		
Pedestrian Pushbutton & Sign		
Traffic Signal Sign Mast Arm or Span Wire Mt'd. Pole Mounted		
Emergency Vehicle Pre-emption (EVP) Sensor w/ Conf. Light w/o Conf. Light		
Video Detection Camera 360° Video Detection Camera		
Junction Box (Std. as noted on plans)		
Signal Luminaire (LED as noted on plans) and Arm		
Loop Detector (Size as noted on plans)		
Video Detection Zone (Size as noted on plans)		
Conduit		
Electrical Service Meter Base		
Electrical Service Safety Switch (Disconnect)		
Controller Cabinet Ground Mounted		
Controller Cabinet Pole Mounted		
Master Controller Cabinet Ground Mounted		
Master Controller Cabinet Pole Mounted		
Controller Cabinet & Foundation Std. CF-1		
Controller Cabinet & Foundation Std. CF-3		
Controller Cabinet & Foundation Std. CF-5		
Controller Cabinet & Foundation Std. CF-1		
Master Controller Cabinet & Foundation Std. CF-3		
Master Controller Cabinet & Foundation Std. CF-4		
Uninterruptible Power Supply Cabinet		

LABELS		
Signal Pole or Controller		Proposed Signal Head
Cable and Conduit		Existing Signal Head
Junction Box		Proposed Pedestrian Signal Head
Sign		Existing Pedestrian Signal Head
Video Detection Camera		Signal Phasing
Emergency Preemption Detector		Pedestrian Phasing

1. The Contractor is responsible for obtaining controllers and cabinets through the City of Fairfax. Payment(s) for the controllers and cabinets are required prior to the Contractor receiving the equipment. In order to avoid delays in obtaining the controller and cabinet, the City requires notification and payment three (3) months prior to the start of any construction. The Contractor shall contact the City to arrange for the purchase and pick-up of the controller and cabinet. Two (2) weeks prior to the agreed upon pick-up date, the Contractor shall contact the City to verify equipment availability. The Contractor shall pick-up the controller and cabinet from the City at the City's maintenance yard (Pickett Road Facility). Upon receipt controller and cabinet from City, the Contractor's qualified representative shall wire the cabinet and program and test the phasing of the intersection as shown on the plan. The Contractor shall provide a certification letter to City indicating that the work is in compliance with City standards and is consistent with the phasing as per the signal plan. As part of the installation, the Contractor is responsible for providing the concrete foundation specified as Std. CF-1 and the phone company access compartment shown as CC-2. The Contractor shall furnish and install an approved battery back-up system (Uninterruptible Power Supply/UPS). The UPS assembly (cabinet) shall be Type B and shall mount directly to the controller cabinet.

2. Controller cabinet foundations shall be Std. CF-1 (6/15/2009 revision) to include two 4" conduits and two spare 3" conduits (one to be capped) tied into the JB-S3. The controller cabinet foundation shall have a separate 1-1/4" conduit tied into the power service and a separate 2" conduit tied to COMM JB-S1.

3. All work shall be in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), the current edition of the VDOT Road and Bridge Specifications, the current edition of the VDOT Road and Bridge Standards, and all special provisions. In effect at the time the signal plan is approved. The Contractor is to also perform all work in accordance with the April 2009 and June 2009 Revisions to the Road and Bridge Standards, as applicable. All City of Fairfax requirements related to signal construction are applicable. Coordination with City's Signal staff is required.

4. Five (5) working days prior to commencing traffic signal work at any location in the City of Fairfax, the Contractor shall notify the City in writing with the name, daytime phone numbers, and emergency phone numbers for the Contractor, giving the location of the work site including street names, route numbers, permit number, type, and details of construction and work schedule.

5. The City Engineer, prior to construction, shall verify location of controller cabinet.

6. The traffic signal shall not be placed into flashing or full-color operation without the prior notification and approval from City's Signal Staff. Arrangements shall be made by the City to schedule the City signal field personnel providing a minimum of 72 hours advance notice. New traffic signal installations shall not be placed into color operation on Mondays, Fridays, or days preceding or following holidays, unless directed by the City's Engineer.

7. The Contractor shall have his/her qualified representative present to monitor traffic flow and adjust timings as necessary through a minimum of four consecutive mornings and evening rush hour periods, or as directed by the City Engineer.

8. All right turn overlaps shall be wired to the overlap switch position.

9. For installation of conduits, no open cut will be allowed in the roadway surface.

10. The Contractor shall perform test pits and exercise care in placement of signal pole foundations to preclude utility conflicts. If adjustments in pole locations are required, the Contractor shall notify the City Engineer prior to commencing work.

11. Utilities shown on the plans are not guaranteed to be complete or accurate. The Contractor shall be responsible for ensuring that all utilities within the project limits are identified and located before beginning work. The Contractor shall contact Miss Utility of Virginia at 1-800-522-7001 48 hours prior to any construction activities. Contractor shall coordinate with utility companies as to the location of existing and approved plans of future utility lines. Any disruption of any utility service is the responsibility of the Contractor.

12. Contractor shall not impact existing utilities when installing any component of the proposed signal. Any disruption to utility service shall be at the expense of the Contractor.

13. New LED traffic signal heads and overhead traffic signal signage shall be covered with a durable non-transparent cover upon installation. The Contractor shall maintain covers until the new traffic signal system is operational.

14. No traffic signal shall be placed into operation until the location is 100% complete. This includes any necessary pavement marking and signage adjustment shown on the plans. The Contractor shall notify the permit inspector, who shall notify the City Engineer a minimum of 48 hours prior to placing the signal into operation.

15. All unused wires in the signal heads shall be capped individually with crimp type caps.

16. The Contractor shall label all spare wires in the controller cabinet, in accordance with section 700.04(g) of the VDOT Road and Bridge Specifications.

17. (S) denotes cable to be shielded, (M) denotes metal conduit.

18. Site preparation and grading shall be incidental to signal installation.

19. Trench excavation shall be in accordance with Standard ECI-1.

20. The City of Fairfax will provide signal timings to be implemented for the signal.

21. The Contractor shall be responsible for maintaining electrical service to the controller at all times. The Contractor shall be responsible for all costs associated with maintaining electrical service to the traffic signal. Electrical Service shall be installed with power service company's specifications and shall be equivalent to VDOT's SE-5 or SE-6 specification for an underground service lateral (see signal plans for connection type). The Contractor is responsible for all costs (including hook-up fees) associated with providing electrical service to the traffic signal to meet the criteria set forth by this note at no additional cost to the project and should not be paid for as a separate item. Electrical service shall be metered at the City's discretion.

22. Traffic signal heads shall be cast aluminum. Pedestrian signal head sections shall be cast aluminum. All signal heads and pedestrian heads shall be fabricated to be black in color. City approval of materials is required prior to purchasing materials.

23. Hanger assembly brackets for angled traffic signal heads shall be such that back plates can be installed without alteration or modification.

24. No junction boxes shall be installed in paved shoulder, sidewalk, or multi-purpose trail.

25. Junction box covers shall have the letters "TRAF" cast in the top surface depression for all traffic signal related junction boxes containing cable with less than 50 volts. All other junction box covers shall have "ELEC" cast in the top surface depression.

26. All breakaway poles shall have breakaway fuses.

27. Dimensions used for locating equipment (such as signal head assemblies, signs, cameras, etc.) on mast arms are measured to the center of the symbols used to indicate the equipment.

28. A. Prior to construction and before purchase of any equipment required for signals, the Contractor is to provide the City with shop drawings of all required equipment. Contractor will also provide a list of product data for these items to the City Engineer to ensure that these items meet all current City standards/specifications.

B. Foundation design shall be performed by a structural engineer pursuant to VDOT Road and Bridge Standards. Foundation design shall be approved by City prior to installation.

29. All signal poles, mast arms, and foundations shall be designed to accommodate an additional 5-section head four feet from the tip (free end) of the mast arm and an additional MUTCD R10-12 (30" x 36") sign one foot from the tip (free end) of the mast arm. Contractor shall obtain approval from the City for the signal pole locations and height of arms prior to installation to ensure it meets standards. Signal poles and mast arms shall be additionally black powder coated.

30. Pedestrian pole and foundations shall conform to Standard PF-2. Pedestal Pole (PF-2) shall be 12 ft. in height. Pedestal pole heads shall be mounted in accordance with Std. SMB-3.

31. All Ped. Push buttons shall be mounted in accordance with Standard PA-2. Pedestrian Std. PA-2 shall be oriented to face the crosswalk to which it applies and be visible to a pedestrian standing at the beginning of the crosswalk on each corner. All push buttons shall be ADA type and meet VDOT's requirements.

32. All Pedestrian signals shall be in accordance with Standard SP-8. Mast arms signal heads mountings shall be in accordance with Standard SM-3.

33. Signs mounted on mast arms shall be in accordance with Standard SMD-2.

34. The cost of 2" metal conduit to JB-S2 for system grounding is included in the cost of electric service SE-6 or SE-5 (as shown on the plans).

35. All signal heads shall have polycarbonate high visibility backplates. Backplate hardware shall be stainless steel and black in color.

36. 1/4" Enclosed conductor cable lead in requires 5/8" sawcut.

37. The Contractor shall be responsible for providing and maintaining communication to the controller at all times. The Contractor is responsible for any costs associated with providing communication to the traffic signal. The Contractor shall be responsible for coordinating the location and the installation of the communication circuit conduit(s) to the traffic signal controller cabinet with the designated communication provider. The Contractor shall contact the City (120) days prior to the start of the traffic signal construction to establish the communication provider and to coordinate the communication activities. The cost to provide and connect City Interconnect shall include all time, materials (cables, splicing, etc.), labor, fees, etc., to provide communication from City interface to signals.

38. The 1" metal conduit that is installed as part of the communication circuit (Std. CC-2 on the controller cabinet) shall be terminated into a Std. JB-S1 Junction box located 12" to 24" from the controller cabinet foundation. The 2" conduit from the designated communication provider connection point to the controller cabinet shall be terminated into this JB-S1. The required ground electrode for the communication circuit shall be installed in this JB-S1. The cover shall have "COMM" cast in the depression on top as detailed in the Std. JB-S1. Pull Rope rated at 1,100 lbs. shall be installed in all communication conduits.

39. Maintenance and repair of the traffic signal, once modifications are started, is the sole responsibility of the Contractor until the traffic signal is accepted into the City's traffic signal system.

40. Included in the cost of all conduits shall be the cost of equipment grounding conductor (#6 AWG EGC).

41. The cost of maintenance of traffic on roadway while traffic signal is being installed shall be incidental to the project and not paid for as a separate item.

42. Video detection equipment location shown on plans is approximate. Contractor shall coordinate video detection equipment installation with the City of Fairfax City Engineer to ensure adequate detection is provided on all approaches where video detection zones are shown on the plans. The Contractor shall install video detection devices and cables in accordance with City specification and project special provisions. Coordination with the City of Fairfax is required prior to ordering materials/equipment.

43. Pavement Markings shall be modified to reflect the markings shown on this plan when the signal is installed.

44. The Contractor shall be responsible for maintaining detection on all approaches of the intersection at all times and throughout all phases of construction, at no additional cost to the project.

45. For Preemption Devices:

A. All new traffic signals shall include OPTICOM Emergency Vehicle Preemption (EVP) equipment.

B. The Contractor shall install the OPTICOM EVP system as shown on the plans. The OPTICOM EVP system shall include all optical detectors, detector cables, phase selectors, and discriminators for a functional system.

C. The Contractor shall be responsible for the purchase and installation of the EVP equipment per current adapted State and County specifications.

D. All installed OPTICOM EVP equipment shall be compatible with existing or proposed signal equipment.

E. The Contractor shall install the OPTICOM EVP equipment in accordance with the Manufacturer's Specifications, and the OPTICOM EVP cabling shall be installed in separate conduits and junction boxes between foundations. These separate conduit runs shall house Preemption Detector Cables/Conductors specified by the City.

F. The proposed OPTICOM EVP sequence diagram and timings shall be submitted to the City prior to installation.

G. See Contract/Project Special Provisions for more details.

46. All signal heads, pedestrian signal heads, and PF-2 poles (and associated equipment) shall be fabricated to be black in color (not painted after fabrication). All signal poles shall be powder coated black in color in accordance with City specifications. Contact City of Fairfax for requirements prior to ordering of any materials.

**INDEX OF SHEETS**

Sheet No.	Sheet Description
11(1)	Index of Sheets, General Notes, Legend
11(2)	Summary of Quantities
11(3)	Traffic Signal Plan - Fairfax Blvd. & Warwick Ave./ McLean Ave.
11(4)	Traffic Signal Plan - Fairfax Blvd. & Farr Ave.
11(5)	Overhead Street Name Sign Details

**TRAFFIC CONTROL DEVICE PLANS**

**TRAFFIC SIGNAL INDEX OF SHEETS, GENERAL NOTES & LEGEND(S)**  
CITY OF FAIRFAX

PROJECT 0050-151-225	SHEET NO. 11(1)
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PROJECT MANAGER: CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
 SURVEYED BY, DATE: TIMMONS GROUP (804) 200-6500 8/2020  
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	050	0050-151-225 P101	11(2)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Timmons Group Richmond, Virginia ROADWAY ENGINEER				

**SUMMARY OF QUANTITIES**

TCD Discipline		SIGNALS																																		
Summary Notes																																				
Item Description																																				
ITEM NO. UNIT SHEET NO.																																				
Int. No.	Intersection	50108	51030	51170	51185	51212	51238	51240	51245	51475	51476	51486	51487	51488	51507	51508	51509	51524	51525	51600	51607	51721	51838	51840	51840	51994	51995	51996	52002	52403	55060	55385	55587	55588	56014	
		SF	EA	EA	EA	EA	CY	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
1	Fairfax Blvd & Warwick Ave	TS(3)	87.5	1	1	40	5	28	5	1	2	2	1	1	2	4	785	1	1	745	835	2,600	65	6	2	10	1	1	1	6	6	100	1	3	1	5
2	Fairfax Blvd & Farr Ave	TS(4)	54	1	1	37	7	28	7	1	3	1	1	2	1	4	750	1	1	1,100	1,320	3,100	130	8	2	9	1	1	1	8	8	100	1	3	1	5
<b>TOTAL</b>			141.5	2	2	77	12	56	12	2	5	3	2	3	3	8	1,535	2	2	1,845	2,155	5,700	195	14	4	19	2	2	2	14	14	200	2	6	2	10

TCD Discipline		SIGNALS																																		
Summary Notes																																				
Item Description																																				
ITEM NO. UNIT SHEET NO.																																				
Int. No.	Intersection	56024	56052	56054	56055	56200	56205	57192	57221	59050																										
		LF	LF	LF	LF	LF	EA	EA	EA	EA																										
1	Fairfax Blvd & Warwick Ave	TS(3)	10	280	140	15	150	4	1	1	1																									
2	Fairfax Blvd & Farr Ave	TS(4)	10	300	125	20	125	4	2	1	1																									
<b>TOTAL</b>			20	580	265	35	275	8	3	2	2																									

**TRAFFIC CONTROL DEVICE PLANS**  
**TRAFFIC SIGNAL**  
**SUMMARY OF QUANTITIES**

CITY OF FAIRFAX  
 PROJECT 0050-151-225  
 SHEET NO. 11(2)

SCALE: 0 25' 50'



PROJECT MANAGER: CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
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SUBSURFACE UTILITY BY, DATE: TIMMONS GROUP (804) 200-6500 8/2020

**RW PLANS**

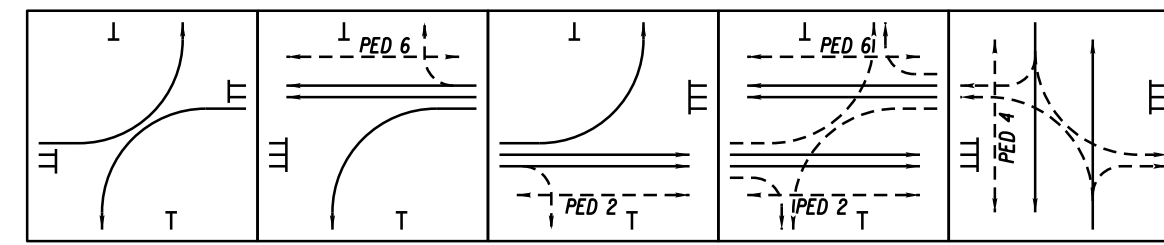
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**Signal Pole & Controller Legend**

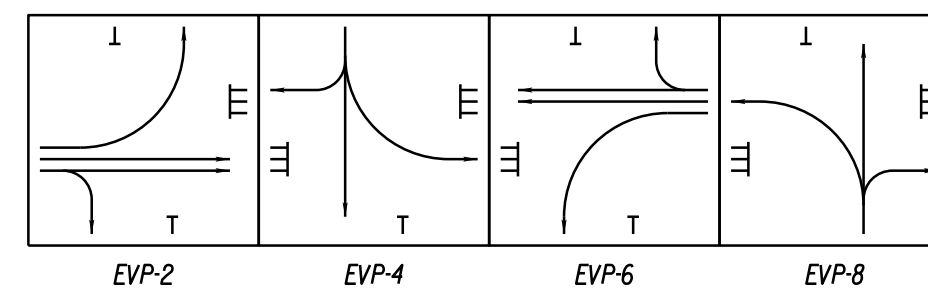
(ALL DIMENSIONS ARE TO CENTER OF POLE)

- Ⓐ CONTROLLER CABINET & FOUNDATION (CF-1)  
Cabinet door hinge located on right side of pad.
- Ⓑ MAST ARM POLE (MP-3), TYPE BI  
44.7' LT. of Fairfax Blvd Constr. @ Sta.101+69  
60' Arm Perpendicular to Fairfax Blvd  
Signal Placement: 28', 39', 50'  
Sign Placement: 15', 53'  
Emergency Preemption Detector: 33'  
Video Detector: 42.5'  
Install Wireless Broadband Antenna on Base Pole.
- Ⓒ MAST ARM POLE (MP-3), TYPE A  
40.8' LT. of Fairfax Blvd Constr. @ Sta.102+52  
49' Arm Parallel to Fairfax Blvd  
Signal Placement: 14', 37.5', 45.5'  
Sign Placement: 26'  
Emergency Preemption Detector: 3', 8'  
Video Detector: 41.5'
- Ⓓ MAST ARM POLE (MP-3), TYPE BI  
57.2' RT. of Fairfax Blvd Constr. @ Sta.102+73  
60' Arm Perpendicular to Fairfax Blvd  
Signal Placement: 19.5', 30.5', 45'  
Sign Placement: 7', 48'  
Emergency Preemption Detector: 34'  
Video Detector: 40'
- Ⓔ MAST ARM POLE (MP-3), TYPE A  
58.5' RT. of Fairfax Blvd Constr. @ Sta.101+68  
40' Arm Parallel to Fairfax Blvd  
Signal Placement: 24', 32', 39'  
Sign Placement: 7'  
Video Detector: 28'
- Ⓕ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Heads, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuators, PA-2, on Pedestal Pole
- Ⓖ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuation, PA-2, on Pedestal Pole
- Ⓗ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuation, PA-2, on Pedestal Pole
- Ⓙ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuation, PA-2, on Pedestal Pole
- Ⓚ SE-5 ELECTRICAL SERVICE POLE

**Phasing Diagram**



**Preemption Diagram**



**Color Sequence Chart**

SIGNAL	PHASES					FLASH
	1-5	1-6	2-5	2-6	4-8	
1	R	G				Y
2			G	G		Y
4					G	R
5	R	G				Y
6			G	G		Y
8					G	R
P2	DW	DW	W	W	DW	BLANK
P4	DW	DW	DW	DW	W	BLANK
P6	DW	W	DW	W	DW	BLANK

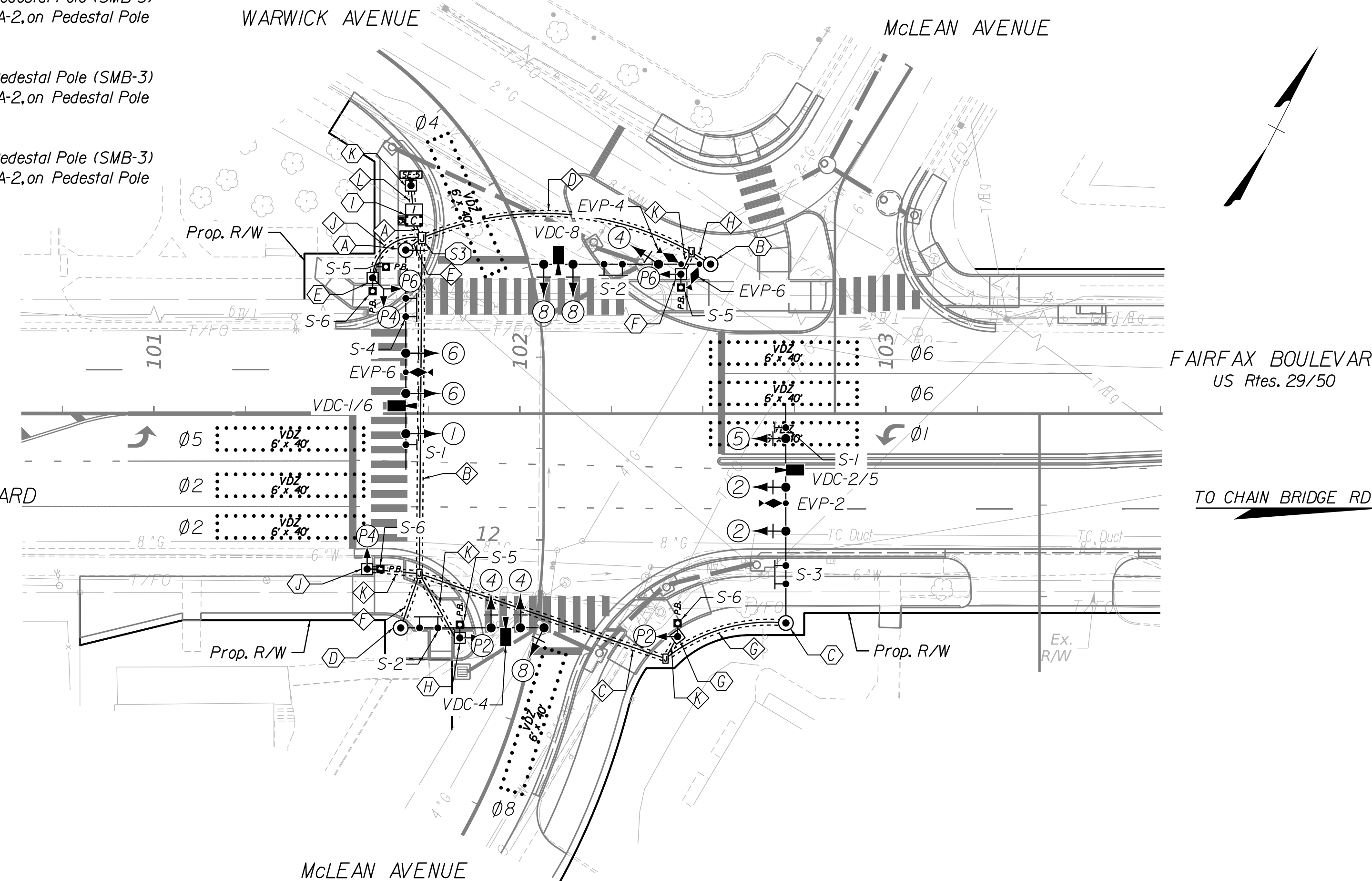
- Empty Box denotes RED indication (Red Ball or Red Arrow as appropriate)  
- Pedestrian signals shall display the don't walk symbol during emergency preemption activation.

**JUNCTION BOX LEGEND**  
All Junction Boxes shall conform to S1'd, JB-S2 unless otherwise noted on the plans.  
Ⓢ Denotes S1'd, JB-S3

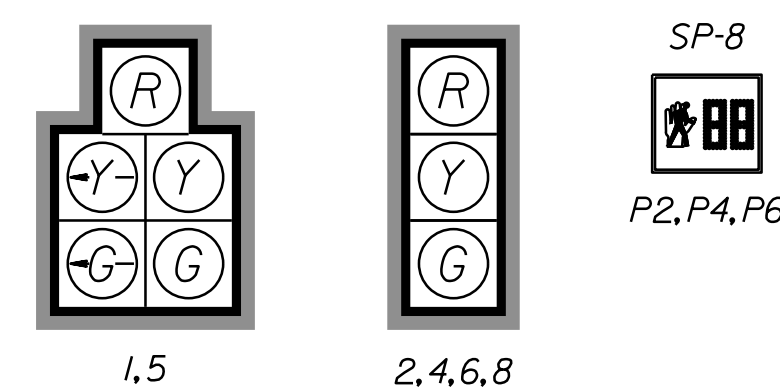
SPEED LIMITS	
Fairfax Blvd.	35 MPH
Warwick Ave.	25 MPH
McLean Ave.	25 MPH

**CABLE AND CONDUIT LEGEND**

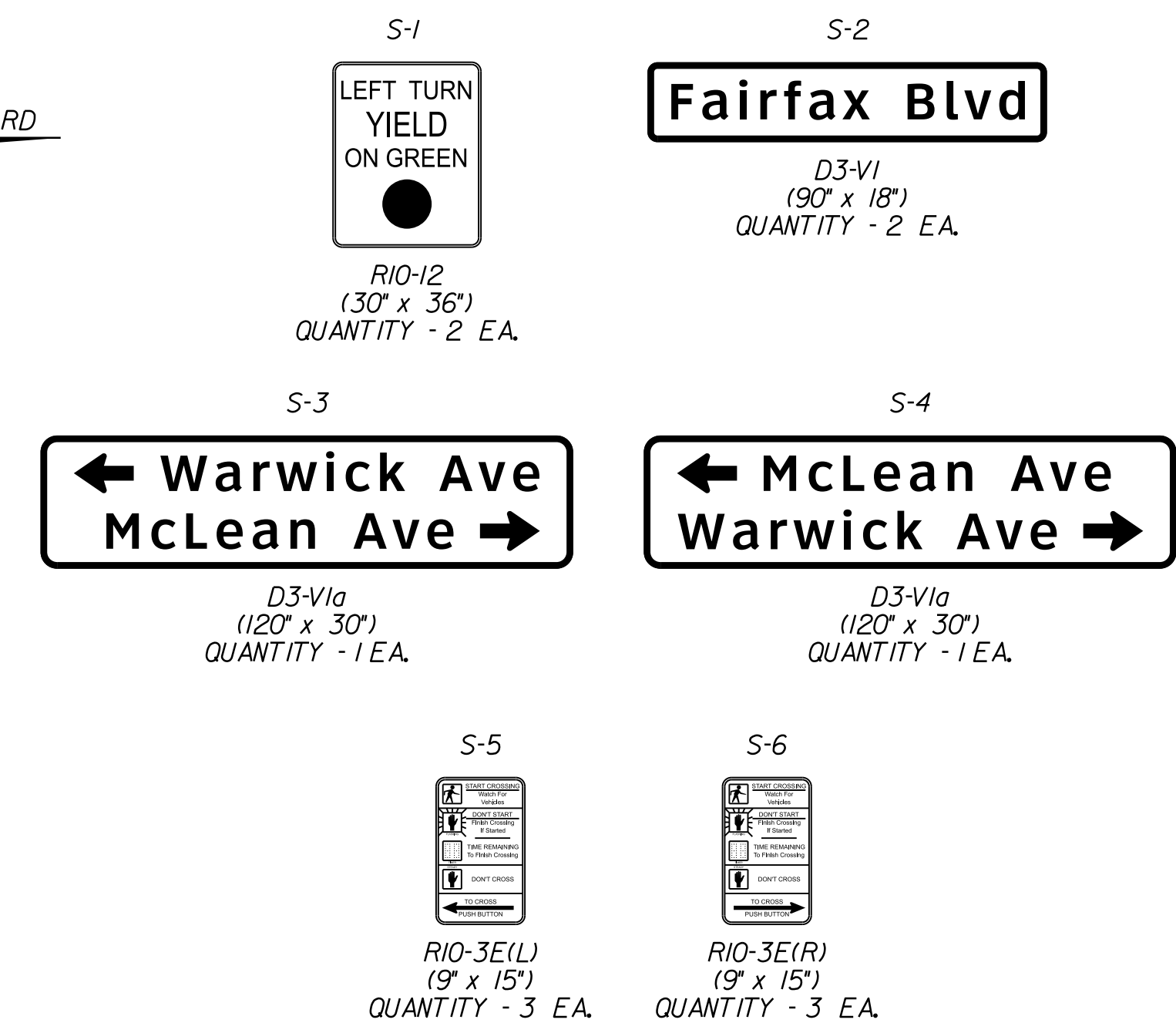
- Ⓐ 1- 4" Conduit  
8 - 14/7c (Signal Heads)  
6 - 14/7c (Ped. Heads)  
1 - EGC
- Ⓑ 1- 4" Conduit  
6 - 14/2c (PB)  
4 - CAT5 (Video)  
1 - CAT5 (Antenna)  
4 - EPDC
- Ⓒ 1- 3" Conduit (Spare)  
1 - EGC
- Ⓓ 1- 4" Bored Conduit  
4 - 14/7c (Signal Heads)  
3 - 14/7c (Ped. Heads)  
3 - 14/2c (PB)  
2 - CAT5 (Video)  
1 - EPDC  
1 - EGC
- Ⓔ 1- 4" Bored Conduit  
2 - 14/7c (Signal Heads)  
1 - 14/7c (Ped. Heads)  
1 - 14/2c (PB)  
1 - CAT5 (Video)  
1 - EPDC  
1 - EGC
- Ⓕ 1- 4" Bored Conduit  
2 - 14/7c (Signal Heads)  
1 - 14/7c (Ped. Heads)  
1 - 14/2c (PB)  
1 - CAT5 (Video)  
2 - EPDC  
1 - EGC
- Ⓖ 1- 3" Conduit  
2 - 14/7c (Signal Heads)  
1 - EPDC  
1 - CAT5 (Antenna)  
1 - EGC
- Ⓗ 1- 3" Conduit  
2 - 14/7c (Signal Heads)  
1 - EPDC  
1 - CAT5 (Video)  
1 - EGC
- Ⓙ 1- 3" Conduit  
2 - 14/7c (Signal Heads)  
2 - EPDC  
1 - CAT5 (Video)  
1 - EGC
- Ⓚ 1- 3" Conduit  
2 - 14/7c (Ped. Heads)  
2 - 14/2c (PB)  
1 - EGC
- Ⓛ 1- 1 1/4" Metal Conduit  
3 - EGC for Elec. Service



**Proposed Signals**



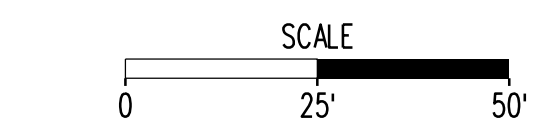
**Proposed Signs**



**REFERENCES**  
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	3
Lighting Plan Sheet	10(3)

**TRAFFIC CONTROL DEVICE PLANS**  
**TRAFFIC SIGNAL PLAN**  
US RTES. 29/50 (FAIRFAX BLVD.) &  
WARWICK AVE. / McLEAN AVE.  
CITY OF FAIRFAX



PROJECT: 0050-151-225  
SHEET NO.: 11(3)

PROJECT MANAGER: CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
 SURVEYED BY, DATE: TIMMONS GROUP (804) 200-6500 8/2020  
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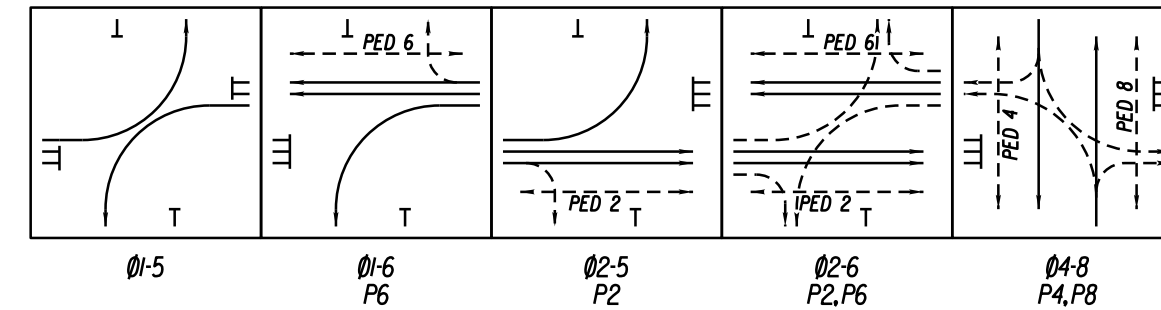
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**Signal Pole & Controller Legend**

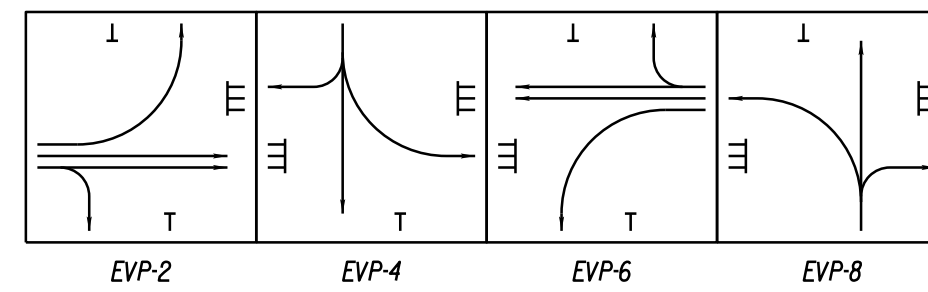
(ALL DIMENSIONS ARE TO CENTER OF POLE)

- ① CONTROLLER CABINET & FOUNDATION (CF-1)  
Cabinet door hinge located on right side of pad.
- Ⓐ MAST ARM POLE (MP-3), TYPE A  
40.3' LT. of Fairfax Blvd Constr. @ Sta.108+47  
40' Arm Parallel to Fairfax Blvd  
Signal Placement: 27', 35'  
Sign Placement: 12'  
Video Detector: 31'  
Install Wireless Broadband Antennas on Base Pole.
- Ⓑ MAST ARM POLE (MP-3), TYPE A  
54.5' RT. of Fairfax Blvd Constr. @ Sta.108+48  
49' Arm Perpendicular to Fairfax Blvd  
Signal Placement: 19.5', 30.5', 45'  
Sign Placement: 7', 48'  
Emergency Preemption Detector: 34'  
Video Detector: 40'
- Ⓒ MAST ARM POLE (MP-3), TYPE A  
58.4' RT. of Fairfax Blvd Constr. @ Sta.107+61  
49' Arm Parallel to Fairfax Blvd  
Signal Placement: 36.5', 44.5', 44.5'  
Sign Placement: 9'  
Emergency Preemption Detector: 40.5', 48'  
Video Detector: 33'
- Ⓓ MAST ARM POLE (MP-3), TYPE B1  
46.6' LT. of Fairfax Blvd Constr. @ Sta.107+74  
60' Arm Perpendicular to Fairfax Blvd  
Signal Placement: 24', 35', 46'  
Sign Placement: 7', 49'  
Emergency Preemption Detector: 29'  
Video Detector: 39'
- Ⓔ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuation, PA-2, on Pedestal Pole
- Ⓝ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuation, PA-2, on Pedestal Pole
- Ⓞ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuation, PA-2, on Pedestal Pole
- Ⓟ PEDESTAL POLE (PF-2), 12'  
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)  
Install Accessible Pedestrian Actuation, PA-2, on Pedestal Pole
- Ⓠ SE-5 ELECTRICAL SERVICE POLE

**Phasing Diagram**



**Preemption Diagram**



**Color Sequence Chart**

SIGNAL	PHASES					FLASH
	1-5	1-6	2-5	2-6	4-8	
1	R	G		G		Y
2			G	G		Y
4					G	R
5	R	G	G	G		Y
6		G		G		Y
8					G	R
P2	DW	DW	W	W	DW	BLANK
P4	DW	DW	DW	DW	W	BLANK
P6	DW	W	DW	W	DW	BLANK
P8	DW	DW	DW	DW	W	BLANK

- Empty Box denotes RED Indication (Red Ball or Red Arrow as appropriate)  
 - Pedestrian signals shall display the don't walk symbol during emergency preemption activation.

**JUNCTION BOX LEGEND**  
 All Junction Boxes shall conform to Std. JB-S2 unless otherwise noted on the plans.  
 Ⓢ Denotes Std. JB-S3

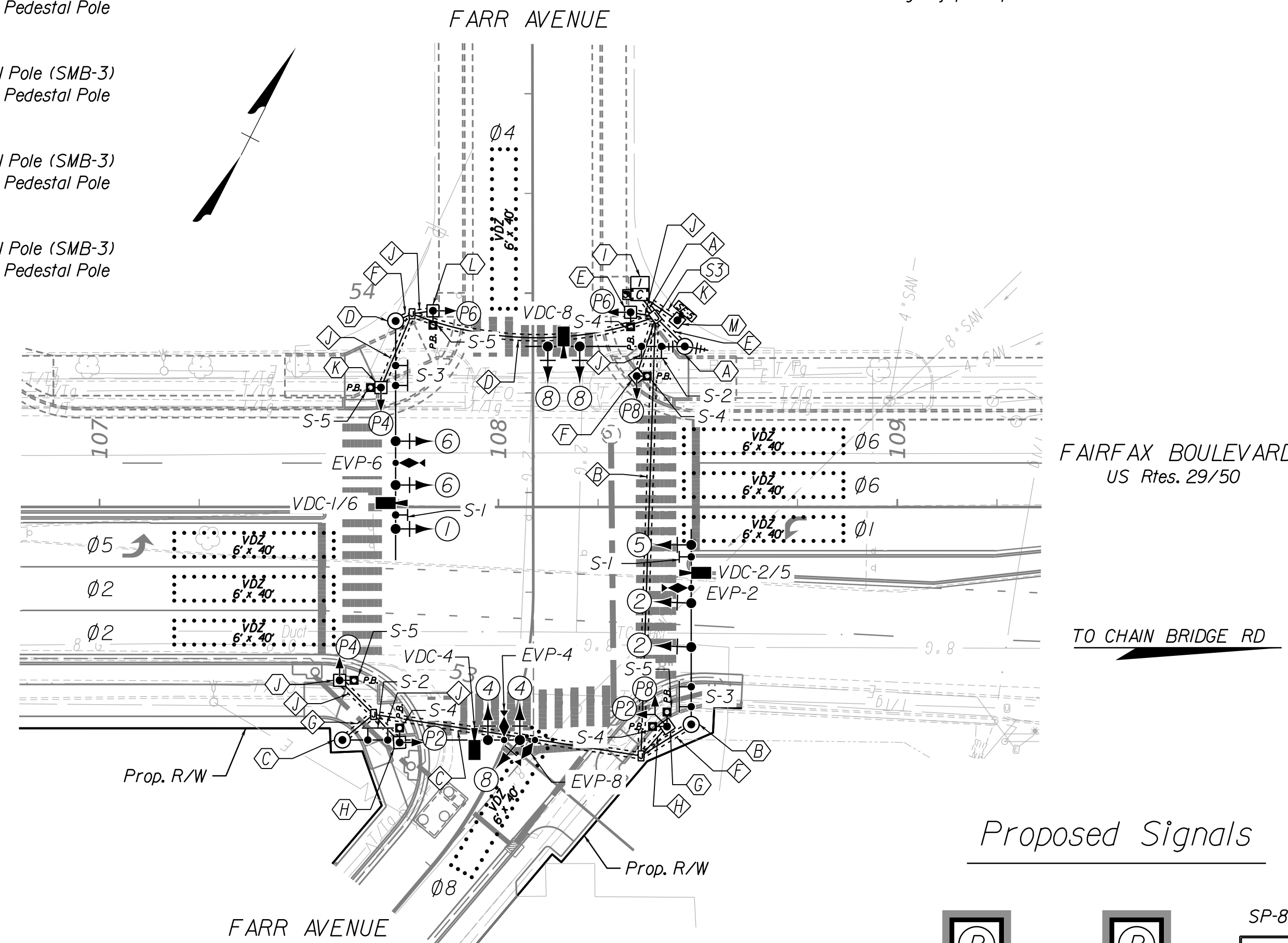
**SPEED LIMITS**

Fairfax Blvd.	35 MPH
Farr Ave.	25 MPH

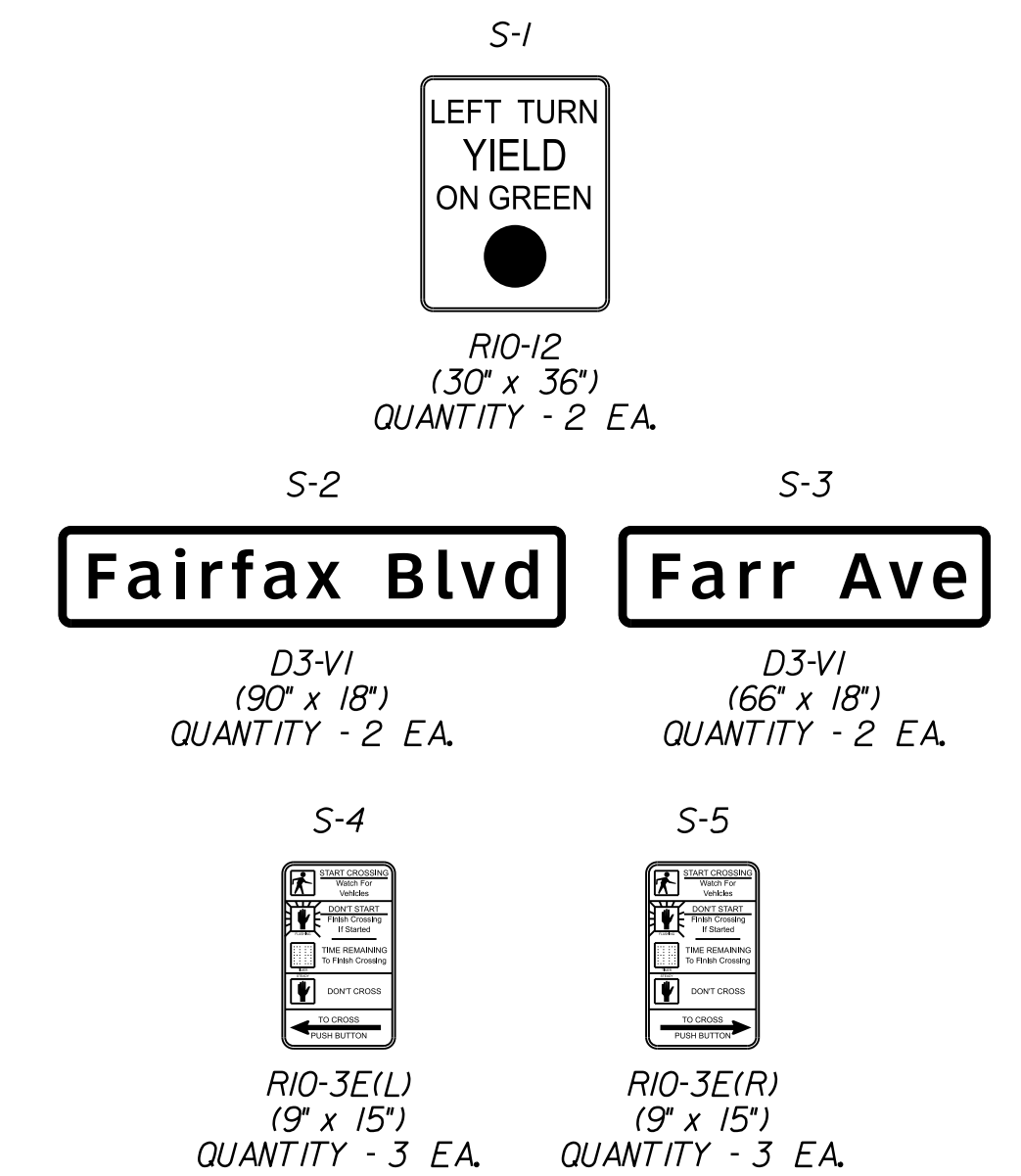
**CABLE AND CONDUIT LEGEND**

- Ⓐ 1- 4" Conduit  
7 - 14/7c (Signal Heads)  
8 - 14/7c (Ped. Heads)  
1 - EGC
- Ⓑ 1- 4" Conduit  
8 - 14/2c (PB)  
4 - CAT 5 (Video)  
2 - CAT 5 (Antenna)  
4 - EPDC  
1 - EGC
- Ⓒ 1- 3" Conduit (Spare)  
1 - EGC
- Ⓓ 1- 4" Bored Conduit  
4 - 14/7c (Signal Heads)  
4 - 14/7c (Ped. Heads)  
4 - 14/2c (PB)  
2 - CAT 5 (Video)  
3 - EPDC  
1 - EGC
- Ⓔ 1- 4" Bored Conduit  
2 - 14/7c (Signal Heads)  
2 - 14/7c (Ped. Heads)  
2 - 14/2c (PB)  
1 - CAT 5 (Video)  
1 - EPDC  
1 - EGC
- Ⓝ 1- 3" Conduit  
2 - 14/7c (Signal Heads)  
2 - EPDC  
1 - CAT 5 (Video)  
1 - EGC
- Ⓞ 1- 3" Conduit  
2 - 14/7c (Signal Heads)  
2 - 14/2c (PB)  
1 - EGC
- Ⓟ 1- 3" Conduit  
2 - 14/7c (Ped. Heads)  
2 - 14/2c (PB)  
1 - EGC
- Ⓠ 1- 3" Conduit  
1 - 14/7c (Ped. Heads)  
1 - 14/2c (PB)  
1 - EGC
- Ⓡ 1- 1/4" Metal Conduit  
3 - EGC for Elec. Service

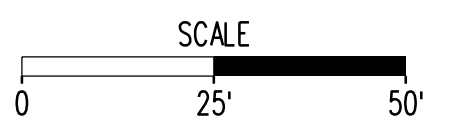
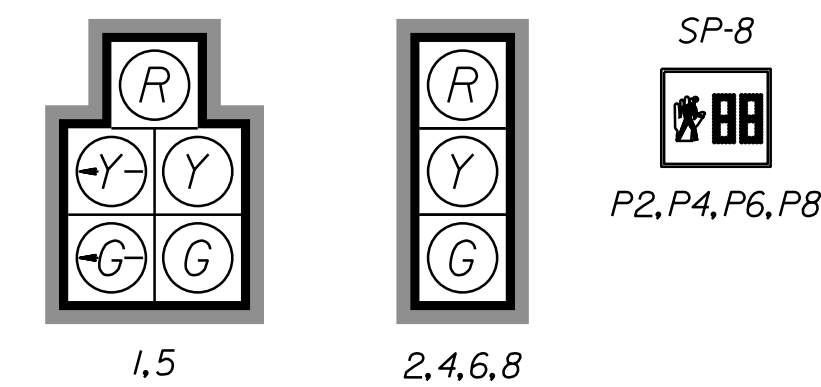
(PB) Denotes "Push Button"  
 EPDC Denotes "Emergency Preemption Detector Cable"  
 EGC Denotes "Equipment Grounding Conductor" (#6 AWG)



**Proposed Signs**



**Proposed Signals**



REFERENCES (PLAN AND DETAIL SHEETS)		TRAFFIC CONTROL DEVICE PLANS TRAFFIC SIGNAL PLAN US RTES. 29/50 (FAIRFAX BLVD.) & FARR AVE. CITY OF FAIRFAX	
Roadway Plan Sheet	4	PROJECT	0050-151-225
Lighting Plan Sheet	10(4)	SHEET NO.	11(4)

PROJECT MANAGER: CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
 SURVEYED BY, DATE: TIMMONS GROUP (804) 200-6500 8/2020  
 DESIGN BY: TIMMONS GROUP (804) 200-6500  
 SUBSURFACE UTILITY BY, DATE: TIMMONS GROUP (804) 200-6500 8/2020

**RW PLANS**

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REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	050	0050-151-225	P101	11(5)

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

Timmons Group  
Richmond, Virginia  
ROADWAY ENGINEER

**SIGN DETAIL**  
1:25

SIGN NUMBER	S-4, SHEET 11(3)
WIDTH x HIGHT.	10'-0" x 2'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	3.75"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGENDBORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WD	HT
AR_Type D	90	7.5	17	9	13.5
AR_Type D	270	99	4	9	13.5

Panel Style: D3-Via - 120 x 30 - Blue.sst  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE		
M	c	L	e	a	n		A	v	e				ClearviewHwy-5-W	
27	37.2	45	51.8	60	68.5		82.7	91.5	99.3				78.2	8/6.5
W	a	r	w	i	c	k		A	v	e			ClearviewHwy-5-W	
7.7	20.1	28.6	33.7	45	49.4	57.2		70.5	79.3	87.2			85.4	8/6.5

**SIGN DETAIL**  
1:25

SIGN NUMBER	S-3, SHEET 11(3)
WIDTH x HIGHT.	10'-0" x 2'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	3.75"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGENDBORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WD	HT
AR_Type D	90	7.5	17	9	13.5
AR_Type D	270	99	4	9	13.5

Panel Style: D3-Via - 120 x 30 - Blue.sst  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE		
W	a	r	w	i	c	k		A	v	e			ClearviewHwy-5-W	
27	39.5	48	53.1	64.3	68.7	76.5		89.8	98.6	106.5			85.4	8/6.5
M	c	L	e	a	n		A	v	e				ClearviewHwy-5-W	
14.8	25	32.8	39.7	47.8	56.3		70.5	79.3	87.2				78.2	8/6.5

**SIGN DETAIL**  
1:25

SIGN NUMBER	S-2
WIDTH x HIGHT.	7'-6" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGENDBORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WD	HT

Panel Style: D3-V1 - 90 x 18 - Blue.sst  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE		
F	a	i	r	f	a	x		B	l	v	d		ClearviewHwy-5-W	
5.1	12.1	20.5	25.2	30.6	36.2	43.7		58.4	67.2	71.2	79		79.7	8/6.5

**SIGN DETAIL**  
1:25

SIGN NUMBER	S-3, SHEET 11(4)
WIDTH x HIGHT.	5'-6" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGENDBORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WD	HT

Panel Style: D3-V1 - 66 x 18 - Blue.sst  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE		
F	a	r	r		A	v	e						ClearviewHwy-5-W	
5.2	12.2	20.7	26.7		38.3	47.1	54.9						55.6	8/6.5

**TRAFFIC CONTROL DEVICE PLANS**  
**TRAFFIC SIGNAL**  
**SIGN FIGURE DETAILS**

CITY OF FAIRFAX

PROJECT  
0050-151-225

SHEET NO.  
11(5)

PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
DESIGN BY \_ TIMMONS GROUP (804) 200-6500 \_  
SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

**RW PLANS**

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# CROSS SECTION INDEX OF SHEETS

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

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	050	0050-151-225 P101	XS-01

*Sheet No. 1*  
*Sheet No. 2 - 14*  
*Sheet No. 15*  
*Sheet No. 16 - 17*  
*Sheet No. 18*

*Cross Section Index of Sheets*  
*Fairfax Boulevard*  
*Warwick - McLean*  
*Warwick West*  
*Farr Avenue*



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
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SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

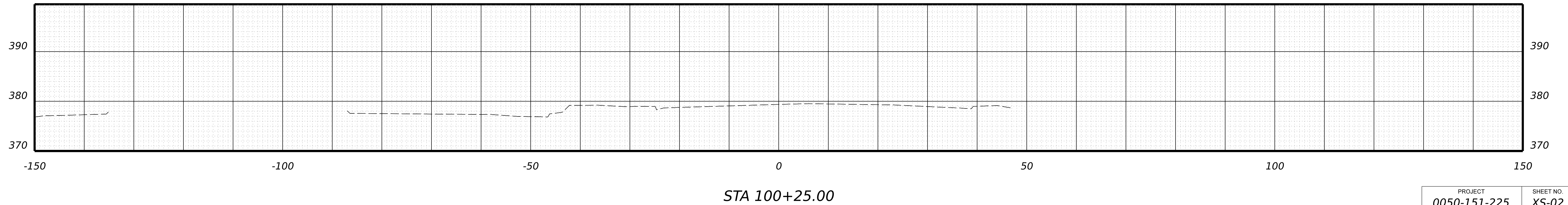
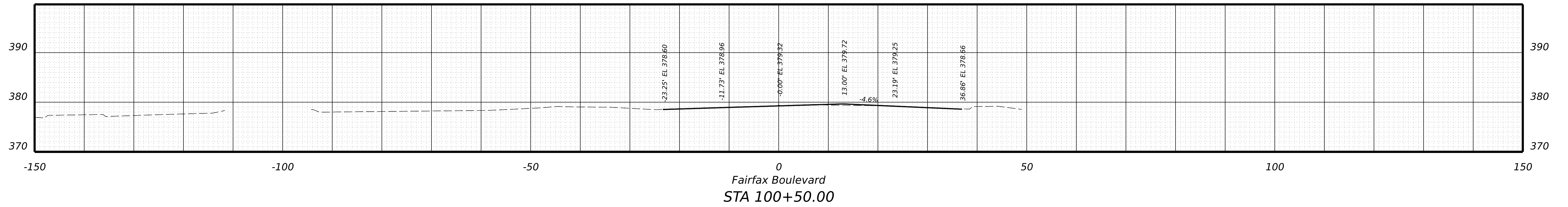
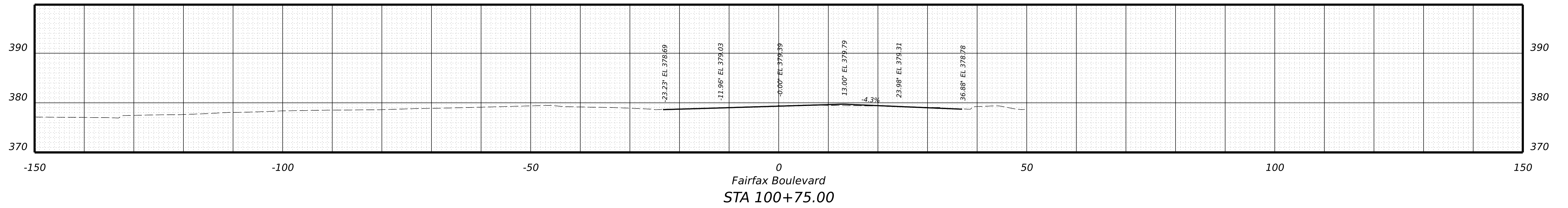
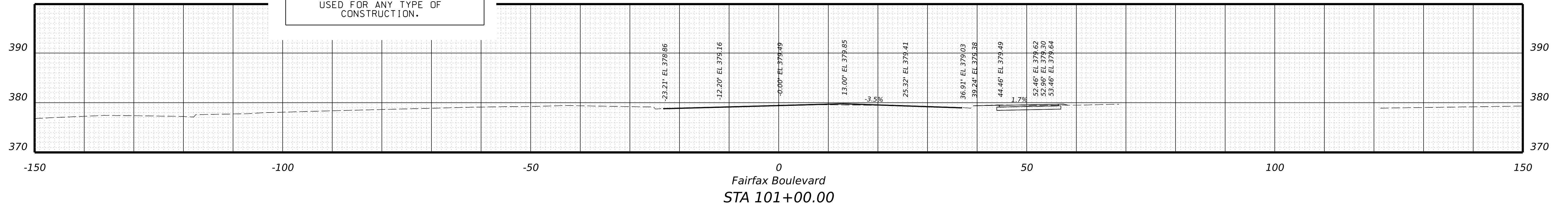
**RW PLANS**

**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-02

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DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

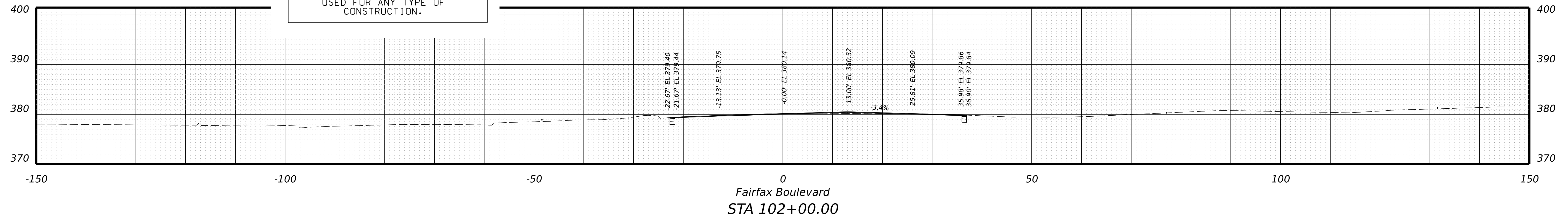
**RW PLANS**

**CROSS SECTIONS**  
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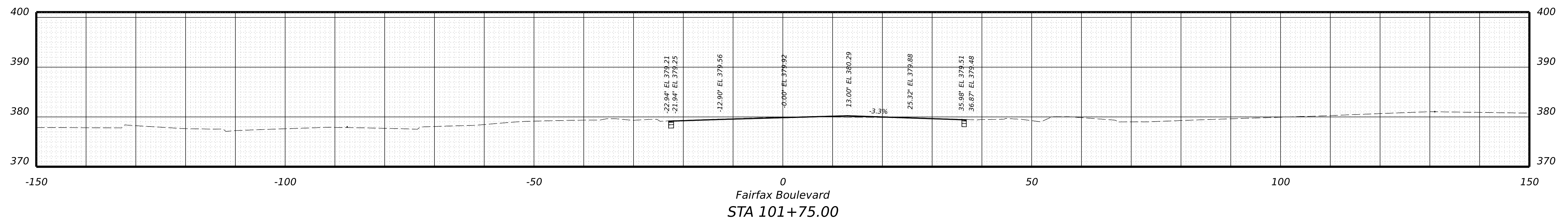
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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-03

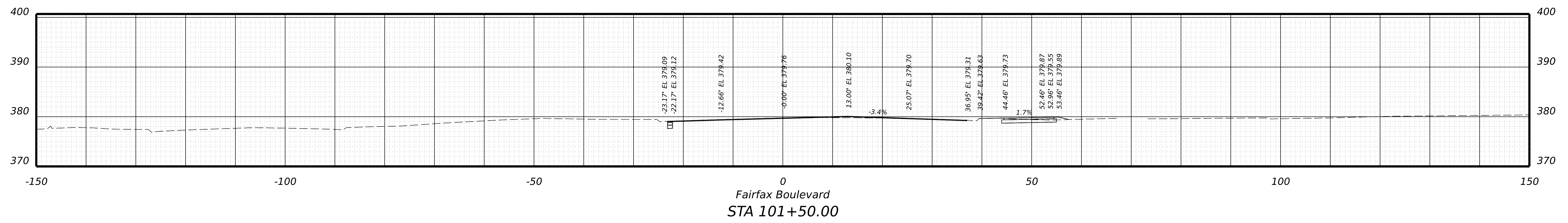
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



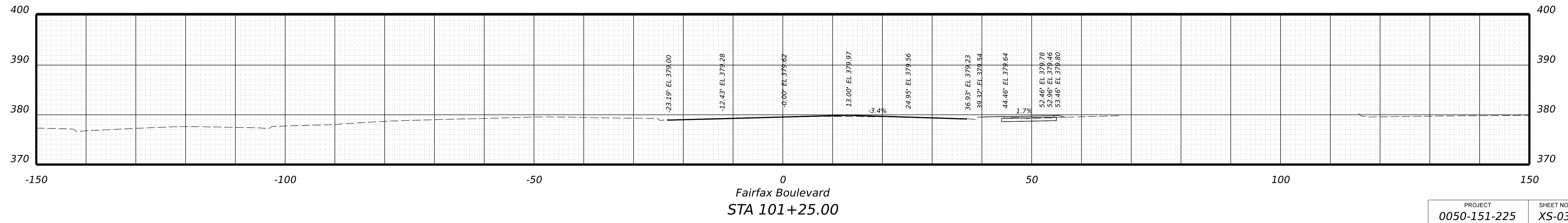
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STA 102+00.00



Fairfax Boulevard  
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Fairfax Boulevard  
STA 101+50.00



Fairfax Boulevard  
STA 101+25.00



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
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**RW PLANS**

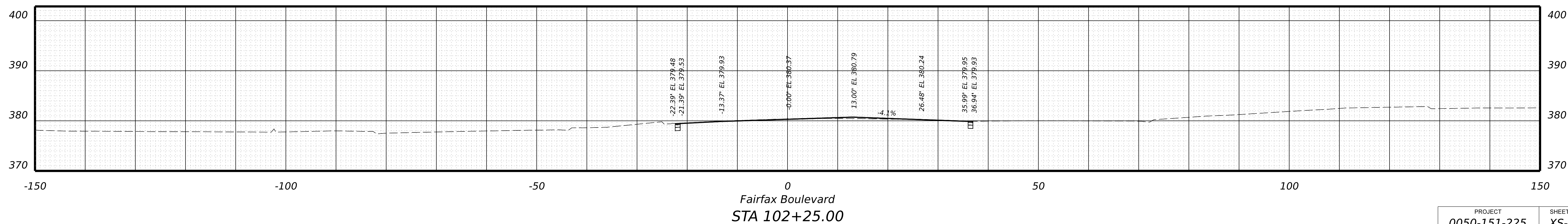
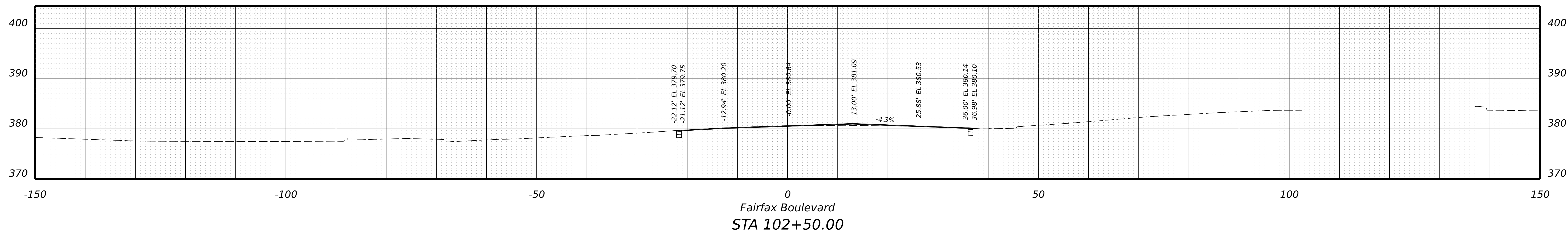
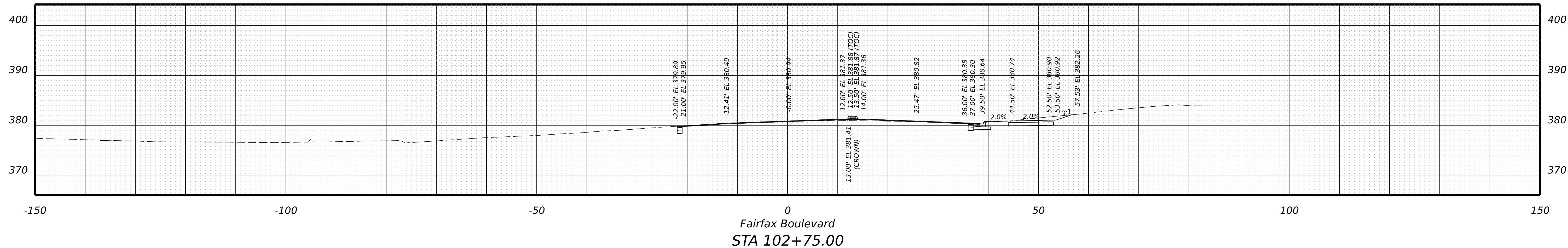
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**CROSS SECTIONS**

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-04



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SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

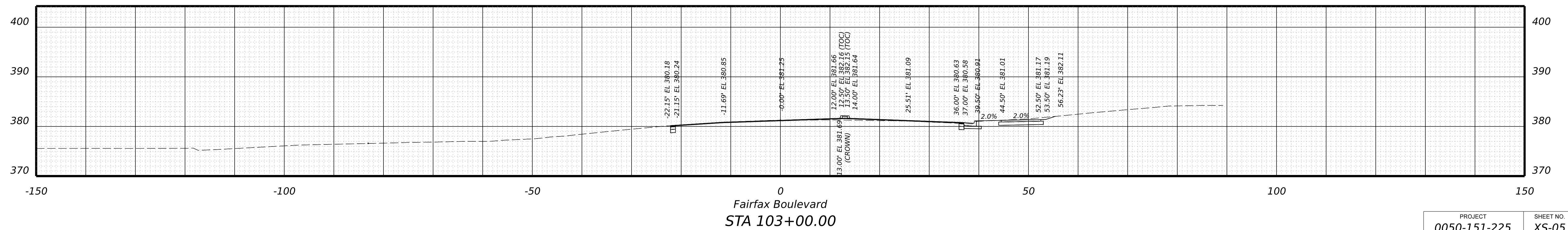
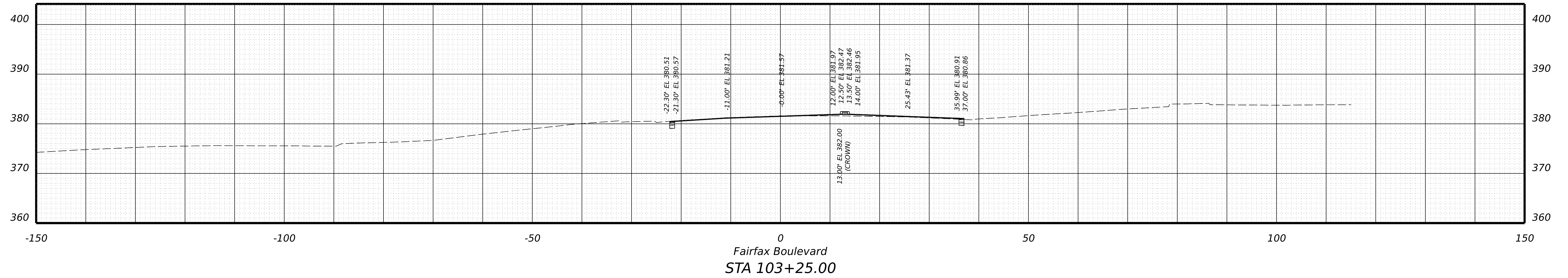
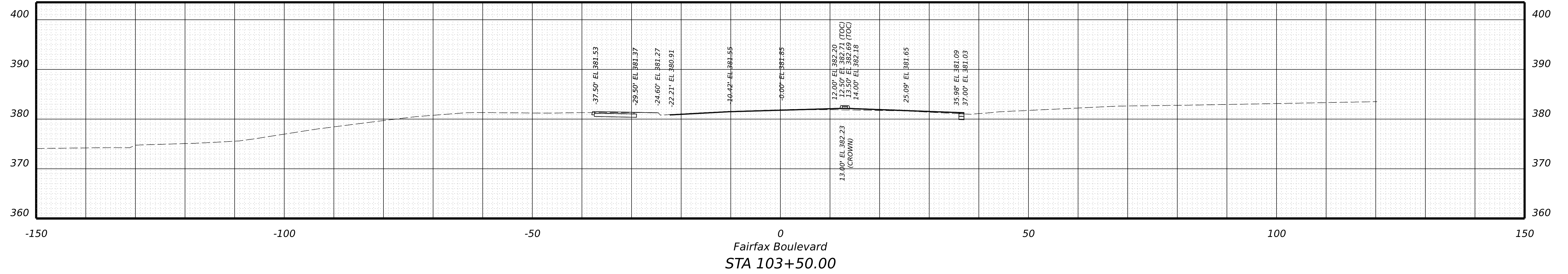
**RW PLANS**

**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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	VA.	050		0050-151-225 P101	XS-05

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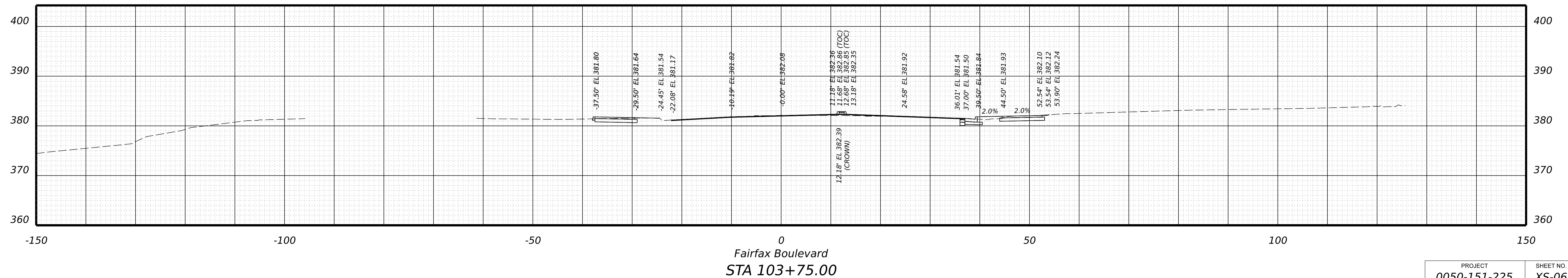
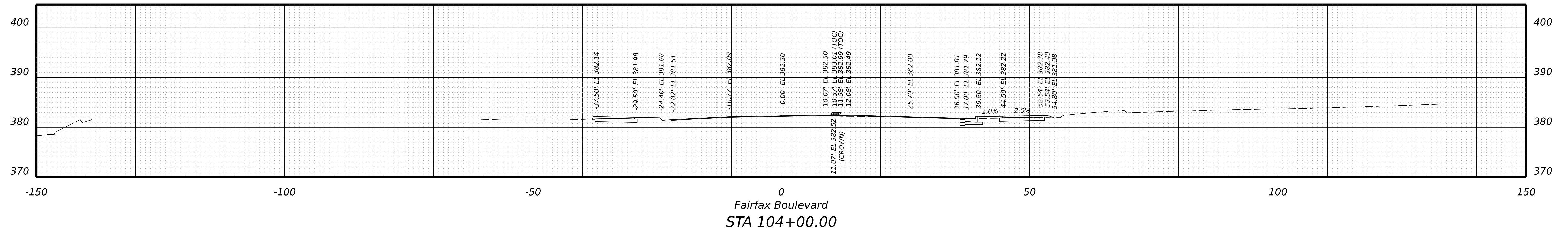
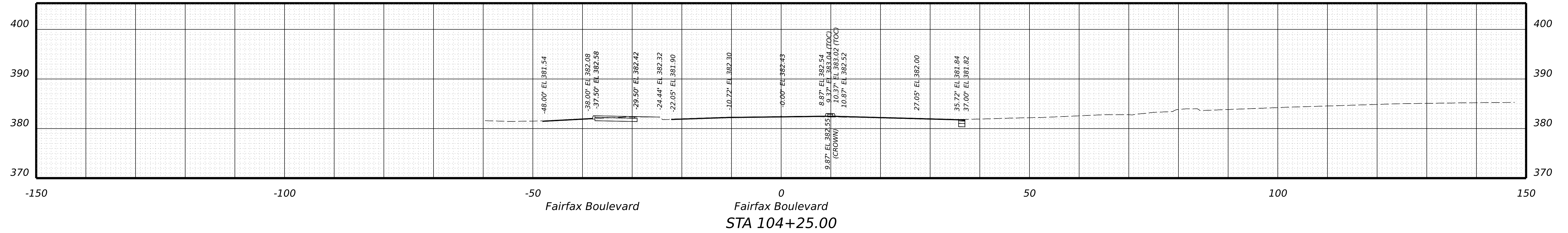
**RW PLANS**

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**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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	VA.	050	0050-151-225 P101	XS-06





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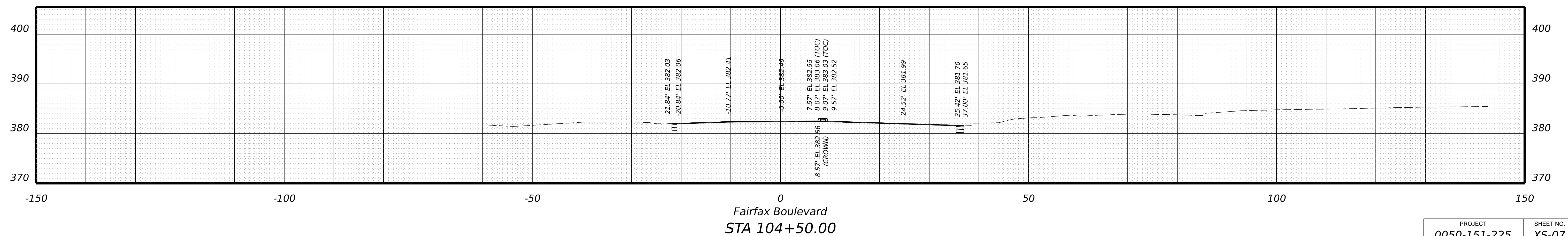
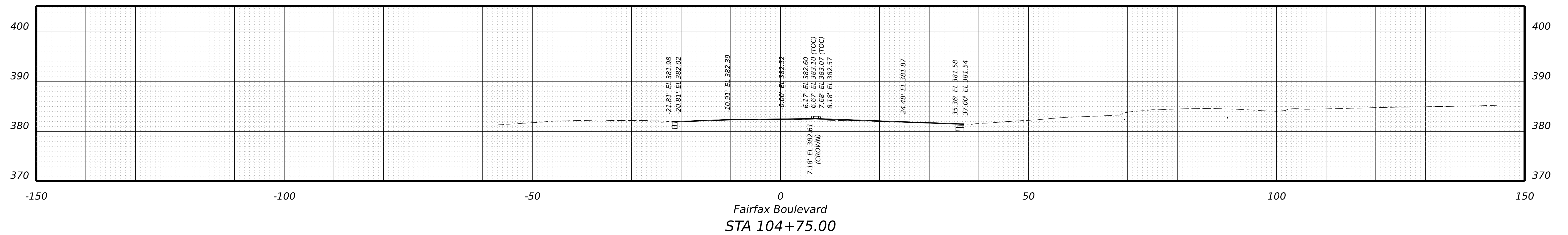
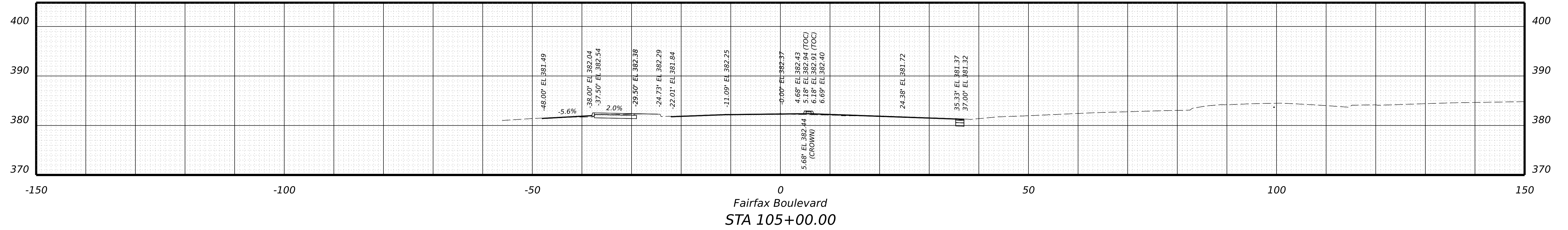
**RW PLANS**

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**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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REVISED	STATE	STATE		SHEET NO.
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	VA.	050	0050-151-225 P101	XS-07



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
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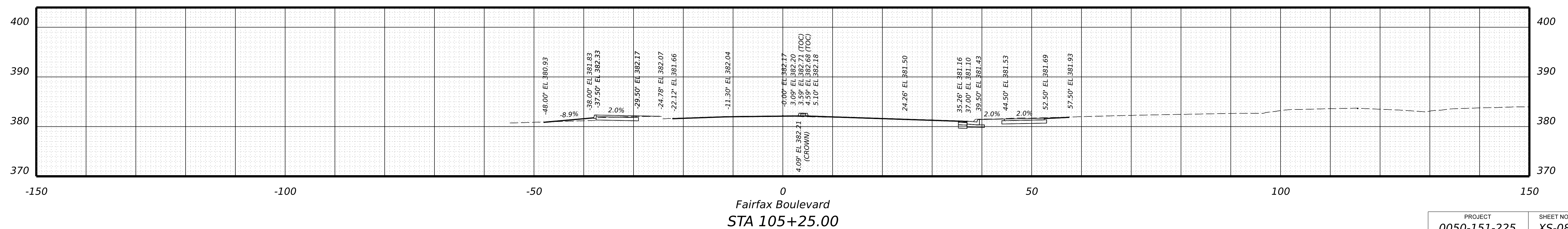
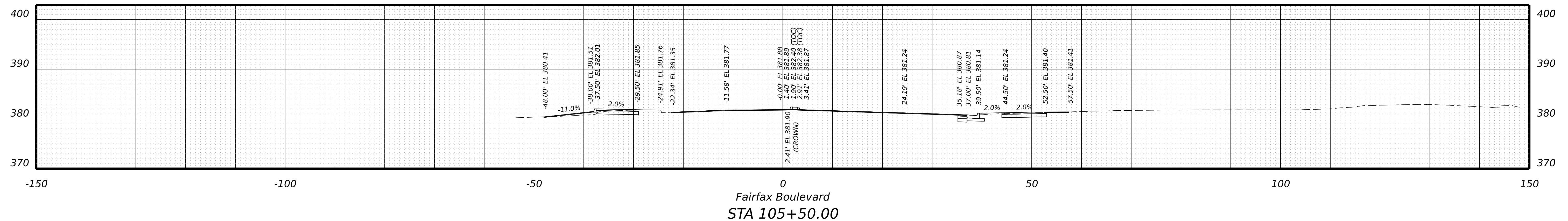
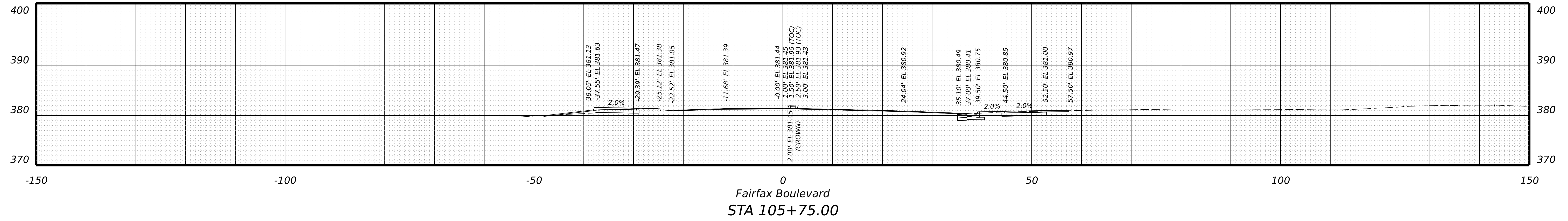
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**CROSS SECTIONS**  
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	VA.	050	0050-151-225 P101	XS-08



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
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SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

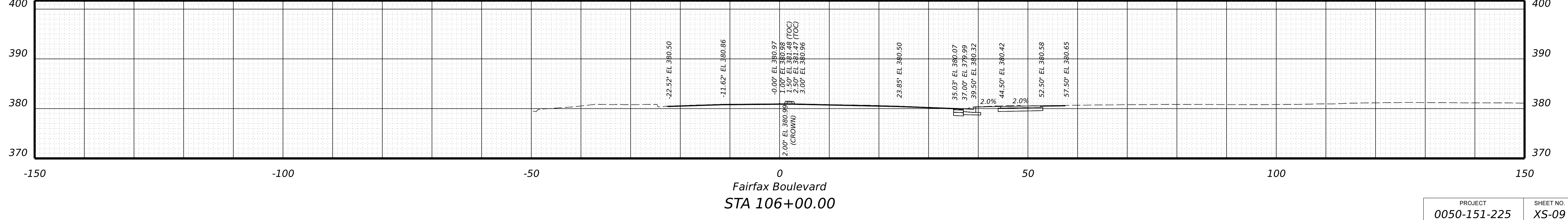
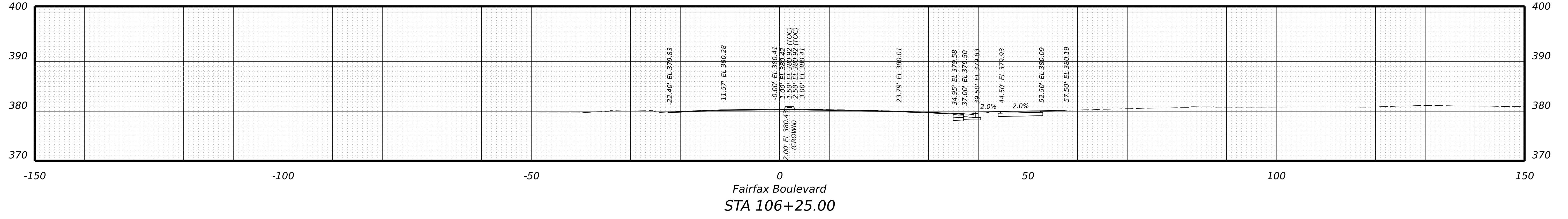
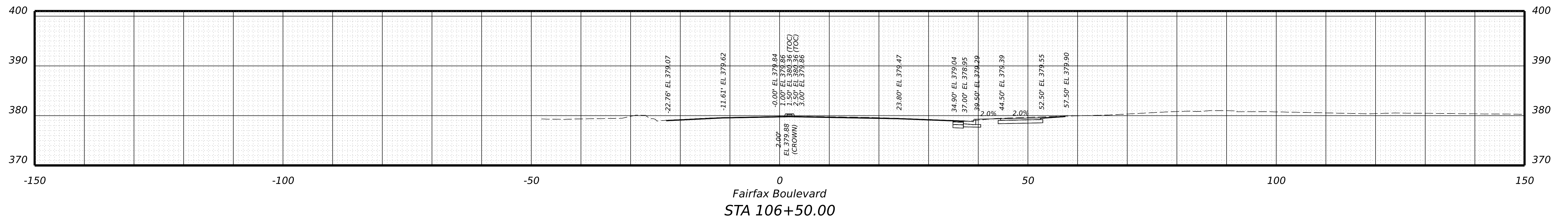
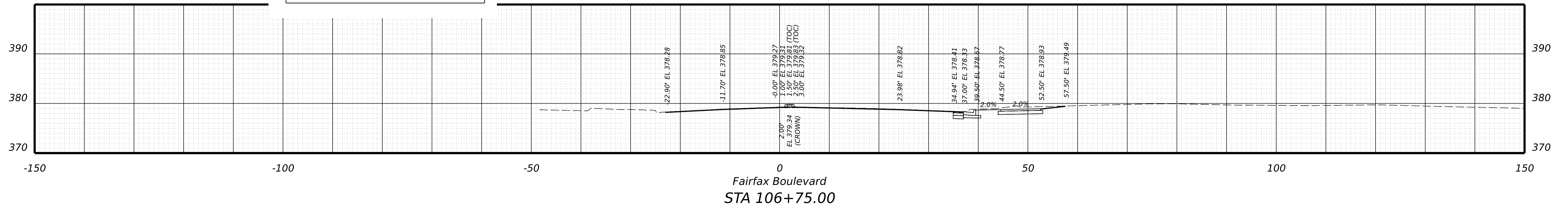
**RW PLANS**

**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-09

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DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
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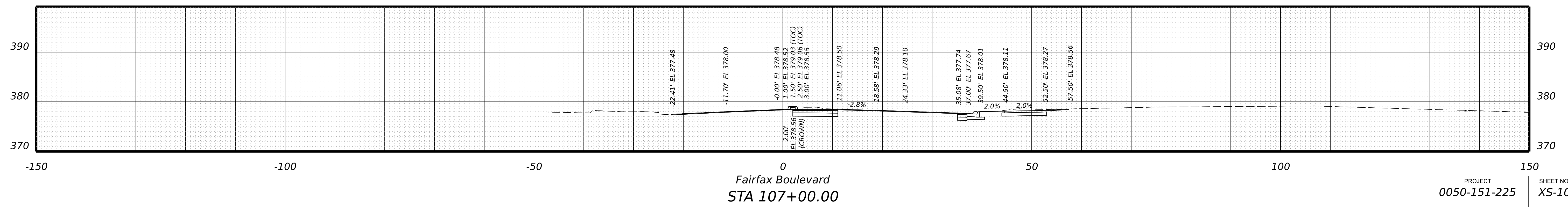
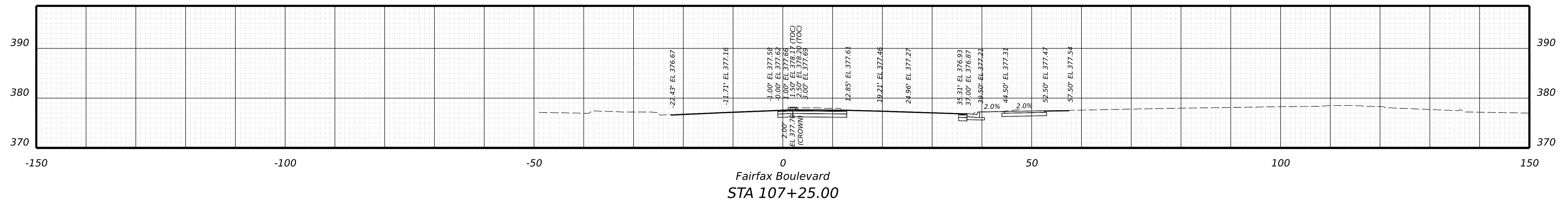
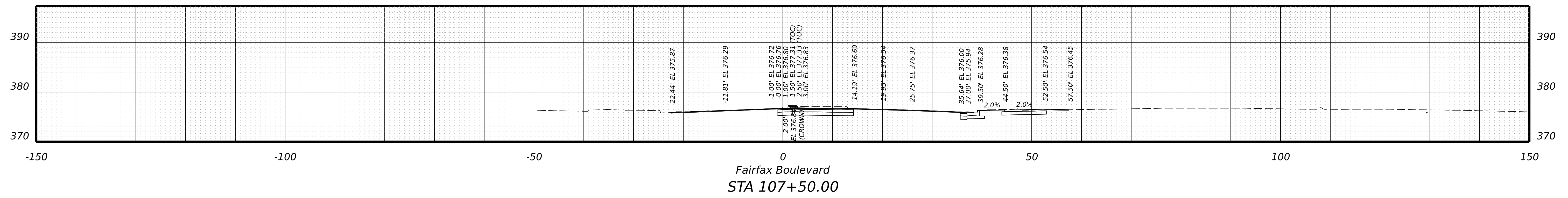
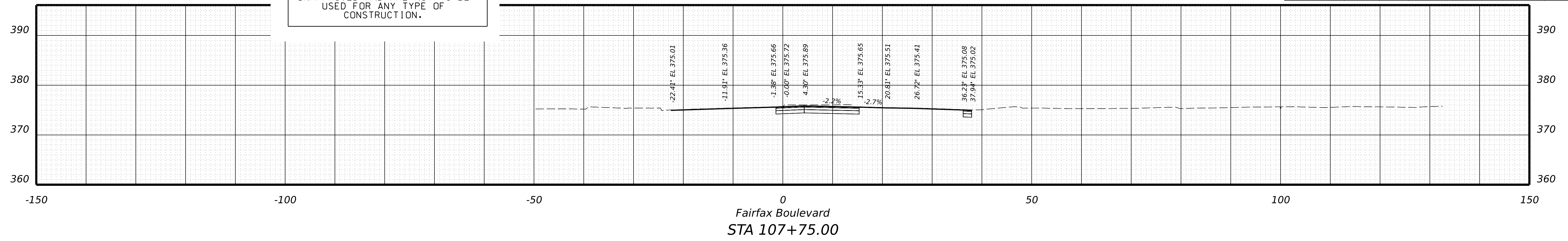
**RW PLANS**

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**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-10



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

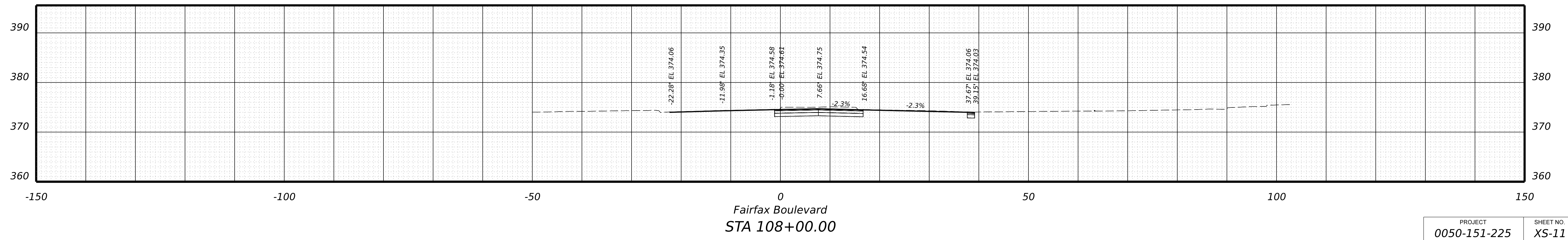
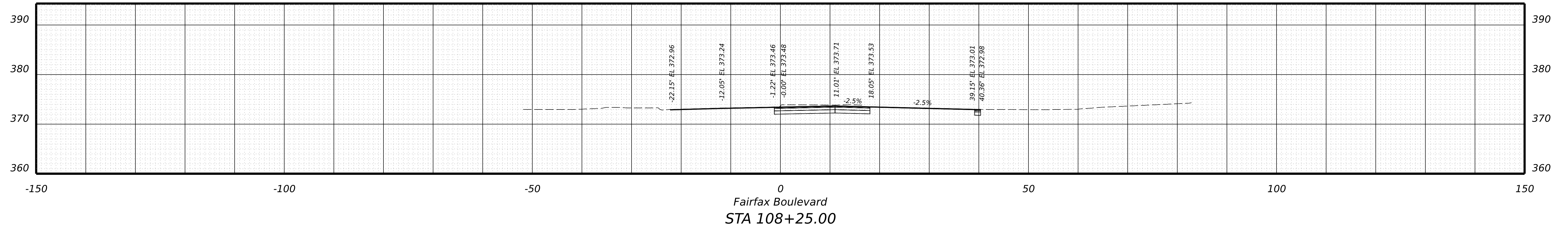
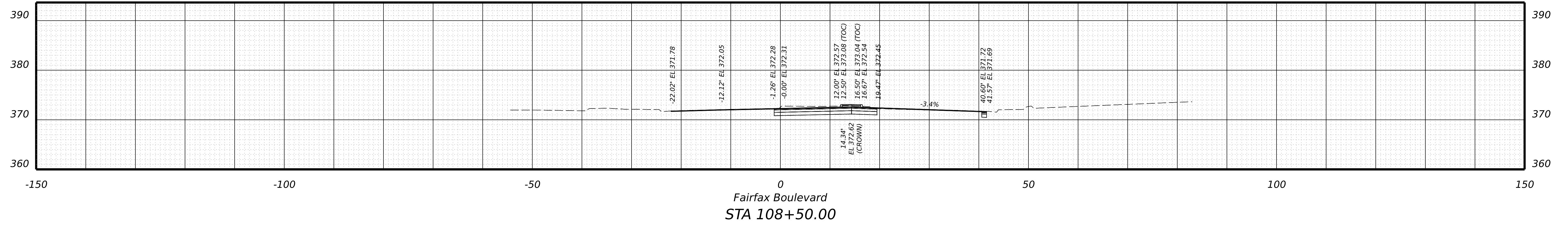
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	050	0050-151-225 P101	XS-11



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

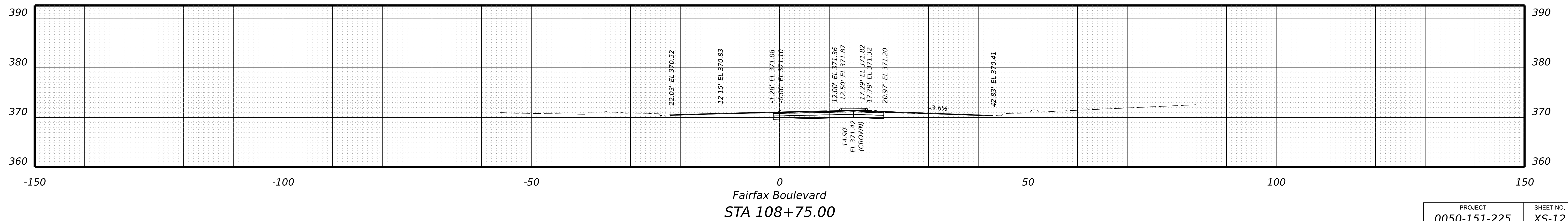
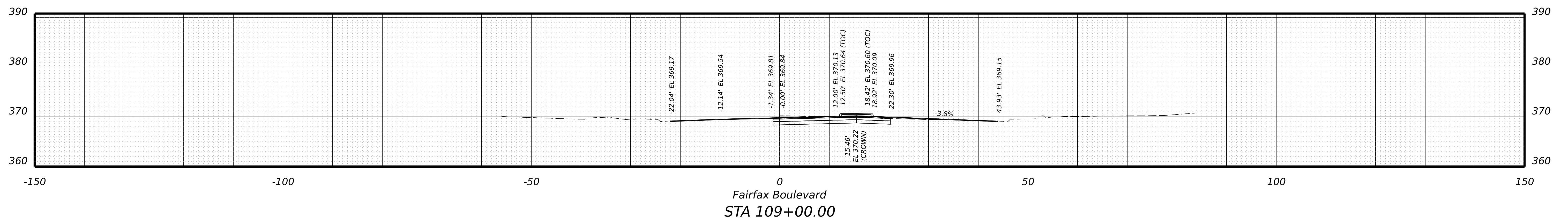
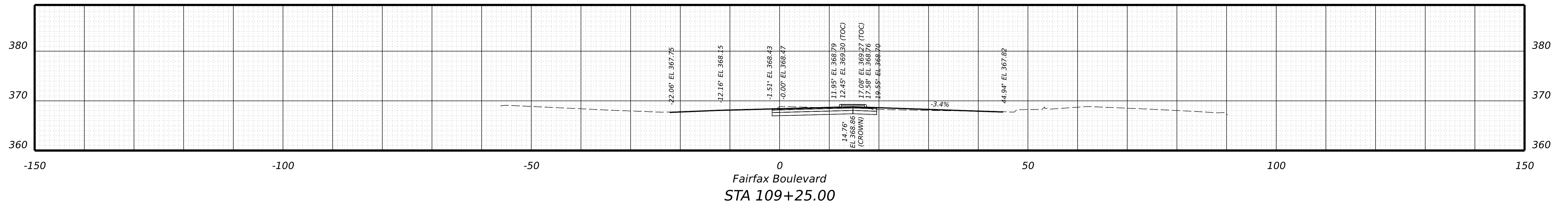
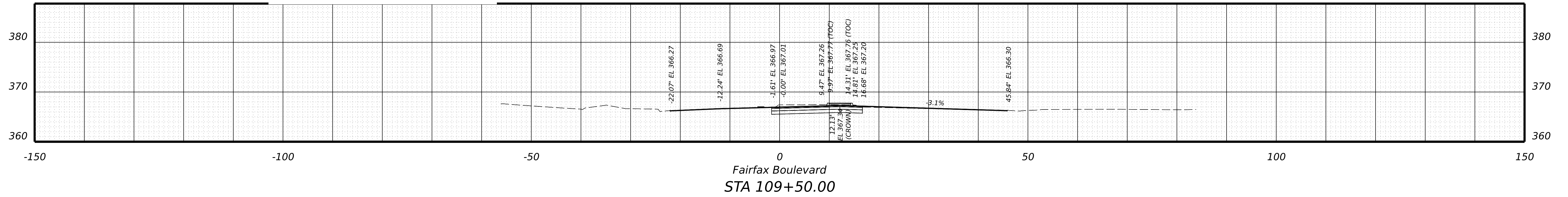
**RW PLANS**

**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-12

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PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
 SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
 DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
 SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

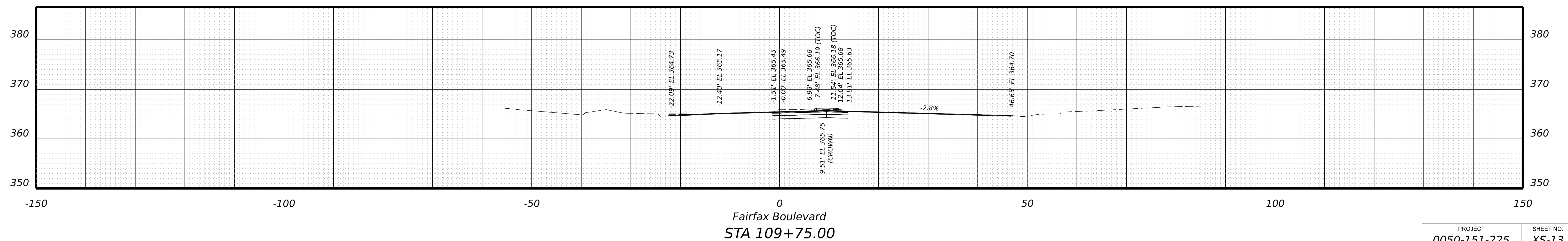
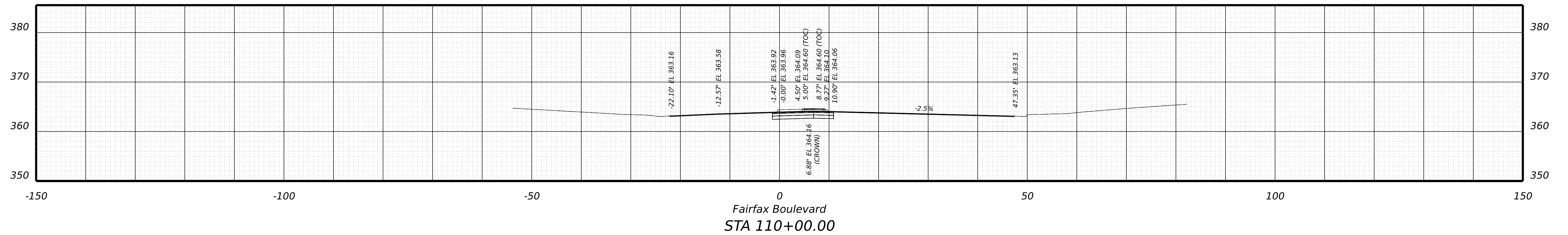
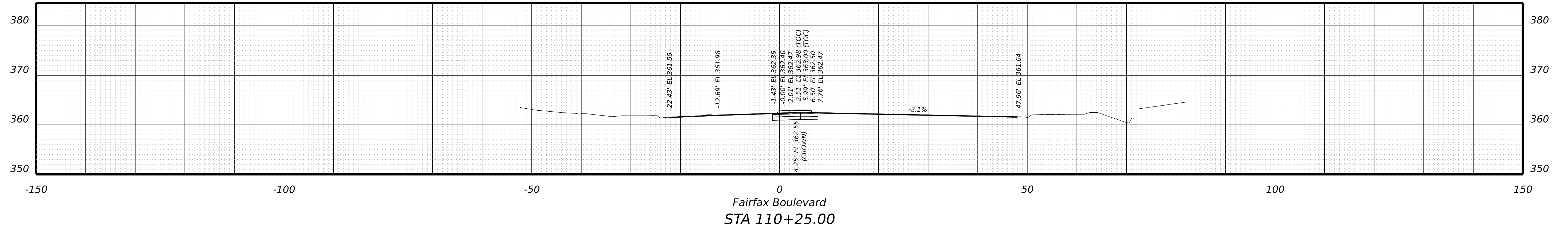
**RW PLANS**

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-13



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

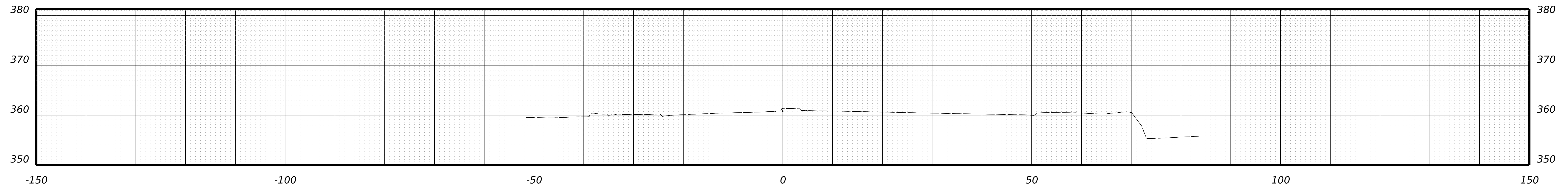
**RW PLANS**

**CROSS SECTIONS**  
SCALE 1 IN. = 10 FT

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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	050	0050-151-225 P101	XS-14

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PROJECT	SHEET NO.
0050-151-225	XS-14

PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
 SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
 DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
 SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

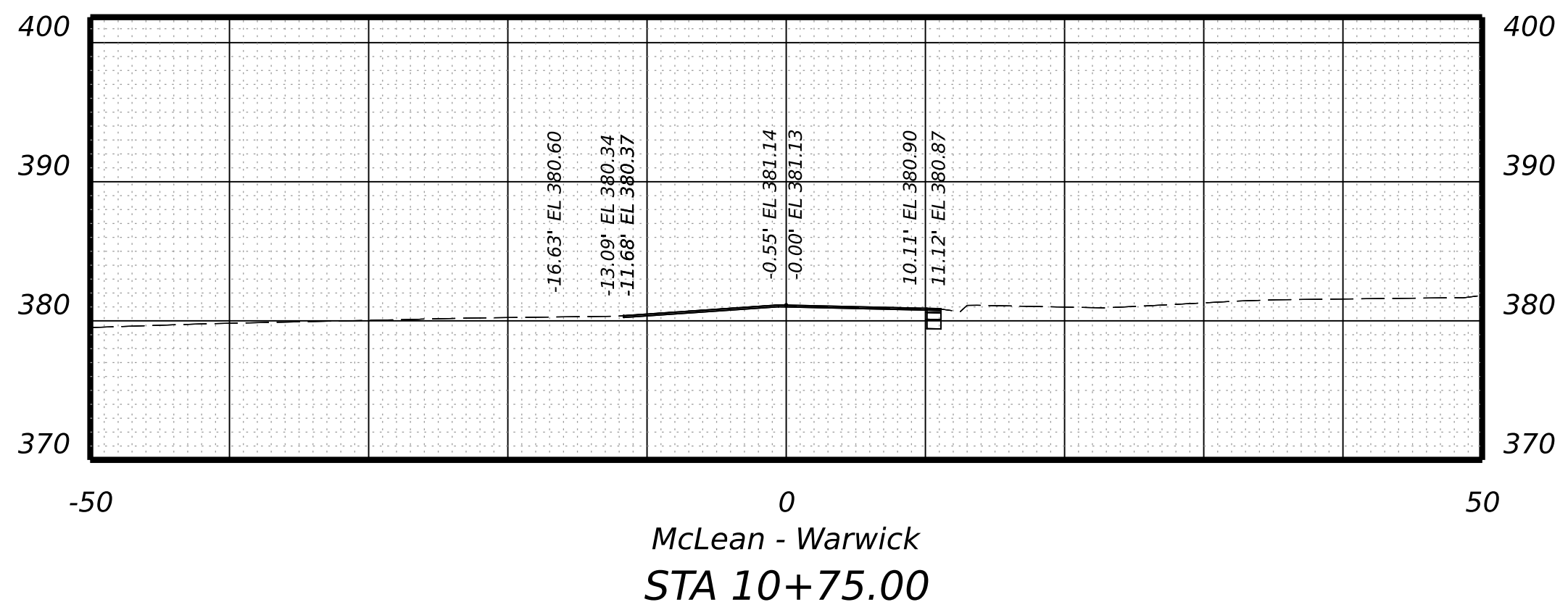
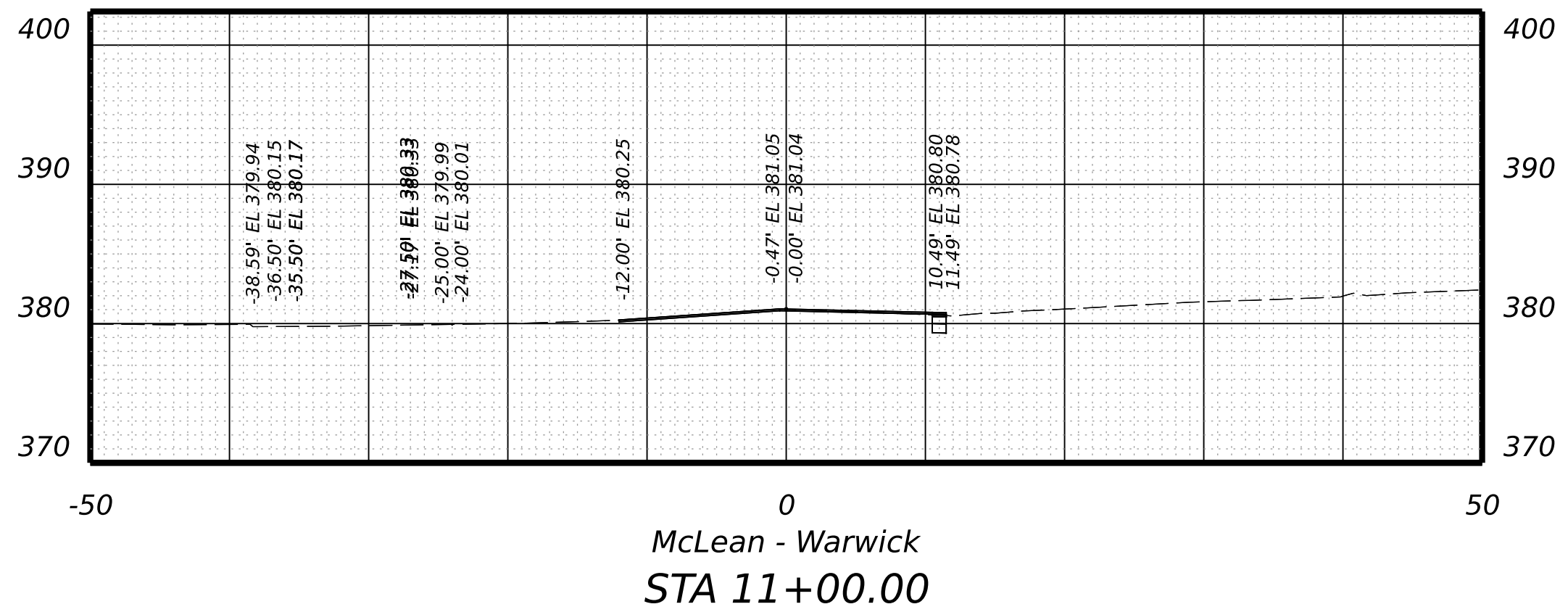
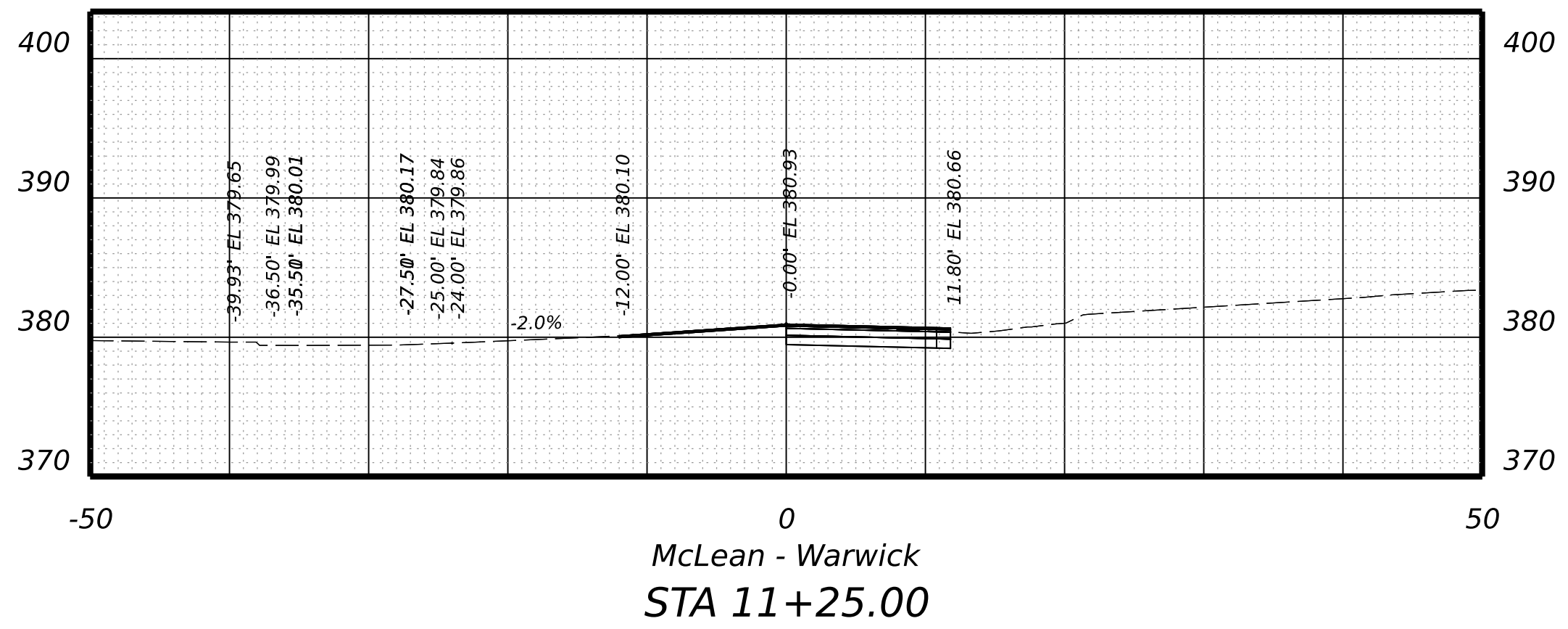
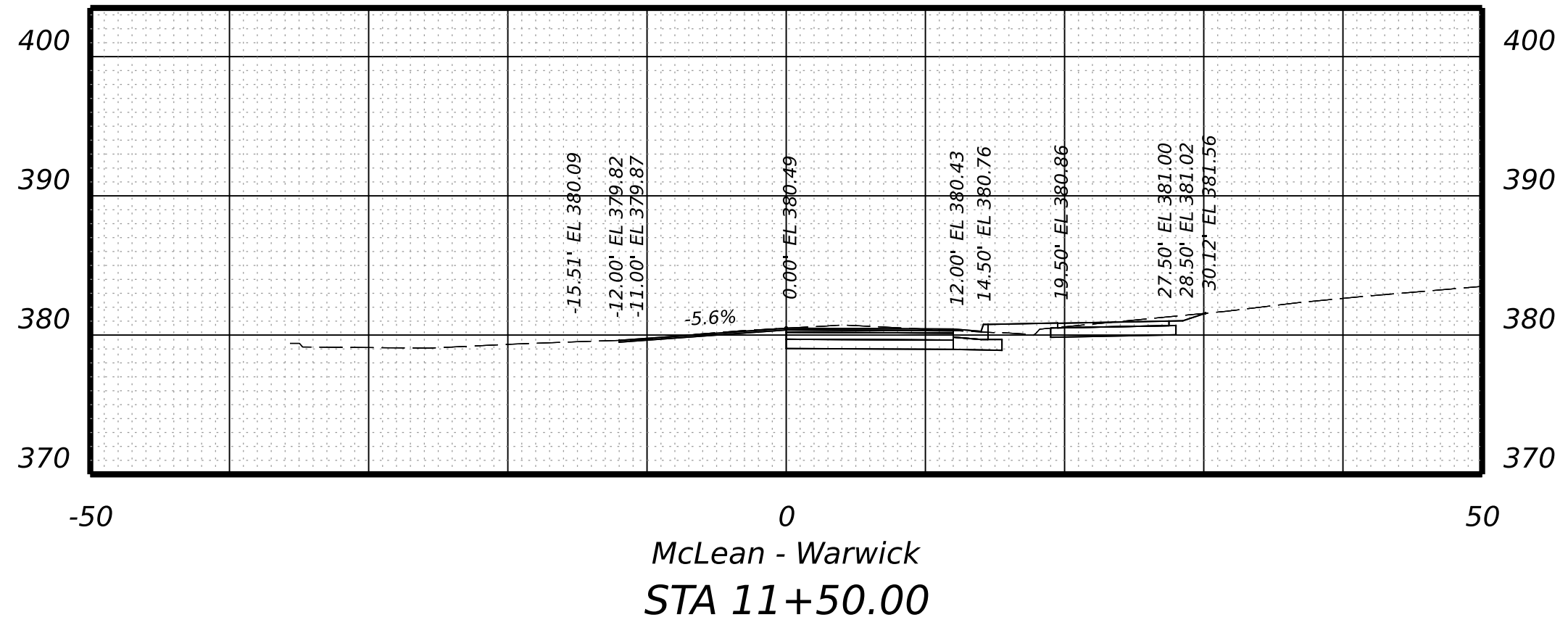
**RW PLANS**

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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	050	0050-151-225 P101	XS-15





PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

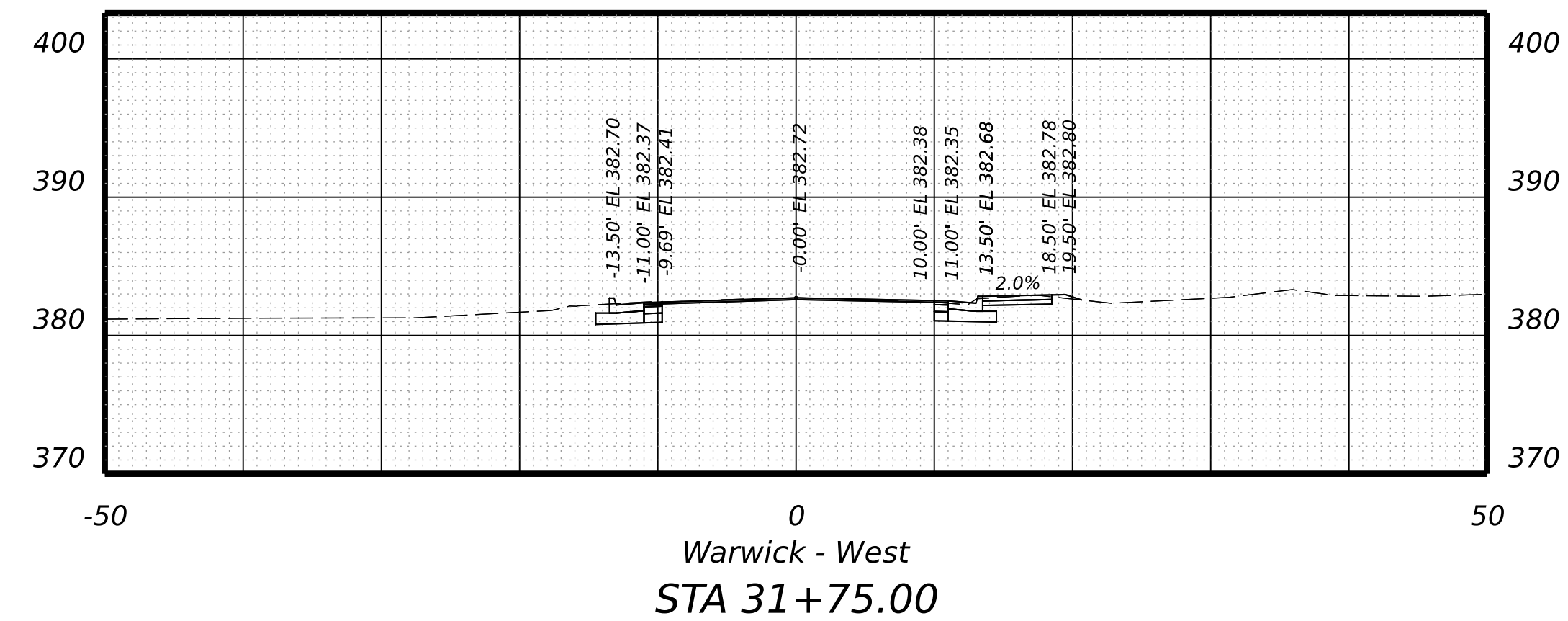
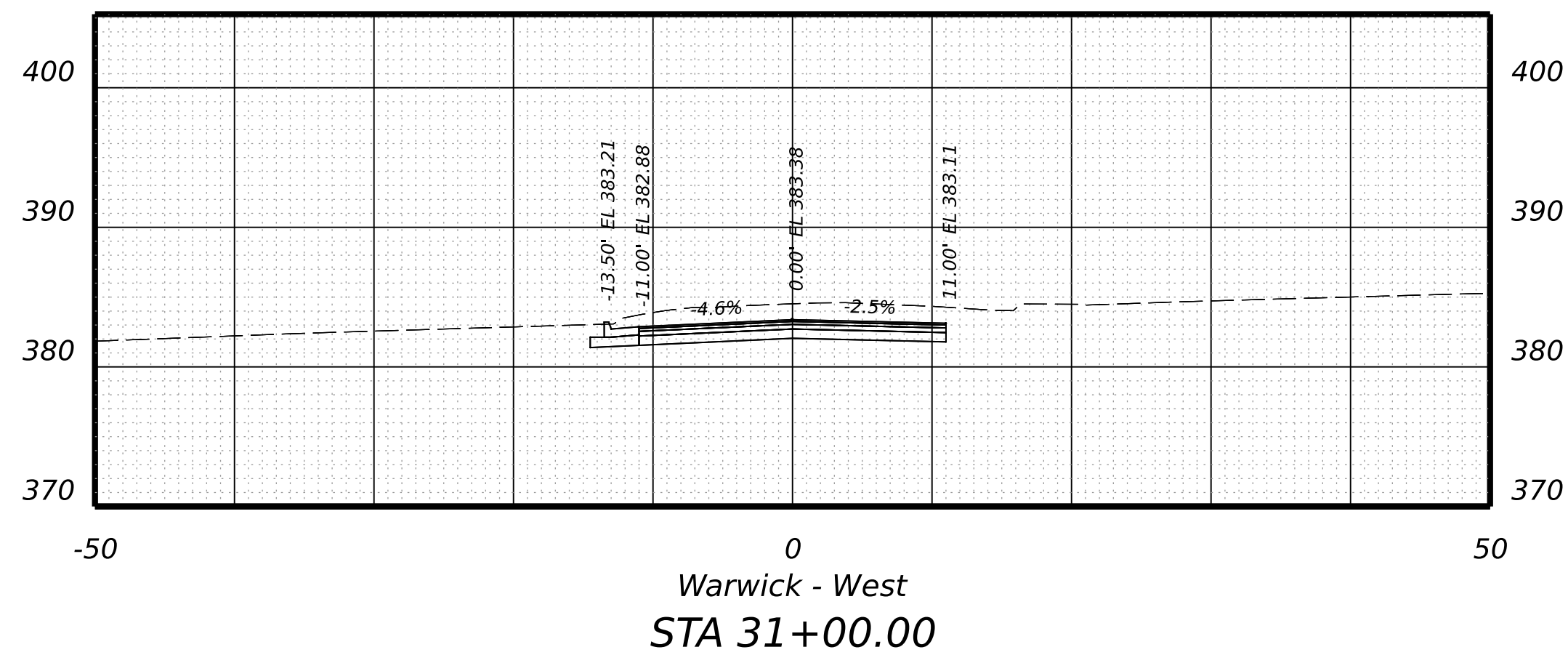
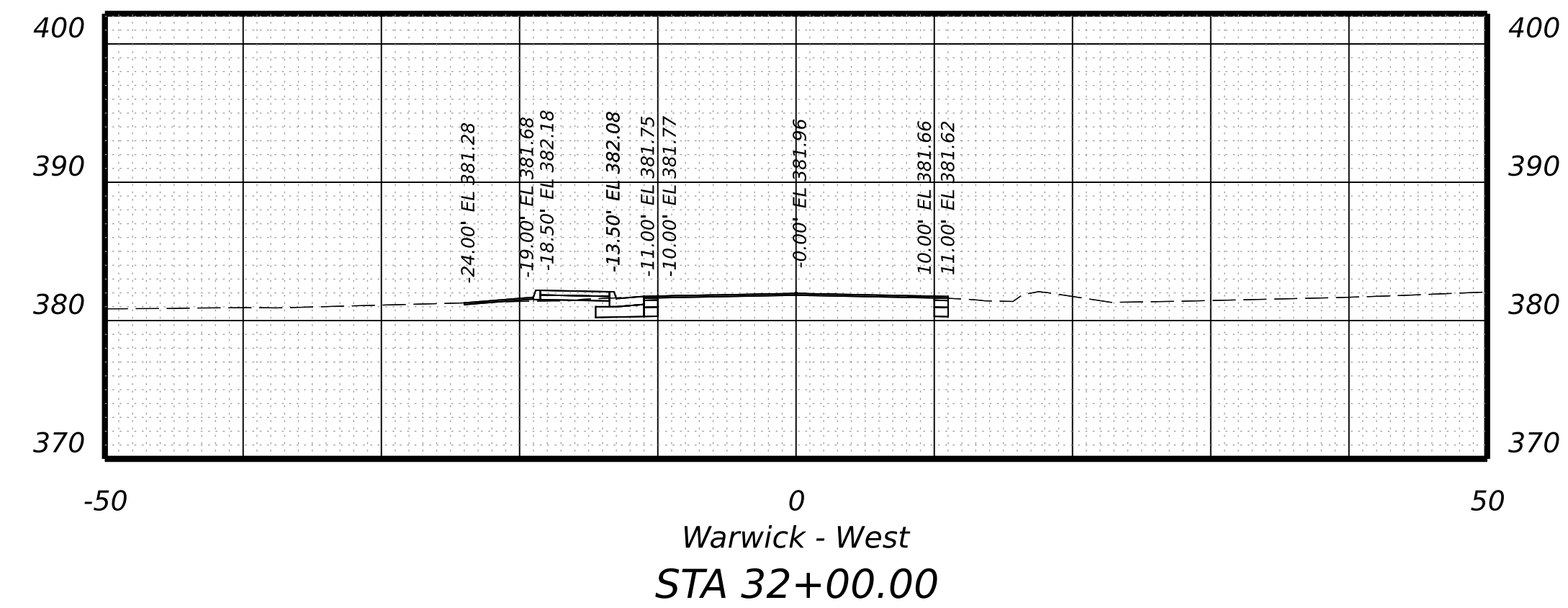
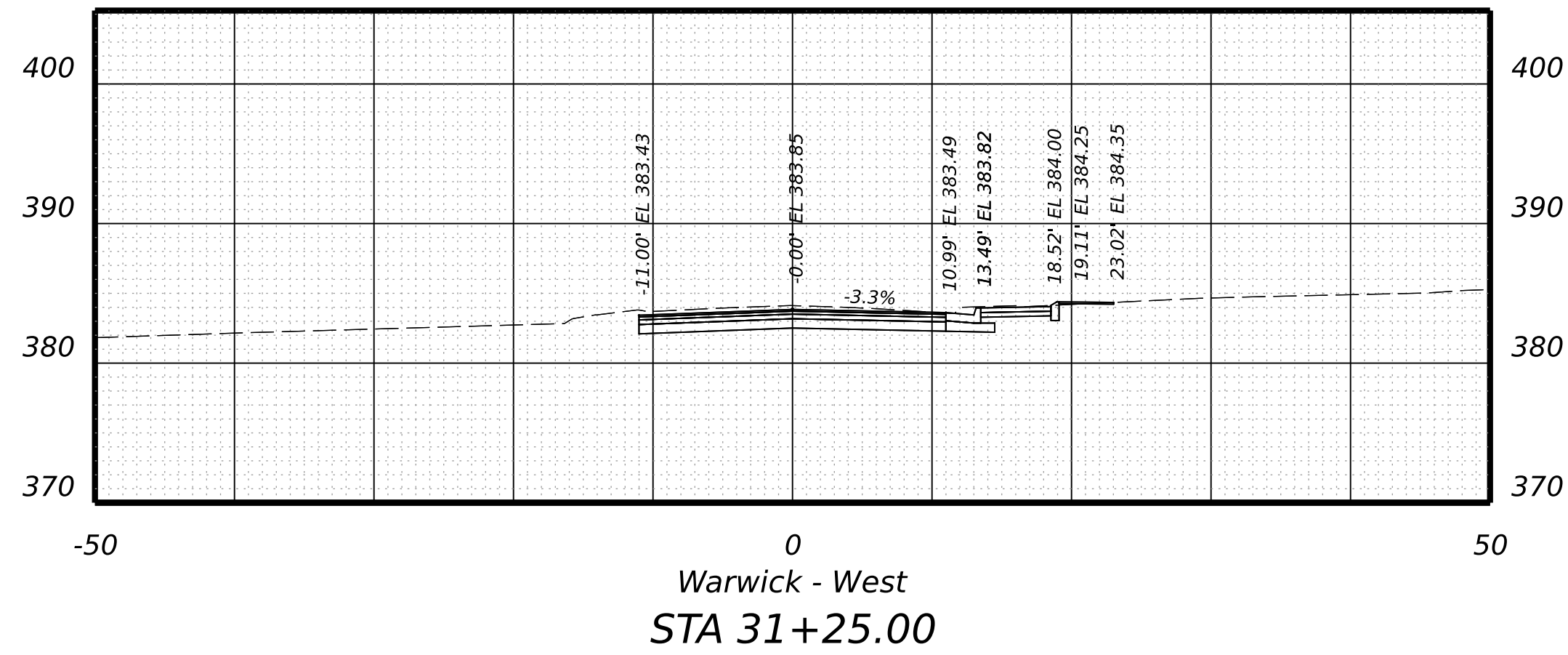
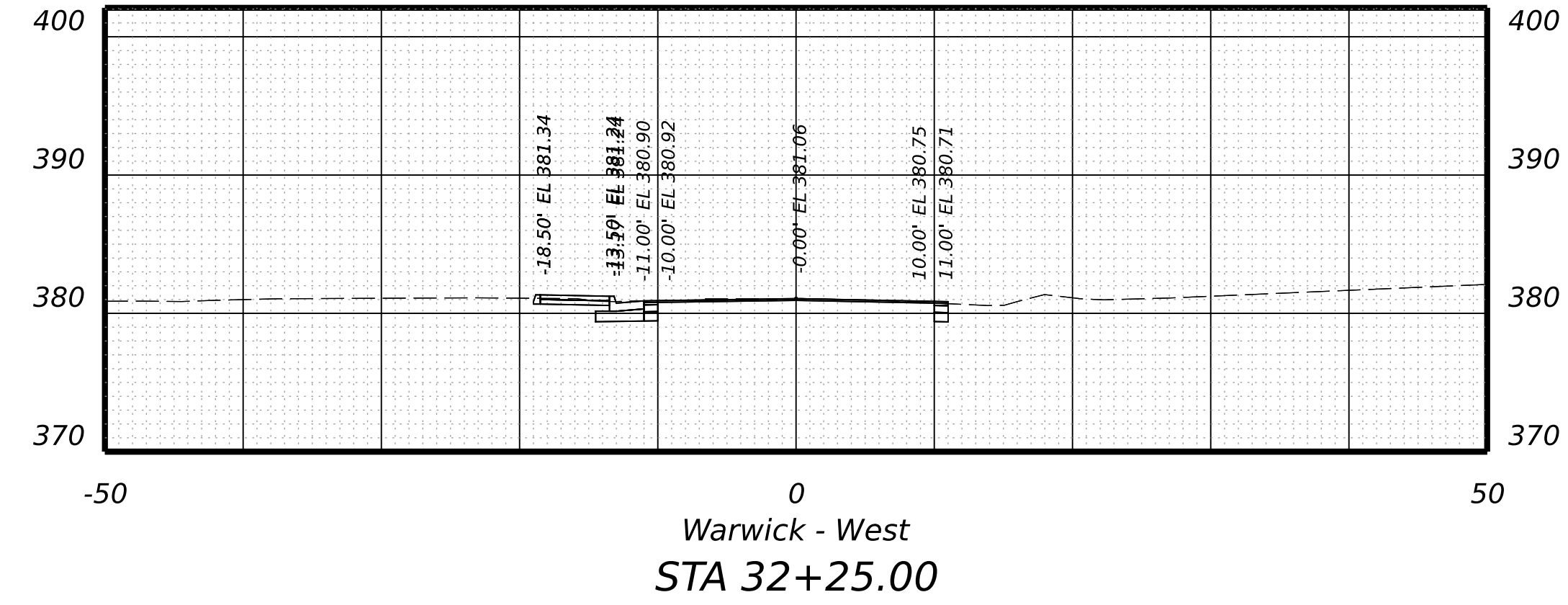
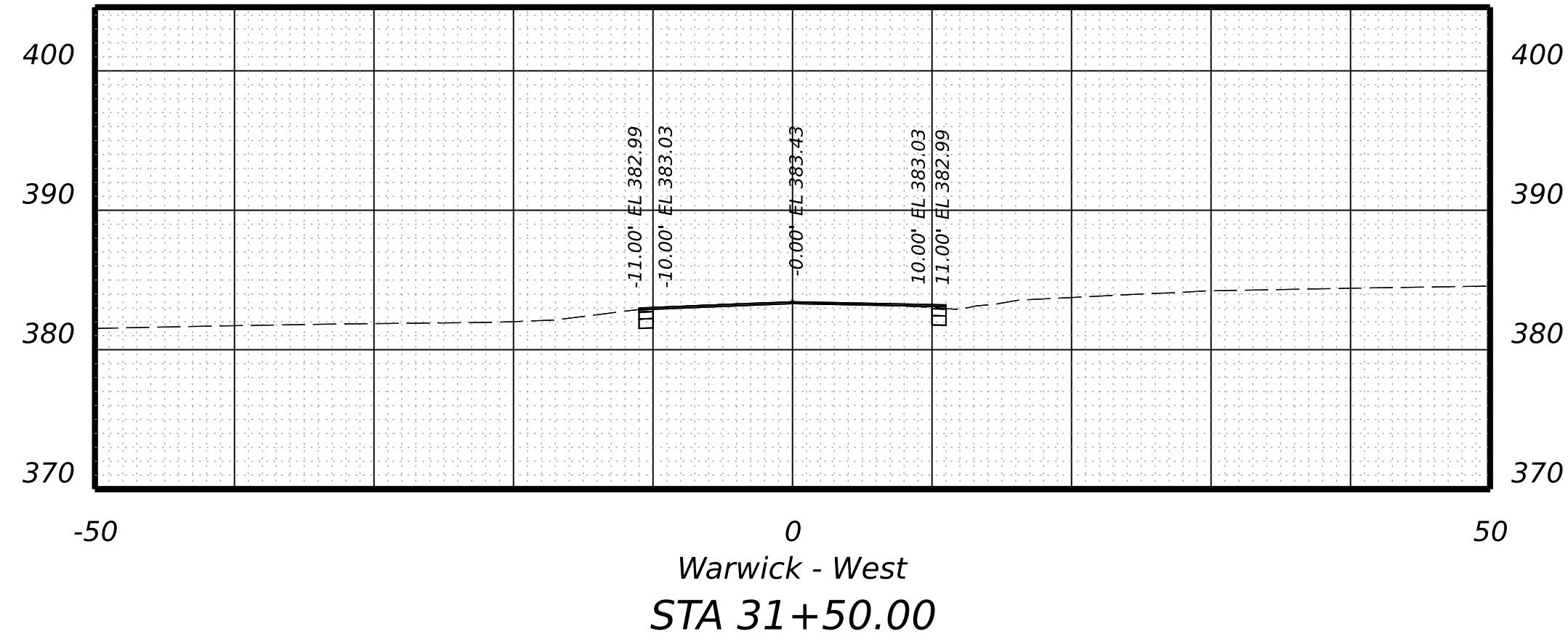
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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	050		0050-151-225 P101	XS-16



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
 SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
 DESIGN BY \_ TIMMONS GROUP (804) 200-6500  
 SUBSURFACE UTILITY BY, DATE TIMMONS GROUP (804) 200-6500 8/2020

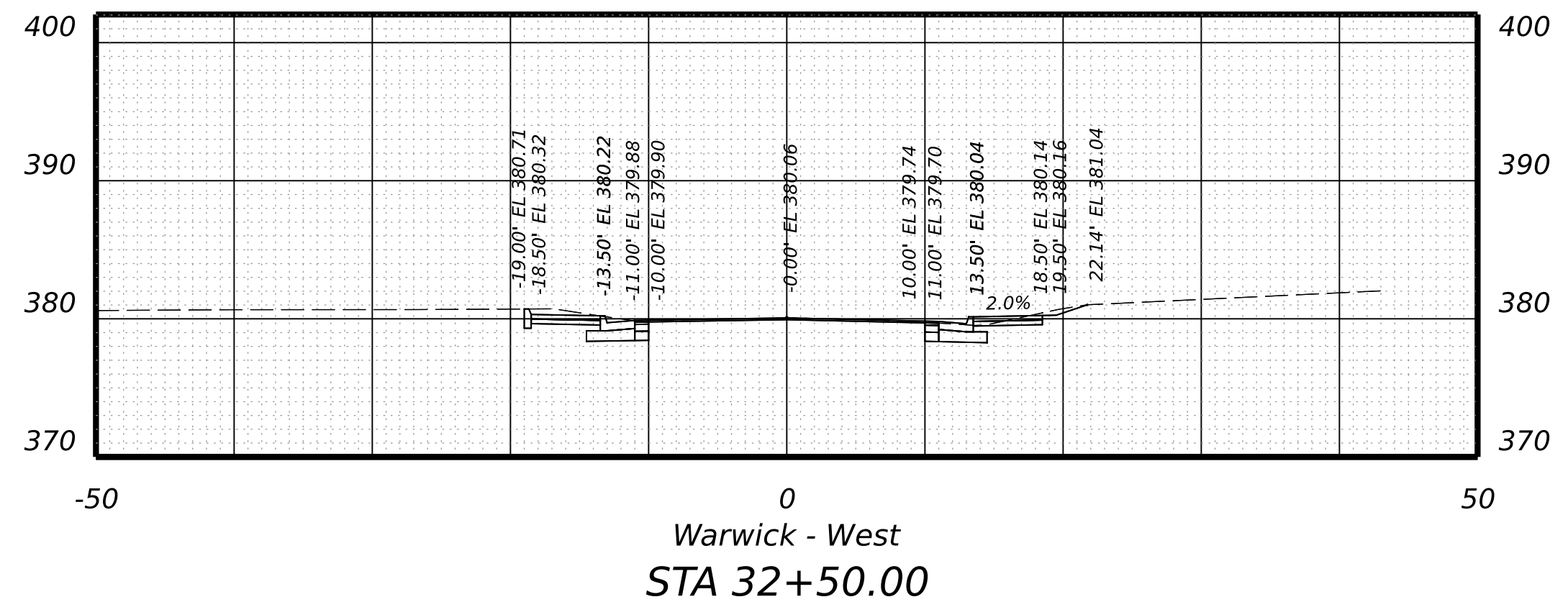
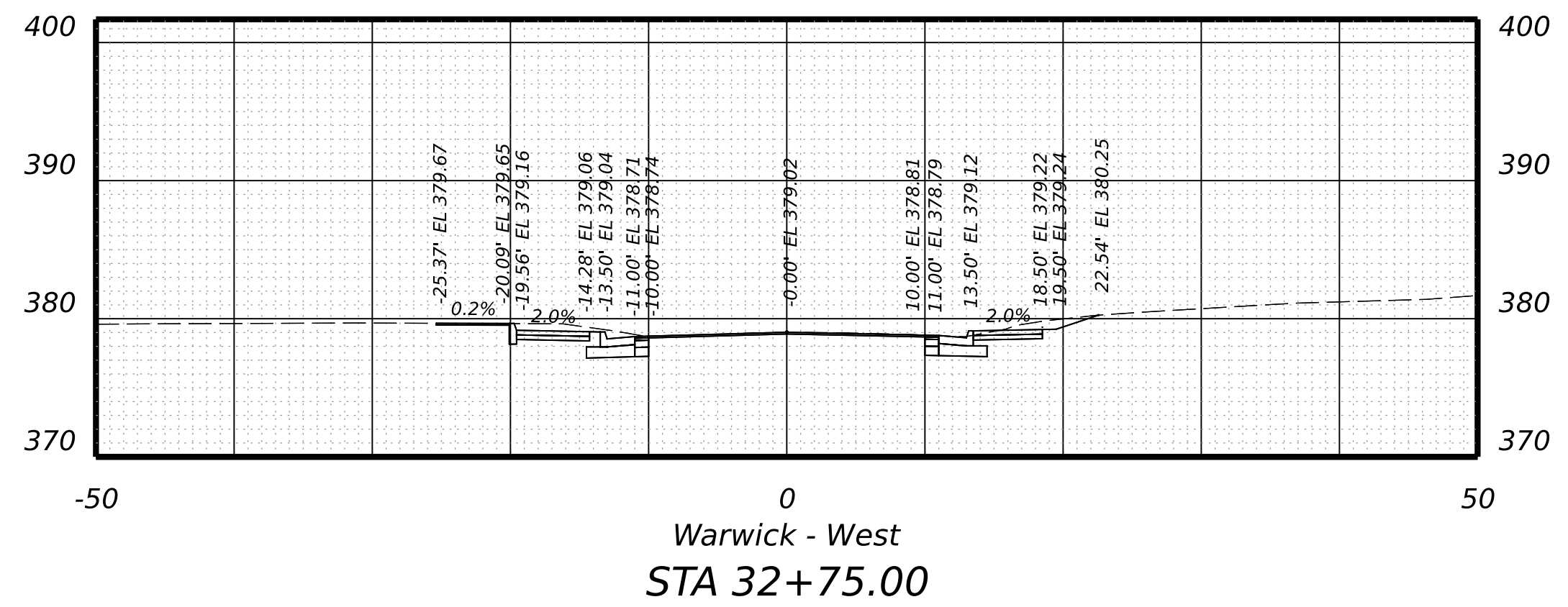
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	050	0050-151-225 P101	XS-17



PROJECT MANAGER \_ CHRISTINA ALEXANDER (CITY PM) (703) 385-7810  
 SURVEYED BY, DATE \_ TIMMONS GROUP (804) 200-6500 8/2020  
 DESIGN BY \_ TIMMONS GROUP (804) 200-6500 \_  
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	050	0050-151-225 P101	XS-18

