

City of Arvada City Council Agenda

MARCH 4, 2024
CITY COUNCIL CHAMBERS
Regular Business

Councilmembers:

Lauren Simpson, Mayor
Randy Moorman, Mayor Pro-Tem
Shawna Ambrose, District 2
Sharon Davis, At large
Lisa Feret, At large
Bob Fifer, District 4
John Marriott, District 3

Staff Members Usually Present:

Lorie Gillis, City Manager
Linda Haley, Deputy City Manager
Don Wick, Deputy City Manager
Rachel Morris, City Attorney
Jacqueline Rhoades, Director of Public Works
Sharon Israel, Director of Utilities
Jessica Garner, Director of Community & Econ. Dev.
Bryan Archer, Director of Finance
Gabriella Bommer, Director of Human Resources
Rachael Kuroiwa, Director of Communications & Engagement
Kristen Rush, City Clerk

Info: 720-898-7550

THIRD FLOOR CONFERENCE ROOM **EXECUTIVE SESSION** **4:00 P.M.**

Legal Advice, Pursuant to CRS 24-6-402(4)(b) Relating to Public Comment Parameters

CITY COUNCIL MEETING – CITY COUNCIL CHAMBERS **6:00 PM**

1. Call to Order - 6:00 PM
2. Moment of Reflection and Pledge of Allegiance - Councilmember Davis
3. Roll Call of Councilmembers
4. Approval of Minutes
 - A. February 5, 2024 and February 12, 2024 City Council Meetings
5. Recognitions and Communications - None
6. Presentations
 - A. Presentation of After Prom Checks - Presented by Councilmember Fifer
 - B. Presentation by Jefferson County School District Superintendent Tracy Dorland - State of Jeffco Public Schools
7. Public Comment on Issues not Scheduled on Agenda - Three Minute Limit
8. New Business

- A. Consent Agenda
 - 1. R24-023, A Resolution Authorizing an Agreement by and between the City of Arvada and Sturgeon Electric Company, Inc. for Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, and 23-TC-03, in an Amount not to Exceed \$2,414,978.50
 - 2. R24-024, A Resolution Authorizing a License Agreement by and between the City of Arvada and the City and County of Denver, Board of Water Commissioners, for the Installation of Fiber Optic Conduit at the Long Lake Sporting Complex
 - 3. R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023
- B. Resolutions - None
- C. Ordinances (First Reading) - None
- 9. Other
- 10. Public Hearings - 6:15 PM
 - A. CB24-002, An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code (Ordinance No. 4868) (Presenter: Janelle Miller, City Attorney's Office)
 - B. CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code (Ordinance No. 4869) (Presenter: Sharon Israel, Director of Utilities)
- 11. Workshops
 - A. New Pool Facility Naming Process
 - B. Speed Management
- 12. Public Comment - Five Minute Limit
- 13. Reports from City Council
 - A. Council Committee Reports
- 14. Reports from City Manager
 - A. Review of Future Workshops and Presentations
- 15. Reports from City Attorney
- 16. Adjournment



SUMMARY OF MINUTES OF THE MEETING OF THE ARVADA CITY COUNCIL HELD FEBRUARY 5, 2024

1. Call to Order - 6:00 p.m.

This Arvada City Council meeting was a hybrid meeting using webinar technology. Mayor Simpson, Mayor Pro Tem Moorman, Councilmember Ambrose, Councilmember Davis, Councilmember Feret, Councilmember Fifer, Councilmember Marriott were all present in chambers.

Members of the public were given notice with instructions on how to participate with public comment.

2. Moment of Reflection and Pledge of Allegiance

3. Roll Call of Councilmembers

Those Present: Mayor Lauren Simpson, Mayor Pro Tem Randy Moorman, Councilmember Shawna Ambrose, Councilmember Sharon Davis, Councilmember Lisa Feret, Councilmember Bob Fifer, Councilmember John Marriott

Also Present: Lorie Gillis, City Manager; Rachel Morris, City Attorney; Linda Haley, Deputy City Manager; Don Wick, Deputy City Manager; Bryan Archer, Director of Finance; Jessica Garner, Director of Community and Economic Development; Candice Svoboda, Assistant to the City Manager; and Kristen Rush, City Clerk.

4. Approval of Minutes – January 22, 2024

The minutes stand approved.

5. Recognition and Communication – None

6. Presentations – None

7. Public Comment –

- A. Brent Riggs, Golden resident, addressed council regarding a navigation center
- B. Heidi Flynn, Arvada resident, addressed council regarding a navigation center
- C. Sabrina Banales, Wheat Ridge resident, addressed council regarding a navigation center
- D. Cuicatl Montoya, Aurora resident, addressed council regarding a navigation center
- E. Suzanne Sullivan, Arvada resident, addressed council regarding services for homeless individuals
- F. Linda Gertenbach, Lakewood resident, addressed council regarding homelessness
- G. Robin Kupernick, Arvada resident, addressed council regarding homelessness
- H. Mindy Mohr, Arvada resident, addressed council regarding a navigation center
- I. Amy Gearhart, Arvada resident, addressed council regarding a navigation center

- J. Bruce Morrison, Arvada resident, addressed council regarding a navigation center
- K. Joyce Richardson, Arvada resident, addressed council regarding a navigation center
- L. Andy Kaufman, Westminster resident, addressed council regarding a navigation center
- M. Phyllis Kerns, Arvada resident, addressed council regarding a navigation center
- N. Bill Christopher, Westminster resident, addressed council regarding a navigation center
- O. Judy Douglas, Arvada resident, addressed council regarding a navigation center
- P. Judith Denham, Arvada resident, addressed council regarding a navigation center
- Q. Betty Anne Redson, Arvada resident, addressed council regarding a navigation center
- R. David Meyeranderson, Arvada resident, addressed council regarding housing affordability
- S. Harriet Hall, Arvada resident, addressed council regarding a navigation center
- T. Jim Fenimore, Arvada resident, addressed council regarding crime in Arvada
- U. Scott Romano, Arvada resident, addressed council regarding the pedestrian crossing at 57th and Old Wadsworth
- V. Elaine Fitzgerald, Arvada resident, addressed council regarding a proposed RV storage lot
- W. Sharon McCarthy, Arvada resident, addressed council regarding a proposed RV storage lot
- X. Jim Cullen, Arvada resident, addressed council regarding a proposed RV storage lot
- Y. Paul Phillips, Arvada resident, addressed council regarding a proposed RV storage lot
- Z. Rick Simms, Arvada resident, addressed council regarding a proposed RV storage lot
- AA. Ann Katzburg, Arvada resident, addressed council regarding the GEOS neighborhood
- BB. Dar-Lon Chang, Arvada resident, addressed council regarding climate issues
- CC. Kathleen Flynn, Arvada resident, addressed council regarding climate change
- DD. Pat Malone, Arvada resident, addressed council regarding a navigation center

8. New Business

A. Consent Agenda

- 1. R24-015 A Resolution Authorizing an Agreement By And Between The City Of Arvada And APC Construction Co. for 2024 Phase 1 Pavement Resurfacing Program, Project No. 24-ST-01C, In An Amount Not To Exceed \$3,912,903.05
- 2. R24-016 A Resolution Revising and Re-Establishing the Arvada Park Advisory Committee

Councilmember Feret moved that R24-015, A Resolution Authorizing an Agreement By And Between The City Of Arvada And APC Construction Co. for 2024 Phase 1 Pavement Resurfacing Program, Project No. 24-ST-01C, In An Amount Not To Exceed \$3,912,903.05; R24-016, A Resolution Revising and Re-Establishing The Arvada Park Advisory Committee, be approved.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Fifer, Marriott
The Motion was Approved

B. Resolutions –

- 1. R24-017 A Resolution Authorizing Amendment No. 1 to an Intergovernmental Agreement by and between the City of Arvada and the Arvada Urban Renewal Authority To Complete Landscape Improvements on Ralston Road – Yukon Street to Garrison Street, City Project No. 18-ST-40

Councilmember Feret moved that R24-017, A Resolution Authorizing Amendment No. 1 to an Intergovernmental Agreement by and between the City of Arvada and the Arvada Urban Renewal Authority To Complete Landscape Improvements on Ralston Road – Yukon Street to Garrison Street, City Project No. 18-ST-40, be approved.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Fifer, Marriott
The Motion was Approved

C. Ordinances (First Reading) –

1. CB24-002 An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code (Public Hearing to be set for March 4, 2024 at 6:15 p.m.)

Councilmember Moorman moved that CB24-002, An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code, be approved on first reading, ordered published in full, and a public hearing date to be set for March 4, 2024 at 6:15 p.m.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Fifer, Marriott
The Motion was Approved

9. Other – None

10. Public Hearings – None

11. Workshops

A. Affordable Housing Updates

Carrie Espinosa, Manager, Housing Preservation and Resources, and Sam Bradley, Affordable Housing Development Specialist, Housing Preservation and Resources, provided a brief overview of the Housing team's grant programs and services designed to serve extremely low to moderate-income households including the Housing Choice Voucher Program, the Community Development Block Grant, the DOLA Transformational Homelessness Response Grant, Energy Outreach Colorado and housing and homeless navigation services. The presentation will then shift to update the City Council on the affordable housing initiatives, including the new Housing Advisory Committee, the Housing Strategic Plan, the Arvada Housing Authority's Special Limited Partnership deals and the new Arvada Affordable Housing Fund.

Next Steps: A Housing Strategy workshop will be held on March 25.

B. Emergency Management Overview

Nick Adams, Emergency Manager, said that the City of Arvada has a long history of incorporating emergency management into everyday operations. The role of emergency management has evolved over time to better suit the threats and hazards facing Arvada. In 2023, the Resilient Management Coordinator

position was renamed to the Emergency Management Coordinator with the goal of focusing on improving operational responses during emergencies. The emergency management program overview will inform city leaders of expected responsibilities during emergencies as well as educate leaders on common operating standards across local municipal, county, and state agencies.

Next Steps: At an upcoming Council study session, the Emergency Management Coordinator will present the FEMA G402 course, Overview for Senior Officials (Executives, Elected, & Appointed)

12. Public Comment - Five Minute Limit –
 - A. Pat Noonan, addressed council regarding a navigation center.
13. City Council Reports –
 - A. Councilmember Ambrose gave an update from the Olde Town Business District.
 - B. Councilmember Ambrose discussed the public comments tonight.
 - C. Councilmember Davis said that she and Councilmember Moorman hosted a safety meeting and thanked everyone that attended.
 - D. Councilmember Fifer thanked Councilmember Ambrose for her comments regarding public comment tonight.
 - E. Councilmember Fifer invited everyone to the Arvada Fire, Fire Truck pull at 10 a.m. at Station 9 at Candelas.
 - F. Councilmember Fifer invited everyone to a Traffic Safety meeting in Candelas on February 21st at Townview Clubhouse.
 - G. Mayor Simpson congratulated the Arvada Chamber of Commerce for the successful chamber dinner on Friday.
 - H. Mayor Simpson commended the city's response to the storm this past weekend.
14. City Manager Reports –
 - A. Lorie Gillis, City Manager, thanked Councilmember Ambrose and Councilmember Fifer for their comments regarding public comment tonight.
15. City Attorney Reports – None
16. Adjournment at 9:20 p.m.

Lauren Simpson, Mayor

SEAL:

Kristen R. Rush, City Clerk



SUMMARY OF MINUTES OF THE MEETING OF THE ARVADA CITY COUNCIL HELD FEBRUARY 12, 2024

1. Call to Order - 6:00 p.m.

This Arvada City Council meeting was a hybrid meeting using webinar technology. Mayor Simpson, Mayor Pro Tem Moorman, Councilmember Ambrose, Councilmember Davis, Councilmember Feret, Councilmember Fifer, Councilmember Marriott were all present in chambers.

Members of the public were given notice with instructions on how to participate with public comment.

2. Moment of Reflection and Pledge of Allegiance

3. Roll Call of Councilmembers

Those Present: Mayor Lauren Simpson, Mayor Pro Tem Randy Moorman, Councilmember Shawna Ambrose, Councilmember Sharon Davis, Councilmember Lisa Feret, Councilmember John Marriott

Mayor Pro Tem Moorman moved to excuse Councilmember Fifer from the meeting.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Marriott

Those Absent: Fifer

The Motion was Approved

Also Present: Lorie Gillis, City Manager; Rachel Morris, City Attorney; Linda Haley, Deputy City Manager; Don Wick, Deputy City Manager; Bryan Archer, Director of Finance; Jessica Garner, Director of Community and Economic Development; Candice Svoboda, Assistant to the City Manager; and Kristen Rush, City Clerk.

4. Approval of Minutes – None

5. Recognition and Communication –

A. Presentation of APWA Award for the Lake Arbor Restoration Project - Presented by Mayor Pro Tem Moorman

The Colorado Chapter of the American Public Works Association (APWA) has awarded Lake Arbor restoration as project of the year in the environment category for a large community. This award is in recognition of extraordinary municipal projects in the state of Colorado.

Pete Adler, APWA Colorado Chapter Delegate, presented the award for the Lake Arbor Restoration project that was completed in the summer of 2023.

B. Recognition of the Infrastructure Work System for APWA Re-Accreditation - Presented by Councilmember Marriott

The City of Arvada Public Works and Utilities Departments, which make up the Infrastructure Work System, were recently reaccredited with the American Public Works Association (APWA). The accreditation formally recognizes the City for being in full compliance with the recommended management practices in APWA's Public Works Management Practices Manual.

The purpose of accreditation is to promote excellence in the operation and management of a public works agency, its programs, and its employees. Accreditation is designed to assist in the continuous improvement of operations and management, and in providing a valid and objective evaluation of agency programs as a service to the public and the profession.

The City was first accredited in 2016 with re-accreditations in 2020 and 2023. The City is proud of the many hard working, dedicated team members who help to ensure the highest standards of excellence in maintaining this accreditation. Congratulations to the Infrastructure Work System for their achievement!

Pete Adler, APWA Colorado Chapter Delegate, presented the award to Public Works.

6. Presentations – None

7. Public Comment –

- A. Sam Greenberg, Representing Congresswoman Pedersen, presented two recognitions, one to Bobby Magee Lopez, the winner of the Arvada Olde Town Shindig Mural Contest and the other to Ben Pyatt for his dedication as a lifelong educator in our community.

8. New Business

A. Consent Agenda

- | | | |
|----|---------|--|
| 1. | R24-018 | A Resolution Authorizing An Agreement Between the City of Arvada and Colorado Designsapes, Inc for Construction of the Standley Lake Library Trailhead (CSB 23-VCN-119) in an Amount Not to Exceed \$742,000.00 |
| 2. | R24-019 | A Resolution Approving an Agreement By and Between the City of Arvada and Grandview Station LLC for the Grant of a Revocable Encroachment License to Accommodate an Accessible Pedestrian Ramp for the Tenant Space at 7357 Grandview Avenue, Unit A, within Public Right of Way |
| 3. | R24-020 | A Resolution Authorizing Change Order No. 5 to An Agreement by and between the City of Arvada and Hamon Infrastructure, Inc. for Construction of 18-ST-40 Ralston Road - Yukon Street to Garrison Street in an Amount not to Exceed \$17,724,045.35 |

Councilmember Feret moved that R24-018, A Resolution Authorizing An Agreement Between the City of Arvada and Colorado Designsapes, Inc for Construction of the Standley Lake Library Trailhead (CSB 23-VCN-119) in an Amount Not to Exceed \$742,000.00; R24-019, A Resolution Approving an Agreement By and Between the City of Arvada and Grandview Station LLC for the Grant of a Revocable Encroachment License to Accommodate an Accessible Pedestrian Ramp for the Tenant Space at 7357 Grandview Avenue, Unit A, within Public Right of Way; R24-020, A Resolution Authorizing Change Order No. 5 to An Agreement by and between the City of Arvada and Hamon Infrastructure, Inc. for Construction of 18-ST-40 Ralston Road - Yukon Street to Garrison Street in an Amount not to Exceed \$17,724,045.35, be approved.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Marriott

Those Absent: Fifer

The Motion was Approved

B. Resolutions –

1. R24-021 A Resolution Authorizing a Second Amendment to the Master Intergovernmental Agreement By and Between Apex Park and Recreation District and the City of Arvada Governing the Lease and Maintenance of Certain Facilities and Parks and Amending the Ground Lease for the Indoor Turf Fields on the Stenger/Lutz Sports Complex

Enessa Janes, Director of Vibrant Community and Neighborhoods, reviewed this resolution with council.

Mayor Pro Tem Moorman moved that R24-021, A Resolution Authorizing a Second Amendment to the Master Intergovernmental Agreement By and Between Apex Park and Recreation District and the City of Arvada Governing the Lease and Maintenance of Certain Facilities and Parks and Amending the Ground Lease for the Indoor Turf Fields on the Stenger/Lutz Sports Complex, be approved.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Marriott

Those Absent: Fifer

The Motion was Approved

2. R24-022 A Resolution Authorizing an Intergovernmental Agreement By and Between the City of Arvada and the Jefferson Center Metropolitan District No. 1 for Financing of the Design, Preconstruction Services, Construction Administration, and Construction of the Purple Line

Jacqueline Rhodes, Public Works Director, reviewed this resolution with council.

Councilmember Feret moved that R24-022, A Resolution Authorizing an Intergovernmental Agreement By and Between the City of Arvada and the Jefferson Center Metropolitan District No. 1 for Financing of the Design, Preconstruction Services, Construction Administration, and Construction of the Purple Line, be approved.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Marriott

Those Absent: Fifer

The Motion was Approved

C. Ordinances (First Reading) –

1. CB24-003 An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code (Public Hearing to be set for March 4, 2024 at 6:15 p.m.)

Councilmember Moorman moved that CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code, be approved on first reading, ordered published in full, and a public hearing date to be set for March 4, 2024 at 6:15 p.m.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Marriott

Those Absent: Fifer

The Motion was Approved

9. Other –

- A. Motion to cancel March 11, 2024 City Council Meeting

Councilmember Moorman moved to cancel the March 11, 2024 City Council Meeting

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Marriott

Those Absent: Fifer

The Motion was Approved

10. Public Hearings –

- A. CB24-001 An Ordinance Amending Various Provisions of Arvada's Land Development Code Pertaining to Floodplain Regulation (Ordinance No. 4867)

Mayor Simpson opened the public hearing on CB24-001.

Melanie Walter, Floodplain Administrator, reviewed this ordinance with council.

No one wishing to speak for or against, the public hearing was closed.

Councilmember Feret moved that CB24-001, An Ordinance Amending Various Provisions of Arvada's Land Development Code Pertaining to Floodplain Regulation, be approved on final reading, numbered 4867 and ordered published by title only.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Feret, Marriott

Those Absent: Fifer
The Motion was Approved

12. Public Comment - Five Minute Limit – None
13. City Council Reports –
 - A. Mayor Simpson thanked the city manager and city staff for the council retreat held on Friday.
14. City Manager Reports –
 - A. Lorie Gillis, City Manager, thanked council for their participation at the council retreat.
 - B. Lorie Gillis, City Manager, noted that there will be no meeting on President’s Day, February 19.
15. City Attorney Reports – None
16. Adjournment at 6:40 p.m.

Lauren Simpson, Mayor

SEAL:

Kristen R. Rush, City Clerk



REPORT TO CITY COUNCIL

AGENDA ITEM
6.A.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: Presentation of After Prom Checks - Presented by Councilmember Fifer

Report in Brief

Each year at this time, the City Council acknowledges the partnerships of school staff, parents, local businesses, Arvada School Resource Officers and others who join together to create a free, safe place for high school students to meet after prom. With elaborate decorations and creative themes, high schools are transformed into imaginative places for the students to gather.

All night and into the early morning they can eat, play games, win prizes and safely party with friends at no cost. These After Prom parties provide a safe alternative to high-risk behaviors.

Each school has a committee of parent volunteers who spend countless hours collecting donations, planning, preparing for and staffing these events. It is estimated that each school hosts nearly 500 students (impacting nearly 2,500 teens) at After Prom parties.

Tonight we recognize the committee representatives from our local high schools who are committed to making these events a success on behalf of young people in Arvada and present each of the high schools a cash donation.

Arvada High School, accepted by Principal Caroline Frazee

Arvada West High School, accepted by Principal Micah Porter

Pomona High School, accepted by Principal Patrick Rock

Ralston Valley High School, accepted by Assistant Principal/Active Director Mike Ackerman

Standley Lake High School, accepted by Principal Todd Rago or a staff member

Prepared by:

Chris Koch, CCO Admin

Reviewed by:

Toni Riebschlager, Law Office Administrator 2/12/2024

Laura Hemler, Assistant City Attorney 2/12/2024

Approved by:

Linda Haley, Deputy City Manager 2/12/2024

Rachel Morris, City Attorney 2/12/2024

Lorie Gillis, City Manager 2/13/2024

Enclosure, exhibits & attachments required to support the report



REPORT TO CITY COUNCIL PRESENTATION

AGENDA ITEM
6.B.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: Presentation by Jefferson County School District Superintendent Tracy Dorland - State of Jeffco Public Schools

Report in Brief

Jefferson County School District Superintendent, Tracy Dorland, will present the State of Jeffco Public Schools; where the district has been and where they are going. The presentation will discuss how public schools are funded in Colorado, why Jeffco struggles to keep up with neighboring school districts when it comes to funding and how the district is engaging with a community-based Alliance committee to explore community-driven interests that include competitive staff compensation; safe and secure environments and high school reimaged – to help the district identify investments to be funded by a future mill levy override request to Jefferson County voters.

Background

Jefferson County School District is prioritizing a strong, collaborative partnership with municipal partners to ensure the ongoing success of our local schools. In Jeffco, they have set the foundation to create the conditions for success for their students. However, Jeffco's financial resources are inadequate to fulfill their vision and lag those of neighboring districts. Jeffco is beginning conversations with their community regarding their interests to help the district identify investments to be funded by a future mill levy override request to Jefferson County voters. It is important for Jeffco to also share this information with municipal leaders.

Strategic Alignment

This aligns with the City's priority of engaging with our community partners on an ongoing basis to ensure continual support of our community.

Next Steps

FOR WORKSHOPS ONLY

Prepared by:
Linda Haley, Deputy City Manager

Reviewed by:

Approved by:

Rachel Morris, City Attorney
Don Wick, Deputy City Manager
Lorie Gillis, City Manager

SUBJECT: Presentation by Jefferson County School District Superintendent Tracy Dorland -
State of Jeffco Public Schools

PAGE: 2
ITEM: 6.B.

Enclosure, exhibits & attachments required to support the report

STATE OF THE DISTRICT

Superintendent Tracy Dorland



JEFFCO PUBLIC SCHOOLS





Vision

To be a thriving district where all students achieve their biggest dreams.

Mission

To provide a world-class education that prepares all Jeffco students for bright and successful futures locally & globally.

Values

Focus on Students | Excellence | Equity | Integrity | Belonging

4 Priorities

1. Our Learners: Our Future

Culture of Instructional Excellence
Extraordinary Student Experience

2. Our People: Our Strength

3. Our Operations: Our Foundation

4. Our Communities: Our Legacy

2023-24 Major Initiatives *(that guide all priorities)*

Major Initiative #1:
Student Outcomes

Major Initiative #2:
Central Services in Support of Student Outcomes

Going from Vision to Impact

Jeffco Thrives 2025



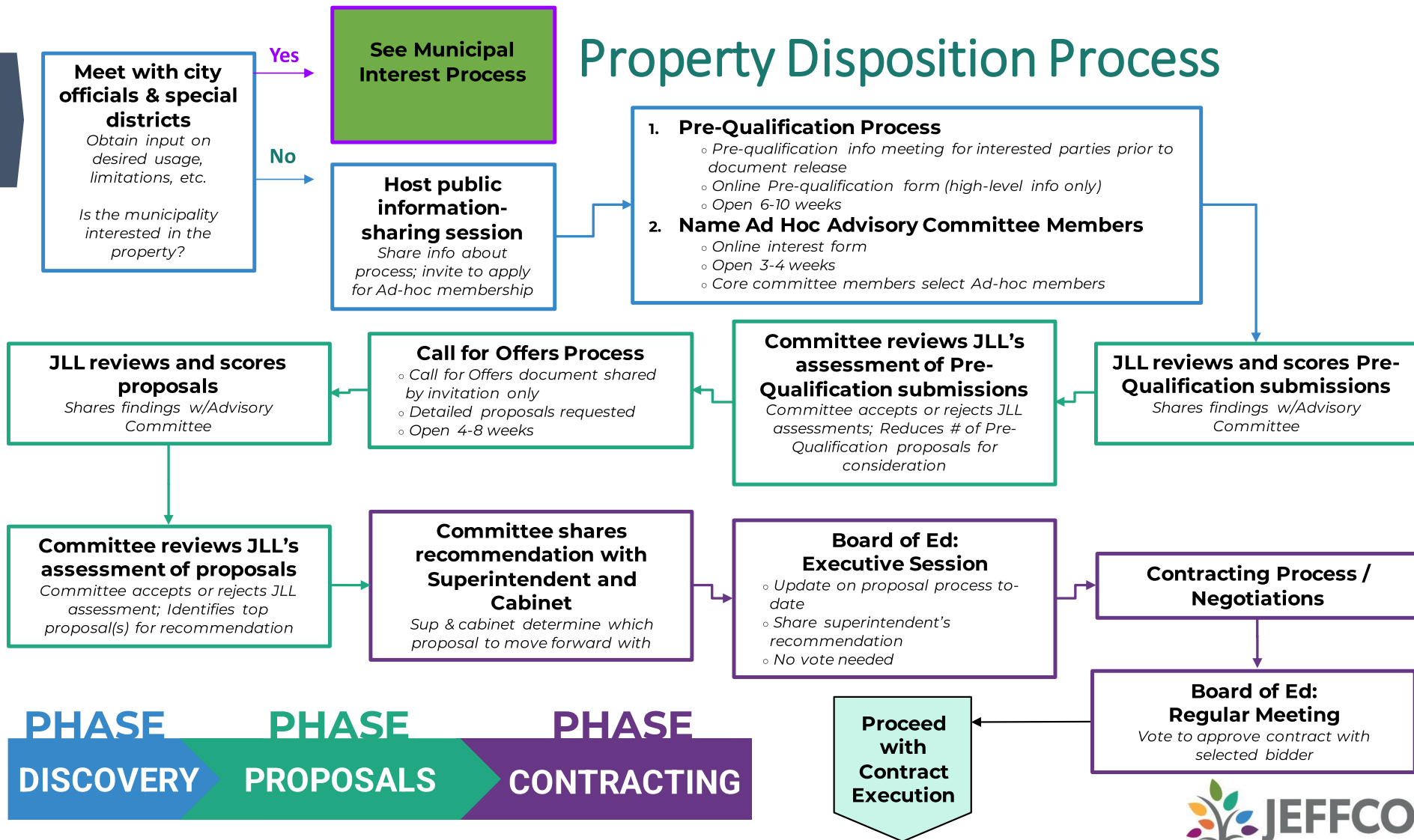
Jeffco is a leader building a community of leaders.

- 12 comprehensive Jeffco high schools and seven of our charter schools **graduated students at a rate of 90%** or higher in the 2022-23 school year.
- **1,000 students** enrolled in Jeffco's **career and technical education** programs (CTE) last year.
- More than 5,500 Jeffco students were concurrently enrolled in college classes, **collectively earning 29,188 college credits** = \$4.48M in tuition savings.
- In 2023, 785 students were enrolled in a Work Based Learning course that includes **internships and apprenticeships**.

Jeffco is a leader building a community of leaders.

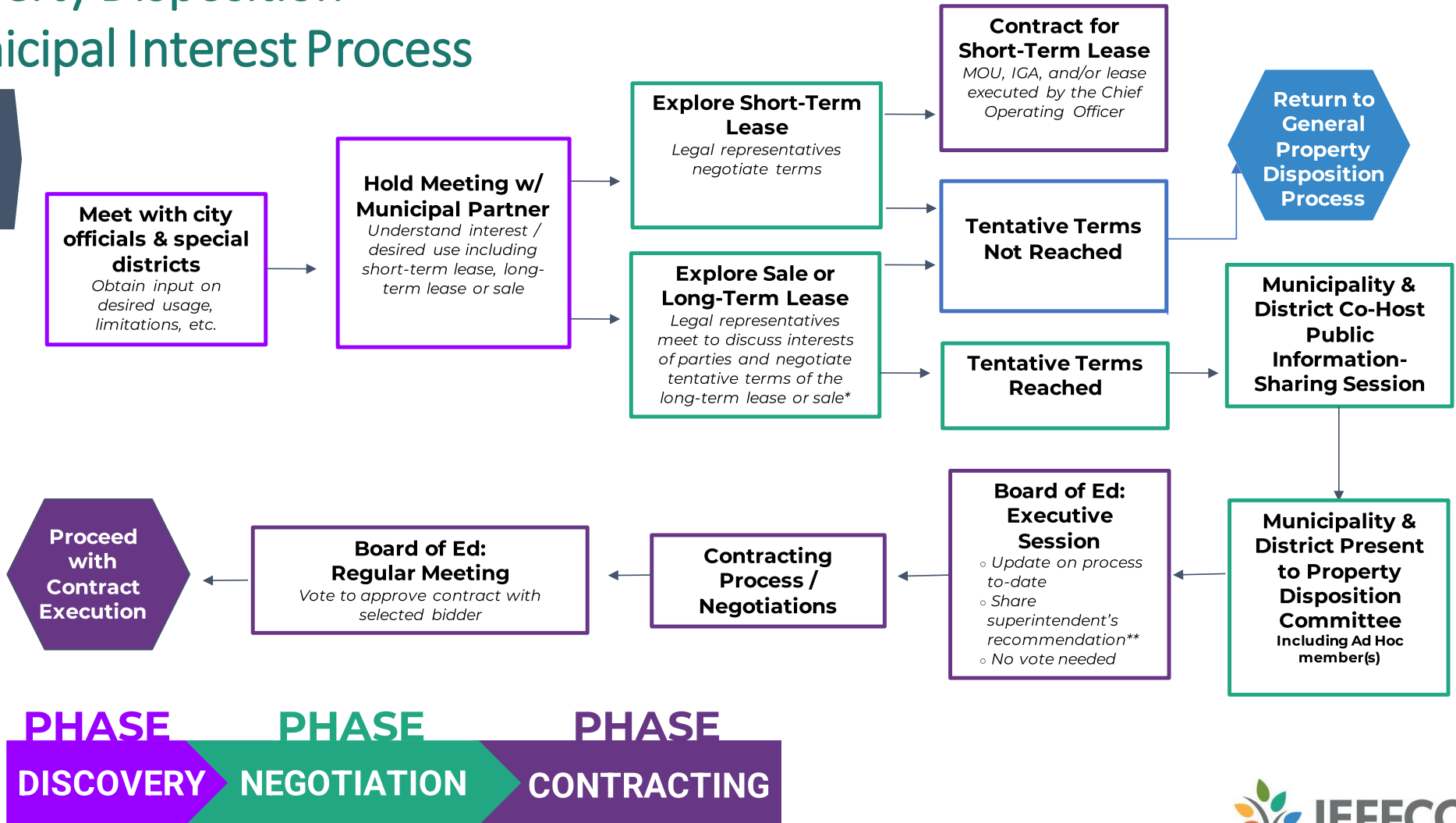
- All elementary schools implemented an approved comprehensive **core literacy resource**.
- New **resources for math** are being implemented spanning school years 2022-2025.
- **Addressing enrollment declines**, which has allowed us to launch a more equitable student-based budgeting formula.
- **Launch property disposition process** to build our capital reserve to invest in capital improvements in today's schools for today's students ; 3 properties have been approved for surplus.

Property Disposition Process



Property Disposition Municipal Interest Process

Board Votes “Yes” to Surplus
Each surplus property will go through this process



How Schools Are Funded

The state legislature sets total funding for each school district each year. Think of our funding as a pitcher, set by the state and filled with state and local funding.

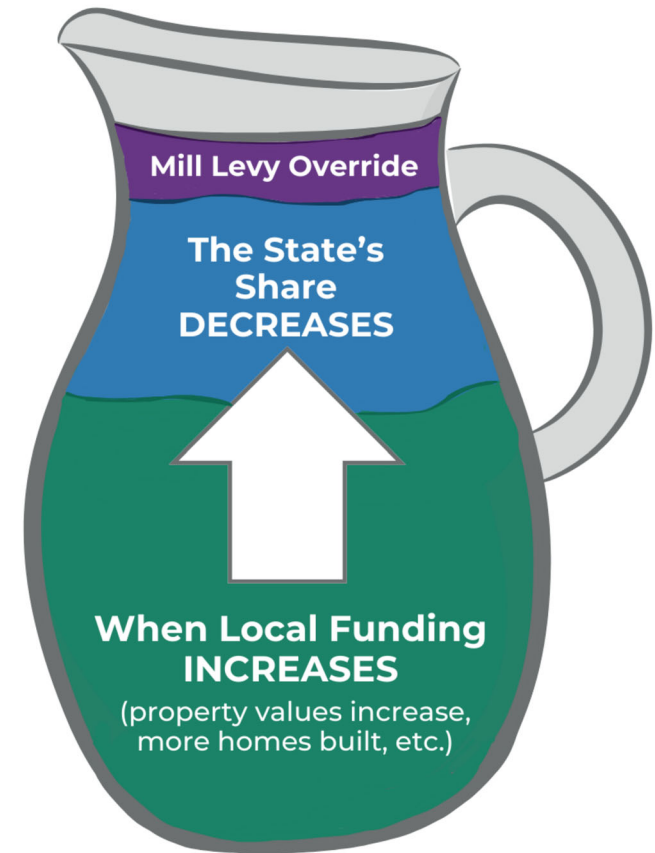
Local Share = Fixed tax rate set by the state of Colorado and applied to all taxpayers. State law says Jeffco must certify 27 mills as a local contribution.

State Share = Funding from State Income Tax and Sales Tax allocated by Legislature.

Mill Levy Override = Voter approved additional Tax that goes straight to Jeffco Public Schools, outside the total program computation.

More Local Share = Less State Share

An increase in local funding due to economic growth and rising property taxes does not provide our schools with more money (and it does not increase the size of the pitcher) — it just means the state contributes less.



Jeffco's Mill Levy Overrides

If each of the overrides passed by voters **adjusted according to local inflation**, the overrides **would total approximately \$205M.**

Instead, they total about \$150M, resulting in \$55M not going to our students.



Year	Voter Approved Dollar Amount (millions)	Inflation Adjusted Amount (millions)
1999-00	\$25	\$25
2002-03	\$35.6	\$38.5
2004-05	\$74.3	\$78.5
2012-13	\$74.3	\$89.3
2012-13	\$113.3	\$131.6
2018-19	\$113.3	\$147.5
2018-19	\$146.3	\$185.5
2022-23	\$149.8	\$204.9

Money Not
Going to Our
Students

\$55 million

Market Analysis Compensation

Ranking of 1 = highest salary, ranking 6 or 7 = lowest salary

JCEA Teacher Salary

Comparison districts: Adams 12, Boulder Valley, Cherry Creek, Denver, Littleton, Jeffco

BA Step 1: 5 out of 6, 3.5% below average starting pay

Mid-Point: 6 out of 6, 7.5% below average mid-point

Maximum: 6 out of 6, 9.5% below average maximum

JESPA Independence Support Paraprofessional

Comparison districts: Adams 12, APS, Boulder Valley, Cherry Creek, Denver, Doug Co, Jeffco

Mid-Point: 6 out of 7, 7% below average mid-point

JESPA Paraprofessional

Comparison districts: Adams 12, APS, Boulder Valley, Cherry Creek, Denver, Doug Co, Jeffco

Mid-Point: 7 out of 7, 10% below average mid-point

Elementary Principal

Comparison districts: Adams 12, APS, Cherry Creek, Denver, Doug Co, Jeffco

Mid-Point: 5 out of 6, 6% below average mid-point





**An investment in
Jeffco employees is
an investment in the
local community.**

Salary & Benefits
account for **85%** of
Jeffco's Expenses

81% of Jeffco employees
live in Jefferson County



2023-24 Major Initiatives *(that guide all priorities)*

Major Initiative #1:
Student Outcomes

Major Initiative #2:
Central Services in Support of
Student Outcomes

Major Initiative #1: Student Outcomes

- Instructional Excellence Across our District
- Building a Culture of Trust and Belonging
- Ensuring Data Literacy For All Leaders
- Planning for High School Reimagined

Major Initiative #2: Central Services in Support of Student Outcomes

- Building a values-based culture
- Modernizing business processes and systems
- Generating a Capital Investment Plan aligned to current enrollment shifts and the needs of the future
- Organizing to maximize district, family and community partnership
- Ensuring Financial Sustainability



REPORT TO CITY COUNCIL

AGENDA ITEM
8.A.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: Consent Agenda

Report in Brief

1. R24-023, A Resolution Authorizing an Agreement by and between the City of Arvada and Sturgeon Electric Company, Inc. for Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, and 23-TC-03, in an Amount not to Exceed \$2,414,978.50
2. R24-024, A Resolution Authorizing a License Agreement by and between the City of Arvada and the City and County of Denver, Board of Water Commissioners, for the Installation of Fiber Optic Conduit at the Long Lake Sporting Complex
3. R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023

Suggested Motion: Moved by: _____ I move that the Consent Item(s),
Number(s) _____
be
(Removed from the Consent Agenda and Heard Upon Item _____) (Referred to a Workshop) (Postponed
Indefinitely).

YES _____ NO _____ ABSENT _____

That All/Remaining Consent Items be (Approved) (Rejected).

YES _____ NO _____ ABSENT _____

Prepared by:
Chris Koch, CCO Admin

Reviewed by:

Approved by:

Enclosure, exhibits & attachments required to support the report



REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
8.A.1.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: R24-023, A Resolution Authorizing an Agreement by and between the City of Arvada and Sturgeon Electric Company, Inc. for Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, and 23-TC-03, in an Amount not to Exceed \$2,414,978.50

Report in Brief

The attached resolution authorizes an agreement with Sturgeon Electric Company for an amount not to exceed \$2,414,978.50. These three projects will involve a Traffic Signal rebuild at the intersection of Kipling Pkwy & Allendale Dr, improvements to Traffic Signal components, communications and timings of Signals along the W 86th Pkwy and Indiana St corridors, and the installation of a Traffic Signal at the intersection of Candelas Pkwy & 92nd/93rd Dr.

The Arvada team recommends that the City Council approve R24-023, A Resolution Authorizing An Agreement By And Between The City Of Arvada And Sturgeon Electric Company, Inc. For Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, And 23-TC-03, In An Amount Not To Exceed \$2,414,978.50.

Financial Impact

Funding for these projects are available in CIP projects: 93866, 93865, and 93876.

Background

The City of Arvada has identified needs to replace aging Traffic Signal infrastructure at the intersection of Kipling Pkwy & Allendale Dr. This project will include improvements to the pedestrian curb ramps to bring them up to ADA standards, as well as a mill and overlay of pavement at and approaching the intersection to improve pavement conditions.

The City of Arvada has selected the W 86th Pkwy and Indiana St (North of W 86th Pkwy) Corridors as the first in the City to be upgraded and interconnected via the Arvada Fiber Optic Network (AFON) to utilize Intelligent Transportation Systems (ITS). This project will bring the ability to remotely monitor and make adjustments to timing and detection along these corridors to improve efficiency and safety.

The City of Arvada has identified the need to construct a new Traffic Signal at the intersection of Candelas Pkwy & 92nd/93rd Dr to provide improve safety for vehicles and pedestrians. This project will also include improvements to the curb ramps to bring them up to ADA standards.

Discussion

Bids for this project were opened at 2:00 p.m. on January 9, 2024, and a total of four (4) bids were received. The bids are summarized here as follows:

	Contractor	Bid Amount	Confirmend to Meet Minimum Qualifications as stated in the RFB
1	Sturgeon Elecitrc Company	\$2,414,978.50	Yes

SUBJECT: R24-023, A Resolution Authorizing an Agreement by and between the City of Arvada and Sturgeon Electric Company, Inc. for Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, and 23-TC-03, in an Amount not to Exceed \$2,414,978.50

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2	Lumin8 Transportation Technologies	\$2,729,151.50	Yes
3	Morton Electric Inc.	\$2,950,855.50	Yes
4	Lighthouse Transportation Group	\$3,136,529.00	Yes

The lowest qualified bidder was Sturgeon Electric Company. They have successfully completed three Traffic Signal Rebuilds for the City of Arvada over the last two years. This work is expected to begin with a notice to proceed after contract execution and will have deadlines for completion between 45-90 days depending on the project. Equipment lead times put estimated completion of all projects in Fall 2024.

Funds for these projects are available in CIP projects: 93866, 93865, and 93876.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

N/A

Strategic Alignment

The recommended action aligns with the following Principle within the Infrastructure Priority Area of the City Council Strategic Plan:

Provides safe and efficient connections to modes of transportation, including transit, streets, sidewalks, and bikeways with a focus on enhanced technology at high-priority intersections, improving safety and minimizing traffic congestion

Alternative Courses of Action

N/A

Recommendation for Action

The Arvada team recommends that the City Council Approve R24-023, A Resolution Authorizing An Agreement By And Between The City Of Arvada And Sturgeon Electric Company, Inc. For Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, And 23-TC-03, In An Amount Not To Exceed \$2,414,978.50.

Suggested Motion:

I move that R24-023, A Resolution Authorizing An Agreement By And Between The City Of Arvada And Sturgeon Electric Company, Inc. For Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, And 23-TC-03, In An Amount Not To Exceed \$2,414,978.50, be (approved) (rejected).

Prepared by:
Trandon Struck, Traffic Engineer II

Reviewed by:

SUBJECT: R24-023, A Resolution Authorizing an Agreement by and between the City of Arvada and Sturgeon Electric Company, Inc. for Traffic Signal And Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01, and 23-TC-03, in an Amount not to Exceed \$2,414,978.50

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Approved by:

Jacqueline Rhoades, Public Works Director	1/24/2024
Bryan Archer, Director of Finance	1/25/2024
Tammy Hedlund, Legal Specialist	1/25/2024
Erika Pierce, Litigation Paralegal	2/13/2024
Tammy Hedlund, Legal Specialist	2/14/2024
Kelsy Sargent, Assistant City Attorney	2/14/2024
Rachel Morris, City Attorney	2/21/2024
Don Wick, Deputy City Manager	2/21/2024
Lorie Gillis, City Manager	2/22/2024

Enclosure, exhibits & attachments required to support the report

RESOLUTION NO. R24-023

A RESOLUTION AUTHORIZING AN AGREEMENT BY AND BETWEEN THE CITY OF ARVADA AND STURGEON ELECTRIC COMPANY, INC. FOR TRAFFIC SIGNAL AND INTERSECTION IMPROVEMENTS, PROJECT NOS. 20-TC-07, 22-TC-01, AND 23-TC-03, IN AN AMOUNT NOT TO EXCEED \$2,414,978.50

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. The Mayor or Mayor Pro Tem is authorized to sign and the City Clerk to attest, in form approved by the City Attorney, an Agreement, which is in substantially the same form as that attached hereto, by and between the City of Arvada and Sturgeon Electric Company, Inc. for traffic signal and intersection improvements in an amount not to exceed \$2,414,978.50.

Section 2. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 4th day of March, 2024.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

Rachel A. Morris, City Attorney

By: _____

**AN AGREEMENT BY AND BETWEEN THE CITY OF ARVADA AND
STURGEON ELECTRIC COMPANY, INC. FOR TRAFFIC SIGNAL AND
INTERSECTION IMPROVEMENTS, PROJECT NOS. 20-TC-07, 22-TC-01, AND
23-TC-03, IN AN AMOUNT NOT TO EXCEED \$2,414,978.50**

This Agreement made this _____ day of _____, 2024, by and between the City of Arvada, a home rule municipal corporation (“Arvada” and/or “City”) and Sturgeon Electric Company, Inc. (“Contractor”).

WITNESSETH: That for and in consideration of the covenants, promises, and payments hereinafter mentioned:

WITNESSETH:

WHEREAS, Arvada solicited proposals from interested construction professionals for the provision of construction services related to three projects, specifically (1) 22-TC-07 Kipling Pkwy & Allendale Dr. Intersection Improvements, (2) 22-TC-01 W. 86th Pkwy Signal Connectivity, and (3) 23-TC-03 W. 92nd Dr. – W. 93rd Dr. & Candelas Pkwy Traffic Signal Improvements, as described in the Contract Documents (the “Projects” or the “Work”); and

WHEREAS, based on Contractor’s submissions, Arvada has selected Contractor for the Projects; and

WHEREAS, Arvada and Contractor desire to enter into this Agreement regarding the construction of the Projects.

NOW, THEREFORE, for and in consideration of the covenants, promises, and payments hereinafter mentioned, the parties agree as follows:

ARTICLE 1. GENERAL DESCRIPTION OF SERVICES

- 1.1. **The Services.** Contractor agrees to furnish or arrange for the construction services set forth in the Contract Documents and required for the completion of the Projects within the timeframe provided in the Contract Documents. Contractor represents that it is thoroughly familiar with, and understands, the requirements of the Projects’ scope and is experienced in the construction of projects of the type and scope contemplated by the Contract Documents. Contractor represents to Arvada that Contractor has all necessary education, skill, knowledge, expertise and experience required for construction of the Projects, and will maintain, at all times during the term of this Agreement, such personnel on its staff to provide the services contemplated hereby within the time periods required hereby. In addition, Contractor represents that it or Arvada-approved subcontractors or subconsultants performing services under this Agreement have all applicable licenses required by the State of Colorado to perform such services and all required insurance coverage as required by this Agreement and by law.

- 1.2. **Cooperation.** The Contractor shall endeavor to develop, implement and maintain, a spirit of cooperation, collegiality, and open communication with Arvada, Arvada’s Consultants, and Arvada’s residents so that the goals and objectives of each are clearly understood, potential problems are resolved promptly, and upon completion, the Project is deemed a success by all interested parties.
- 1.3. **Preparation/Sufficiency of Site.** Before commencing the Projects, the Contractor shall (i) visit and thoroughly inspect the Project Sites and any structure(s) or other man-made features to be modified and become familiar with local conditions under which the Projects will be constructed and operated; (ii) familiarize itself with the survey, including the location of all existing buildings, utilities, conditions, streets, equipment, components and other attributes having or likely to have an impact on the Projects; (iii) familiarize itself with Arvada’s engineering and design requirements, design objectives, and budget for the Projects; (iv) familiarize itself with pertinent Project dates and programming needs, including the Projects’ schedule; (v) review and analyze all Projects’ geotechnical, environmental, and construction materials tests, investigations and recommendations, (vi) review all specifications; and (vii) gather any other information necessary for a thorough understanding of the Projects. Claims by Contractor resulting from Contractor’s failure to familiarize itself with the Site or pertinent documents shall be deemed waived.
- 1.4. **Contract Documents.** The Contract Documents are incorporated herein by reference. The term “Contract Documents” means and includes the following:
- A. Arvada’s solicitation entitled CSB 23-PWT-115 Traffic Signal and Intersection Improvements (“CSB”), including all exhibits and/or addenda;
 - B. Contractor’s Response to CSB 23-PWT-115, Advertisement for Bid, Bid Proposal, Bid Schedule, Bid Bond (“Contractor’s Response”);
 - C. Notice of Award;
 - D. Performance and Payment Bond;
 - E. Notice(s) to Proceed;
 - F. Change Orders (if any);
 - G. City of Arvada 2023 Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements;
 - H. Requests for Information and Responses (if any);
 - I. All supplementary requirements regarding wage rates, E.E.O., affirmative action and all other Federal-State requirements as outlined in the specifications (if applicable).
- 1.5. **Interpretation of Contract Documents.** In the event of conflicts or discrepancies among the Contract Documents, the documents shall govern in the following order: (1) the Agreement; (2) Arvada’s solicitation CSB 23-PWT-115; (3) City of Arvada 2023 Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements; (4) Contractor’s Response; (5) Change Orders; (6) Requests for Information and Response.

ARTICLE 2. ARVADA'S DUTIES, OBLIGATIONS AND RESPONSIBILITIES

- 2.1. **Project Information.** Contractor acknowledges that Arvada has provided Contractor with information regarding Arvada's requirements for the Projects as set forth in the Contract Documents, including the Projects' Specifications.
- 2.2. **Arvada's Budget.** Arvada has established, and will update, an overall budget for each Project, including amounts allocated for construction, Arvada's other costs, and reasonable contingencies related to these costs as appropriate.
- 2.3. **Arvada's Representative.** Arvada will designate a representative authorized to act on Arvada's behalf with respect to the Projects.
- 2.4. **Purpose of Arvada's Review.** Arvada's review, inspection, or approval of any work, Testing Documents, Applications for Payment, or other submittals shall be solely for the purpose of determining whether the same are generally consistent with Arvada's standards, policies and requirements. No review, inspection, or approval by Arvada of such work or documents shall relieve Contractor of its responsibility for the performance of its obligations under the Agreement or the accuracy, adequacy, fitness, suitability, or coordination of its construction services. Approval by any governmental or other regulatory agency or other governing body of any work, Testing Document, or the Construction Documents shall not relieve Contractor of responsibility for the performance of its obligations under this Agreement. Payment by Arvada pursuant to the Agreement shall not constitute waiver of any of Arvada's rights under the Agreement or at law, and Contractor expressly accepts the risk that defects in its performance, if any, may not be discovered until after payment, including final payment, is made by Arvada. Notwithstanding the foregoing, reasonable notice shall be given by Arvada to the Contractor if Arvada becomes aware of any fault or defect in the Project(s) or non-conformance with the Contract Documents.

ARTICLE 3. CONSTRUCTION SERVICES REQUIREMENTS AND STANDARDS

- 3.1. **Quality of Construction Services.** Contractor shall be responsible for the quality, completeness, accuracy, and coordination of the Work. Contractor shall provide construction services that meet all industry standards, including all environmental and regulatory requirements. Arvada will provide and be responsible for all material testing and all other testing if needed.
- 3.2. **Arvada's Right to Carry Out the Work.** If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven calendar day period after written notice from Arvada to commence and continue correction of such default or neglect with diligence and promptness, Arvada may after such seven-day period, without prejudice to other remedies Arvada may have, correct such deficiencies. In such a case, an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the cost of correcting such deficiencies, including compensation for any consultant's additional services and expenses made necessary by such default, neglect or failure. If payments then or thereafter due the Contractor are not

sufficient to cover such amounts, the Contractor shall pay the difference to Arvada within ten days of receipt of an invoice for such amounts from Arvada.

- 3.3. **Legal Standard.** Contractor shall furnish construction services in accordance with industry standards currently practiced by construction professionals on projects similar in size, complexity and cost to the Projects.
- 3.4. **Construction Standards.** The City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements controls construction for this project. The 2022 CDOT Standards Specifications for Road and Bridge Construction shall be used to supplement construction of items not described in the City of Arvada's specification manual. The following special provisions supplement or modify the City and/or CDOT Standard Specifications and take precedence over the City and/or CDOT Standard Specifications and plans. When specifications or special provisions contain both English units and SI units, the English units apply and are the specification requirement. When two documents conflict, the more stringent shall apply.
- 3.5. **Permits.** Contractor shall be responsible for obtaining all necessary permits and other governmental approvals necessary for the development of the Projects and shall obtain the same at the times necessary to meet the Projects' schedule. Contractor's responsibility includes providing environmental services and permitting coordination as further described in the Contract Documents.
- 3.6. **Notice of Non-Compliance.** Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Arvada, and shall at once report to Arvada any errors, inconsistencies or omissions discovered as well as any foreseeable constructability issues arising from each project's specifications and/or site conditions. If the Contractor performs any construction activity knowing or should have known it involves an error, inconsistent, omission or constructability issue in the Contract Documents without such notice to Arvada, the Contractor shall assume full responsibility for such performance and shall bear the full costs for correction, including reimbursement for any delay caused to the Project(s).

ARTICLE 4. CHANGES TO THE WORK

- 4.1. **Minor Contract Revisions.** Miscellaneous modifications in the work, ordered by the Project Engineer in the form of a field order, will be considered a minor contract revision. If the contractor feels that a field order issued by the Engineer entitles the contractor to a change in the total contract price or time, or both, (i.e. the contractor feels that the field order involves costs over and above the amount available in the Minor Contract Revisions bid item) then the Contractor shall notify the Engineer, in writing, within 15 days after receipt of the field order. The Contractor shall not execute any such field order changes ordered by the Engineer pending the receipt of a written Change Order document executed either by the City Manager or Mayor authorizing an increase in the total contract price. Any such work completed by the contractor prior to receipt of an executed Change Order

will be at the contractor's risk and be subject to removal by the contractor should a Change Order not be approved and executed by the City Manager or Mayor for such work.

- 4.2. **Field Orders.** An authorized representative of the Contractor shall acknowledge receipt of Field Orders by promptly signing all written field orders delivered to the job site. Verbal field orders given by Arvada will be recorded in writing in the municipal inspector's daily report that is to be signed by the Contractor's authorized representative.
- 4.3. **Field Engineered Changes.** Arvada may modify the construction plans including changing the slope and alignment of flow lines and appurtenances or modifying other improvements as necessary to accommodate construction around existing utilities or other field conditions. No additional compensation shall be made for minor costs and inconveniences incurred while performing field engineering changes as directed by Arvada or its Consultant. No additional compensation shall be made for any down time encountered while Arvada determines what field engineered changes would be appropriate to accommodate construction around existing utilities or other field conditions. Reasonable time must be allowed for Arvada or its Consultant to design field engineered changes. Any additional costs for performing field engineered construction changes to accommodate existing utilities or other field conditions and for also allowing Arvada reasonable time to design field engineered changes as necessary to complete the work shall be considered a subsidiary obligation of the contract.
- 4.4. **Pre-Construction Meetings.** Contractor agrees to assist in the preparation for and to participate in any pre-construction meetings with Arvada.
- 4.5. **Arvada Change Orders.** Arvada may, by written order signed by Arvada, at any time, and without notice to any surety, and subject to all appropriate adjustments, make changes within the general scope of this Contract in any one or more of the following: (a) changes in scope of services; (b) completion date; (c) contract amount; (d) any applicable material modifications; and, (e) any other matters that the parties deem necessary.
- 4.6. **Contractor Requested Change Orders.** The Contractor may request a Change in the Work ("Requested Change Order"), including one or more of the following: (a) changes in scope of services; (b) completion date; (c) contract amount; (d) any applicable material modifications; and, (e) any other matters that the parties deem necessary.
- 4.7. **Change Order Contents.** Any Requested Change Order shall include (a) a detailed description of the requested change to the original contract; (b) itemized documentation of any subcontractor costs; (c) the total costs associated with the proposed change; (d) the impact on the project completion date, if any, associated with the proposed change; and (e) a statement of the contractual basis for the requested change.
- 4.8. **Basis for Change Order Requests.** The following may be considered a valid basis for requesting a Change Order: (a) Contract Document error or omission; (b) Arvada induced enhancement; (c) unforeseeable constructability issue; (d) unforeseeable geotechnical issue. The following will not be considered a valid basis for requesting a Change Order

absent extraordinary circumstances: (a) utility relocation; (b) utility conflicts; (c) foreseeable geotechnical issue; (d) foreseeable constructability issue; (e) defective construction.

- 4.9. **Written Authorization Required.** The Contractor shall not proceed with any change in the Work without the appropriate written authorization.

ARTICLE 5. SUPERVISION AND CONSTRUCTION PROCEDURES

- 5.1. **Supervision.** The Contractor shall supervise and direct the Work using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work under this Contract, unless Contract Documents give other specific instructions concerning these matters.
- 5.2. **Acts and Omissions of Subcontractors and Agents.** The Contractor shall be responsible to Arvada for acts and omission of the Contractor's employees, Subcontractors, and their agents and employees, and other persons performing portions of the Work under a contract with the Contractor
- 5.3. **Inspection and Subsequent Work.** The Contractor shall be responsible for inspection or portions of Work already performed under this Contract to determine that such portions are in proper condition to receive subsequent Work.

ARTICLE 6. COMPENSATION.

- 6.1. **Commencement & Completion of Services.** Contractor will furnish all material, supplies, tools, equipment, labor, and other services necessary for the commencement and completion of the Work within Arvada's timeframe and monetary limitations as set forth below:
- 6.1.1. **Project No. 20-TC-07.** All work shall be completed, including clean-up, within 90 working days after the date specified in the Notice to Proceed. The Contractor shall agree to pay to Arvada the sum of \$1,400.00 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by change order.
- 6.1.2. **Project No. 22-TC-01.** All work shall be completed, including clean-up, within 45 working days after the date specified in the Notice to Proceed. The Contractor shall agree to pay to Arvada the sum of \$1,400.00 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by change order.
- 6.1.3. **Project No. 23-TC-03.** All work shall be completed, including clean-up, within 60 working days after the date specified in the Notice to Proceed. The Contractor shall agree to pay to Arvada the sum of \$1,400.00 for each calendar day that the

work exceeds the allotted contract time. Contract time may be adjusted by change order.

6.1.4. **Compensation Amount.** Contractor agrees to perform the Work for an amount not to exceed \$2,414,978.50, as further detailed below:

6.1.4.1. Project No. 20-TC-07: Contractor agrees to perform this Project for an amount not to exceed \$863,928.50.

6.1.4.2. Project No. 22-TC-01: Contractor agrees to perform this Project for an amount not to exceed \$802,041.00.

6.1.4.3. Project No. 23-TC-03: Contractor agrees to perform this Project for an amount not to exceed \$749,009.00.

6.2. **Term.** The term of the Agreement shall be for one year from Arvada's execution of the Agreement, unless otherwise agreed to in writing by the parties, subject to availability of funds, or Arvada's termination for convenience under the Contract Documents.

6.3. **Renewal.** This Agreement may be renewed by Arvada for four consecutive one-year terms. Any renewals shall be on the same terms as this Agreement, including the Compensation Amount, and automatic unless Arvada gives Contractor 30 calendar days' written notice to terminate the Agreement.

6.4. **Additional Services.** While Arvada has listed its major requirements for its solicitation in the Contract Documents, Arvada may, during the term of this Agreement, wish to purchase other related services identified and offered by Contractor, based upon the Bid Schedule amounts contained in Contract Documents. Arvada reserves the right to award these ancillary items to Contractor. This option, if exercised, in no way obligates Arvada to pursue additional services with Contractor.

6.5. **Payment for Services.** At least twenty (20) calendar days before the date established for each monthly progress payment, the Contractor shall submit to Arvada an itemized Application for Payment for construction completed in accordance with the Bid Schedule. Such application shall be supported by such data substantiating the Contractor's right to payment as Arvada may require, such as copies of invoices or requisitions from subcontractors and material suppliers and reflecting retainage. Arvada shall pay NET 30 for services performed in accordance with the Bid Schedule and with this Agreement, but in no event shall the total Contract Amount exceed \$2,414,978.50 absent a properly executed Change Order. Measurement of the work performed and monthly payment shall be made in accordance with requirements of the Measurement and Payment Section in the Contract Documents unless otherwise specifically provided herein.

6.6. **Non-Conforming Materials or Construction.** Where materials installed or the finished product fails to meet minimum requirements of the Contract Documents, the basis of determining final payment to the Contractor shall be determined in accordance with the

City of Arvada 2023 Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

- 6.7. **Retainage Requirements.** Contractor agrees to submit monthly invoices together with any retainage requirements as prescribed by Colorado state statutes (*see e.g., C.R.S. § 24-91-101 et seq.*). Payment from Arvada will be paid NET 30 days. Invoices will accurately reflect actual work completed by Contractor and its subconsultants or subcontractors.

ARTICLE 7. MISCELLANEOUS.

- 7.1. **Waiver.** No provision of this Agreement may be waived except by written agreement of the parties. A waiver of any provision on one occasion shall not be deemed a waiver of that provision on any subsequent occasion, unless specifically stated in writing. A waiver of any provision shall not affect or alter the remaining provisions of this Agreement.
- 7.2. **Strict Compliance.** No failure of Arvada to insist upon strict compliance by the Contractor with any provision of the Contract Documents shall operate to release, discharge, modify, change or affect any of the Contractor's obligations.
- 7.3. **Successors and Assigns.** Arvada and Contractor, respectively, bind themselves, their partners, successors, assigns and legal representatives to the other party to this Agreement and to the partners, successors and assigns of such other parties with respect to all covenants of this Agreement. Contractor shall not assign (whether partially or wholly) this Agreement whether by operation of law or otherwise, without the written consent of Arvada. If Contractor makes an assignment in accordance with this provision, Contractor shall nevertheless remain legally responsible for all obligations arising under the Agreement, unless otherwise agreed in writing by Arvada.
- 7.4. **Additional Documents.** The parties agree to execute any additional documents and to take any additional action that is necessary to carry out this Agreement.
- 7.5. **Binding Effect.** This Agreement shall inure to the benefit of, and be binding upon, the parties, their respective legal representatives, successors, heirs, and assigns; provided, however, that nothing in this paragraph shall be construed to permit the assignment of this Agreement except as otherwise expressly authorized herein. All provisions of this Agreement which contain continuing obligations shall survive its expiration or termination.
- 7.6. **Paragraph Captions.** The paragraph captions in this Agreement are set forth only for the convenience and reference of the parties and are not intended in any way to define, limit, or describe the scope or intent of this Agreement.
- 7.7. **Integration, Amendment, and Severability.** This Agreement represents the entire agreement between the parties, and there are no oral or collateral agreements or understandings. This Agreement may be amended only by an instrument in writing signed by the parties. If any other provision of this Agreement is held invalid or unenforceable, no other provision shall be affected by such holding, and all of the remaining provisions of

this Agreement shall continue in full force and effect if the essential terms and conditions of this Agreement for both parties remain valid, legal, and enforceable.

- 7.8. **Notices.** Any notice or notification required or permitted by the Agreement shall be in writing and shall be deemed to have been sufficiently given for all purposes if sent electronically, or by certified mail or registered mail, postage and fees prepaid, addressed to the party to whom such notice is to be given at the address set forth on the signature page below, or at such other address as has been previously furnished in writing, to the other party or parties. Such notice or notification shall be deemed to have been given when electronically sent or when deposited in the United States mail.
- 7.9. **Binding Authority.** Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation. This Agreement may be executed in counterpart(s), each of which shall be deemed to be an original, and all of which, taken together, shall constitute one instrument.
- 7.10. **Preferences in Employment of Colorado Labor.** To the extent that obligations and responsibilities may be established by C.R.S. § 8-17-101 *et seq.*, as amended, with respect to certain public entities and those contracting therewith as to the procurement of services:

7.10.1. Colorado labor shall be employed to perform eighty percent (80%) of the work.

7.10.2. Any waiver of this requirement must comply with C.R.S. § 8-17-101 *et seq.*, as amended.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement which shall be deemed an original on the date first above written.

[signatures on next page]

DATED this _____ day of _____, 2024.

CITY OF ARVADA, a Colorado home
rule municipal corporation

Lauren Simpson, Mayor
City of Arvada
8101 Ralston Road
Arvada, CO 80002

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris

By: _____

STURGEON ELECTRIC COMPANY, INC.

Jim Bushnell
Vice President, Colorado Transportation
jbushnell@myrgroup.com

Exhibit A

An Agreement By And Between The City Of Arvada And
Sturgeon Electric Company, Inc. For Traffic Signal And
Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01,
And 23-TC-03, In An Amount Not To Exceed \$2,414,978.50



COMPETITIVE SEALED BID

BID #: 23-PWT-115

Title: Traffic Signal and Intersection Improvements
(20-TC-07, 22-TC-01, 23-TC-03)

Issue Date: 12/6/2023

Pre-bid Meeting: 12/14/2023 - 11:00 am MT MANDATORY
Location: Arvada City Hall, PW Conference Room, 2nd Floor
8101 Ralston Rd, Arvada, CO 80002

Questions Deadline: 12/21/2023 2:00 pm MT
Questions must be submitted through BidnetDirect.com. Responses will be posted on Bidnet via addendum.

Bid Due Date: 1/9/2024 2:00 pm MT

Virtual Opening Information Join Zoom Meeting:
<https://us06web.zoom.us/j/86207016711?pwd=CH6cjYKPrLS36vyx3Nwk6LacZYAT0e.1>
Join by phone: (719) 359 4580
Meeting ID: 862 0701 6711 Passcode: 967669

Bid Delivery address: Electronic Submissions must be submitted online at BidNetDirect.com by the above date and time.
Late responses will not be considered for award.

Project Delivery Date: August, 2024

For additional administrative information not related to the project, contact: Dawn Krank, dkrank@arvada.org
Contact with the requesting department may result in vendor disqualification.

ARVADA'S VISION MISSION AND VALUES

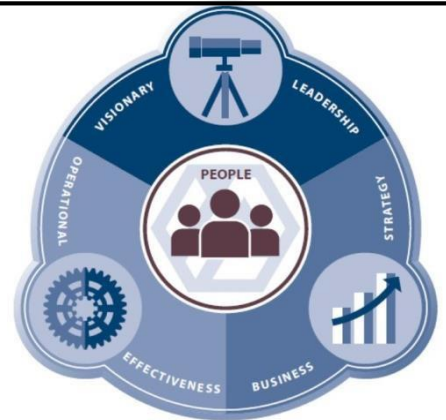
VISION: We dream big and deliver.

MISSION: We are dedicated to delivering superior services to enhance the lives of everyone in our community.

VALUES:

Innovation – We excel in creativity, flexibility and the use of best practices while valuing diverse backgrounds, ideas and perspectives. **Passion** – We are a high performing, inclusive team inspiring each other to pursue excellence.

Opportunity – We value our diversity, embrace possibilities, face challenges, persevere and take action to deliver quality results.



Documents included in this Request:

Cover Page	page 1
Advertisement for Bidders	page 2
General Terms and Conditions	page 3
Special Terms and Conditions for Bidders	page 6
Insurance Requirements	page 8
Submittal Forms to be completed and returned	
• Bid Bond	page 11
• Bid Proposal	page 12
• Required Contractor Submittal Form	page 14
Preview of Documents if Awarded	page 15

Attachments

- A. 20-TC-07 Kipling Pkwy & Allendale Dr Intersection Improvements Project Special Conditions, Bid Schedule and Plans
- B. 22-TC-01 W 86th Pkwy Signal Connectivity Project Special Conditions, Bid Schedule and Plans
- C. 23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements Project Special Conditions, Bid Schedule and Plans

ADVERTISEMENT FOR BIDS

Submit bids electronically on Bidnetdirect.com for the construction of City of Arvada, Project Nos. 20-TC-07, 22-TC-01, 23-TC-03 Project Title: Traffic Signal and Intersection Improvements (20-TC-07, 22-TC-01, 23-TC-03)

This bid package contains three projects. Award/s will be made per individual project or as a whole, whichever is in the best interest of the City of Arvada.

- 1) **20-TC-07 Kipling Pkwy & Allendale Dr Intersection Improvements**
- 2) **22-TC-01 W 86th Pkwy Signal Connectivity**
- 3) **23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements**

The BID DOCUMENTS, consisting of Advertisement for Bids, General Terms and Conditions, Special Terms and Conditions, Insurance Requirements, Project Special Provisions, Addendum when issued, Bid Bond, Bid Proposal, Bid Schedule, Performance and Payment Bond, Submittal Checklist and References, Sample documents, and the Project Drawings may be examined at the following location: www.bidnetdirect.com

No cost bid documents may be obtained at www.bidnetdirect.com on or after December 6, 2023.

Bidders, subcontractors and suppliers must be familiar with the current City of Arvada Engineering Code of Standards and Specifications, dated October 2 ,2023, which will be combined with the Bid Documents to form the Contract Documents for the Project. A copy of the Standards may be obtained from the office of the City Engineer upon a non-refundable payment of \$50.00. Holders will be notified when supplemental revisions and additions are available as they are adopted. The Standards are also available at no cost on the City's web site at <https://www.arvadaco.gov/167/Engineering-Code>. Holders are responsible for keeping current their City of Arvada Engineering Code of Standards and Specifications.

Date: 12/6/23

CITY OF ARVADA



Jenny Wolfschlag
City Engineer
8101 Ralston Road
Arvada, Colorado 80002

GENERAL TERMS AND CONDITIONS

1. PAYMENTS TO CONSTITUTE CURRENT EXPENDITURES. Financial obligations of the City of Arvada, if any, after the current fiscal year are contingent on funds for that purpose being appropriated, budgeted and otherwise made available by the City Council for the City of Arvada. The City of Arvada's obligations under the Agreement shall be from year to year only and shall not constitute a multiple-fiscal year direct or indirect debt or other financial obligation of the City of Arvada within the meaning of Article X, Section 20 of the Colorado Constitution.

2. TAXES. The City of Arvada is not subject to taxation. Contractor shall not invoice Arvada for any state, federal or local taxes whatsoever. Upon written notification by the City of Arvada, Contractor shall reimburse the City of Arvada in a timely manner for any taxes erroneously paid by the City of Arvada. The Colorado Department of Revenue, Certification of Exemption for Colorado State Sales/Use Tax account number for the City of Arvada is 98-01789-0000. An exemption certificate will be provided, where applicable, upon request.

3. NO INDEMNIFICATION BY ARVADA. The City of Arvada is prohibited by Article XI, Section 1, Colorado Constitution, from indemnifying anyone. Therefore, notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, the City of Arvada does not indemnify Contractor or anyone else under this Agreement.

4. INDEMNIFICATION OF CITY.

A. Contractor: Notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, Contractor agrees to investigate, defend, indemnify and hold harmless Arvada, its elected officials, officers, employees, agents, insurers, and representatives from and against any claims, costs, losses, expenses, demands, actions, or causes of action, including reasonable attorney fees and other costs and expenses of litigation, which may be asserted against or incurred by Arvada or for which Arvada may be liable, arising from the negligence, willful misconduct, or other fault of Contractor or its employees, agents, or subcontractors in performance of the Agreement. Nothing herein is intended to constitute a covenant, promise, or agreement to indemnify and hold harmless Arvada from any liability or damages directly caused by or attributable to Arvada's own negligence. Nothing herein intended to be nor may be construed as a waiver of the immunities, protections, or limitations on damages provided to Arvada by the Colorado Governmental Immunity Act, C.R.S. §§ 24-10-101 *et seq.*, as it may from time to time be amended.

(or)

B. Architect, Engineer, Surveyor Services for Public Works Construction: Contractor agrees to hold harmless and indemnify Arvada, its officers and employees, from and against any liability or any claims, suits, or actions arising out of, made, or asserted for any damage to persons or property resulting from errors, omissions or fault of Contractor in connection with the performance by Contractor of obligations under this solicitation and any subsequent Agreement with Arvada. Nothing herein is intended to constitute a covenant, promise, or agreement to indemnify and hold harmless Arvada from any liability or damages directly caused by or attributable to Arvada's own negligence. Nothing herein is intended to be nor construed as a waiver of the immunities, protections, or limitations on damages provided to Arvada by the Colorado Governmental Immunity Act, C.R.S. §§24-10-101 *et seq.*, as it may from time to time be amended.

5. NO OPINION OF COUNSEL LETTERS. Pursuant to Section 8.1 of the Arvada City Charter, the City Attorney provides advice to the City Council and City Officials in matters relating to their official powers and duties, and will perform such other duties as City Council may prescribe by ordinance or resolution. The City Attorney will not issue opinion of counsel letters, memoranda or statements to third parties, including, but not limited to that any contract or lease is binding on the public entity, enforceable, etc.

6. CONFIDENTIAL DOCUMENTS. Contractors may designate specific pages or sections within their submission as trade secret or confidential commercial information or as otherwise protected by law ("Confidential Information"). Documents and data that are considered Confidential Information shall be clearly marked as such and separated from the rest of the solicitation submission documents. Comingling is not acceptable. The City does not favor blanket assertions of Confidential Information. Please note that blanket assertions that merely classify and/or broadly claim information is confidential are insufficient as a matter of law. See, *International Brotherhood of Electrical Workers Local 68 v. Denver Metropolitan Major League Baseball Stadium District*, 880 P.2d 160 (Colo. App. 1994). Any information that will be included in any resulting contract cannot be considered Confidential. Under no circumstances may submission pricing information be considered Confidential. In the event a formal contract is entered into with the City and a portion of the Proposal/Response carries a designation indicating the Contractor believes it is Confidential Information, then the City agrees that it will use its best efforts to forward any request for the disclosure of the Confidential Information to the Contractor. By its submission of the Proposal/Response, Contractor agrees to promptly respond to the request for disclosure with any objections and reasons therefor in accordance with the Colorado Open Records Act C.R.S. §§24-72-101 *et seq.* and any other applicable law. Further, Contractor agrees to assume the obligation to defend, hold harmless, and indemnify the City in any legal proceeding that arises from non-disclosure of documents or data pursuant to the Contractor's objection.

7. OWNERSHIP OF WORK PRODUCT. The originals of all plans, reports, studies, data, or other materials or information relating to the Work that are produced by Contractor shall be delivered to and become the property of Arvada. Contractor may retain copies of any originals; however, no plans, reports, studies, data, or other materials or information relating to the Work shall be released to any person or entity without the prior written consent of Arvada. Nothing in this clause is intended to affect Contractor's right to use generic know-how learned in the course of providing services under the Agreement for the future benefit of the City of Arvada or others.

8. ASSIGNMENT. Contractor shall not assign the Agreement without the prior written consent of the City of Arvada, which will not be

unreasonably withheld, conditioned, or delayed. Contractor may assign the Agreement to any successor to the business of the party by merger, consolidation, or sale of assets. No assignment shall be permitted that enlarges any duty, responsibility or obligation of the City of Arvada, or that limits, curtails, or diminishes any right or privilege of the City of Arvada without the City of Arvada's express written consent.

9. NO THIRD PARTY BENEFICIARIES. It is expressly understood and agreed that enforcement of the terms and conditions of the Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to Arvada and Contractor and nothing contained in the Agreement shall give or allow any such claim or right of action to any other third party on the Agreement. It is the express intention of Arvada and Contractor that any person other than Arvada or Contractor receiving services or benefits under the Agreement shall be deemed to be an incidental beneficiary only.

10. INDEPENDENT CONTRACTOR. Contractor and Arvada hereby represent that Contractor is an independent contractor for all purposes hereunder. As such, Contractor is not covered by any worker's compensation insurance or any other insurance maintained by Arvada except as would apply to members of the general public. Contractor shall not create any indebtedness on behalf of Arvada.

11. SUBCONTRACTING. Contractor shall not award work to subcontractor(s) in excess of fifty percent of the total contract price without Arvada's prior written approval. Contractor shall be responsible for any failure by any subcontractor or subcontractor personnel to perform in accordance with the Agreement or to comply with any duties or obligations imposed on Contractor under the Agreement to the same extent as if such failure to perform or comply was committed by Contractor or Contractor's personnel. Contractor shall be Arvada's sole point of contact regarding the services, including with respect to payment.

12. NO WAIVER OF GOVERNMENTAL IMMUNITY. Nothing contained in this or any of the exhibits attached thereto shall be construed as a waiver of any of the immunities, limitations, privileges, rights, procedures, or requirements contained in the Colorado Governmental Immunity Act, C.R.S. §§24-10-101 *et seq.*

13. RIGHT TO TERMINATE. The City of Arvada shall have the right to terminate, without cause, the Agreement. Any such termination shall not be considered a breach of the Agreement or any extension thereof. In the event of termination by the City of Arvada for convenience, Contractor will be paid for requested work performed up until the time of termination by the City of Arvada, not to exceed the total amount of the contract price agreed upon by the parties.

14. COMPLIANCE WITH ALL LAWS. All of the services performed under this Agreement by Contractor shall comply with all applicable laws, rules, regulations and codes of the United States and State of Colorado, and with the charter, ordinances, rules and regulations of the City of Arvada.

15. WAIVER OF BREACH. A waiver by any party to the Agreement or the breach of any term or provision of the Agreement shall not operate or be construed as a waiver of any subsequent breach by either party.

16. GOVERNING LAW AND VENUE. Notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, the Agreement shall be governed by the laws of the State of Colorado. Venue for any action arising under the Agreement or for the enforcement of the Agreement shall be in the appropriate court for Jefferson County, Colorado.

17. FORCE MAJEURE. Any delays in or failure of performance by any party of its obligations under the Agreement shall be excused if such delays or failure are a result of acts of God, fires, floods, strikes, labor disputes, accidents, regulations or orders of civil or military authorities, shortages of labor or materials, or other causes, similar or dissimilar, which are beyond the control of such party.

18. BINDING ARBITRATION PROHIBITED. The City of Arvada does not agree to binding arbitration by any extra-judicial body or person. Any provision to the contrary in response to the solicitation, or incorporated by reference, shall be null and void.

19. EQUAL EMPLOYMENT OPPORTUNITY. Contractor shall not refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified solely because of race, creed, sex, color, national origin or ancestry, religion, disability, age, sexual orientation, gender identity, veteran status, or any other basis prohibited by federal, state, or local law.

20. BINDING AUTHORITY. Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, has been properly acknowledged by attestation, notary acknowledgment, or both, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation.

21. PREFERENCES IN EMPLOYMENT OF COLORADO LABOR. To the extent that obligations and responsibilities may be established by C.R.S. § 8-17-101 *et seq.*, as amended, with respect to certain public entities and those contracting therewith as to the procurement of services:

- a. Colorado labor shall be employed to perform eighty percent (80%) of the work.
- b. Any waiver of this requirement must comply with C.R.S. § 8-17-101 *et seq.*, as amended.

22. RETAINAGE REQUIREMENTS. Contractor agrees to submit monthly invoices together with any retainage requirements as prescribed by Colorado state statutes (see e.g., C.R.S. §§24-91-101 *et seq.*). Payment from Arvada will traditionally be paid NET (15) days but no later than NET thirty (30) days. Invoices will accurately reflect actual work completed by Contractor.

23. ACCESSIBILITY COMPLIANCE.

- 23.1 Arvada is obligated to comply with the Colorado Anti-Discrimination Act (C.R.S. §§24-34-300 *et seq.*)("CADA"), which requires all digital and online platform and content providers to comply with the minimum *Accessibility Standards for Individuals with a Disability*, adopted by the Colorado Office of Information Technology ("OIT") under C.R.S §24-85-103(2.5). Contractor has been advised to familiarize itself with CADA.
- 23.2 To the extent the Work or any of Contractor's services provided under the Agreement involves digital, technological components, including but not limited to software, websites, applications, digital documents (the "Material"), all Material shall comply with the OIT's currently adopted minimum *Accessibility Standards for Individuals with a Disability* at all times.
- 23.3 Contractor shall indemnify, save, and hold harmless Arvada, its employees, agents and assignees (the "Indemnified Parties") against any and all costs, expenses, claims, damages, liabilities, court awards and other amounts (including attorneys' fees and related costs) incurred by any of the Indemnified Parties in relationship to Contractor's failure to comply with Section (23.2) above.
- 23.4 Upon Arvada's request, Contractor shall certify to Arvada that its service(s) and digital documents are compliant with Section (23.2) above. Arvada may require Contractor's compliance to the OIT's currently adopted minimum standards of accessibility to be determined by a third party selected by Arvada to attest to Contractor's compliance.

SPECIAL TERMS AND CONDITIONS FOR BIDDERS

1. RECEIPT AND OPENING OF BIDS. Bids submitted electronically on the BidnetDirect.com website only become available to the City of Arvada after the bid closes. Bidder shall assume full responsibility for timely upload of bid to the BidnetDirect website. The City reserves the right, where its best interest will be served, to accept or reject any conditional or qualified bid.

2. QUANTITY AND NATURE OF THE WORK. Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule by examination of the site and a review of the drawings and specifications including Addendum. After Bids have been submitted the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done.

3. CONTENTS OF BID. Contractors are required to submit Bids with the following conditions:

- 1) Contractors shall make all investigations necessary to inform themselves of the sites affected and the work required by the Solicitation.
- 2) Any official interpretation of the Solicitation may only be issued by an authorized agent of the City. The City shall not be responsible for other interpretations offered by employees not authorized.
- 3) The City shall issue Addenda if substantial changes are required which may impact the content and submission of Bids. A copy of such addenda will be publicly posted with the original CSB posting.
- 4) The apparent silence or omissions within this Solicitation regarding a detailed description of the materials or services shall be interpreted to mean that only the best commercial practices are to prevail and that only materials and workmanship of first quality are to be provided.

4. BID SECURITY. Each Bid must be accompanied by a PHOTO of the Bid Bond, on the form attached to these contract documents, payable to the City for five (5) percent of the total amount of the Bid. As soon as the bid Prices have been compared, the City will issue intent to award on the Bidnetdirect.com web site. The vendor who is named as the intent to award Contractor must submit the physical Bid Bond within 10 days or the intent to award may be revoked. The Bid Bond of the successful Bidder will be retained until the Payment and Performance Bond has been executed and approved after which it will be returned. A certified check may be used in lieu of a Bid Bond.

5. POWER OF ATTORNEY. Attorneys-in-fact who sign Bid Bonds or Payment and Performance Bonds must file with each bond a certified and effective dated copy of their power of attorney.

6. QUALIFICATION OF BIDDER. The City may make such investigation as it deems necessary to determine the ability of the Bidder to perform the work. The City reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the City that such Bidder is properly qualified to carry out the obligation of the Contract Agreement and to complete the work contemplated therein. The City reserves the right, before awarding the contract, to require a Contractor to submit evidence of its qualifications including, but not limited to, financial, technical, and other qualifications, as well as past performance with the City, for consideration in making the award in the best interest of the City.

7. AWARD OF CONTRACT. A contract/s shall be awarded to the lowest-priced responsible and most responsive bidder/s whose bid meets the requirements and criteria set forth in the CSB within the limits of funds available and that best serves the City's interest. The City, within seven (7) calendar days of receipt of acceptable Contract Security and the Contract Agreement, signed by the Bidder to whom the Contract was awarded, shall sign the Contract Agreement and return to the Bidder an executed copy of the Contract Agreement. Should the City not execute the Contract Agreement within such period, the Bidder may, by written notice, withdraw their signed Contract Agreement. Such notice of withdrawal shall be effective upon receipt of the written notice by the City.

8. NOTICE OF AWARD AND FAILURE TO ENTER INTO CONTRACT. The party to whom the Contract is to be awarded will be required to execute the Contract Agreement, obtain Certificates of Insurance and a Performance and Payment Bond, as Contract security, within five (5) calendar days from the date the Notice of Award is delivered to the Bidder. The Notice of Award shall be accompanied by the Contract Agreement and the necessary Performance and Payment Bond forms. In case of failure of the bidder to execute the Contract Agreement and provide satisfactory Insurance and Contract Security, the City may at its option, consider the Bidder in default, in which case the Bid Bond accompanying the Proposal shall become the property of the City.

9. CONTRACT DOCUMENTS. The Contract Documents consisting of the Bid Documents, which include the Advertisement for Bids, Information for Bidders, General Terms and Conditions, Special Terms and Conditions, Insurance Requirements, Project Special Provisions, Addendum, Bid Bond, Bid Proposal, Bid Schedule, Vendor Submittal Form, Construction Drawings, Supplemental Specifications and the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", dated October 2, 2023, which include the Measurement and Payment specifications, and the attached Notice of Award form, Contract Agreement form, Performance and Payment Bond form, Notice to Proceed form, and Change Order form, when combined, contain the provisions required for the construction of the Project. Information obtained from an agent or employee of the City or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the contract.

10. TERM OF CONTRACT. This contract shall commence on the date of the purchase order or contract execution and shall remain in effect until such time as the commodities, equipment and/or services acquired in conjunction with this Bid have been accepted by the City's authorized representative. Any required warranty period which exceeds this term shall remain in full force for the duration of the warranty period.

11. PRICING SHALL BE FIXED AND FIRM. The prices offered by the Contractor shall remain fixed and firm for at least 90 ninety days. No changes in the Bid shall be allowed after the date and time of the Bid deadline due to error by the Contractor.

12. CONTRACT SECURITY. A Performance and Payment Bond, on the form attached to these contract documents, in the amount of 100% of the Contract price, with a corporate surety approved by the City, will be required for the faithful performance of the Contract.

13. NOTICE TO PROCEED. The Notice to Proceed shall be issued within seven (7) calendar days of the execution of the Contract Agreement by the City. Should there be reason why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the City and the Contractor. In the event the Notice to Proceed has not been issued within the seven day period or within the period mutually agreed upon the Contractor may terminate the Contract Agreement without further liability on the part of either party.

14. MODIFICATION OR WITHDRAWAL OF BIDS BY CONTRACTOR.

Modifications to Bids- Changes to the Bid after the submission deadline shall be allowed only when the Contractor can show convincing evidence that an unintentional factual mistake was made. Modification requests must be made in writing. Any modification submitted to the City must have the Contractor's name, address, Solicitation Number and title included.

Withdrawal of Bids- If a Bid is withdrawn by Contractor after the Bid Opening, the City may, at its option, suspend the Contractor for a six (6) month period following the withdrawal. Withdrawal of the Bid after the Bid Opening will result in the Contractor forfeiting the provided Bid Bond.

15. REJECTION OF OFFERS BY CITY.

- A. The City may reject a Bid, in whole or in part, for reasons including, but not be limited to:
 - 1) The Contractor misstates or conceals any material fact in its Bid;
 - 2) The Contractor's Bid does not strictly conform to the law or requirements of the Solicitation;
 - 3) The Bid expressly requires or implies a conditional award that conflicts with the method of award stipulated in the Special Conditions;
 - 4) The Bid does not include documents which are required for submission with the Bid; or
 - 5) The Bid has not been executed by the Contractor through an authorized signature.
- B. The City may, at its sole and absolute discretion:
 - 1) Reject all or parts of Bids submitted by prospective Contractors;
 - 2) Re-advertise this Solicitation;
 - 3) Postpone or cancel the Solicitation;
 - 4) A Bid may not be accepted from, nor any contract be awarded to, any person or firm which
 - a) is in arrears to the City for any debt or Contract, or is a defaulter as surety for any obligation to the City.
 - b) has failed to perform faithfully any previous contract with the City, State or Federal government for a minimum period of one (1) year after this previous Contract was terminated for cause.
 - c) has pending litigation against the City on the date and time that the Solicitation is due.

16. CLARIFICATION AND MODIFICATIONS. The contract resulting from this solicitation will be subject to the Solicitation materials, City Ordinance, State and Federal Statutes. When conflicts occur, the highest authority shall prevail. Contractors are required to indicate any variances to the terms, conditions, requirements and specifications of this Solicitation; no matter how slight. If variations are not stated in the Contractor's Bid, it shall be agreed that the Contractor's Bid fully complies with all conditions identified in this Solicitation.

17. ELIGIBILITY OF CONTRACTORS: MUST BE ENGAGED IN SUPPLYING PRODUCTS OR SERVICES RENDERED. Bids will only be considered from firms which have been engaged in the business of manufacturing or distributing the goods and/or performing services described in this Solicitation. Contractors must be able to produce evidence that they have an established satisfactory record of performance for at least two (2) years and have sufficient finances and structure to ensure that they can satisfactorily execute the Contract requirements, as determined by authorities of the City. The City reserves the right, before awarding the contract, to require a Contractor to submit evidence of its qualifications including, but not limited to, financial, technical and other qualifications, as well as past performance with the City, for consideration in making the award in the best interest of the City.

18. ELECTRONIC PAYMENT METHODS - CITY OF ARVADA SINGLE USE ACCOUNT.

Contractors are encouraged to consider the following method of payment.

Single Use Account: The City incorporates the use of Single User Accounts as an option to seamlessly process payment of larger dollar purchase orders and contracts to vendors/contractors/providers. A secure, one-time payment transaction account processes to pay invoices via the Contractor's merchant bank. Invoice payments have an enhanced speed-of-pay cycle that can significantly benefit cash flow.

19. CONDITIONS OF WORK AND OBLIGATION OF BIDDER. Each Bidder is responsible for independently inspecting the site and for reading and being thoroughly familiar with the Contract Documents and for providing the names of major suppliers and sub-contractors in the space provided on the Bid Proposal form. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve the Bidder from any obligation in respect to their Bid Proposal.

20. CONTRACTOR LICENSE. The Contractor to whom the contract is awarded and any subcontractors employed by the Contractor must have or acquire the appropriate Contractor's license issued by the City of Arvada Engineering Division, including submittal of license bond, necessary insurance certificate, and license fee before initiating any work. The Contractor and any subcontractors will also be required to obtain a no charge Public Improvements Permit from the City of Arvada Engineering Division prior to initiating any and all work on this project.

21. PERFORMANCE MEASUREMENTS FOR SERVICES MORE THAN \$15,000.

The City has incorporated Performance Management into its organizational culture. The City will monitor and report on the following performance measures. These measures will determine, in part, renewals and eligibility for future awards. Measures include: (a) safety as defined by observation and OSHA reportable injuries, (b) quality of contracted work, (c) work completed within required schedule, (d) administration and coordination of estimates, RFIs, ASIs, change orders, pay requests and close out documents, (e) fair and justifiable change orders, (f) responsiveness and follow through on requests.

SERVICES means: the furnishing of labor, time, effort, maintenance, etc., by a vendor/contractor/consultant, with an initial contract amount of more than \$15,000.

22. PREPARATION AND SUBMISSION.

Bids will be prepared as follow:

- 1) A blank shall be construed as "No Bid/not offered". Where there is a discrepancy between the unit price and the extension of prices, the unit price shall prevail.
- 2) Contractors will not knowingly participate in solicitations where there exists a conflict of interest with their firm and a member of City staff or their immediate family.
- 3) The only authorized version of this Bid is posted on WWW.BIDNETDIRECT.COM. Registration is available to receive email notification of new solicitations, addenda, and communications.

INSURANCE REQUIREMENTS

The following listed insurance requirements shall be carried by the selected Contractor for the entirety of the contract. Applicable requirements for this solicitation are identified by completed check boxes.

1. ☒ **Commercial General Liability**, written on an occurrence form, for limits not less than \$1,000,000 for bodily injury and property damage for each occurrence and not less than \$2,000,000 aggregate. Coverage shall include premises and operations liability, blanket contractual, broad form property damage, products and completed operations and personal injury endorsements.
2. ☒ **Workers' Compensation and Employers Liability** as required by statute. Employers Liability coverage is to be carried for a minimum limit of \$1,000,000 each accident/disease and \$2,000,000 aggregate.
3. ☒ **Automobile Liability** for limits not less than \$1,000,000 combined single limit for bodily injury and property damage for each occurrence. Coverage shall include owned, non-owned and hired automobiles.
4. ☐ **Umbrella Liability** of \$, following form to the Commercial General Liability.
5. ☐ **Builders Risk or Course of Construction** Purchased by contractor to cover physical damage to property in construction or rehab. Contractors will ensure that City and subcontractors will be covered as additional insureds,

excluding their own machinery, tools and equipment.

6. ☐ **Professional Liability** Professional Liability insurance in an amount of not less than \$1,000,000 per occurrence, covering the professional work contemplated under this proposal. The coverage shall have an extended reporting period of three (3) years following the date of substantial completion of the work for reporting of claims.
7. ☐ **Pollution Legal Liability Insurance** for limits not less than \$1,000,000 per occurrence (or claims made) and not less than \$1,000,000 aggregate for bodily Injury, personal Injury and property Damage.
8. ☐ **Privacy/Network/Cyber Liability Insurance** for limits not less than \$1,000,000 for any firm providing product or services associated with IT, software, communication, or network.

Additional Insurance Requirements:

- Contractor will be required to, at its own expense, keep in full force and effect during the term of the Agreement, and during the term of any extension or amendment of the Agreement, insurance reasonably sufficient to insure against the liability assumed by Contractor pursuant to the provisions of the solicitation sent by the City of Arvada or as determined by the City of Arvada Risk Manager.
- All coverage must be written with carriers holding a minimum A.M. Best rating of A-:VII, and authorized to do business in Colorado. Coverage shall be primary, and any insurance held by the City of Arvada is excess and non-contributory.
- Issuance of a Purchase Order/Contract is contingent upon the receipt of the insurance documents. Work shall not commence before this requirement is met. If the Contractor fails to submit the required insurance documents within 15 calendar days after notice to submit such policies is given to the Contractor by a City representative, the Contractor may be in default of the Award.
- Except for Workers Compensation, Employer's Liability insurance, Automobile Liability and Professional Liability insurance, the City of Arvada must be endorsed as an additional insured on a Certificate of Insurance.
- The City, through its Risk Manager, reserves the right to require additional insurance coverage and other requirements.

BID FORMS

To be completed and submitted with Contractor's Bid

BID BOND

We, the undersigned _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto the City of Arvada, Colorado, in the penal sum of _____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

THE CONDITION of this obligation is such that whereas the Principal has submitted to the City of Arvada, Colorado the accompanying Bid Proposal, and hereby made a part hereof to enter into a Contract Agreement for the construction of City of Arvada Project No. _____.

WHEREAS, the City, as a condition for receiving said Bid Proposal, requires the Principal to deposit with the City a Bid Proposal Guaranty, equivalent to not less than 5 Percent of the amount of said Bid Proposal.

NOW THEREFORE,

- (A) If said Bid Proposal shall be rejected; or in the alternate,
- (B) If said Bid Proposal shall be accepted and the Principal shall execute and deliver a Contract Agreement (properly completed in accordance with said Bid Proposal) and shall furnish a Performance and Payment Bond upon the forms prescribed by the City for the faithful performance of said Contract; and for the payment of all persons performing labor or furnishing materials in connection therewith; and shall in all other respects perform the agreement created by the acceptance of said Bid Proposal;

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the City may accept such Bid and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, this ____ day of _____, 20__, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

PRINCIPAL

Name: _____

Address: _____

By: _____

Title: _____

SURETY

_____.

_____.

By: _____.

Title: _____.

Attorney-in-Fact:

(SEAL)

NOTE: Surety Companies executing bonds must be authorized to transact business in the State of Colorado and be acceptable to the City.

BID PROPOSAL

TO: City of Arvada, Colorado (hereinafter called "CITY").

FROM: _____ (hereinafter called "BIDDER"), organized and existing under the laws of the State of _____ doing business as (a corporation), (a partnership), (an individual).

The Bidder, in compliance with your Advertisement for Bids, hereby proposes to perform all Work in strict accordance with the Contract Documents, for the construction of City of Arvada Project No. _____ entitled _____ within the time set forth therein, and at the prices stated on the included Bid Schedule as totaled herein.

By submission of this Bid Proposal, each Bidder certifies, and in the case of a joint venture each party thereto certifies as to his/her own organization, that this Bid Proposal has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid Proposal with any other Bidder or with any competitor.

Bidder acknowledges receipt of **Addendum Nos.** Initials: _____

Bidder states that their:

Major Material Suppliers are:

Material They Will Supply

Major Subcontractors are:

Work They Will Perform

20-TC-07 KIPLING PKWY & ALLENDALE DR INTERSECTION IMPROVEMENTS

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **90** working days after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about January 22, 2024. The bidder shall agree to pay the owner the sum of \$1,400 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

20-TC-07 KIPLING PKWY & ALLENDALE DR INTERSECTION IMPROVEMENTS

Bid Schedule: \$ _____

22-TC-01 W 86th Pkwy Signal Connectivity

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **45** working days after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about January 22, 2024. The bidder shall agree to pay the owner the sum of \$1,400 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

22-TC-01 W 86th Pkwy Signal Connectivity

Bid Schedule: \$ _____

23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **60** working days after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about January 22, 2024. The bidder shall agree to pay the owner the sum of \$1,400 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements

Bid Schedule: \$ _____

TOTAL FROM ALL BID SCHEDULES

TOTAL BID \$ _____

SUBMITTED BY:

Company Name: _____

Contact Names: _____

Address: _____

Phone: (_____) _____ Email(s): _____

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the Contractor;
- He/she has read all Terms and Conditions and technical specifications made available in conjunction with this solicitation and fully accept and acknowledge this bid is consistent with the specifications and terms and conditions.
- The bid is in all respects fair, without outside collusion or otherwise illegal action.

By: _____

Signature of Authorized Agent

Date

FEIN

Typed/Printed Name of Agent

Title of Agent

Agent email

PAYMENT TERMS: The City standard is net thirty (30) days but every effort is made to meet net fifteen (15) days after the approved partial payment date when the contractor is satisfactorily performing the contract. The final 5% of total payment will be paid once the contract is completed satisfactorily, advertisement for final settlement is complete, and the project is accepted by the City. Payment is the date of the check mailing or date of the credit card transaction.

REQUIRED CONTRACTOR SUBMITTAL FORM

SUBMITTAL CHECKLIST:

Bid Proposals shall be submitted in the order listed below with each section clearly identified. **Missing information or required documents may result in submission being deemed non-responsive.**

- ☐ Submit completed Bid Bond, Bid Proposal, Bid Schedules, Required Contractor Submittal, and any other attachments requested.
- ☐ Submit implementation timeline and warranties, if applicable.
- ☐ Attach Contractor's Licensing, if applicable.
- ☐ Insurance – Checking this box accepts that the insurance requirements listed by the City are acceptable.
- ☐ Variations: Checking this box indicates that the contractor has variations to this solicitation. Identify all variations and exceptions to this CSB on a separate sheet/s of paper. If variations are not stated in the contractor's Offer, it shall be agreed that the contractor's Offer fully complies with all conditions identified in this Solicitation. For each variation listed, reference the applicable section of the solicitation document, the page number, and the variance. Submittal of a vendor contract is considered excessive in variations and may be cause for determining that the Bid is non-responsive and ineligible for award.

REFERENCES:

- ☐ Check here if Contractor's standard reference sheet is attached, otherwise, use the space below.

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

CONTRACT DOCUMENTS

The following pages contain documents used upon contract award. They are included here for reference and are subject to change.

PERFORMANCE AND PAYMENT BOND

Bond No. _____

(Firm) _____

(Address) _____

(an Individual), (a Partnership), (a Corporation), hereinafter called Principal; and

(Firm) _____

(Address) _____

hereinafter called Surety, are held and firmly bound unto the City of Arvada, a Colorado municipal corporation, 8101 Ralston Road, Arvada, Colorado 80002, hereinafter called the City, in the penal sum of _____, Dollars, _____, in lawful money of the United States, for the payment of such sum will and truly to be made, we bind ourselves, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that the Principal entered into a certain Contract with the City, dated the _____ day of _____, 20_, a copy of which is hereto attached and made a part hereof, for the performance of City of Arvada Project No.'s _____, _____.

NOW THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions and agreements of said Contract during the original term thereof, and any extensions thereof which may be granted by the City, with or without Notice to the surety and during the life of the guaranty period, and if he shall satisfy all claims and demands incurred under such Contract, and shall fully indemnify and save harmless the City from all cost and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the City all outlay and expense which the City may incur in making good any default, and if he shall promptly make payment to all persons, firms, subcontractors and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such Contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, repairs on machinery, equipment and tools, consumed, rented or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in anyway affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in three counterparts, each one of which shall be deemed an original, this the ___ day of _____, 20_.

IN PRESENCE OF:

PRINCIPAL _____

By _____

Address _____

(Corporate Seal)

OTHER PARTNERS

(Surety Seal)

SURETY _____

Attorney _____ in _____ Fact _____

Address _____

Note: If Contractor is Partnership, all partners should execute Bond.

Important: Surety Company must be authorized to transact business in the State of Colorado and be acceptable to the City.

NOTICE OF AWARD

Date _____

Company _____
Address _____
City, State Zip _____

RE: Project No. _____, _____

Dear Representative of _____:

The City of Arvada, Colorado (hereinafter called "City") has considered the Bid Proposals submitted for referenced work in response to its Advertisement for Bids dated _____ and Information for Bidders.

You are hereby notified that your Bid Proposal has been accepted, for items and prices stated in the Bid Schedule, in the amount of \$ _____.

You are required to execute the Contract, the Insurance Certificates and a Performance and Payment Bond within seven (7) days from the date of this Notice to you.

The Performance and Payment Bond needs to be filled out, returned (one original must be returned to the City), and accompanied by the Power of Attorney from your surety company. Also, please make sure that the insurance certificate is in the minimum amounts set forth in the Contract Documents and the City of Arvada is named as an additional insured for the specific Project Number and Title. An Additional Insured endorsement certificate should also be attached.

If you fail to execute said Contract and furnish the necessary Insurance Certificates and Bond within the time allotted from this date, the City will be entitled to consider all your rights arising out of the City's acceptance of your Bid Proposal as abandoned and as a forfeiture of your Bid Bond. The City will be entitled to such other rights as may be granted bylaw.

You are required to return an acknowledged copy of this Notice of Award and enclosures to the Project Engineer.

CITY OF ARVADA, COLORADO

City Engineer

BIDDER

Company _____

Receipt of above Notice of Award accompanied with a Performance and Payment Bond form and a copy of the Contract is hereby acknowledged.

This _____ day of _____, 20____.

By: _____

Name: _____

Title: _____

NOTICE TO PROCEED

Date

Company
Address
City, State Zip

RE: Project No. _____, _____

Dear Representative of _____:

You are hereby notified to commence work on referenced Project, in accordance with the Contract dated _____
on or before _____, and you are to complete the Work, including cleanup within _____ calendar days thereafter.

The date of completion of all Work is therefore _____.

CITY OF ARVADA, COLORADO

City Engineer

BIDDER

Receipt of this Notice to Proceed is hereby acknowledged this _____ day of _____, 20____.

Company

By: _____

Title: _____

AN AGREEMENT BY AND BETWEEN THE CITY OF ARVADA AND
_____ FOR _____
IN AN AMOUNT NOT TO EXCEED \$ _____ .00

This Agreement made this _____ day of _____, 20____ by and between the City of Arvada, a home rule municipal corporation (“Arvada” and/or “City”) and _____, a _____ (“Contractor”).

WITNESSETH: That for and in consideration of the covenants, promises, and payments hereinafter mentioned:

1. Contractor will commence and complete the _____ described in the Contract Documents relating to CSB- _____, issued _____, 20 , (“the Work”).
2. Contractor will furnish all material, supplies, tools, equipment, labor, and other services necessary for the completion of the Work.
3. Contractor will commence the work required by the Contract Documents within ten (10) calendar days after the date of Notice to Proceed.
4. Contractor will complete the work required by the Contract Documents by _____ after the date of the Notice to Proceed unless the period for completion is extended otherwise by the Contract Documents.
5. Contractor agrees to perform all of the work described in the Contract Documents for an amount not to exceed \$ _____ .00 for the Work.
6. The term “Contract Documents” means and includes the following:
 - A. Arvada’s Request for [Project Title], CSB- _____ (“CSB”);
 - B. CSB Exhibits (if any);
 - C. CSB Addenda (if any);
 - D. Contractor’s Response to CSB- _____, Advertisement for Bid, Bid Proposal, Bid Schedule, Bid Bond, Certificate of Insurance;
 - E. Notice of Award;
 - F. Performance and Payment Bond;
 - G. Notice to Proceed;
 - H. Change Orders (if any);
 - I. City of Arvada Engineering Code of Standards and Specifications;
 - J. Project special provisions prepared or issued by City of Arvada (or its Consultant if applicable);
 - K. Detail drawings and Bid Documents prepared or issued by City of Arvada (or its Consultant if applicable);
 - L. Specification Illustrations and attachments; and
 - M. All supplementary requirements regarding wage rates, E.E.O., affirmative action and all other Federal-State requirements as outlined in the specifications.
7. INVOICES AND COMPENSATION. Contractor will follow Bid schedule and partial payments will be made accordingly NET 15 but no later than NET 30.
8. GENERAL TERMS AND CONDITIONS, SPECIAL TERMS AND CONDITIONS, INSURANCE

REQUIREMENTS, PROJECT SPECIAL PROVISIONS, AND OTHER CSB REQUIREMENTS. Contractor affirms that it has read and is familiar with the Contract Documents, including but not limited to the General Terms and Conditions, Special Terms and Conditions, Insurance Requirements, Project Special Provisions, and other CSB requirements, and agrees to be bound by those terms and conditions.

9. CHANGE ORDERS. Contractor shall perform the Work as described in the Contract Documents or as amended by the mutual consent of the parties in writing. Should the parties agree in writing to a change in the scope of services, then the parties will timely execute any applicable Change Order, which will address changes in scope of services, completion date, contract amount, any applicable material modifications, and any other matters that the parties deem necessary.

10. PREFERENCES IN EMPLOYMENT OF COLORADO LABOR. To the extent that obligations and responsibilities may be established by C.R.S. § 8-17-101 *et seq.*, as amended, with respect to certain public entities and those contracting therewith as to the procurement of services:

- a. Colorado labor shall be employed to perform eighty percent (80%) of the work.
- b. Any waiver of this requirement must comply with C.R.S. § 8-17-101 *et seq.*, as amended.

11. PERFORMANCE MEASURES. The Performance Measures for this Agreement shall be those outlined by Arvada in Section 22 of Special Terms and Conditions for Bidders in the CSB, which are included in the Contract Documents that are exhibits to this agreement.

12. ADDITIONAL DOCUMENTS OR ACTION. The parties agree to execute any additional documents and to take any additional action that is necessary to carry out this Agreement.

13. BINDING EFFECT. This Agreement shall inure to the benefit of, and be binding upon, the parties, their respective legal representatives, successors, heirs, and assigns; provided, however, that nothing in this paragraph shall be construed to permit the assignment of this Agreement except as otherwise expressly authorized herein.

14. PARAGRAPH CAPTIONS. The paragraph captions in this Agreement are set forth only for the convenience and reference of the parties and are not intended in any way to define, limit, or describe the scope or intent of this Agreement.

15. INTEGRATION, AMENDMENT, AND SEVERABILITY. This Agreement represents the entire agreement between the parties, and there are no oral or collateral agreements or understandings. This Agreement may be amended only by an instrument in writing signed by the parties. If any other provision of this Agreement is held invalid or unenforceable, no other provision shall be affected by such holding, and all of the remaining provisions of this Agreement shall continue in full force and effect if the essential terms and conditions of this Agreement for both parties remain valid, legal, and enforceable.

16. NOTICES. Any notice or notification required or permitted by the Agreement shall be in writing and shall be deemed to have been sufficiently given for all purposes if sent by certified mail or registered mail, postage and fees prepaid, addressed to the party to whom such notice is to be given at the address set forth on the signature page below, or at such other address as has been previously

furnished in writing, to the other party or parties. Such notice or notification shall be deemed to have been given when deposited in the United States mail.

17. **BINDING AUTHORITY.** Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, has been properly acknowledged by attestation, notary acknowledgment, or both, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation. This Agreement may be executed in counterpart(s), each of which shall be deemed to be an original, and all of which, taken together, shall constitute one instrument.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement which shall be deemed an original on the date first above written.

CITY OF ARVADA, COLORADO

8101 Ralston Road
Arvada, CO 80002

ATTEST/WITNESS:

City Clerk

APPROVED AS TO FORM:

For Rachael Morris, City Attorney

By: _____

CONTRACTOR

Name:

Title:

CHANGE ORDER

No. ____

TO:

Upon Contractor acceptance and City approval, the work and Contract Documents for City of Arvada, Project No._____, entitled _____ will be adjusted to include the following:

<u>Item</u>	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Add/Delete</u>
--------------------	---------------------------	--------------------	--------------------	-------------------------	--------------------------

- 1.
- 2.
- 3.
- 4.

TOTAL ADD

\$

Adjustments to Contract Price & Time

Contract
Dollars

Calendar
Days

Contract Totals through and including

\$

Previous Change Orders

Adjustments this Change Order

\$

(Increase)

Contract Totals to Date – Including

Change Order No. _

\$

Contract Time Expires on:

APPROVED FOR CITY

8101 Ralston Road
Arvada, CO 80002

ATTEST:

City Clerk

ACCEPTED FOR CONTRACTOR

By: _____

Title: _____

Date: _____

APPROVED AS TO FORM:

For Rachael Morris, City Attorney

By: _____

PROJECT SPECIAL PROVISIONS

City of Arvada Project No. **20-TC-07**, Project Title: **Kipling Pkwy & Allendale Dr Intersection Improvements**

Conditions peculiar, but essential, to the successful performance and acceptance of the work on this project are itemized below. As such, they shall take precedence over the City of Arvada Engineering Code of Standards and Specifications.

**CITY OF ARVADA TRAFFIC DIVISION
SPECIAL PROVISIONS**

The Colorado Department of Transportation 2022 Standard Specifications for Road and Bridge Construction controls construction of this project. The following special provisions supplement or modify the Standard Specifications and take precedence over the Standard Specifications and plans.

In addition to requirements of the Colorado Department of Transportation Standard Specifications for Road and Bridge Construction, and the Contract Documents, all material and work shall conform to the requirements of the, the Standards of the American Society for Testing and Materials (ASTM), the American Standards Association (ASA), and any local ordinance which may apply.

Reference to any portion of the City of Arvada *Engineering Code of Standards and Specifications, 2022 Edition* contained herein shall imply precedence over the CDOT Standard Specifications and Plans and shall be the requirement.

PROJECT SPECIAL PROVISIONS

<u>Item</u>	<u>Date</u>	<u>Pages</u>
Index Pages	10/26/2023	1-2
Definitions and Terms	10/26/2023	3
General Contract Conditions	10/26/2023	4
Notice to Bidders	10/26/2023	5
Commencement and Completion of Work (Working Days)	10/26/2023	6
Revision of Section 102 – Project Plans and Other Data	10/26/2023	7
Revision of Section 103 – Award and Execution of Contract	10/26/2023	8
Revision of Section 105 – Cooperation Between Contractors	10/26/2023	9
Revision of Section 105 – Control of Work	10/26/2023	10
Revision of Section 107 – Protection and Restoration of Property and Landscape	10/26/2023	11
Revision of Section 107 – Responsibility For Damage Claims, Insurance Types and Coverage Limits	10/26/2023	12
Revision of Section 108 – Prosecution and Progress	10/26/2023	13
Revision of Section 201 – Clearing and Grubbing	10/26/2023	14
Revision of Section 202 – Removal of Asphalt Mat	10/26/2023	15
Revision of Section 202 – Removal of Traffic Signal Equipment	10/26/2023	16
Revision of Section 203 – Potholing (Special)	10/26/2023	17
Revision of Section 207 – Topsoil	10/26/2023	18
Revision of Section 208 – Concrete Washout Structure	10/26/2023	19
Revision of Section 212 – Sod	10/26/2023	20
Revision of Section 212 – Landscape Restoration	10/26/2023	21-22
Revision of Section 403 – Hot Mix Asphalt (Patching)(Asphalt)	10/26/2023	23-25

Revision of Section 608 – Sidewalks and Curb Ramps	10/26/2023	26-27
Revision of Section 608 – Detectable Warnings	10/26/2023	28-29
Revision of Section 609 – Curb and Gutter	10/26/2023	30
Revision of Section 610 – Median Cover Material	10/26/2023	31-33
Revision of Section 612 – Delineator (Type 1)	10/26/2023	34
Revision of Section 613 – Electrical Conduit	10/26/2023	35-37
Revision of Section 613 – Pull Boxes	10/26/2023	38-39
Revision of Section 614 – Traffic Signal Controller (Install Only)	10/26/2023	40
Revision of Section 614 – Fiber Optic Cable (Single Mode)	10/26/2023	41
Revision of Section 614 – Fiber Optic Termination Panel	10/26/2023	42
Revision of Section 614 – Ethernet Switch	10/26/2023	43
Revision of Section 614 – Test Fiber Optic Cable	10/26/2023	44
Revision of Section 614 – Sign Panel (Class I)(Install Only)	10/26/2023	45
Revision of Section 625 – Construction Surveying	10/26/2023	46
Revision of Section 630 – Construction Zone Traffic Control	10/26/2023	47-48
Revision of Section 630 – Uniformed Traffic Control	10/26/2023	49
Force Account Items	10/26/2023	50
Traffic Control Plan – General	10/26/2023	51-54
Utilities	10/26/2023	55-58

DEFINITIONS AND TERMS

Section 101 of the Standard Specifications is hereby revised for this project as follows:

Section 101 shall include the following:

Definition and Abbreviations in Section 1 of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022.

The following Subsections are hereby amended to include the following:

101.28 Department. City of Arvada Department of Public Works.

101.29 Engineer. The City Project Engineer of the Department acting directly or through an authorized representative, who is responsible for engineering and administrative supervision of the project. Chief Engineer shall also be defined as the City Project Engineer of the Department.

101.48 Preconstruction Conference. A meeting of City project personnel, Contractor project personnel and other stake holders held prior to the beginning of construction at which topics pertinent to the successful prosecution of the work are discussed.

101.51 Project Engineer. The City of Arvada's Engineer directly responsible for the overall administration of assigned construction projects. Only the Resident Engineer can approve and sign vouchers for interim and final Contractor pay estimates or sign and authorize changes to the Contract if the Project Engineer is a Consultant Employee.

101.76 State. The State of Colorado or the City of Arvada acting through its duly authorized representative.

Subsection 101.73 paragraph a) is hereby amended to include the following:

When specifically referenced in these documents, the Standard Specifications shall also include the current City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022.

101.95 Workplace Violence. Wherever the term "CDOT" occurs in the definition, replace with "City of Arvada."

Add the following definition:

101.96 Construction Manager. Owner's designated representative during construction and submittal process.

GENERAL CONTRACT CONDITIONS

General Contract Conditions shall be the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022.

STANDARD CONSTRUCTION SPECIFICATIONS

The City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements controls construction for this project. The 2022 CDOT Standards Specifications for Road and Bridge Construction shall be used to supplement construction of items not described in the City of Arvada's specification manual. The following special provisions supplement or modify the City and/or CDOT Standard Specifications and take precedence over the City and/or CDOT Standard Specifications and plans. When specifications or special provisions contain both English units and SI units, the English units apply and are the specification requirement. When two documents conflict, the more stringent shall apply.

NOTICE TO BIDDERS

The proposal guaranty shall be a certified check, cashier's check, or bid bond in the amount of 5 percent of the Contractor's total bid.

Pursuant to Subsections 102.04 and 102.05, it is recommended that bidders on this project review the work site and plan details with an authorized City of Arvada representative. Prospective bidders shall contact one of the following listed authorized representatives at least 24 hours in advance of the time they wish to go over the project.

Engineer - Trandon Struck, PE
Office Phone: 720-898-7750
Cell Phone: 303-895-9037

City Traffic Engineer – Mazedur Hossain, PE
Office Phone: 720-898-7744

The above referenced individuals are the only City of Arvada representatives with authority to provide any information, clarification, or interpretation regarding the plan and specification documents or requirements.

If the bidder has a question or requests clarification that involves the bidder's innovative or proprietary means and methods, phasing, scheduling, or other aspects of construction of the project, the Project Engineer will direct the bidder to contact the City Traffic Engineer directly to address the question or for clarification. The City Traffic Engineer will keep the bidder's innovation confidential and will not share this information with other bidders.

The City Traffic Engineer will determine whether questions are innovative or proprietary in nature. If the City Traffic Engineer determines that a question does not warrant confidentiality, the bidder may withdraw the question. If the bidder withdraws the question, the City Traffic Engineer will not answer the question and the question will not be documented on Bidnet Direct website. If the bidder does not withdraw the question, the question will be answered, and both the question and answer will be posted on the web site. If the City Traffic Engineer agrees that a question warrants confidentiality, the City Traffic Engineer will answer the question, and keep both question and answer confidential. The City Traffic Engineer will keep a record of both question and answer in their confidential file.

All questions shall be directed to the City of Arvada contacts listed above no later than 5 P.M. on Friday prior to bid opening week. Final questions and answers will be posted no later than Monday morning of bid opening week. Questions and answers shall be used for reference only and shall not be considered part of the Contract.

COMMENCEMENT AND COMPLETION OF WORK (WORKING DAYS)

The Contractor shall commence work under the Contract on or before the 15th day following Contract execution or the 30th day following the date of award, whichever comes later, unless such time for beginning the work is changed by the City of Arvada in the "Notice to Proceed". The Contractor shall complete all work within 90 working days in accordance with the "Notice to Proceed".

The Contractor shall complete work as follows:

Excluding the time necessary to acquire the traffic signal equipment all field construction work, including the construction of all infrastructure including curb ramps, curb & gutter, sidewalk, storm drainage, traffic signal controllers, traffic signal cabinets, traffic signal poles/mast arms, electrical conduit, electrical power cable, electrical service cabinets & disconnect, electrical pull boxes, radar detection equipment, etc. shown in the plans shall be completed within 90 working days in accordance with the "Notice to Proceed." A "punch list" of items to be completed as part of the mandatory project walk-through inspection must be completed in advance of the 90 working days time frame and all "punch list" items shall be completed by the end of the 90 working days.

Replacement of traffic signal cabinets and/or controllers shall occur over the course of a normal work day with the minimal amount of disruption to the existing traffic signal operations. No work location shall be left overnight or unattended without the existing traffic signal operating as intended.

The Contractor shall be aware that the Temporary Construction Easement (TCE) Agreement has a time limit of 4 (four) months. The TCE Agreement timeline begins when Contractor enters the private property, and any construction activity begins. The Contractor shall supply a schedule and means and method for completing the work once entry and or construction begins.

Section 108 of the Standard Specifications is hereby revised for this project as follows:

Subsection 108.03 shall include the following:

Salient features for this project are:

1. Curb Ramp, Curb & Gutter, Sidewalk Installation
2. Conduit & Pull Box Installation
3. Controller & Cabinet Installation
4. Traffic Signal Pole Installation
5. Pavement Removal and Replacement

Revisions to the salient features may be made with the approval of the Project Engineer. All paperwork required by the City of Arvada shall be submitted prior to beginning the work.

**REVISION OF SECTION 102
PROJECT PLANS AND OTHER DATA**

Section 102 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 102.05 shall include the following:

The following information will be available for review at www.bidnetdirect.com.

**PROPOSED TRAFFIC SIGNALIZATION PLANS FOR KIPLING PKWY AT RALSTON
RD & ALLENDALE DRIVE**

- 1) Plan Sheet No's. 1 to 20
- 2) Project Special and Standard Special Provisions

**REVISION OF SECTION 103
AWARD AND EXECUTION OF CONTRACT**

Section 103 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Section 103 shall include the following:

The Contractor shall comply with the requirements set forth in Section 2.46, “Information for Bidders for Work on City Projects,” of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022, except as noted below:

Under the paragraph entitled “Contract Documents” of Section 2.46, the Colorado Department of Transportation Standard Specifications for Road and Bridge Construction, Project Special Provisions, and Standard Special Provisions shall be included as part of the Contract Documents.

**REVISION OF SECTION 105
COOPERATION BETWEEN CONTRACTORS**

Section 105 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 105.12 shall include the following:

Any traffic control conflicts that arise between the needs of the various construction contractors and other agencies shall be brought to the attention of the Project Inspector. The Project Engineer will decide the method of resolution.

The City of Arvada will not recognize any claims filed for impact from the presence of other contractor(s), due to the Contractor's failure to coordinate.

As of the date of advertisement, no projects have been identified that will require Contractor coordination.

REVISION OF SECTION 105 CONTROL OF WORK

Section 105 of the Standard Specifications is hereby revised as follows:

DESCRIPTION

Section 105 shall include the following:

The City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022. Where those specifications and standards are in conflict with any portion of Section 105, the City Standards and Specifications shall take precedence.

MATERIALS

Subsection 105.2(b) shall hereby include the following:

After contract award, prior to installation, and/or at the Project Engineer's request, the Contractor shall submit shop drawings and specifications for equipment and materials the Contractor proposes to furnish. The shop drawings and specifications shall be complete as to name of manufacturer, size, and catalog number of unit, and shall be supplemented by such other data as may be required. The Project Engineer's approval shall be required prior to installation.

CONSTRUCTION REQUIRMENTS

Subsection 105.3 shall hereby include the following:

Inspection or sampling of any materials, other than those materials already approved by the Project Engineer, must be made by the Project Engineer prior to installation. If the Contractor proposes a substitution of material called for in the plans as specifically defined in these specifications, or as shown in approved submittals and shop drawings, the Contractor shall provide additional information to prove the substitution item is of equal or superior quality. The Project Engineer may choose, at their sole discretion and based on the information provided by the Contractor, to reject a substitution of material called for in the plans. No substitution item shall be allowed for items where manufacturer information is specifically identified in either the plans or specifications. Any material and/or equipment installed by the Contractor that is not in conformance with the project specifications shall be removed or changed at the Contractor's expense.

The Contractor shall be aware that the Temporary Construction Easement (TCE) Agreement has a time limit of 4 (four) months. The TCE Agreement timeline begins when Contractor enters the private property, and any construction activity begins. The Contractor shall supply a schedule and means and method for completing the work once entry and or construction begins.

REVISION OF SECTION 107 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE

Section 107 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 107.12 shall include the following:

The Contractor shall protect all existing vegetation (including trees, shrubs, ground covers, grasses, wetlands & riparian) in the project areas, except for that vegetation which must be removed to accommodate construction of the project.

Specific areas of vegetation to be protected shall be as directed by the Project Engineer and shall be protected by using orange construction fencing, wire fencing with metal posts or silt fence. Fencing for trees shall be installed at the drip line of the tree or as approved by the Project Engineer. Equipment shall not be installed, or material stockpiled within 15 feet of existing trees that are to remain.

The Contractor shall perform the work in such a manner that the least environmental damage will result. All questionable areas or items shall be brought to the attention of the Project Engineer for approval prior to removal or any damaging activity.

The Contractor shall promptly report any vegetation that is damaged or scarred during construction to the Project Engineer for assessment of damages. Damaged or destroyed fenced vegetation shall be replaced at the expense of the Contractor. Vegetation of replaceable size shall be replaced at the Contractor's expense. When trees or shrubs beyond replaceable size, or wetlands have been damaged or destroyed, the Contractor shall be liable for the appraised value based upon the official current publications. For trees and shrubs, the International Society of Arboriculture, Guide for Plant Appraisals shall be used. The Contractor shall pay any fines at no cost to the project or serve jail time should a wetland be damaged.

The value of disturbed vegetation shall be calculated according to the following formula:

$$\text{(Vegetation size) x (Species) x (Location) x (Condition) x (Arborist or Wetland Specialist) = Vegetation Value}$$

A consulting Arborist retained by the Department will determine the value of the trees and shrubs. A consulting Wetland Specialist shall determine the value of the wetland or wetland species. This value will be deducted from any money due to the Contractor.

The determination as to whether a plant is of replacement size or beyond will be made by the Department's Landscape Architect or Wetland Specialist.

If any existing fence is knocked down or destroyed by the Contractor, the Project Inspector will suspend the work, wholly or in part, until the fence is repaired to the Project Inspector's satisfaction at the Contractor's expense. Time lost due to such suspension will not be considered a basis for adjustment of time charges but will be charged as contract time.

**REVISION OF SECTION 107
RESPONSIBILITY FOR DAMAGE CLAIMS,
INSURANCE TYPES AND COVERAGE LIMITS**

Section 107 of the Colorado Department of Transportation Standard Specifications is hereby revised for this project as follows:

Section 107.15 (b) shall include the following:

City of Arvada shall also be named as additional insured on the Commercial General Liability and Automobile Liability Insurance policies. The Contractor shall submit the proof of such coverage to the City contemporaneously with the submittal of the insurance certificates. The City is relying on and does not waive or intend to waive any provision hereof, including the provisions of this paragraph, the monetary limitation or any other rights, immunities, and protections provided by the Colorado Governmental Immunity Act, CRS 24-10-101, et seq., as from time to time amended, or otherwise available to the City.

REVISION OF SECTION 108 PROSECUTION AND PROGRESS

Section 108 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 108.03 shall include the following:

The Contractor shall present a CPM schedule to the Project Engineer at least seven calendar days prior to the preconstruction conference. This schedule shall show the major features of each phase of the project for the entire project time frame.

Subsection 108.05 shall include the following:

The contractor shall schedule all work between 8:30 A.M. and 3:30 P.M. Monday through Friday. Weekend work will be allowed only with the prior written authorization of the Project Engineer. Night work will not be allowed on this project. The Contractor may make emergency repairs to provide protection of the work and traveling public at any time. All on-roadway work or work that indirectly or directly interferes with the flow of traffic (vehicle, pedestrian, and bicycle) shall be in accordance with an approved Traffic Control Plan.

Meetings will be required to review progress and to plan upcoming activities. Representatives from the Contractor and all active subcontractors shall attend the meetings. Such meetings will be required on a bi-weekly basis at a time to be determined by the City of Arvada and the Contractor. Additional meetings will be held when required by the City of Arvada or the Contractor.

The Contractor shall submit at the bi-weekly progress meeting a written statement of planned work activities. A 24 hour notice shall be provided to the Project Engineer by the Contractor if the Contractor elects to change the planned work activities.

REVISION OF SECTION 201 CLEARING AND GRUBBING

Section 201 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 201.01 shall include the following:

Prior to any work in the northwest corner of the intersection the ROW will be staked, and a construction fence installed to avoid trespassing into private property. To verify the existing condition the Contractor shall take photos and motion pictures of the northwest corner of the intersection. The photos and motion picture shall be supplied to the City for reference.

The Contractor shall be aware that the Temporary Construction Easement (TCE) Agreement has a time limit of 4 (four) months. The TCE Agreement timeline begins when Contractor enters the private property, and any construction activity begins. The Contractor shall supply a schedule and means and method for completing the work once entry and or construction begins.

This work includes removal and disposal of miscellaneous surface landscape in the northwest corner of the intersection including but not limited to, tree stumps, bushes, roots, sod, refuse, items identified in the contract plans, and any other vegetation or organics encountered during construction activities that interferes with the work. **The existing rock surrounded planter shall be protected in place.**

The work also includes herbicide treatment of small areas with noxious weeds at no additional cost to the project.

The work includes removal of all trash, glass, cans, barrels, construction materials, and any other non-organic materials that interferes with the work.

BASIS OF PAYMENT

Subsection 201.04 shall include the following:

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Clearing and Grubbing	Lump Sum

REVISION OF SECTION 202 REMOVAL OF ASPHALT MAT

Section 202 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 202.01 shall include the following:

This work includes removal and disposal of existing asphalt mat within the project limits as shown on the plans or at locations directed by the Project Engineer.

CONSTRUCTION REQUIREMENTS

In Subsection 202.02 delete the seventh paragraph and replace with the following:

The existing asphalt mat, which varies in thickness, shall be removed in a manner that minimizes contamination of the removed mat with underlying material. The removed mat shall become the property of the Contractor and shall be disposed of outside the project site.

METHOD OF MEASUREMENT

Subsection 202.11 shall include the following:

The removal of the existing asphalt mat will be measured by the square yard of mat removed to the required depth and accepted.

BASIS OF PAYMENT

Subsection 202.12 shall include the following:

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Removal of Asphalt Mat	Square Yard

Unless otherwise specified in the Contract, the disposal of the asphalt mat or its use in other locations on the project will not be measured and paid for separately, but shall be included in the work.

REVISION OF SECTION 202 REMOVAL OF TRAFFIC SIGNAL EQUIPMENT

Section 202 of the Standard Specifications is hereby revised as follows:

DESCRIPTION

Subsection 202.02 shall include the following:

Traffic signal equipment to be removed shall consist of the items specifically identified on the plans, or in writing by the Project Engineer. It shall be the Contractor's responsibility to assure that the Contractor has a full and complete understanding of included items prior to bidding.

CONSTRUCTION REQUIREMENTS

Subsection 202.04 shall include the following:

Removal of the traffic signal equipment shall include traffic signal poles and mast arms, traffic signal controller and cabinet, cabinet and pole footings, video detection cameras, radio communication antennas, all attachment hardware, and all incidental equipment, except as noted on plans. All existing foundations shall be removed to a depth as specified on the plans. All wiring shall be removed from abandoned conduit and the conduit shall be abandoned in place. The Contractor shall restore disturbed areas affected by removals. Restoration of landscaped areas shall be per Revision of Section 107, Protection and Restoration of Existing Property and Landscape.

METHOD OF MEASUREMENT

Subsection 202.11 shall include the following:

All traffic signal equipment which is removed shall remain the property of the Contractor except video detection equipment which shall be returned to the City, or unless otherwise specified by the Project Inspector. City property shall be removed from the work site and returned by the Contractor to the City at 6701 Indiana Street, Arvada, Colorado. Delivery of salvaged equipment shall be included in the cost of Removal of Traffic Signal Equipment and will not be paid for separately.

BASIS OF PAYMENT

Subsection 202.12 shall include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Removal of Traffic Signal Equipment	Lump Sum

Payment includes all labor, equipment, and materials necessary to complete the work.

REVISION OF SECTION 203 POTHOLING

Section 203 of the Standard Specifications is hereby revised for this project as follows:

CONSTRUCTION REQUIREMENTS

Subsection 203.05 (f) shall include the following:

At potholing plans shall be supplied to the Contractor at each crossing of electrical conduit within the project limits. In addition, the proposed traffic signal caisson locations have been potholed to verify that there are no utility conflicts. Should the pothole plan not be sufficient potholing shall be at the direction of the Engineer.

The Contractor shall not backfill any pothole until the existing utility depth is recorded.

Potholes shall be restored per City of Arvada standard detail ST-38 or as approved by the Project Inspector.

METHOD OF MEASUREMENT

Subsection 203.11 shall include the following:

Potholing shall be measured by the number of potholes conducted on this project and approved by the City of Arvada Project Engineer.

BASIS OF PAYMENT

Subsection 203.12 shall include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Potholing	Each

Payment includes all labor, equipment, and materials necessary to complete the work.

REVISION OF SECTION 207 TOPSOIL

Section 207 of the Standard Specifications is revised as follows:

DESCRIPTION

Subsection 207.01 shall include the following:

All disturbed areas to be landscaped or seeded shall receive 6 inches of topsoil. The contractor shall salvage existing topsoil and supplement if needed with imported topsoil.

CONSTRUCTION REQUIREMENTS

Subsection 207.03 shall include the following:

All areas to be seeded shall be disked to break up dirt clods to a size of one (1) inches or smaller. Disking shall not occur until all concrete has been completed to avoid re-compaction of the soil. If soil is recompact after disk, the Contractor shall re-disk the area at no additional cost to the project as directed by the Owner.

Topsoil shall be placed after disk operations are complete. Topsoil shall be spread to a minimum depth of six (6) inches. All topsoiled areas shall be seeded or temporarily stabilized within seven (7) calendar days after placement is complete.

METHOD OF MEASUREMENT

Subsections 207.04 shall be deleted and revised as follows:

Topsoil will not be measured and paid for separately but shall be included in the Landscape Restoration pay item.

REVISION OF SECTION 208 CONCRETE WASHOUT STRUCTURE

Section 208 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 208.01 shall include the following:

This work consists of the management and removal of concrete washout waste related to the placement of concrete and the cleaning of construction equipment on this project. The washout of concrete from construction vehicles and construction equipment shall be of the mobile operations type. No permanent concrete washout structure(s) will be constructed. The Contractor shall be responsible for providing temporary methods of accumulating concrete washout waste and disposing of concrete washout waste off-site. The Contractor shall comply with all regulations and at no time shall concrete washout waste be disposed of within City of Arvada right-of-way or on private property except at sites affiliated with the Contractor and/or his subcontractors.

MATERIALS

Subsection 208.02(j) shall be deleted for this project.

CONSTRUCTION REQUIREMENTS

In Subsection 208.05(n), delete the first and second paragraphs after the section heading, Concrete Washout Structure, and the third paragraph and subsections (1) through (11).

METHOD OF MEASUREMENT

Add the following to the fourth paragraph of Subsection 208.11:

Concrete washout structure will be measured by the number of mobile structures used on the project as approved by the City of Arvada Project Inspector.

BASIS OF PAYMENT

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Pre-Fabricated Concrete Washout Structure (Type 1)	Each

REVISION OF SECTION 212 SOD

Section 208 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

This work consists of installation sod where existing lawn has been disturbed in the northwest corner of the intersection.

MATERIALS

Subsection 212.02(c), shall include the following:

Sod shall match existing material in place adjacent to construction areas.

METHOD OF MEASUREMENT

Subsection 212.07 shall include the following:

Sod will not be measured and paid for separately but shall be included in the Landscape Restoration pay item.

BASIS OF PAYMENT

Subsection 212.08 shall include the following:

Temporary watering, sod, fertilizer, and maintenance will not be paid for separately, but shall be included in the work.

REVISION OF SECTION 212 LANDSCAPE RESTORATION

Section 212 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 212.01 shall include the following:

Landscape restoration shall include the removal and placement of all materials to match existing conditions before project construction began. To verify the existing condition the Contractor shall take photos and motion pictures of the northwest corner of the intersection. The photos and motion picture shall be supplied to the City for reference.

MATERIALS

Delete Subsection 212.06(a) and replace with the following:

(a) *Soil Preparation.* Prior to seeding, all areas are to be raked by hand or mechanical means to produce a finished surface free from bumps, rocks, and clods over one inch in diameter. Finished grade will be within 0.1' of grade as shown on plans or in details. Surfaces shall be left smooth, clean, and even graded to drain and fit into any undisturbed surrounding terrain. All irregularities more than one inch in diameter shall be removed. Any depressions or other variances from a smooth grade shall be corrected by the Contractor.

CONSTRUCTION REQUIREMENTS

Subsection 212.03(a) shall be added and include the following:

This work includes restoring private landscaping and irrigation systems authorized and approved by the Project Engineer.

Items to be restored shall include, but not be limited to, gravel, decorative rock and cobble (1/2" to 24"), mulch, weed barrier fabric, topsoil, sod, landscape concrete or metal edging, and shrubs. Contractor to re-lay, reset or adjust all items to a condition similar or equal to that existing before construction.

The Contractor shall be held responsible for safekeeping of all materials that are to be restored. Materials damaged, stolen, or lost prior to resetting, relaying, or adjusting structures shall be repaired or replaced, as determined by the Project Engineer at the sole cost of the Contractor.

Contractor shall notify all property owners a minimum for 72 hours prior to work adjacent to their property, unless otherwise specified.

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**REVISION OF SECTION 212
LANDSCAPE RESTORATION**

Payment will be made under:

Pay Item

Pay Unit

Landscape Restoration

Lump Sum

Stockpile topsoil, soil conditioning, sod, mulching, mulch tackifier, topsoil, and irrigation system adjustments and/or restorations will not be paid for separately but shall be included as part of the work of the item.

REVISION OF SECTION 403 HOT MIX ASPHALT

Section 403 of the Standard Specifications is hereby revised for this project as follows:

Subsection 403.02 shall include the following:

The design mix for hot mix asphalt shall conform to the following:

Table 403-1					
Property	Test Method	Value For Grading			
		SX (75)	S (75)		Patching
Air Voids, percent at: N (design)	CPL 5115	3.5-4.5	3.5-4.5		3.5 – 4.5
Lab Compaction (Revolutions): N (design)	CPL 5115	8 75	8 75		
Stability, minimum	CPL 5106	30	30		30
Aggregate Retained on the 4.75 mm (No. 4) Sieve for S, SX and SG, and on the 2.36mm (No. 8) Sieve for ST and SF with at least 2 Mechanically Induced fractured faces, % minimum*	CP 45	60	60		60
Accelerated Moisture Susceptibility Tensile Strength Ratio (Lottman), minimum	CPL 5109 Method B	80	80		80
Minimum Dry Split Tensile Strength, kPa (psi)	CPL 5109 Method B	205 (30)	205 (30)		205 (30)
Grade of Asphalt Cement, Top Layer		PG-64-22			PG 64-22
Grade of Asphalt Cement, Layers below Top			PG 64-22		PG 64-22
Voids in the Mineral Aggregate (VMA) % minimum	CP 48	See Table 403-2	See Table 403-2		See Table 403-2
Voids Filled with Asphalt (VFA), %	AI MS-2	65-75	65-75		65-75
Dust to Asphalt Ratio Fine Gradation Coarse Gradation	CP 50	0.6-1.2 0.8-1.6	0.6-1.2 0.8-1.6		0.6 – 1.2 0.8 – 1.6
Note: AI MS-2 = Asphalt Institute Manual Series 2 Note: Mixes with gradations having less than 40% passing the 4.75 mm (No. 4) sieve shall be approached with caution because of constructability problems. Note: Gradations for mixes with a nominal maximum aggregate size of one-inch or larger are considered a coarse gradation if they pass below the maximum density line at the #4 screen. Gradations for mixes with a nominal maximum aggregate size of 3/4" to 3/8" are considered a coarse gradation if they pass below the maximum density line at the #8 screen. Gradations for mixes with a nominal maximum aggregate size of #4 or smaller are considered a coarse gradation if they pass below the maximum density line at the #16 screen. *Fractured face requirements for SF may be waived by RME depending on project conditions.					

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REVISION OF SECTION 403 HOT MIX ASPHALT

All mix designs shall be run with a gyratory compaction angle of 1.25 degrees and properties must satisfy Table 403-1. Form 43 will establish construction targets for Asphalt Cement and all mix properties at Air Voids up to 1.0 percent below the mix design optimum. The production asphalt cement and volumetric targets based on the Contractor's mix design and the relationships shown between the hot mix asphalt mixture volumetric properties and asphalt cement contents on the Form 429. A different AC content other than the one shown at optimum on the Contractor's mix design in order to establish the production targets as contained on the Form 43. Historically, Air Voids adjustments typically result in asphalt cement increases from 0.1 to 0.5 percent. Contractors bidding the project should anticipate this change and factor it into their unit price bid.

Table 403-2

	Minimum Voids in the Mineral Aggregate (VMA)			
Nominal Maximum Size*, mm (inches)	***Design Air Voids **			
	3.5%	4.0%	4.5%	5.0%
37.5 (1½)	11.6	11.7	11.8	N/A
25.0 (1)	12.6	12.7	12.8	
19.0 (¾)	13.6	13.7	13.8	
12.5 (½)	14.6	14.7	14.8	
9.5 (⅜)	15.6	15.7	15.8	
4.75 (No. 4)	16.6	16.7	16.8	16.9
	* The Nominal Maximum Size is defined as one sieve larger than the first sieve to retain more than 10%. ** Interpolate specified VMA values for design air voids between those listed. *** Extrapolate specified VMA values for production air voids beyond those listed.			

The Contractor shall prepare a quality control plan outlining the steps taken to minimize segregation of HMA. This plan shall be submitted to the Project Engineer and approved prior to beginning the paving operations. When the Project Engineer determines that segregation is unacceptable, the paving shall stop and the cause of segregation shall be corrected before paving operations will be allowed to resume.

When the Engineer determines that segregation is unacceptable, the paving shall stop and the cause of segregation shall be corrected before paving operations will be allowed to resume.

Hot mix asphalt for top lifts used on the roadway surface shall conform to the gradation requirements for Stone Matrix Asphalt. The Contractor shall supply a mix design for approval. Hot mix asphalt for intermediate and bottom lifts of patching used on the roadway surface shall conform to the gradation requirements for Hot Mix Asphalt (Grading S) (75) (PG 64-22).

A minimum of 1 percent hydrated lime by weight of the combined aggregate shall be added to the aggregate for all hot mix asphalt.

BASIS OF PAYMENT

Payment shall be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Hot Mix Asphalt (Patching)(Asphalt)	SY
Stone Matrix Asphalt	Ton

Aggregate, asphalt recycling agent, additives, hydrated lime, and all other work necessary to complete each hot mix asphalt item will not be paid for separately, but shall be included in the unit price bid. When the pay item includes the PG binder grade, the asphalt cement will not be measured and paid for separately, but shall be included in the work. Asphalt cement used in Hot Mix Asphalt (Patching) (Asphalt) will not be measured and paid for separately, but shall be included in the work.

Historically, typical asphalt cement increases reflected on the Form 43 are from 0.1 to 0.5 percent. However, the Contractor should anticipate the AC increases typical of his mixes. Contractors bidding the project should anticipate this change and factor it into their unit price bid.

EXCAVATION, PREPARATION, AND TACK COAT OF AREAS TO BE PATCHED WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

REVISION OF SECTION 608 SIDEWALKS AND CURB RAMPS

Section 608 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 608.01 shall include the following:

This work consists of constructing concrete sidewalk and curb ramps in accordance with the lines and grades shown on the plans.

MATERIALS

Concrete for the concrete sidewalk and curb ramps shall be Class B and meet the requirements of Section 601.02 of the 2019 Standard Specifications for Road and Bridge Construction. Mix design from the material supplier shall be submitted to the Project Engineer for approval prior to incorporation into the work.

Concrete shall be mixed with Fibermesh reinforcing strands (or approved equal), at the rate of 1.5 pounds per cubic yard at the batch plant. Concrete shall be continuously agitated from the time water is added and then mixed for 2-1/2 minutes just prior to discharge. Water shall not be added to any concrete truck after any portion of the load has been discharged. The mix shall be discharged in place within 90 minutes after batching when delivered in truck mixers or agitating trucks and within 60 minutes after cement is batched when delivered in non-agitating trucks unless longer time is specifically authorized by the Project Engineer. The 90 minute time limit for mixer or agitating trucks may be increased to 120 minutes if no water is added after 90 minutes and the concrete temperature prior to placement is less than 90 degrees F.

CONSTRUCTION REQUIREMENTS

Subsection 608.03 (f) shall be revised to include the following:

Concrete shall not be left exposed for more than 1/2 hour between the time finishing is completed and commencement of curing treatment unless approved by the Project Inspector.

Sections of sidewalk which develop random cracking shall be removed and replaced in a satisfactory manner to the Project Inspector by the Contractor at his expense. Curb ramps that develop random cracking shall be removed and replaced in full in a satisfactory manner to the Project Inspector, by the Contractor at his expense.

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**REVISION OF SECTION 608
SIDEWALKS AND CURB RAMPS**

BASIS OF PAYMENT

Subsection 608.06 is revised to include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Concrete Sidewalk (6-Inch)	Square Yard
Curb Ramp	Square Yard

Fibrous polypropylene filaments will not be paid for separately but shall be included in the work.

REVISION OF SECTION 608 DETECTABLE WARNINGS

Section 608 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 608.01 shall include the following:

This work includes the installation of detectable warnings on concrete curb ramps as shown on the plans.

MATERIALS

Subsection 608.02 shall include the following:

Detectable warnings on curb ramps shall be truncated domes of the dimensions shown on the plans. Domes shall be prefabricated by the manufacturer as a pattern on embeddable surface plates.

Plates and pavers shall meet all Americans with Disabilities Act (ADA) requirements for truncated domes, and when installed, shall be capable of producing the pattern of domes shown on the plans.

Plates used shall be one of the products approved for use as detectable warnings as follows or approved equal

- “Cast in Place” by Amor-Tile, Inc.
- “Cast in Place” by ADA Solutions, Inc.
- “Cast in Place” by Masons Supply Company.
- Cast Iron DWAP with Red color as produced by East Jordan Iron Works.
- Precast Concrete Detectable Warning Paving Slabs by StoneBilt Concepts.
- USA Safety Domes

The domes and their underlying surface shall have a discernible contrast of color from the adjacent surface. The contrasting colors shall not be black and white.

When plates are used, prior to the start of work, the Contractor shall submit appropriate documentation from the manufacturer verifying that the contrast has been met, along with a sample plate, to the Project Engineer for approval.

CONSTRUCTION REQUIREMENTS

Subsection 608.03 shall include the following:

(g) Detectable Warnings for curbs ramps.

1. Plates. Prior to installation of the plates, concrete conforming to subsection 608.02 shall be installed and consolidated as a base for the plates. The concrete shall be placed to a thickness that will allow the base surface of the plates to be at the same elevation as the adjacent concrete. The plates shall be embedded into the plastic concrete in accordance with the manufacturer’s specifications.

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**REVISION OF SECTION 608
DETECTABLE WARNINGS**

BASIS OF MEASUREMENT

Subsection 608.05 shall include the following:

Detectable warnings on curb ramps, plates, and all other work and materials necessary for fabrication, transport, and installation will not be measured and paid for separately but shall be included in the work.

REVISION OF SECTION 609 CURB AND GUTTER

Section 609 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 608.01 shall include the following:

This work consists of constructing concrete curb and gutter and concrete curb in accordance with the lines and grades shown on the plans.

MATERIALS

Subsection 609.02 shall include the following:

Concrete for curb and gutter shall be Class B and meet the requirements of Section 601.02 of the 2019 CDOT Standard Specification for Road and Bridge Construction. Mix design from the material supplier shall be submitted to the Project Engineer for approval prior to incorporation into the work.

Concrete shall be mixed with Fibermesh reinforcing strands (or approved equal), at the rate of 1.5 pounds per cubic yard at the batch plant. Concrete shall be continuously agitated from the time water is added and then mixed for 2-1/2 minutes just prior to discharge. Water shall not be added to any concrete truck after any portion of the load has been discharged. The mix shall be discharged in place within 90 minutes after batching when delivered in truck mixers or agitating trucks and within 60 minutes after cement is batched when delivered in non-agitating trucks unless longer time is specifically authorized by the Project Engineer. The 90 minute time limit for mixer or agitating trucks may be increased to 120 minutes if no water is added after 90 minutes and the concrete temperature prior to placement is less than 90 degrees F.

Subsection 609.07 shall include the following:

BASIS OF PAYMENT

<u>Pay Item</u>	<u>Pay Unit</u>
Curb and Gutter Type 2 (Section I-M)	Linear Feet
Curb and Gutter Type 2 (Section II-M)	Linear Feet

Fibrous polypropylene filaments will not be paid for separately but shall be included in the work.

REVISION OF SECTION 610 MEDIAN COVER MATERIAL

Section 610 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 610.1 shall include the following:

This work shall include construction of Bomacron Textured Splash Pans and Median Cover Material in accordance with these specifications and in conformity with the lines and grades shown on the plans or established.

MATERIALS

In Subsection 610.02 delete the second paragraph and replace with the following:

Concrete cover material shall conform to the following:

Concrete Mix Design: The concrete shall have a minimum compressive strength of 4,000 psi. Portland cement shall conform to ASTM C 150, Type I, II or V, depending on soil conditions. Aggregates shall conform to ASTM C 33. Mixing water shall be fresh, clean, and potable. An air-entraining agent complying with ASTM C 260 shall be used to achieve an entrained air content for the particular concrete mix used in accordance with the published recommendations of the Portland Cement Association and the American Concrete Institute (for freeze thaw climate). A normal set or retarded set water reducing admixture complying with ASTM C 494 may be used. Calcium chloride shall not be used in the mix.

Bomanite Color Hardener: Specially formulated for installation of Bomacron.

The colors shall be: tile red manufactured by L.M. Scofield, locally distributed by White Cap Industries.

The antiquing release shall be: 2 parts Stone Gray, manufactured by QC Construction, locally distributed by White Cap Industries or Barton Leasing, Inc., and 1 part Deep Charcoal, manufactured by L.M. Schofield, Locally distributed by White Cap Industries.

Acrylic Sealer shall be: Acroseal Crylic Sealant or approved equal.

All colors and sealant shall match the adjacent existing median materials.

The grade shall be heavy duty.

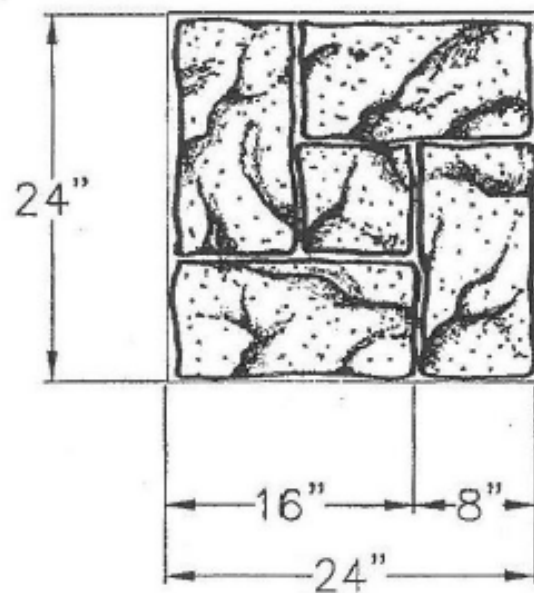
Control and expansion joints shall be located as shown in the plans to minimize cracking.

The Bomacron textured concrete shall be as installed by a contractor that has experience in this construction with a minimum of 5 example locations, references and approved by the Project Engineer.

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REVISION OF SECTION 610 MEDIAN COVER MATERIAL

Fiber mesh $\frac{3}{4}$ inch synthetic reinforcing shall be used. Engineered synthetic reinforcing fibers shall be 100 percent polypropylene collated, fibrillated fibers. Fiber length, and amount shall conform to the manufacturer's recommendations for the concrete mixture. The fiber manufacturer or approved distributor shall provide the services of a qualified technician for a pre-job meeting, and initial job start up.



Physical properties of the fibers shall be as follows:

Specify gravity:	0.91
Modulus of elasticity:	0.5×10 to 0.7×10 psi
Tensile Strength:	70 to 110 ksi
Length:	3-4 inches

The fiber manufacturer shall certify that all polypropylene fibers meet the physical properties, and are manufactured from virgin polypropylene containing no reprocessed olefin materials specifically for use in concrete, if the fiber manufacturer is other than the brand name listed on the literature and packaging, the certification shall be from the original manufacturer of the fibers. The fiber manufacturer shall supply an evaluation from the Council of American Building Official that states that this fiber will control shrinkage and thermal cracking, and is a suitable alternative to welded wire fabric.

All fibers shall be added at the concrete batch plant to assure uniform and complete dispersion of the collated-fabrillated fiber bundles into single monofilaments within the concrete.

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REVISION OF SECTION 610 MEDIAN COVER MATERIAL

CONSTRUCTION REQUIREMENTS

Delete Subsection 610.03(b) and replace with the following:

- (b) The *Bomacron* concrete median cover shall be constructed by a licensed, trained Bomanite contractor using Bomacron tools and processes. The licensed contractor shall provide a foreman or supervisor who has done at least three installations of demonstrated high quality.

Preparation work such as subgrade preparation shall be performed by the Contractor. Finish grading, setting of forms and screeds and reinforcing shall be done by the Bomacron-licensed contractor.

Contractor shall pour a mock-up for approval by the Project Engineer prior to initiating work.

The Bomacron-licensed contractor shall perform the following work, and all of this work shall be included in the pay item:

1. Provide materials: concrete, Bomanite color hardener, and Bomacron release agent.
2. Provide Bomacron texturing tools.
3. Place concrete
4. Apply Bomanite color hardener.
5. Apply Bomacron release agent.
6. Apply Bomacron texturing tools.
7. Apply final surface treatment.
8. Wash.
9. Apply one application of Acroseal acrylic sealant following manufacturer's recommendation.

BASIS OF MEASUREMENT

Section 610.04 shall include the following:

Bomacron concrete median cover material will be measured by the square foot.

BASIS OF PAYMENT

<u>Pay Item</u>	<u>Pay Unit</u>
Median Cover Material (Patterned Concrete)	Square Foot

**REVISION OF SECTION 612
DELINEATOR (TYPE 1)**

Section 612 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 612.01 shall include the following:

This work consists of the installation of Type 1 delineators at locations shown on the plans.

CONSTRUCTION REQUIREMENTS

Subsection 612.03 shall include the following:

Delineators shall be installed in 3” Polyvinyl Chloride (PVC) sleeves that are impeded in the new median cover material that is being installed in the existing channelizing island.

BASIS OF PAYMENT

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Delineator (Type 1)	Each

REVISION OF SECTION 613 ELECTRICAL CONDUIT

Section 613 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 613.01 shall include the following:

This work includes furnishing and installing new High-Density Polyethylene (HDPE) or Polyvinyl Chloride (PVC) electrical conduit and fittings for use with fiber optic cable, electrical conductors, and communications cabling.

MATERIALS

Subsection 613.02(c) shall include the following:

All materials furnished, assembled, fabricated, or installed under this item shall be new, Underwriters Laboratories (UL) listed, corrosion resistant and National Electric Code (NEC) compliant. Materials shall be submitted to the Project Engineer for approval.

Electrical conduit shall be Schedule 80 in the diameters, quantities and depths shown on the plans. Electrical conduit and fittings shall be UL listed.

HDPE conduit and fittings shall be certified by the manufacturer as meeting American National Standards Institute (ANSI) ANSI/UL 651A. PVC conduit and fittings shall be certified by the manufacturer as meeting ANSI/UL 651. The manufacturers shall be International Organization for Standards (ISO) ISO 9001 compliant.

All HDPE conduit shall be factory lubricated, low-friction, high-density conduit constructed of virgin high-density polyethylene resin. HDPE conduit shall be capable of being coiled on reels in continuous lengths, transported, stored outdoors, and subsequently used for installation, without affecting its properties or performance.

Each conduit shall be equipped with a pull tape. The pull tape shall have a minimum tensile strength of 1800 pounds and be of a design and manufacture that prevents cutting or burning into the conduit during cable installation. The pull tape shall include a continuous 22-gauge tracer wire. Splices in the pull tape and tracer wire may occur inside pull boxes and shall not be permitted inside conduit.

A minimum 12-gauge tracer will shall be included in conduits containing fiber optic cable.

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REVISION OF SECTION 613 ELECTRICAL CONDUIT

CONSTRUCTION REQUIREMENTS

Subsection 613.07 shall include the following:

Section 50.4.6B of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022.

All conduit and fittings installation shall conform to the NEC. Electrical Conduit (Bored) shall be HDPE and installed using a trenchless technology such as directional boring.

Electrical Conduit (Plastic) shall be PVC or HDPE and installed by direct burial methods such as plowing, open trenching, or other excavation methods.

During construction operations, the contractor shall maintain boring logs that include the depth at specific distances along the bore. Boring logs shall be submitted on a weekly basis.

Excavations and conduit installation shall be performed in a continuous operation. All trenches shall be backfilled by the end of each shift. Material from trenching operations shall be placed in a location that will not cause damage or obstruction to vehicular or pedestrian traffic or interfere with surface drainage.

The Contractor shall be responsible for damage due to over-excavating a trench and heaving damage to the existing asphalt and concrete mat, caused by equipment directly and by dislodging rocks or boulders. All damage from over-excavation and heaving shall be repaired at the Contractor's expense. The Contractor shall bear the cost of backfilling all over-excavated areas with the appropriate backfill material approved by the Project Inspector.

The Contractor shall restore all surface materials to their original condition or better, including but not limited to pavement, sidewalks, sprinkler systems, landscaping, shrubs, sod, and native vegetation that is disturbed by the conduit installation operation. All repairs shall be included in the cost of the conduit.

The Contractor shall use UL listed splice couplings that comply with the NEC. All associated work to splice the conduit shall be included in the cost of the item. The coupling technology used to connect conduit ends shall require no special tools and shall form a watertight, airtight seal. The breaking force between segments shall exceed 250 pounds. Conduit splices shall be kept to a minimum and all such locations shall be approved and inspected by the Project Inspector and the authority having jurisdiction. Additional pull boxes shall not be substituted for conduit splices.

Conduit plugs that are watertight, removable, mechanical, and equipped with a tie rope for connection to a pull rope and pull tape shall be supplied and installed in all open conduit ends as soon as the conduit is installed. Conduit shall be plugged at termination points such as pull boxes and controller cabinets.

Conduits containing cable shall be plugged with durable and reusable split type plugs, fabricated without metallic parts. The plugs shall allow easy removal and reinstallation around in-place cables. Split type plugs shall provide a watertight and airtight seal of at least 22 pounds per square inch. They shall be installable by hand without using tools and without damaging the cable. All plugs shall be correctly sized to fit the conduit being plugged.

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REVISION OF SECTION 613 ELECTRICAL CONDUIT

All conduits shall use sweeps to elevate the buried conduits to the final grade within a pull box. The sweeps shall be terminated within the pull boxes to allow for easy installation and removal of conduit plugs. The sweeps shall be set above the ground surface of the inside of the pull box at a height that does not interfere with coiling of the fiber optic cable.

All conduit runs containing fiber optic cable shall have a limited number of bends. The sum of the individual bends on a single conduit run between any two pull points shall not exceed 270 degrees. No individual bend shall exceed 90 degrees. All conduit bends shall have a minimum acceptable radius of 48 inches for 90-degree bends and for conduit containing fiber optic cable and 24 inches for all other bends. HDPE conduit minimum bending radius shall conform to Table 354.24 in the NEC.

New conduits may be installed into existing pull boxes and cabinet bases, and the Contractor shall carefully excavate around the existing facility and install the new conduit as shown on the plans. The Contractor shall not damage the existing facility or its contents. If the existing conduit, pull box, lid and concrete collars are damaged during conduit installation, the Contractor shall restore the damaged item or section to current City of Arvada requirements at no additional cost to the project.

Conduit shall always enter a pull box or cabinet base and all other structure types from the direction of the run only. All conduit ends shall be free from sharp edges and burrs.

METHOD OF MEASUREMENT

Subsection 613.11 shall include the following:

Conduit shall also include all groundwork, lubricants, anchors, bands, skids, sweeps, pull rope, pull tape, copper tracer wire, adaptors, fittings, splice couplings, conduit plugs, foam sealant, installation equipment, mounting brackets and hardware, structure anchors, adhesives, labor and all other items necessary to complete the work.

BASIS OF PAYMENT

Subsection 613.12 shall include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
2 Inch Electrical Conduit (Bored)	Linear Foot
2 Inch Electrical Conduit (Plastic)	Linear Foot
3 Inch Electrical Conduit (Bored)	Linear Foot
3 Inch Electrical Conduit (Plastic)	Linear Foot

Electrical Conduit contract unit price shall be full compensation for work described above, specified in the plans, and complete and in place.

REVISION OF SECTION 613 PULL BOXES

Section 613 of the Standard Specifications is hereby revised for this project to include Section 50.4.6C of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements 2022 Edition adopted July 26, 2022.

DESCRIPTION

Subsection 613.01 shall include the following:

Contractor shall furnish and install fiberglass reinforced polymer concrete pull boxes at locations shown on the plans.

MATERIALS

Subsection 613.02(l) shall include the following:

Pull Boxes. Pull boxes shall be verified by a 3rd Party Nationally Recognized Independent Testing Laboratory as meeting all test provisions of American National Standards Institute/Society of Cable Telecommunications Engineers (ANSI/SCTE) 77, 2013 Specification for Underground Enclosure Integrity, Tier 22 rating. Pull boxes shall be Underwriters Laboratories (UL) listed. Certification documents shall be submitted with material submittals.

Each pull box shall have a locator disk manufactured into the lid for communication line locating. The locator disk shall be compatible with a City of Arvada cable locator.

Pull boxes 24 inches by 36 inches and larger shall have removable split lids with a removable metal center support brace. Lid segment weight shall not exceed 100 pounds.

Pull box removable lids shall be provided with a skid-resistant surface and have the word "TRAFFIC" and the tier level rating cast into the surface. Painting of words shall not be accepted. The cover shall be attached to the pull box body by means of 3/8-inch x 7-inch lag thread hex head stainless steel bolts.

Each lid shall have one lift slot. Lift slots shall be rated for 3000 pounds.

CONSTRUCTION REQUIREMENTS

Subsection 613.07 shall include the following:

A minimum of 12 inches of granite-gravel shall be installed as a base for the pull box. The granite-gravel shall be free of dirt and debris and spread evenly to facilitate a level base for the pull box. The Contractor shall ensure that sufficient compacting is made prior to the installation of granite-gravel to alleviate future settling.

Tracer wire shall be attached to the trace test points on the underside of the pull box lid. Each trace wire shall be attached to an individual trace point; no two wires shall be attached to the same point. The Contractor shall coil an additional 3 feet of tracer wire inside the pull box to ensure that the tracer wire will not disconnect from test points when the lids are removed.

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**REVISION OF SECTION 613
PULL BOXES****METHOD OF MEASUREMENT**

Subsection 613.11 shall include the following:

Pull Boxes will be measured by the actual number installed and accepted, and will include base, lid, integrated location disk, integrated test points, arrow symbols, excavation, backfill, concrete apron, and ¾-inch granite-gravel. Pull Boxes shall also include the removal and patching of pavement, sidewalks, curb and gutters and their replacement in kind to match existing grade.

BASIS OF PAYMENT

Subsection 613.12 shall include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Pull box (Type M) (13"x24"x12")	Each
Pull Box (Type LG) (24"x36"x18")	Each

**REVISION OF SECTION 614
TRAFFIC SIGNAL CONTROLLER (INSTALL ONLY)**

Section 614 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 614.01 shall include the following:

This work consists of installing a traffic signal controller shall be furnished by the City of Arvada at the locations shown on the plans.

MATERIALS

Subsection 614.02 shall include the following:

Traffic signal controller shall be an Econolite Cobalt Advanced Transportation (ATC) controller as furnished by the City of Arvada. Contact the Project Engineer to obtain the new controller.

METHOD OF MEASUREMENT

Subsection 614.13:

Traffic Signal Controller shall be measured by the number of controllers installed on the project.

BASIS OF PAYMENT

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Traffic Signal Controller (Install Only)	Each

**REVISION OF SECTION 614
FIBER OPTIC CABLE (SINGLE MODE)**

Subsection 614 of the Standard Specifications is hereby revised for this project to include Section 50.3.3 of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022 .

This item shall include the Fiber Optic Termination Panels required in each cabinet. See Revision of Section 614 – Fiber Optic Termination Panel.

BASIS OF PAYMENT

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Fiber Optic Cable (Single Mode) (12 Fiber)	Linear Feet

The cost of splice closures, splicing, fiber optic termination panel, fiber terminations, and fiber tagging shall be included as part of the work and shall not be paid for separately.

**REVISION OF SECTION 614
FIBER OPTIC TERMINATION PANEL**

Subsection 614 of the Standard Specifications is hereby revised for this project to include Section 50.3.4 of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022.

METHOD OF MEASUREMENT

This item will not be measured and paid for separately but shall be included in the cost of Fiber Optic Cable (Single Mode) (12 Fiber).

REVISION OF SECTION 614 ETHERNET SWITCH

Subsection 614 of the Standard Specifications is hereby revised for this project to include Section 50.3.1 of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022.

MATERIALS

Subsection 614.02 shall include the following:

Ethernet switch shall be Siemens Ruggedcom RS900GP.

METHOD OF MEASUREMENT

Subsection 614.13 shall include the following:

Ethernet switch shall be measured by the number of Ethernet Switches installed on the project as directly by the Project Engineer.

BASIS OF PAYMENT

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Ethernet Switch	Each

**REVISION OF SECTION 614
TEST FIBER OPTIC CABLE**

Subsection 614 of the Standard Specifications is hereby revised for this project to include Section 50.3.5 of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022.

BASIS OF PAYMENT

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Test Fiber Optic Cable	Lump Sum

**REVISION OF SECTION 614
SIGN PANEL (CLASS I) (INSTALL ONLY)**

Section 614 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 614.01 shall include the following:

This work consists of the installation of traffic control and street name signs furnished by the City of Arvada at the locations shown on the plans.

MATERIALS

Subsection 614.04 shall include the following:

The city of Arvada shall furnish all signal panels identified for installation as shown on the plans.

METHOD OF MEASUREMENT

Subsection 614.13 shall include the following:

Sign Panel (Class I)(Install Only) pay item shall include pick up of the signs furnished by the City of Arvada at 6701 Indiana Street and shall include all mounting hardware, mounting equipment, brackets, and any other materials necessary to mount the sign panels to the existing or new structures as shown on the plans.

BASIS OF PAYMENT

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Sign Panel (Class I) (Install Only)	Square Feet

REVISION OF SECTION 625 CONSTRUCTION SURVEYING

Section 625 of the Standard Specifications is hereby revised as follows:

DESCRIPTION

Subsection 625.11 shall hereby include the following:

The Contractor shall submit "as-built" drawings showing in detail all construction changes, including, but not limited to, traffic signal caisson locations and elevations, location, and depth of conduits, pull box, and all other installations and equipment that varies from the plans. "As-built" drawings shall also include surveyed elevations of all sidewalks, curb ramps and curb & gutter. "As-built" plans shall be electronic revisions of the construction plans. "As-built" drawings shall be submitted at the end of the project and shall be required prior to warranty commencement by the City of Arvada. The preparation of "as-built" drawings, including all associated labor and equipment, shall not be paid for separately, but shall be incidental to the project.

REVISION OF SECTION 630 CONSTRUCTION ZONE TRAFFIC CONTROL

Section 630 of the Standard Specifications is hereby revised as follows:

DESCRIPTION

Subsection 630.01 shall include the following:

The City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, 2022 Edition adopted July 26, 2022. Where those specifications and standards are in conflict with any portion of Section 50, the City Standards shall take precedence.

The Contractor shall notify, at a minimum, City of Arvada Police Department, Arvada Fire Protection Agency, RTD, as well as the City of Arvada Traffic Engineering when closures and detours are required.

Contractor shall maintain business, residential, and side street access at all times. This information shall be included in the MHT to be reviewed by the City of Arvada.

The Contractor shall provide the City 48 hour notice of any change in traffic control or detours.

Traffic control through the construction area is the responsibility of the Contractor. Before starting construction, the Contractor shall submit, in writing, the proposed Method of Handling Traffic (MHT) for the initial phase of construction. When a different MHT is required for a subsequent construction phase, it must be submitted two weeks prior to starting that phase. All proposed MHTs shall be approved, in writing, by the City of Arvada Traffic Engineering Division. No phase of construction shall start until an acceptable MHT has been received and approved by the City of Arvada Traffic Engineering Division. Submittal of MHT's shall not be paid for separately but shall be incidental to the work. The proposed methods shall include, as a minimum, the following:

A detailed diagram that shows the location of all sign placements, including advance construction signs (if not previously approved) and speed limit signs; method, length, and time duration for lane closures; and location of flag persons. A tabulation of all traffic control devices shown in the detailed diagram shall be included, but not limited to:

- Construction signs
- Portable message sign panels
- Advance warning flashing or sequencing arrow panel (C type)
- Drum channelizing devices
- Traffic cones

However, all devices required for any particular phase must be detailed and tabulated for each phase. Certain traffic control devices may be used for more than one phase of construction.

- Number of flag-persons to be used.
- Number of hours for uniformed traffic control.

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**REVISION OF SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL**

All proposed MHT's shall be approved, in writing, by the City of Arvada Traffic Engineering Division. No phase of construction shall start until an acceptable MHT has been received and approved by the Project Engineer.

Approval of the proposed MHT is intended to indicate those devices for which payment is to be made. Such approval does not relieve the Contractor of liability specifically assigned to him under the contract. The Contractor shall erect and maintain warning lights, signs, barricades, and sufficient safeguards around all excavations, embankments, and obstructions.

Signs damaged due to Contractor operations shall be replaced in kind or repaired by the Contractor at no additional cost to the project.

All advanced construction signing shall be installed prior to any construction activity and remain in place for all phases of construction. Road Work advance sequence signs shall be reset as required to match current locations of initial traffic control devices.

Resetting of construction signs as required by the work is considered incidental to the project and will not be paid separately.

Masking of existing/permanent or temporary signs as required by the work is considered incidental to the project and will not be paid separately.

In the event the Contractor fails to complete the project within the allowable Contract time, including time extensions, the Contractor will bear all costs associated with the additional traffic control required by the project including all flagging, traffic control supervision, rental and maintenance of traffic control devices, etc. until the project is completed.

REVISION OF SECTION 630 UNIFORMED TRAFFIC CONTROL

Section 630 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 630.01 shall include the following:

The City of Arvada Police Department will not provide Uniformed Traffic Control for this project. The Contractor shall make arrangements for Uniformed Traffic Control that meets with the City of Arvada traffic control requirements. Uniformed Traffic Control shall be by a certified traffic control company.

METHOD OF MEASUREMENT

Subsection 630.17 shall include the following:

Uniformed Traffic Control will be measured by the number of hours traffic control is provided.

BASIS OF PAYMENT

Subsection 630.18 shall include the following:

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Traffic Control Management	Days
Uniformed Traffic Control	Hour
Construction Traffic Sign (Panel Size A)	Each
Portable Message Sign Panel	Each
Drum Channelizing Devices	Each

FORCE ACCOUNT ITEMS

DESCRIPTION

This special provision contains the Department's estimate for force account items included in the Contract. The estimated amounts marked with an asterisk will be added to the total bid to determine the amount of the performance and payment bonds. Force Account work shall be performed as directed by the Project Engineer.

BASIS OF PAYMENT

Payment will be made in accordance with Subsection 109.04. Payment will constitute full compensation for all work necessary to complete the item.

Force account work valued at \$5,000 or less, that must be performed by a licensed journeyman to comply with federal, state, or local codes, may be paid for after receipt of an itemized statement endorsed by the Contractor.

<u>Force Account Item</u>	<u>Estimated Quantity</u>	<u>Amount</u>
F/A 01 Minor Contract Revisions	F.A.	\$25,000
F/A 04 Furnish & Install Electrical Service	F.A.	\$ 5,000

Force Account Descriptions:

F/A 01 Minor Contract Revisions - This work consists of minor work authorized and approved by the Project Engineer which is not included in the Contract drawings or specifications and is necessary to accomplish the scope of work of the Contract.

F/A 04 Furnish & Install Electrical Service – This work is for coordination with the local utility company for the installation of an electrical meter in a new meter housing at the Kipling Street at Allendale/Ralston Rd intersection and for providing electrical power to the traffic signal controller cabinet.

TRAFFIC CONTROL PLAN – GENERAL

Subsection 630.10(a) of the Standard Specifications is hereby revised for this project to include Section 50.1 of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

Construction traffic control shall be as required by, in descending order of precedence: 1) the MUTCD; 2) City Standards and Specifications; 3) CDOT Standard Plans (latest edition).

Unless otherwise approved by the Project Inspector, the Contractor's equipment shall follow normal and legal traffic movements. The Contractor's ingress and egress of the work area shall be accomplished with as little disruption to traffic as possible. Traffic control devices shall be removed by picking up the devices in a reverse sequence to that used for installation. This may require moving backwards through the work zone. When located behind barrier or at other locations shown on approved traffic control plans, equipment may operate in a direction opposite to adjacent traffic.

Special Traffic Control Plan requirements for this project are as follows:

This project includes restrictions to work times and days that affect traffic during peak traffic times and days, holidays, holiday evenings, holiday weekends, and other circumstances as described in this special provision. Wherever other laws, ordinances, regulations, or orders are more restrictive, they shall take precedence over these requirements.

All lane closures shall be subject to the approval of the City of Arvada Traffic Engineering Division. Each lane closure request shall be made at least 48 hours in advance of the time the lane closure is to be implemented. Lane closures will not be allowed to remain unless being continuously utilized for the purpose for which they were set up.

The Contractor shall coordinate and cooperate fully with the City of Arvada, utility owners and other contractors to assure adequate and proper traffic control is provided at all times. The Contractor shall coordinate and cooperate fully with any others providing traffic control for other operations to assure that work or traffic control devices do not interfere with the free flow of traffic except as allowed by the approved MHT.

Excavations or holes shall be filled in at the direction of the Project Inspector when unattended. During non-construction periods (weekends, holidays, etc.), all work shall be adequately protected to provide for the safety of vehicular and pedestrian traffic, as detailed in the Contractor's approved MHT.

A. CONSTRUCTION REQUIREMENTS:

During construction of this project, traffic shall use the present traveled roadway at all times in each direction unless otherwise directed or authorized by the Project Engineer.

The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time unless otherwise approved by the Project Engineer. All personal vehicle and construction equipment parking is prohibited where it conflicts with safety, access, or the flow of traffic.

Contractor shall install construction traffic control devices in locations where they do not block or impede other existing traffic control devices.

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TRAFFIC CONTROL PLAN – GENERAL

Contractor and subcontractors shall equip their construction vehicles with flashing amber lights. Flashing amber lights on vehicles and equipment shall be visible from all directions.

Traffic control devices used on this project shall be kept clean and in good working order at all times.

Existing signs or other traffic control devices damaged due to the Contractor's operations shall be replaced in-kind or repaired by the Contractor at no additional cost to the project.

All advanced construction signing shall be installed prior to any construction activity and shall remain in place for all work periods. Road Work Ahead advance signs shall be reset as required to match the location of the work. Resetting construction signs during construction as required by the work is considered incidental to the project and will not be paid separately. Masking of existing or temporary signs as may be required by the work is considered incidental to the project and will not be paid for separately.

All flaggers used on this project shall be certified by an accredited organization approved by the City of Arvada. Proof of certification shall be provided to the Project Engineer. Night flagging is not allowed on this project.

The Contractor shall submit required MHT and all appropriate Traffic Control Supervisor and Flagger documentation to the Project Engineer for approval prior to setting any traffic control device. Work at either intersection shall not commence without an approved MHT.

The Contractor shall maintain frequent communication with the Project Inspector regarding all aspects of the daily and weekly work schedule.

All construction traffic control devices including signs installed under this project shall be installed as depicted in the MUTCD and City Standards and Specifications. Construction signing shall be removed unless work is in progress or equipment has been left on the job site. All portable signs shall be removed at the end of each work day. Costs of removing, resetting or reinstalling construction traffic control devices shall be incidental to the work and will not be paid for separately.

Traffic control devices shall not be stored on the project site.

At least one week prior to starting construction, the Contractor shall notify the City of Arvada Project Engineer of the date the Contractor intends to start construction.

The Contractor shall not deviate from the original approved MHT. If the original MHT requires modification, the Contractor must submit a revised plan to the Traffic Engineering Division for review and approval.

Unless otherwise pre-approved by the Project Engineer, all streets must be left open to local traffic and emergency vehicle access.

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TRAFFIC CONTROL PLAN – GENERAL

All locations that are to be left unfinished overnight must have barricade devices with lights on them. All barricading shall be done in accordance with the MUTCD. If barricades are to be left up overnight they must be lit. It is the Contractor's responsibility to field inspect the work site after dark to ensure that all lights are operating properly.

Upon completion of work for the day all construction signs must be made so that they are not visible to traffic and do not pose a hazard to vehicles, bicycles and/or pedestrians.

The Contractor shall maintain continuous access throughout the project for pedestrians, bicyclists, and disabled persons. When the existing access route is disturbed by construction, a temporary all-weather access shall be provided. All temporary access shall be a minimum of 5 feet wide and meet Americans with Disabilities Act (ADA) requirements. Acceptable all weather surfacing shall be concrete or asphalt surface, or as approved by the Project Engineer. The costs of maintaining access will not be paid for separately, but shall be included in the work. Utilization of materials to be incorporated into the work may be permitted; however, any degradation or other contamination or destruction shall be corrected at the Contractor's expense prior to acceptance.

During non-construction periods (evenings, weekends, holidays, etc.) all work shall be adequately protected to ensure the safety of vehicular and pedestrian traffic, as detailed in the Contractor's MHT. Excavations or holes shall be filled in or fenced when unattended.

The Contractor shall not place tack coat on any surface to be paved where traffic will be forced to travel upon fresh bituminous materials.

The Contractor shall clean the roadway of all construction debris before opening it to traffic.

Unless noted otherwise, all costs incidental to the foregoing requirements shall be included in the original contract prices for the project, including any additional traffic control items required for haul routes into the project. Temporary fence required for protection of the work will not be paid for separately but shall be included in the work.

All costs incidental to the foregoing requirements shall be included in the original contract prices for the project.

C. LANE AND SHOULDER CLOSURES:

Minor and short-term lane closures may be required to facilitate construction. Lane closures are permitted but are allowed only between the hours of 8:30 A.M. and 3:30 P.M. unless otherwise authorized by the Project Engineer.

-4-

TRAFFIC CONTROL PLAN – GENERAL

D. RESTRICTED AND ALLOWABLE WORK – GENERAL:

The Contractor is allowed to work at both locations as authorized by the Project Engineer.

No weekend work shall be allowed unless directed or authorized by the Project Engineer.

Night-time work will not be allowed on this project.

All costs related to, and incidental to, the foregoing requirements shall be included in the original contract prices and will not be measured and paid for separately.

UTILITIES

The work described in these plans and specifications requires cooperation between the Contractor and the utility companies in accordance with Subsection 105.11 in conducting their respective operations as necessary to complete the utility work with minimum delay to the project.

PART 1 – THE CONTRACTOR SHALL PERFORM THE WORK LISTED BELOW:

The work listed below shall be performed by the Contractor in accordance with the plans and specifications, and as directed by the Project Engineer. The Contractor shall keep each utility company advised of any work being done to its facility, so that the utility company can coordinate its inspections for final acceptance of the work with the Project Engineer.

The Contractor shall protect known utilities during construction and shall also be responsible for coordinating unforeseen utility conflicts during construction. The Contractor shall be responsible for identifying the electrical provider for new and existing services and coordinating work with the respective provider.

The Contractor will contact each utility company a minimum of five (5) business days, unless otherwise noted, prior to working in the utility company's area so that the utility company can provide an inspector and/or complete any necessary adjustments or relocations.

If a need for utility work by either the Contractor or a Utility Company arises, the following shall apply:

The Contractor shall be responsible for coordinating the adjustment of utilities on this project. The Contractor shall keep each utility company advised of any work being performed in the vicinity of their facilities so that each utility company can coordinate any needed locates, adjustments or inspections. The Contractor shall provide the appropriate utility company ample notice, but not less than five (5) working days, prior to commencing activities in the vicinity of their facilities. If needed, or as directed by the Project Engineer, the Contractor shall protect any unexpected utilities in place if feasible. If needed, or as directed by the Project Engineer, the Contractor shall provide traffic control for utility work to be coordinated with the projects construction, in accordance with an approved Method of Handling Traffic (MHT). Any additional work performed by the Contractor on behalf of the affected utility company shall not be paid for by the City, but shall be paid by the utility company requiring the work, unless otherwise provided herein, or agreed to in writing by the Project Engineer.

The work described in these plans and specifications requires coordination between the Contractor and the utility companies in accordance with subsection 105.11 in conducting their respective operations as necessary to complete the utility work with minimum delay to the project.

UTILITY OWNER	CONTACT / EMAIL	PHONE
City of Arvada Traffic Operations 8101 Ralston Road, Arvada, CO 80002	Trandon Struck tstruck@arvada.org	720-898-7750
City of Arvada Water 8101 Ralston Road. Arvada, CO 80002	Mary Stahl mstahl@arvada.org	720-898-7643
City of Arvada Storm Sewer & Sanitary 8101 Ralston Road, Arvada, CO 80002	Mary Stahl mstahl@arvada.org	720-898-7643
Lumen (CenturyLink)	Kari Rozsa Kari.Rozsa1@lumen.com	970-481-4313
Comcast CATV & Fiber	Ryan Andersen Ryan_Andersen@comcast.com	720-256-3778
Xcel Energy High Pressure Gas	Patrick Quinn Partick.s.quinn@xcelenergy.com	303-356-8878
Xcel Energy Electric	Patrick Quinn Partick.s.quinn@xcelenergy.com	303-356-8878
Zayo - Fiber	Eric Boe Eric.boe@zayo.com	719-649-3675
MCI (Verizon) - Fiber	Lane Grady Lane.grady@verizon.com	303-827-9756

The Contractor shall modify construction plans to avoid existing underground facilities as needed, and as approved by the Project Engineer. Please note that UNCC marks only its members' facilities – other facilities, such as ditches and drainage pipes may exist, and it is the Contractor's responsibility to investigate, locate and avoid such facilities.

Where applicable, each utility company shall relocate and adjust their facilities and appurtenances to avoid construction conflicts.

Although the Contractor shall provide traffic control for utility work expected to be coordinated with construction, traffic control for utility work outside of typical project work hours shall be the responsibility of the utility owner. The utility owner shall prepare and submit to the City of Arvada Traffic Engineering Division a Method of Handling Traffic for utility work to be performed outside typical project work hours. The utility owner shall obtain acceptance of the Method of Handling Traffic from the City of Arvada Traffic Engineering Division prior to beginning the utility work to be performed outside typical project work hours.

Utility Power Companies

The utility owner shall coordinate with the Contractor at the project for the installation of a new electric service meter in a new service meter cabinet that will be installed by the Contractor. Electric power supplier shall install the electric service meter and make electric cable connections to provide electrical power to the new traffic signal controller cabinet.

GENERAL:

The Contractor shall comply with Article 1.5 of Title 9, CRS ("Excavation Requirements") when excavation or grading is planned in the area of underground utility facilities. The Contractor shall notify all affected utilities at least two (2) business days, not including the day of notification, prior to commencing such operations. The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at (8-1-1) or 1-800-922-1987 to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective company. Utility service laterals shall also be located prior to beginning excavating or grading.

No warranty is made for the adequacy or accuracy of subsurface information provided. The Contractor shall cooperate with the utility owners in their relocation operations as provided in subsection 105.11 of the Standard Specifications for Road and Bridge Construction. No guarantee is made that utility conflicts will be resolved prior to construction activities and any delays resulting from utility relocation work shall be dealt with in accordance with subsection 108.08 of the Standard Specifications for Road and Bridge Construction as amended.

All costs incidental to the foregoing requirements will not be paid for separately but shall be included in the work.

-3-
UTILITIES

The Contractor shall modify construction plans to avoid existing underground facilities as needed, and as approved by the Project Engineer. Please note that UNCC marks only its members' facilities – other facilities, such as ditches and drainage pipes may exist, and it is the Contractor's responsibility to investigate, locate and avoid such facilities.

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All costs incidental to the foregoing requirements will not be paid for separately but shall be included in the work.

Use the Excel file
included in the CSB files
to complete the Bid
Schedule for submittal

BID SCHEDULE



23-PWT-115 Traffic Signal and Intersection Improvements

Bid # and Title

Arvada Project No. 20-TC-07 Kipling Pkwy & Allendale Dr Intersection Improvements

Project No. and Title

Contractor

Address, City, ZIP

Telephone

Bid Prepared By

Date

PAY ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL PRICE
201-00000	CLEARING AND GRUBBING	1	LS		\$ -
202-00190	REMOVAL OF MEDIAN COVER MATERIAL	64	SY		\$ -
202-00200	REMOVAL OF SIDEWALK	67	SY		\$ -
202-00203	REMOVAL OF CURB AND GUTTER	330	LF		\$ -
202-00206	REMOVAL OF CONCRETE CURB RAMP	48	SY		\$ -
202-00220	REMOVAL OF ASPHALT MAT	93	SY		\$ -
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	6117	SY		\$ -
202-00250	REMOVAL OF PAVEMENT MARKING	545	SF		\$ -
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	1	LS		\$ -
202-00840	REMOVAL OF TRAFFIC SIGNAL POLE	3	EACH		\$ -
203-01598	POTHOLING	5	EACH		\$ -
208-00007	EROSION CONTROL LOG TYPE 2 (8 INCH)	50	LF		\$ -
208-00045	CONCRETE WASHOUT AREA	1	EACH		\$ -
208-00070	VEHICLE TRACKING CONTROL	1	EACH		\$ -
208-00200	EROSION CONTROL MANAGEMENT	1	LS		\$ -
210-00810	RESET GROUND SIGN	1	EACH		\$ -
212-01200	LANDSCAPE RESTORATION	1	LS		\$ -
403-00721	HOT MIX ASPHALT (PATCHING) (ASPHALT)	78	SY		\$ -
403-09211	STONE MATRIX ASPHALT	1070	TONS		\$ -
503-00036	DRILLED SHAFT (36 INCH)	39	LF		\$ -
608-00006	CONCRETE SIDEWALK (6 INCH)	35	SY		\$ -
608-00010	CONCRETE CURB RAMP	106	SY		\$ -
609-21011	CURB AND GUTTER TYPE 2 (SECTION I-M)	185	LF		\$ -
609-21020	CURB AND GUTTER TYPE 2 (SECTION II-B)	50	LF		\$ -
610-00020	MEDIAN COVER MATERIAL (PATTERNED CONCRETE)	540	SF		\$ -
612-00001	TYPE 1 DELINEATOR IN 3" PVC SLEEVE	4	EACH		\$ -
613-00200	2 INCH ELECTRICAL CONDUIT (BORED)	195	LF		\$ -
613-00206	3 INCH ELECTRICAL CONDUIT (BORED)	520	LF		\$ -
613-00300	2 INCH ELECTRICAL CONDUIT (TRENCHED)	120	LF		\$ -
613-00306	3 INCH ELECTRICAL CONDUIT (TRENCHED)	520	LF		\$ -
613-07026	PULL BOX (TYPE M)	2	EACH		\$ -
613-07035	PULL BOX (TYPE LG)	4	EACH		\$ -
613-10000	WIRING	1	LS		\$ -
613-13004	LUMINAIRE (LED)	4	EACH		\$ -
613-80130	SERVICE METER HOUSING	1	EACH		\$ -
614-00025	SIGN PANEL (CLASS 1) (INSTALL ONLY)	14	EACH		\$ -
614-10160	SIGNAL HEAD BACKPLATE	11	EACH		\$ -
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	4	EACH		\$ -
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	16	EACH		\$ -
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	2	EACH		\$ -
614-70560	TRAFFIC SIGNAL FACE (12-12-12-12-12)	2	EACH		\$ -

614-72855	TRAFFIC SIGNAL CONTROL CABINET	1	EACH		\$	-
614-72862	PEDESTRIAN PUSH BUTTON STATION AND SIGN	4	EACH		\$	-
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (CDOT S-614-45)	2	EACH		\$	-
614-72864	FIRE PREEMPTION UNIT	4	EACH		\$	-
614-72887	MICROWAVE VEHICLE RADAR DETECTOR	6	EACH		\$	-
614-75840	TRAFFIC SIGNAL CONTROLLER (INSTALL ONLY)	1	EACH		\$	-
614-81130	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-30 FOOT MAST ARM)	1	EACH		\$	-
614-81135	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-35 FOOT MAST ARM)	2	EACH		\$	-
614-86800	UNINTERRUPTED POWER SUPPLY	1	EACH		\$	-
614-87010	FIBER OPTIC CABLE (SINGLE MODE) 12 FIBER	25	LF		\$	-
614-87333	CLOSED CIRCUIT TELEVISION CAMERA (TRAFFIC SURVEILLANCE)	1	EACH		\$	-
614-87350	TEST FIBER OPTIC CABLE	1	LS		\$	-
614-87690	ETHERNET SWITCH	1	EACH		\$	-
625-00000	CONSTRUCTION SURVEYING	1	LS		\$	-
626-00000	MOBILIZATION	1	LS		\$	-
627-00013	PAVEMENT MARKING PAINT (HIGH BUILD)	940	SF		\$	-
627-30410	INLAID PREFORMED THERMOPLASTIC PAVEMENT MARKING	705	SF		\$	-
630-00003	UNIFORMED TRAFFIC CONTROL	8	HR		\$	-
630-00012	TRAFFIC CONTROL MANAGEMENT	30	DAY		\$	-
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	20	EACH		\$	-
630-80355	PORTABLE MESSAGE SIGN PANEL	4	EACH		\$	-
630-80360	DRUM CHANNELIZATION DEVICES	40	EACH		\$	-
700-70010	F/A MINOR CONTRACT REVISIONS	1	F/A	\$ 25,000.00	\$	25,000.00
700-70082	F/A FURNISH AND INSTALL ELECTRIC SERVICE	1	F/A	\$ 5,000.00	\$	5,000.00

Payment will be based on actual quantities performed

TOTAL BID \$ _____

Total Bid Written: _____



Know what's below.
Call before you dig.

General Notes

- A. All construction shall be in accordance with the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, latest edition, unless otherwise specified herein.
- B. All contractors and subcontractors shall be licensed with the City of Arvada Engineering Division.
- C. All work will require a City of Arvada Engineering Division Public Improvement Permit prior to the start of construction. All contractors and subcontractors must obtain a separate permit for the work being completed by the particular contractor or subcontractor. Any construction within the Colorado Department of Transportation (CDOT) right-of-way will require a CDOT construction permit prior to any work in their right-of-way.
- D. All contractors and subcontractors shall have a set of approved drawings signed by the City Engineer or designee and a printed copy of the current City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements on site at all times.
- E. The City of Arvada Engineering Division shall be notified (Phone # 720-898-7640) a minimum of 24 hours prior to the start of any construction.
- F. The Engineer assumes no responsibility for buried utilities. The Contractor is responsible to verify the location of all utilities prior to construction and to protect them during construction.
- G. The Contractor is responsible for all project safety including, but not limited to, trench excavation and shoring, traffic control and security.
- H. Benchmark location, elevation and datum are as noted on sheet PD-01.
- I. As-built drawings showing all changes from the approved construction drawings shall be submitted to the City Engineer or designee prior to initiation of the required two year warranty period. Utility as-builts shall include stationing of all fittings, services and pertinent elevations. Certificates of Occupancy for any buildings or structures within the development will not be issued until the as-builts have been received, reviewed and approved by the City of Arvada Engineering Division.
- J. A City of Arvada Tax Certification form must be completed by all contractors and subcontractors performing work on this project. This form details all materials which have been included in the work by contractors and subcontractors. Copies of all paid invoices for materials shall be attached to the form. Certificates of Occupancy for any buildings or structures within the development will not be issued until this form has been received, reviewed and approved by the City of Arvada Engineering Division.
- K. All curb ramps shall be constructed as specified on the plans and comply with all ADA standards.
- L. All materials and workmanship shall be subject to inspection by the City of Arvada Engineering Division. The City reserves the right to accept or reject any such materials and workmanship that does not conform to its Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.
- M. A plan for traffic control during construction shall be submitted to the City of Arvada Engineering Division for acceptance with the Public Improvements Permit application. A public improvements construction permit will not be issued without on approved traffic control plan for traffic control on existing roads during construction.
- N. A City of Arvada Site Development Permit must be obtained from the Engineering Division for all projects with a combined land disturbance, including stockpiles and materials storage, of 10,000 square feet or more. For Permit requirements go to <http://arvada.org/services> and click on Building/Development or if you have any questions or are unsure whether the project encompasses 10,000 square feet, call 720-898-7640.

TRAFFIC SIGNALIZATION PLANS
FOR KIPLING PARKWAY / RALSTON ROAD AT ALLENDALE DRIVE
CITY OF ARVADA, COLORADO
PROJECT NO. 20-TC-07

PREPARED BY:

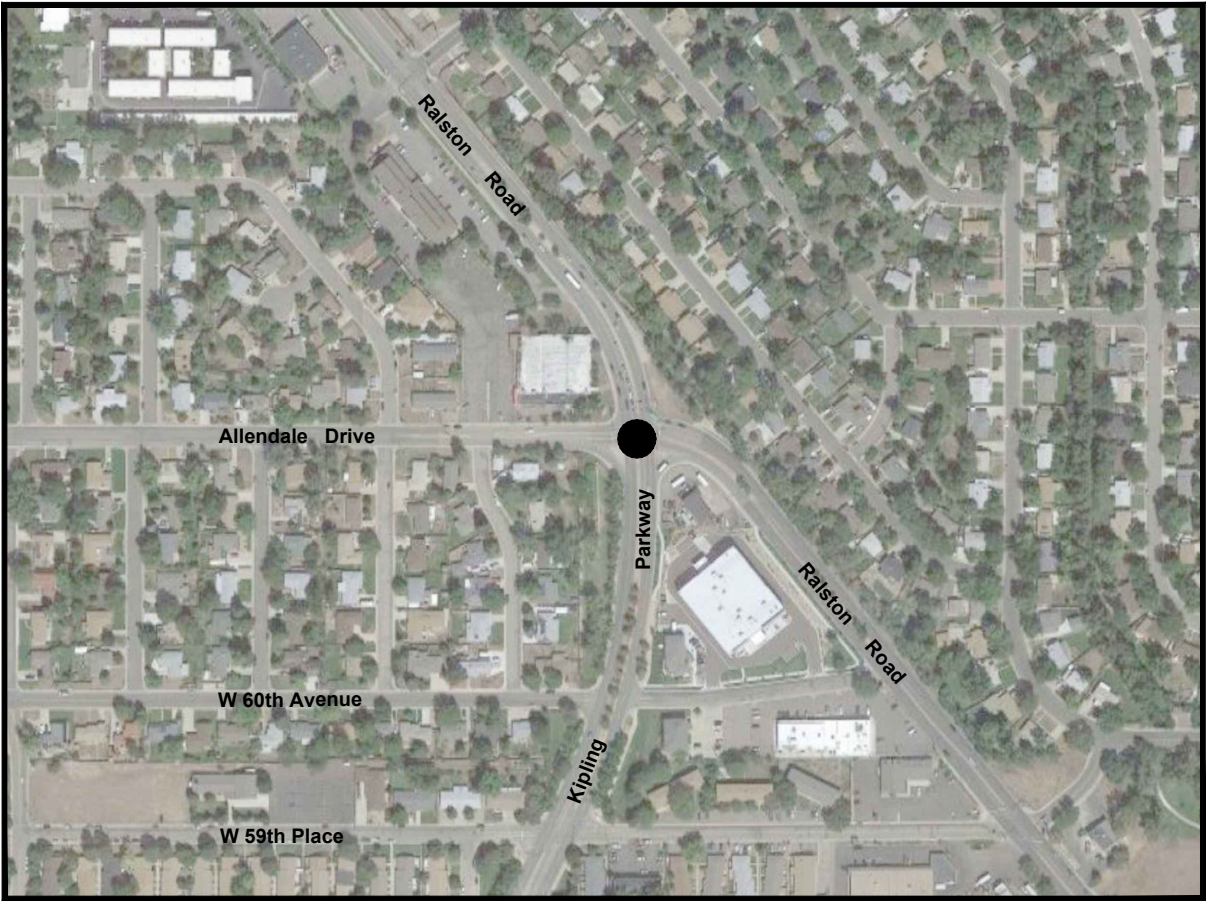
MATRIX DESIGN GROUP
707 17th STREET, SUITE 3150
DENVER, COLORADO 80202
(303) 572-0200

PREPARED FOR:

CITY OF ARVADA
8101 RALSTON ROAD
ARVADA, COLORADO 80002
(720) 898-7740

INDEX OF SHEETS

SHEET	SUBSET	DESCRIPTION
1	TS-01	TITLE SHEET
2-3	GN-01 to GN-02	GENERAL NOTES
4-5	SAQ-01 to SAQ-02	SUMMARY OF APPROXIMATE QUANTITIES
6-7	REM-01 to REM-02	ROADWAY REMOVAL PLANS
8	PLN-01	ROADWAY PLAN
9-11	PD-01 to PD-03	ROADWAY POINT DATA
12	SR-01	TRAFFIC SIGNAL REMOVALS AND RESETS
13-15	SIG-01 to SIG-03	TRAFFIC SIGNAL PLANS
16	DET-01	INTERCONNECT FIBER DETAIL
17-18	SS-01 to SS-02	SIGNING & STRIPING PLAN
19	EC-01	EROSION CONTROL PLAN
20-21	SUE-01 to SUE-02	SUBSURFACE UTILITY ENGINEERING



● = PROJECT LOCATION

VICINITY MAP

NOT TO SCALE

APPROVED
City of Arvada, Colorado

Janey Wolfschlag PE.
CITY ENGINEER

11/1/23
DATE

20-TC-07
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

Print Date: NOVEMBER 2023
File Name: COA_20-TC-07_TS-01.dwg
Horizontal Scale: N/A Vertical Scale: N/A



Sheet Revisions		
Date:	Comments	Init.



KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE TITLE SHEET			Project No./Code 20-TC-07
No Revisions:	Designer: DRK	Structure Numbers	Sheet Number 1
Revised:	Detailer: ACR		
Void:	Subset: TITLE	Sheets: TS-01 of 01	

R: 20.1168.001 (Kipling at Allendale & Ralston at 56th Ave)\\Dwg\\Construction Plans\\Kipling at Allendale - 20-TC-07\\COA_20-TC-07_TS-01.dwg

AD PLANS 11/1/2023

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ROADWAY CONSTRUCTION GENERAL NOTES:

1.
- ALL AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEARED AND GRUBBED. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL AND DISPOSAL OF TRASH, DEBRIS, GRASS, TOPSOIL, SOD, LANDSCAPING, ETC. THAT INTERFERES WITH THE PROJECT CONSTRUCTION.
2.
- ALL REMOVED MATERIAL, INCLUDING BUT NOT LIMITED TO, ASPHALT PAVEMENT, CURB AND GUTTER AND CONCRETE SIDEWALK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE HAULED OFF-SITE AND DISPOSED OF PROPERLY.
3.
- WHERE IT IS REQUIRED TO CUT ANY EXISTING ASPHALT PAVEMENT, CURB AND GUTTER, CONCRETE SIDEWALK, OR ANY OTHER SURFACES, ALL CUTTING SHALL BE BY A SAWCUT MACHINE ONLY. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
4.
- WHERE THE NEW CURB AND GUTTER MATCHES THE EXISTING CURB AND GUTTER, FIELD ADJUST THE CURB AND GUTTER GRADES AS NECESSARY TO PROVIDE POSITIVE DRAINAGE AND TO PROHIBIT PONDING IN THE GUTTER.
5.
- ALL CONCRETE CURB, GUTTER, SIDEWALK AND OTHER FLATWORK WITHIN THE CITY RIGHT OF WAY SHALL BE CDOT CLASS B REINFORCED WITH 1.5 LBS/CY FIBERMESH.
6.
- THE TOP 3-INCH PAVEMENT LIFT SHALL BE STONE MATRIX PAVEMENT (SMA) AND WILL BE COMPLETED AND PAID FOR IN THE MILL AND OVERLAY CONSTRUCTION OPERATION PAID AS SMA. THE LOWER PAVEMENT LIFTS SHALL MATCH EXISTING PAVEMENT DEPTH WITH THE OVERALL DEPTH NOT BEING LESS THAN 6-INCHES. ASPHALT LIFTS ARE NOT TO EXCEED 3-INCHES. THE LOWER LIFTS SHALL BE HOT MIX ASPHALT (GRADING S) (75) (PG64-22) AND PAID FOR AS HOT MIX ASPHALT (PATCHING)(ASPHALT). APPLY TACK COAT TO ALL SAW CUT SURFACES AND BETWEEN LAYERS OF HMA PATCHING. SEE CITY OF ARVADA STANDARD DETAIL ST-13 FOR ADDITIONAL INFORMATION.

CITY OF ARVADA ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS REQUIRED NOTES:

STREET

- A.
- CONTRACTOR SHALL HAVE ON SITE A COPY OF THE CITY OF ARVADA APPROVED SUBGRADE SOILS AND PAVEMENT DESIGN REPORT SHOWING MINIMUM REQUIRED SUBGRADE PREPARATION REQUIREMENTS AND MINIMUM REQUIRED PAVEMENT THICKNESSES.
- B.
- ALL TRENCH BACKFILL AND SUBGRADE PREPARATION SHALL BE TESTED TO ENSURE COMPLIANCE WITH CITY OF ARVADA STANDARDS AND SHALL BE TESTED AT CITY REQUIRED FREQUENCIES BY A CITY APPROVED PRIVATE SOILS TESTING FIRM. TEST RESULTS SHALL BE SUBMITTED TO, REVIEWED, AND APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO INSTALLING BASE COURSE, ASPHALT, OR CONCRETE ON PREPARED SUBGRADE. ALL BASE COURSE DENSITY SHALL ALSO BE TESTED BY THE PRIVATE SOILS FIRM AT CITY REQUIRED FREQUENCIES TO ENSURE COMPLIANCE WITH CITY OF ARVADA REQUIREMENTS. BASE COURSE TEST RESULTS SHALL ALSO BE APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO INSTALLING PAVEMENT. ALL CONCRETE AND ASPHALT PLACED SHALL BE TESTED IN ACCORDANCE WITH CITY OF ARVADA MINIMUM MATERIALS TESTING STANDARDS. TEST RESULTS SHALL BE REVIEWED AND APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO INITIATION OF THE REQUIRED TWO YEAR WARRANTY PERIOD.
- C.
- THE SUBGRADE MATERIAL SHALL BE REMOVED TO A DEPTH REQUIRED BY THE CITY OF ARVADA ACCORDING TO INFORMATION OBTAINED FROM LABORATORY TESTS AND/OR AS REQUIRED IN THE PAVEMENT DESIGN REPORT. ADDITIVES OR APPROVED MATERIAL MAY BE REQUIRED IF THE NATIVE MATERIAL IS UNSATISFACTORY. THE SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY DETERMINED IN ACCORDANCE WITH AASHTO DESIGNATION T180 OR T99 AND IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS SECTION 203.07.
- D.
- THE CONTRACTOR SHALL PROOF ROLL ALL SUBGRADE AND BASE COURSE IN A MANNER ACCEPTABLE TO THE CITY OF ARVADA IN ACCORDANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS". PROOF ROLLING SHALL BE INSPECTED AND ACCEPTED BY THE CITY PRIOR TO INSTALLATION OF PAVEMENT AND/OR CONCRETE FLATWORK.

IRRIGATION

- A.
- CONTRACTOR IS TO NOTIFY AFFECTED IRRIGATION COMPANY A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION IN IRRIGATION EASEMENTS OR ON IRRIGATION DITCHES.
- B.
- ALL IRRIGATION PIPE JOINTS SHALL BE WATERTIGHT AND PASS A LOW AIR PRESSURE TEST.

EROSION CONTROL

- A.
- THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE MET ON SITE AND PROVIDED WITH A STORMWATER MANAGEMENT PLAN AFTER INSTALLATION OF TEMPORARY BEST MANAGEMENT PRACTICES (BMPs), BUT BEFORE CONSTRUCTION OR GRADING BEGINS.
- B.
- THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED IN THE ACCEPTED PLANS.
- C.
- ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC.). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND STORMWATER MANAGEMENT PLAN.
- D.
- AT ALL TIMES DURING CONSTRUCTION, THE DEVELOPER SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFFICIENTLY WATERED SO AS TO MINIMIZE WINDBLOWN SEDIMENT. THE DEVELOPER SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN.
- E.
- PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
- F.
- ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISKING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT EROSION CONTROL BMPs ARE INSTALLED. NO DISTURBED AREAS, EXCEPT THOSE WITHIN THE PROJECT STREET RIGHTS-OF-WAY, SHALL REMAIN EXPOSED FOR MORE THAN THIRTY (30) DAYS BEFORE TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED, UNLESS OTHERWISE APPROVED BY THE CITY OF ARVADA STORMWATER INSPECTOR.
- G.
- IN ORDER TO MINIMIZE EROSION POTENTIAL, ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL:

1.

BE INSPECTED AT A MINIMUM OF ONCE EVERY FOURTEEN (14) DAYS AND AFTER EACH SIGNIFICANT STORM EVENT AND REPAIRED OR RECONSTRUCTED AS NECESSARY IN ORDER TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

2.

REMAIN IN PLACE UNTIL SUCH TIME AS ALL THE SURROUNDING DISTURBED AREAS ARE SUFFICIENTLY STABILIZED. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL

3.

BE REMOVED WHEN THEY ARE NO LONGER FUNCTIONAL OR AFTER THE SITE HAS BEEN SUFFICIENTLY STABILIZED AS DETERMINED BY THE STORMWATER INSPECTOR. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.
- H.
- WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.
- I.
- THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.

- J.
- ALL SOIL STOCKPILES SHALL NOT BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY, WHERE POSSIBLE, AND SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY APPROPRIATE EROSION CONTROL METHODS. ANY SOIL STOCKPILE THAT WILL BE DORMANT FOR OVER THIRTY (30) DAYS SHALL BE SEEDED.
- K.
- THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT AND BEFORE TURNING THE MAINTENANCE OVER TO THE PROPERTY OWNER OR HOMEOWNERS ASSOCIATION (HOA).
- L.
- CITY ORDINANCE REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS,CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY THE DEVELOPER SHALL AT ALL TIMES TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- M.
- A DESIGNATED AREA SHALL BE PROVIDED ON SITE FOR CONCRETE TRUCK CHUTE WASHOUT. THE AREA SHALL BE CONSTRUCTED SO AS TO CONTAIN WASHOUT MATERIAL AND LOCATED AT LEAST FIFTY (50) FEET AWAY FROM ANY WATERWAY DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONCRETE WASHOUT MATERIAL WILL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO THE AREA BEING RESTORED.
- N.
- TO ENSURE THAT SEDIMENT DOES NOT MOVE OFF OF INDIVIDUAL LOTS SEDIMENT/EROSION CONTROL BMPS SHALL BE INSTALLED AND MAINTAINED AT ONE OR MORE OF THE FOLLOWING LOCATIONS UNTIL THE LOTS ARE LANDSCAPED.

1.

BELOW ALL GUTTER DOWNSPOUTS.

2.

OUT TO DRAINAGE SWALES.

3.

ALONG LOT PERIMETER.

4.

OTHER LOCATIONS, IF NEEDED.
- O.
- A VEHICLE TRACKING PAD SHALL BE INSTALLED WHEREVER IT IS NECESSARY FOR CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING UNPAVED AREAS ONTO ROADWAYS. NO EARTHEN MATERIALS, I.E., STONE, DIRT, ETC., SHALL BE PLACED IN THE CURB & GUTTER OR ROADWAY AS A RAMP TO ACCESS TEMPORARY STOCKPILES, CONSTRUCTION MATERIALS AND/OR BUILDING SITES.
- P.
- CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE DEVELOPER SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE CITY OF ARVADA.

APPROVED
City of Arvada, Colorado

Jenny Wolfshley PE.
CITY ENGINEER

11/1/23
DATE

20-TC-07
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

Print Date: NOVEMBER 2023		Sheet Revisions			CITY OF ARVADA	KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE GENERAL NOTES 02			Project No./Code	
File Name: COA_20-TC-07_GN-01.dwg		Date:	Comments	Init.		No Revisions:	Designer: DRK	Structure	20-TC-07	
Horizontal Scale: N/A Vertical Scale: N/A						Revised:	Detailer: ACR	Numbers		
Matrix 707 17th Street, Suite 3150 Denver, CO 80202 303.572.0200 www.matrixdesigngroup.com						Void:	Subset: GENERAL	Sheets: GN-02 of 02	Sheet Number	3

AD PLANS 11/1/2023

R: \\20.1168.001 (Kipling at Allendale & Ralston at 56th Ave)\\Dwg\\Construction Plans\\Kipling at Allendale - 20-TC-07\\COA_20-TC-07_SAQ-01.dwg

SUMMARY OF APPROXIMATE QUANTITIES

PAY ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY	COMMENTS
201-00000	CLEARING AND GRUBBING	LS	1	
202-00190	REMOVAL OF CONCRETE MEDIAN COVER MATERIAL	SY	64	
202-00200	REMOVAL OF SIDEWALK	SY	67	
202-00203	REMOVAL OF CURB AND GUTTER	LF	330	
202-00206	REMOVAL OF CONCRETE CURB RAMP	SY	48	
202-00220	REMOVAL OF ASPHALT MAT	SY	93	
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	SY	6117	
202-00250	REMOVAL OF PAVEMENT MARKING	SF	545	INCLUDES REMOVAL OF CROSSWALK & STOP BAR, SEE SHEET SR-01
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1	SEE NOTE 1 ON SHEET SR-01
202-00840	REMOVAL OF TRAFFIC SIGNAL POLE	EA	3	ABANDON FOUNDATION IN PLACE, SEE NOTE 2 ON SHEET SR-01
203-01598	POTHOLING	EA	5	
208-00007	EROSION CONTROL LOG TYPE 2 (8 INCH)	LF	50	
208-00045	CONCRETE WASHOUT AREA	EA	1	
208-00070	VEHICLE TRACKING PAD	EA	1	
208-00200	EROSION CONTROL MANAGEMENT	LS	1	SEE NOTE 9 ON SHEET EC-01
210-00810	RESET GROUND SIGN	EA	1	NO PARKING SIGN
212-01200	LANDSCAPE RESTORATION	LS	1	INCLUDES REMOVAL, REPLACEMENT AND RELOCATION OF IRRIGATION SYSTEMS
403-00721	HOT MIX ASPHALT (PATCHING) (ASPHALT)	SY	78	SEE ROADWAY CONSTRUCTION GENERAL NOTE 6 ON GN-02
403-09211	STONE MATRIX ASPHALT	TONS	1070	
503-00036	DRILLED SHAFT (36 INCH)	LF	39	SEE CITY STANDARD TS-14 AND TRAFFIC SIGNAL GENERAL NOTE 10
608-00006	CONCRETE SIDEWALK (6 INCH)	SY	35	
608-00010	CONCRETE CURB RAMP	SY	106	
609-21011	CURB AND GUTTER TYPE 2 (SECTION I-M)	LF	185	
609-21020	CURB AND GUTTER TYPE 2 (SECTION II-B)	LF	50	
610-00020	MEDIAN COVER MATERIAL (PATTERNED CONCRETE)	SF	540	
612-00001	TYPE 1 DELINEATOR	EA	4	
613-00200	2 INCH ELECTRICAL CONDUIT	LF	195	
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	520	
613-00300	3 INCH ELECTRICAL CONDUIT	LF	120	
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	520	
613-07026	PULL BOX (TYPE M)(13x24x12)	EA	2	
613-07035	PULL BOX (TYPE LG)(24x36x18)	EA	4	
613-10000	WIRING	LS	1	SEE TRAFFIC SIGNAL GENERAL NOTE 25
613-13004	LUMINAIRE (LED)	EA	4	250W HPS EQUIVILANT; ESTIMATED AS 4,000 LUMEN
613-80130	SERVICE METER CABINET	EA	1	
614-00025	SIGN PANEL (CLASS 1) (INSTALL ONLY)	EA	14	SEE TRAFFIC SIGNAL GENERAL NOTE 27
614-10160	SIGNAL HEAD BACKPLATE	EA	11	
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EA	4	LOUVERED WITH YELLOW REFLECTIVE BORDER, SEE TRAFFIC SIGNAL GENERAL NOTE 11
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	16	
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EA	2	
614-70560	TRAFFIC SIGNAL FACE (12-12-12-12-12)	EA	2	
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EA	1	
614-72862	PEDESTRIAN PUSH BUTTON STATION AND SIGN	EA	4	9" x 12" WITH ACCESSIBLE PEDESTRIAN SIGNAL CAPABILITY
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (CDOT S-614-45)	EA	2	
614-72864	FIRE PREEMPTION UNIT	EA	4	MODEL 764 PHASE SELECTOR AND MODEL 711/722 DETECTOR, SEE TRAFFIC SIGNAL GENERAL NOTE 26
614-72887	MICROWAVE VEHICLE RADAR DETECTOR	EA	6	SEE TRAFFIC SIGNAL GENERAL NOTE 25
614-75840	TRAFFIC SIGNAL CONTROLLER (INSTALL ONLY)	EA	1	
614-81130	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-30 FOOT MAST ARM)	EA	1	
614-81135	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-35 FOOT MAST ARM)	EA	2	
614-86800	UNINTERRUPTED POWER SUPPLY	EA	1	
CONTINUED ON SHEET SAQ-02				

NOTES:

1. ALL PAY ITEMS FOR ELECTRICAL CONDUIT (BORED AND TRENCHED) SHALL BE MEASURED AS FOLLOWS:

A. CENTER OF PULL BOX TO CENTER OF PULL BOX.
B. CENTER OF PULL BOX TO CENTER OF CAISSON.
2. CAISSONS ARE TO BE PROVIDED WITH CONDUIT STUB OUTS AS SPECIFIED ON THE PLANS AND ARE TO BE CONSIDERED AS PART OF THE CAISSON BID ITEM.

APPROVED
City of Arvada, Colorado


JIMMY WOLFCHLEY
CITY ENGINEER

11/1/23
DATE

20-TC-07
JOB NUMBER

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Date:	Comments	Init.

CITY OF
ARVADA

No Revisions:

Revised:

Void:

KIPLING PARKWAY/RALSTON ROAD
AT ALLENDALE DRIVE
SUMMARY OF APPROX. QUANTITIES 01

Designer:	DRK	Structure	
Detailer:	ACR	Numbers	
Subset:	SAQ	Sheets:	SAQ-01 of 02

Project No./Code

20-TC-07

Sheet Number

4

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AD PLANS 11/1/2023

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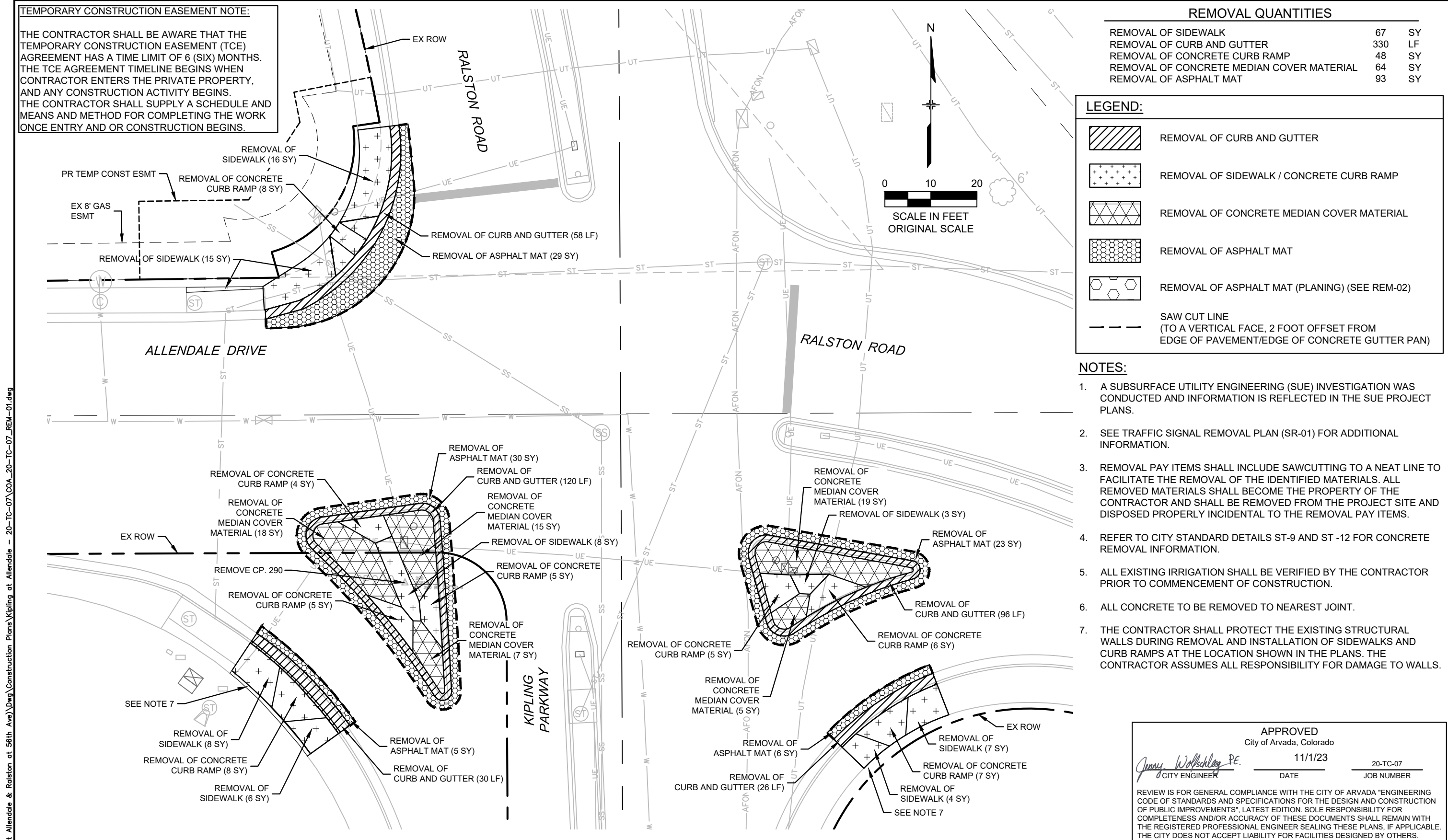


CITY OF
ARVADA

APPROVED		
City of Arvada, Colorado		
 PE.	11/1/23	
_____ CITY ENGINEER	_____ DATE	_____ 20-TC-07 JOB NUMBER

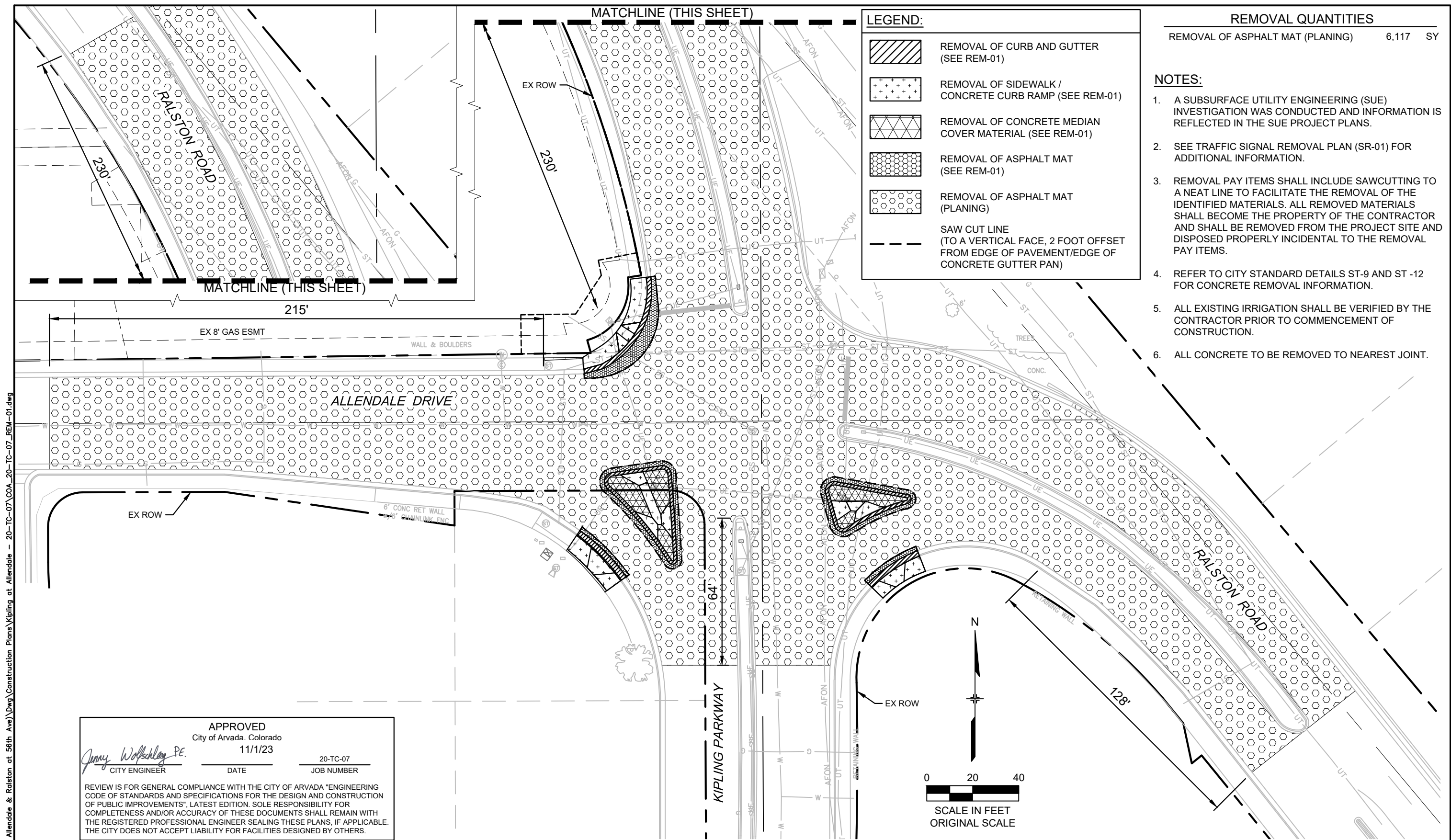
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AD PLANS 11/1/2023



REMOVAL QUANTITIES		
REMOVAL OF ASPHALT MAT (PLANING)	6,117	SY

NOTES:

1. A SUBSURFACE UTILITY ENGINEERING (SUE) INVESTIGATION WAS CONDUCTED AND INFORMATION IS REFLECTED IN THE SUE PROJECT PLANS.
2. SEE TRAFFIC SIGNAL REMOVAL PLAN (SR-01) FOR ADDITIONAL INFORMATION.
3. REMOVAL PAY ITEMS SHALL INCLUDE SAWCUTTING TO A NEAT LINE TO FACILITATE THE REMOVAL OF THE IDENTIFIED MATERIALS. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED PROPERLY INCIDENTAL TO THE REMOVAL PAY ITEMS.
4. REFER TO CITY STANDARD DETAILS ST-9 AND ST -12 FOR CONCRETE REMOVAL INFORMATION.
5. ALL EXISTING IRRIGATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL CONCRETE TO BE REMOVED TO NEAREST JOINT.

APPROVED

City of Arvada, Colorado

11/1/23

20-TC-07

Jenny Wolfshagen PE.

CITY ENGINEER

DATE

JOB NUMBER

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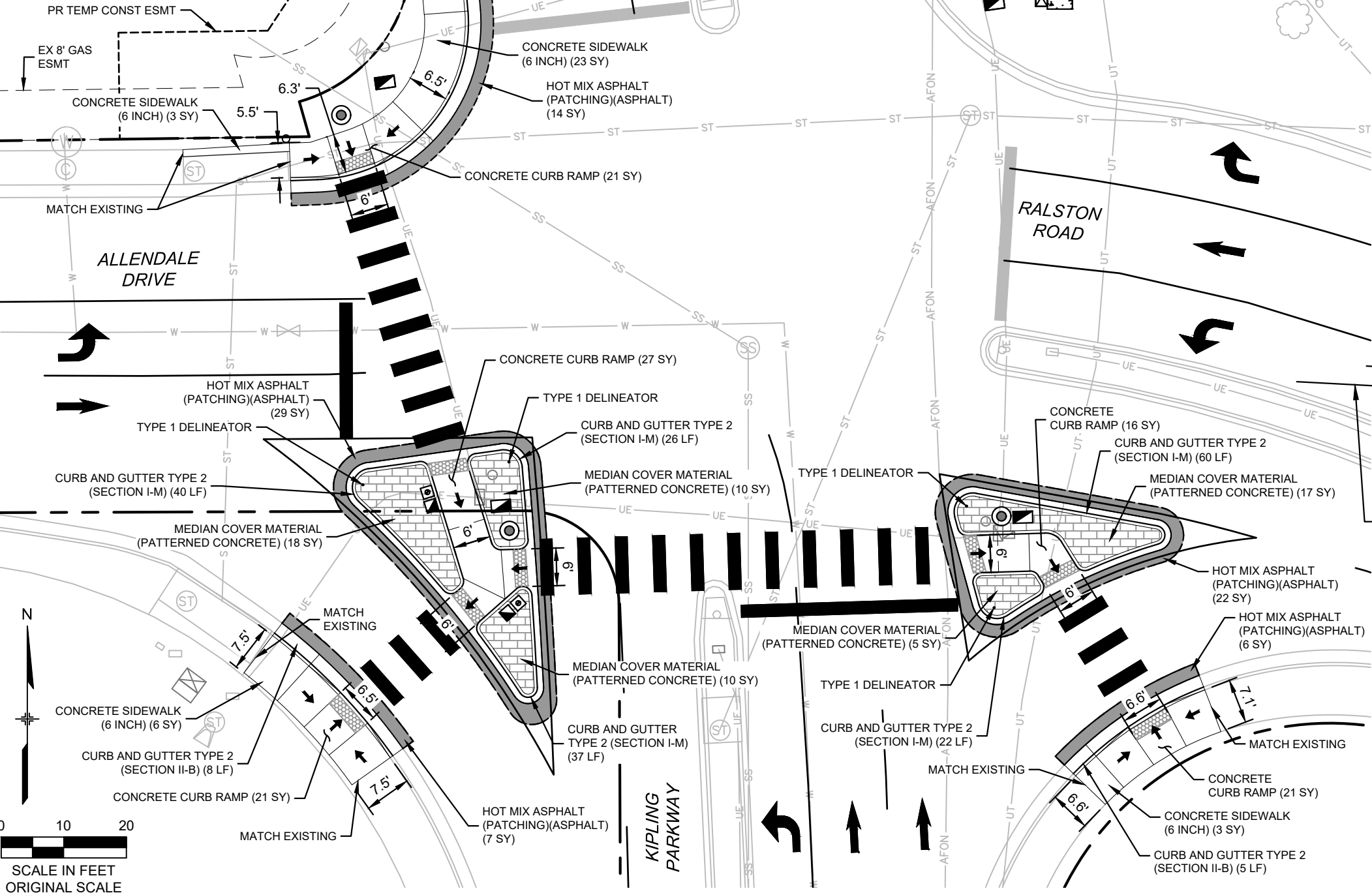
Print Date: NOVEMBER 2023	Sheet Revisions			CITY OF ARVADA	KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE ROADWAY REMOVAL PLAN 02			Project No./Code
File Name: COA_20-TC-07_REM-01.dwg	Date:	Comments	Init.		Designer: DRK	Structure Numbers		20-TC-07
Horizontal Scale: 1" = 50' Vertical Scale: N/A					Detailer: ACR			
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AD PLANS 11/1/2023

TEMPORARY CONSTRUCTION EASEMENT NOTE:

THE CONTRACTOR SHALL BE AWARE THAT THE TEMPORARY CONSTRUCTION EASEMENT (TCE) AGREEMENT HAS A TIME LIMIT OF 6 (SIX) MONTHS. THE TCE AGREEMENT TIMELINE BEGINS WHEN CONTRACTOR ENTERS THE PRIVATE PROPERTY, AND ANY CONSTRUCTION ACTIVITY BEGINS. THE CONTRACTOR SHALL SUPPLY A SCHEDULE AND MEANS AND METHOD FOR COMPLETING THE WORK ONCE ENTRY AND OR CONSTRUCTION BEGINS.

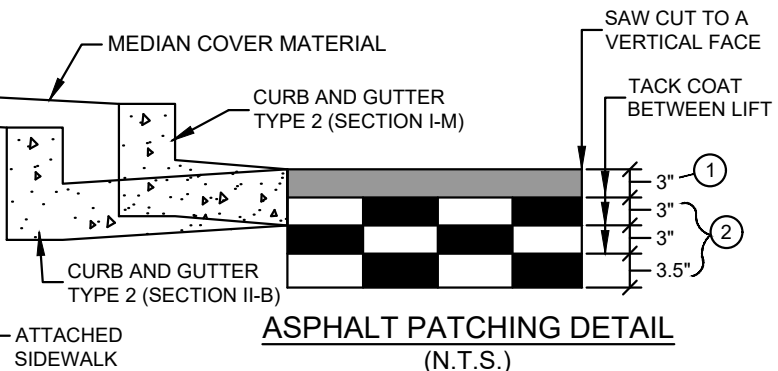


ESTIMATED QUANTITIES

HOT MIX ASPHALT (PATCHING) (ASPHALT)	78	SY
STONE MATRIX ASPHALT	1070	TONS
CONCRETE SIDEWALK (6 INCH)	37	SY
MEDIAN COVER MATERIAL (PATTERNED CONCRETE)	540	SF
CONCRETE CURB RAMP	106	SY
CURB AND GUTTER TYPE 2 (SECTION II-B)	50	LF
CURB AND GUTTER TYPE 2 (SECTION I-M)	185	LF
TYPE 1 DELINEATOR	4	EA

NOTES:

- A SUBSURFACE UTILITY ENGINEERING (SUE) INVESTIGATION WAS CONDUCTED AND INFORMATION IS REFLECTED IN THE PROJECT SUE PLANS.
- THE TOP 3-INCH PAVEMENT LIFT SHALL BE STONE MATRIX PAVEMENT (SMA) AND WILL BE COMPLETED AND PAID FOR IN THE MILL AND OVERLAY CONSTRUCTION OPERATION PAID AS SMA. THE LOWER PAVEMENT LIFTS SHALL MATCH EXISTING PAVEMENT DEPTH WITH THE OVERALL DEPTH NOT BEING LESS THAN 6-INCHES. ASPHALT LIFTS ARE NOT TO EXCEED 3-INCHES. THE LOWER LIFTS SHALL BE HOT MIX ASPHALT (GRADING S) (75) (PG64-22) AND PAID FOR AS HOT MIX ASPHALT (PATCHING)(ASPHALT). APPLY TACK COAT TO ALL SAW CUT SURFACES AND BETWEEN LAYERS OF HMA PATCHING. SEE CITY OF ARVADA STANDARD DETAIL ST-13 FOR ADDITIONAL INFORMATION.
- SEE POINT DATA PLANS (PD-01 TO PD-03) FOR ADDITIONAL INFORMATION.
- REFER TO CITY DETAIL ST-12 FOR CURB AND GUTTER INFORMATION.
- ALL CONCRETE SHALL BE CLASS B IN ACCORDANCE WITH CDOT STANDARDS.



ASPHALT PATCHING DETAIL
(N.T.S.)
SEE GEOTECHNICAL REPORT BY
KUMAR & ASSOCIATES, INC.
DATED 12/18/2020

- ① STONE MATRIX ASPHALT
- ② HOT MIX ASPHALT (PATCHING) (ASPHALT) (GRADING S) (75) (PG 64-22)

APPROVED
City of Arvada, Colorado
Jimmy Wolfshley PE. 11/1/23
CITY ENGINEER DATE
20-TC-07
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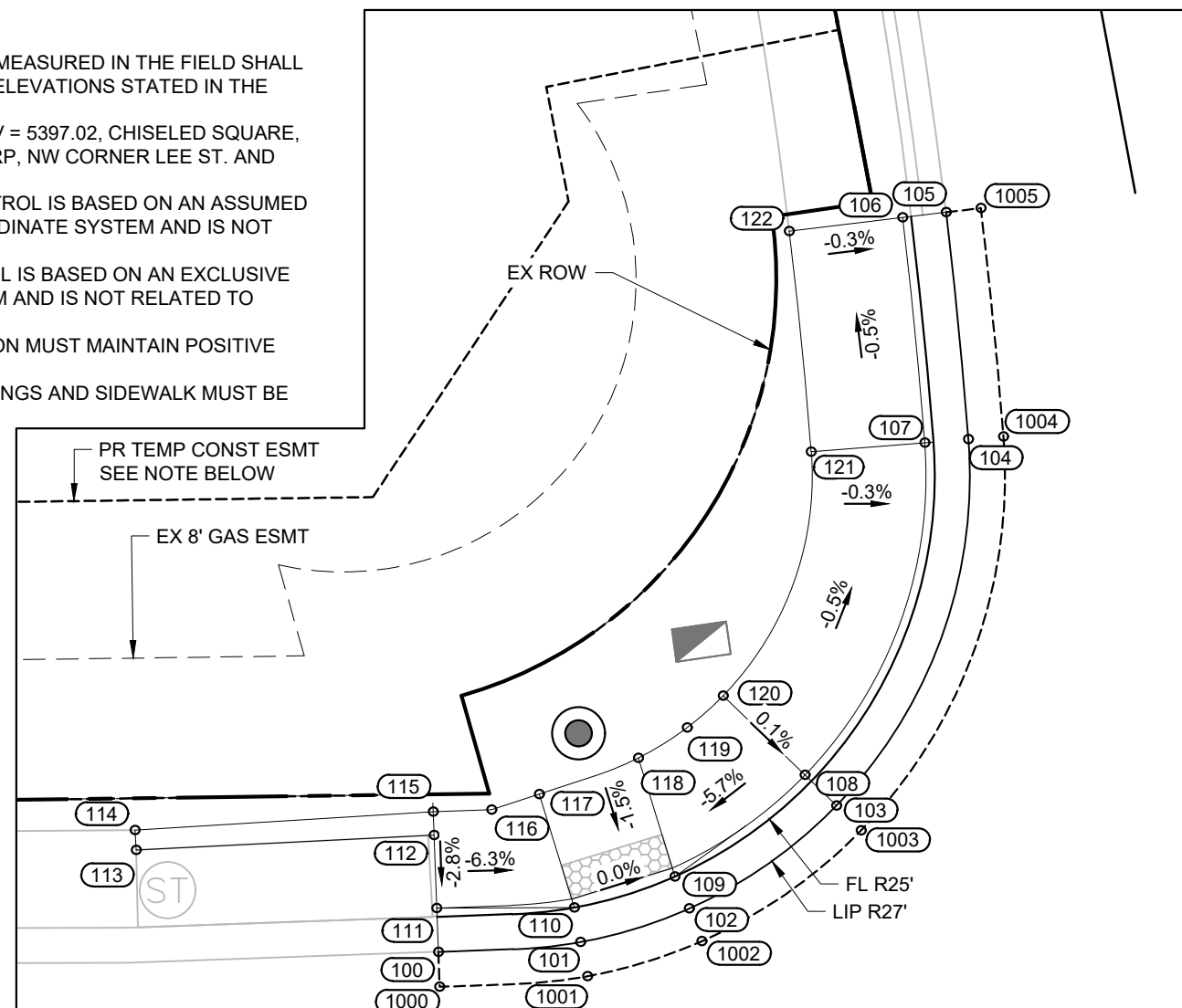


KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE ROADWAY PLAN			Project No./Code 20-TC-07
No Revisions:	Designer: DRK	Structure Numbers	
Revised:	Detailer: ACR		
Void:	Subset: ROADWAY	Sheets: PLN-01 of 01	Sheet Number 8

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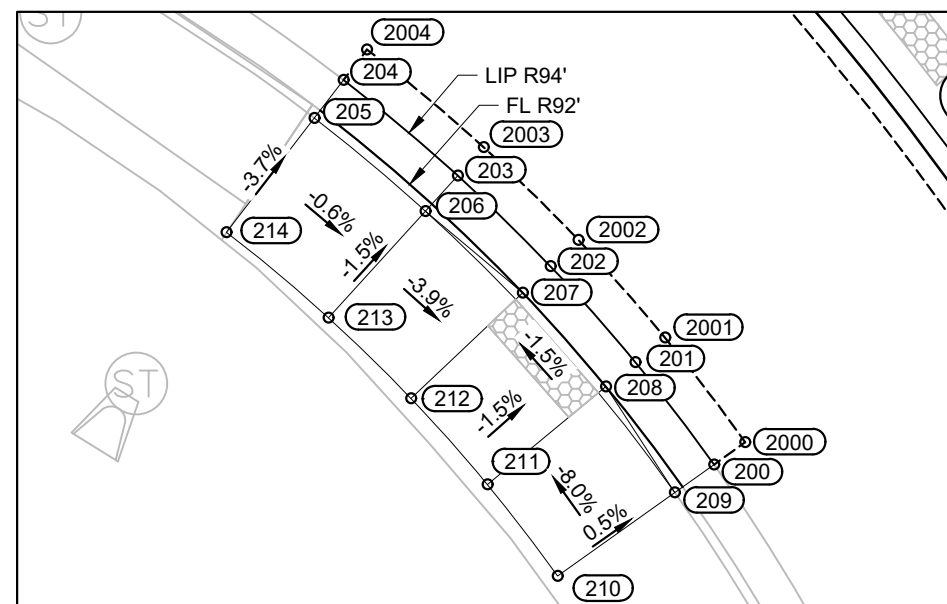
1. EXISTING ELEVATIONS MEASURED IN THE FIELD SHALL SUPERSEDE EXISTING ELEVATIONS STATED IN THE PLANS.
2. BENCHMARK #440, ELEV = 5397.02, CHISELED SQUARE, BACK OF WALK, WEST RP, NW CORNER LEE ST. AND ALLENDALE DR.
3. THE HORIZONTAL CONTROL IS BASED ON AN ASSUMED CITY OF ARVADA COORDINATE SYSTEM AND IS NOT RELATED TO NAD27.
4. THE VERTICAL CONTROL IS BASED ON AN EXCLUSIVE CITY OF ARVADA DATUM AND IS NOT RELATED TO NGVD29 OR NAVD88.
5. ALL NEW CONSTRUCTION MUST MAINTAIN POSITIVE DRAINAGE.
6. ALL NEW RAMPS, LANDINGS AND SIDEWALK MUST BE ADA COMPLIANT.



THE CONTRACTOR SHALL BE AWARE THAT THE TEMPORARY CONSTRUCTION EASEMENT (TCE) AGREEMENT HAS A TIME LIMIT OF 6 (SIX) MONTHS. THE TCE AGREEMENT TIMELINE BEGINS WHEN CONTRACTOR ENTERS THE PRIVATE PROPERTY, AND ANY CONSTRUCTION ACTIVITY BEGINS. THE CONTRACTOR SHALL SUPPLY A SCHEDULE AND MEANS AND METHOD FOR COMPLETING THE WORK ONCE ENTRY AND OR CONSTRUCTION BEGINS.

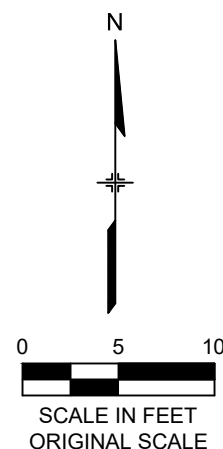
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City of Arvada, Colorado		
 PE.	11/1/23	
CITY ENGINEER	DATE	20-TC-07 JOB NUMBER

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POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
100	2110276.35	719385.19	5380.47	EDGE OF PAVEMENT/LIP OF CURB - MATCH EXISTING
101	2110284.46	719385.76	5380.49	EDGE OF PAVEMENT/LIP OF CURB
102	2110290.65	719387.66	5380.49	EDGE OF PAVEMENT/LIP OF CURB
103	2110299.05	719393.54	5380.53	EDGE OF PAVEMENT/LIP OF CURB
104	2110306.58	719414.43	5380.42	EDGE OF PAVEMENT/LIP OF CURB/PT OF CURB RETURN
105	2110305.30	719427.38	5380.36	EDGE OF PAVEMENT/LIP OF CURB - MATCH EXISTING
106	2110302.82	719427.09	5380.69	BACK OF CURB - MATCH EXISTING
107	2110304.09	719414.24	5380.75	BACK OF CURB/PT OF CURB RETURN
108	2110297.26	719395.28	5380.86	BACK OF CURB
109	2110289.84	719389.49	5380.32	EDGE OF CURB RAMP/FLOWLINE
110	2110284.10	719387.72	5380.32	EDGE OF CURB RAMP/FLOWLINE
111	2110276.26	719387.69	5380.80	BACK OF CURB - MATCH EXISTING
112	2110276.11	719391.85	5380.93	SIDEWALK - MATCH EXISTING
113	2110259.12	719391.00	5381.37	SIDEWALK - MATCH EXISTING
114	2110259.05	719392.14	5381.42	BACK OF SIDEWALK - MATCH EXISTING
115	2110276.06	719393.19	5380.93	BACK OF SIDEWALK - MATCH EXISTING
116	2110279.39	719393.30	5380.66	BACK OF SIDEWALK
117	2110282.11	719394.19	5380.42	BACK CORNER OF CURB RAMP
118	2110287.76	719396.25	5380.43	BACK CORNER OF CURB RAMP
119	2110290.53	719397.98	5380.66	BACK OF SIDEWALK
120	2110292.59	719399.80	5380.85	BACK OF SIDEWALK
121	2110297.61	719413.73	5380.77	BACK OF SIDEWALK - PT
122	2110296.36	719426.31	5380.71	BACK OF SIDEWALK - MATCH EXISTING
1000	2110276.42	719383.19	5380.67	SAW CUT LINE
1001	2110284.86	719383.80	5380.68	SAW CUT LINE
1002	2110291.38	719385.80	5380.63	SAW CUT LINE
1003	2110300.46	719392.11	5380.64	SAW CUT LINE
1004	2110308.57	719414.59	5380.51	SAW CUT LINE
1005	2110307.28	719427.62	5380.41	SAW CUT LINE

POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
200	2110294.21	719296.50	5380.55	EDGE OF PAVEMENT/LIP OF CURB - MATCH EXISTING
201	2110290.12	719301.84	5380.45	EDGE OF PAVEMENT/LIP OF CURB
202	2110285.69	719306.83	5380.35	EDGE OF PAVEMENT/LIP OF CURB
203	2110280.87	719311.54	5380.10	EDGE OF PAVEMENT/LIP OF CURB
204	2110274.92	719316.52	5379.81	EDGE OF PAVEMENT/LIP OF CURB - MATCH EXISTING
205	2110273.40	719314.54	5380.39	BACK OF CURB - MATCH EXISTING
206	2110279.19	719309.69	5380.43	BACK OF CURB
207	2110284.25	719305.45	5380.18	EDGE OF CURB RAMP - FLOWLINE
208	2110288.58	719300.56	5380.28	EDGE OF CURB RAMP - FLOWLINE
209	2110292.17	719295.05	5380.88	BACK OF CURB - MATCH EXISTING
210	2110286.06	719290.71	5380.84	BACK OF SIDEWALK - MATCH EXISTING
211	2110282.41	719295.47	5380.40	BACK CORNER OF CURB RAMP - MATCH EXISTING
212	2110278.43	719299.95	5380.30	BACK CORNER OF CURB RAMP - MATCH EXISTING
213	2110274.14	719304.14	5380.54	BACK OF SIDEWALK - MATCH EXISTING
214	2110268.83	719308.59	5380.67	BACK OF SIDEWALK - MATCH EXISTING
2000	2110295.84	719297.66	5380.51	SAW CUT LINE
2001	2110291.66	719303.11	5380.43	SAW CUT LINE
2002	2110287.15	719308.19	5380.35	SAW CUT LINE
2003	2110282.22	719313.02	5380.25	SAW CUT LINE
2004	2110276.14	719318.10	5380.12	SAW CUT LINE



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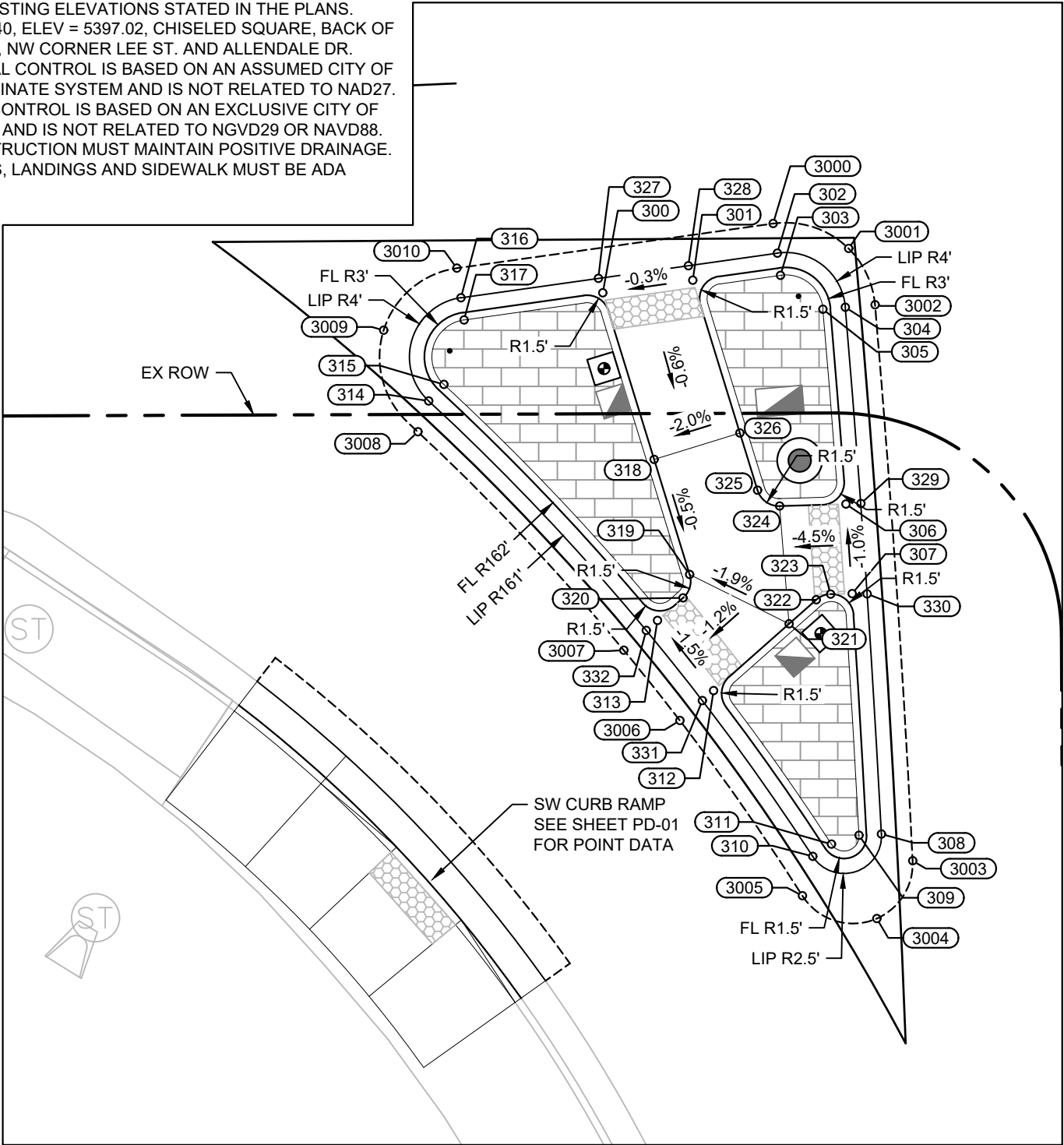
Sheet Revisions		
Date:	Comments	Init.



	KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE ROADWAY POINT DATA 01			Project No./Code
No Revisions:				20-TC-07
Revised:	Designer: DRK	Structure		
	Detailer: ACR	Numbers		
Void:	Subset: ROADWAY	Sheets: PD-01 of 03		Sheet Number 9

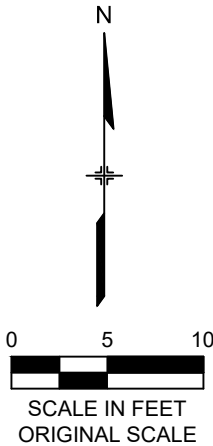
NOTES:

- 1. EXISTING ELEVATIONS MEASURED IN THE FIELD SHALL SUPERSEDE EXISTING ELEVATIONS STATED IN THE PLANS.
- 2. BENCHMARK #440, ELEV = 5397.02, CHISELED SQUARE, BACK OF WALK, WEST RP, NW CORNER LEE ST. AND ALLENDALE DR.
- 3. THE HORIZONTAL CONTROL IS BASED ON AN ASSUMED CITY OF ARVADA COORDINATE SYSTEM AND IS NOT RELATED TO NAD27.
- 4. THE VERTICAL CONTROL IS BASED ON AN EXCLUSIVE CITY OF ARVADA DATUM AND IS NOT RELATED TO NGVD29 OR NAVD88.
- 5. ALL NEW CONSTRUCTION MUST MAINTAIN POSITIVE DRAINAGE.
- 6. ALL NEW RAMPS, LANDINGS AND SIDEWALK MUST BE ADA COMPLIANT.



SW PEDESTRIAN ISLAND

POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
300	2110298.04	719342.50	5381.21	EDGE OF CURB RAMP - FLOWLINE
301	2110304.05	719343.35	5381.23	EDGE OF CURB RAMP - FLOWLINE
302	2110309.70	719345.16	5381.21	PC OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
303	2110309.91	719343.67	5381.79	PC OF CURB RETURN - BACK OF CURB
304	2110314.25	719341.54	5381.33	PT OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
305	2110312.75	719341.41	5381.91	PT OF CURB RETURN - BACK OF CURB
306	2110314.29	719328.38	5381.54	EDGE OF CURB RAMP - FLOWLINE
307	2110314.71	719322.39	5381.60	EDGE OF CURB RAMP - FLOWLINE
308	2110316.66	719306.31	5381.55	PC OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
309	2110315.16	719306.23	5382.13	PC OF CURB RETURN - BACK OF CURB
310	2110312.07	719304.82	5381.25	PT OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
311	2110313.33	719305.64	5381.83	PT OF CURB RETURN - BACK OF CURB
312	2110305.44	719315.90	5381.15	EDGE OF CURB RAMP - FLOWLINE
313	2110301.69	719320.59	5381.06	EDGE OF CURB RAMP - FLOWLINE
314	2110286.39	719335.28	5380.83	PC OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
315	2110287.41	719336.38	5381.41	PC OF CURB RETURN - BACK OF CURB
316	2110288.55	719342.17	5381.00	PT OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
317	2110288.76	719340.69	5381.59	PT OF CURB RETURN - BACK OF CURB
318	2110301.47	719331.36	5381.14	CORNER OF ISLAND LANDING
319	2110303.84	719323.67	5381.10	CORNER OF ISLAND LANDING - PC OF ISLAND CURB
320	2110303.40	719322.11	5381.08	PT OF ISLAND CURB
321	2110310.49	719320.37	5381.23	CORNER OF ISLAND LANDING
322	2110312.31	719321.98	5381.41	PC OF ISLAND CURB
323	2110313.27	719322.36	5381.49	PT OF ISLAND CURB
324	2110309.86	719328.25	5381.42	CORNER OF ISLAND LANDING - PC OF ISLAND CURB
325	2110308.38	719329.30	5381.37	PT OF ISLAND CURB
326	2110307.20	719333.13	5381.26	CORNER OF ISLAND LANDING
327	2110297.74	719343.47	5381.12	EDGE OF PAVEMENT/LIP OF GUTTER
328	2110303.75	719344.32	5381.15	EDGE OF PAVEMENT/LIP OF GUTTER
329	2110315.29	719328.41	5381.45	EDGE OF PAVEMENT/LIP OF GUTTER
330	2110315.71	719322.37	5381.52	EDGE OF PAVEMENT/LIP OF GUTTER
331	2110304.69	719315.24	5381.07	EDGE OF PAVEMENT/LIP OF GUTTER
332	2110300.94	719319.93	5380.98	EDGE OF PAVEMENT/LIP OF GUTTER
3000	2110309.42	719347.14	5381.19	SAW CUT LINE
3001	2110314.47	719345.47	5381.25	SAW CUT LINE
3002	2110316.24	719341.71	5381.31	SAW CUT LINE
3003	2110318.76	719304.53	5381.53	SAW CUT LINE
3004	2110316.36	719300.66	5381.41	SAW CUT LINE
3005	2110311.38	719302.19	5381.25	SAW CUT LINE
3006	2110303.19	719313.91	5381.05	SAW CUT LINE
3007	2110299.44	719318.61	5380.96	SAW CUT LINE
3008	2110285.67	719333.22	5380.80	SAW CUT LINE
3009	2110283.38	719340.00	5380.90	SAW CUT LINE
3010	2110288.27	719344.15	5380.98	SAW CUT LINE



APPROVED
City of Arvada, Colorado
Jenny Wolfshay PE.
CITY ENGINEER

11/1/23
DATE

20-TC-07
JOB NUMBER

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File Name: COA_20-TC-07_PD-01.dwg

Horizontal Scale: 1" = 10' Vertical Scale: N/A

Matrix

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Denver, CO 80202
303.572.0200
www.matrixdesigngroup.com

Sheet Revisions

Date:	Comments	Init.

CITY OF
ARVADA

No Revisions:

Revised:

Void:

Designer: DRK

Detailer: ACR

Subset: ROADWAY

Structure Numbers

Sheets: PD-02 of 03

Project No./Code

20-TC-07

Sheet Number 10

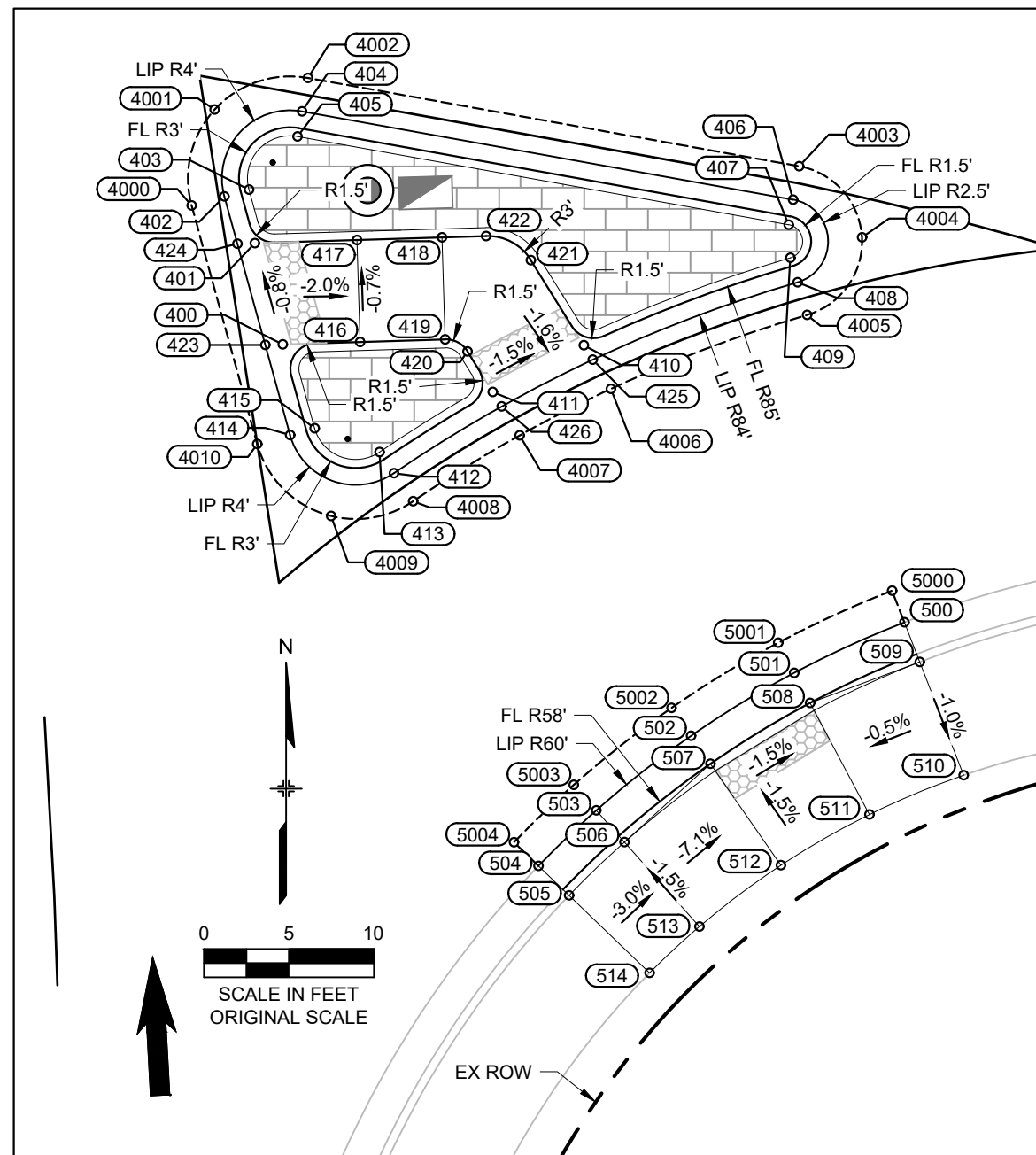
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AD PLANS 11/1/2023

SE PEDESTRIAN ISLAND

POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
400	2110384.77	719324.54	5382.64	EDGE OF CURB RAMP - FLOWLINE
401	2110383.13	719330.49	5382.59	EDGE OF CURB RAMP - FLOWLINE
402	2110381.34	719333.23	5382.48	PC OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
403	2110382.78	719333.63	5383.07	PC OF CURB RETURN - BACK OF CURB
404	2110385.90	719338.23	5382.39	PT OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
405	2110385.64	719336.76	5382.97	PC OF CURB RETURN - BACK OF CURB
406	2110414.79	719333.05	5382.15	PC OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
407	2110414.52	719331.57	5382.73	PC OF CURB RETURN - BACK OF CURB
408	2110415.05	719328.19	5382.01	PRC OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
409	2110414.62	719329.62	5382.59	PRC OF CURB RETURN - BACK OF CURB

POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
410	2110402.47	719324.49	5382.24	EDGE OF CURB RAMP - FLOWLINE
411	2110397.12	719321.74	5382.33	EDGE OF CURB RAMP - FLOWLINE
412	2110391.31	719316.96	5382.38	PRC OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
413	2110390.46	719318.20	5382.97	PRC OF CURB RETURN - BACK OF CURB
414	2110385.20	719319.21	5382.54	PT OF CURB RETURN - EDGE OF PAVEMENT/LIP OF CURB
415	2110386.65	719319.61	5383.12	PC OF CURB RETURN - BACK OF CURB
416	2110389.32	719324.67	5382.54	CORNER OF ISLAND LANDING
417	2110389.13	719330.67	5382.50	CORNER OF ISLAND LANDING
418	2110394.13	719330.82	5382.42	CORNER OF ISLAND LANDING
419	2110394.32	719324.83	5382.43	CORNER OF ISLAND LANDING - PC OF ISLAND CURB
420	2110395.64	719324.12	5382.39	PT OF ISLAND CURB
421	2110399.36	719329.49	5382.33	PC OF ISLAND CURB
422	2110396.72	719330.90	5382.38	PT OF ISLAND CURB
423	2110383.74	719324.50	5382.55	EDGE OF PAVEMENT/LIP OF GUTTER
424	2110382.10	719330.46	5382.51	EDGE OF PAVEMENT/LIP OF GUTTER
425	2110403.00	719323.63	5382.16	EDGE OF PAVEMENT/LIP OF GUTTER
426	2110397.65	719320.89	5382.25	EDGE OF PAVEMENT/LIP OF GUTTER
4000	2110379.41	719332.70	5382.46	SAW CUT LINE
4001	2110380.76	719338.34	5382.35	SAW CUT LINE
4002	2110386.26	719340.20	5382.37	SAW CUT LINE
4003	2110415.14	719335.01	5382.13	SAW CUT LINE
4004	2110418.84	719330.83	5382.02	SAW CUT LINE
4005	2110415.61	719326.27	5381.99	SAW CUT LINE
4006	2110404.07	719321.92	5382.13	SAW CUT LINE
4007	2110398.70	719319.19	5382.23	SAW CUT LINE
4008	2110392.44	719315.31	5382.36	SAW CUT LINE
4009	2110387.61	719314.45	5382.41	SAW CUT LINE
4010	2110383.27	719318.68	5382.52	SAW CUT LINE



NOTES:

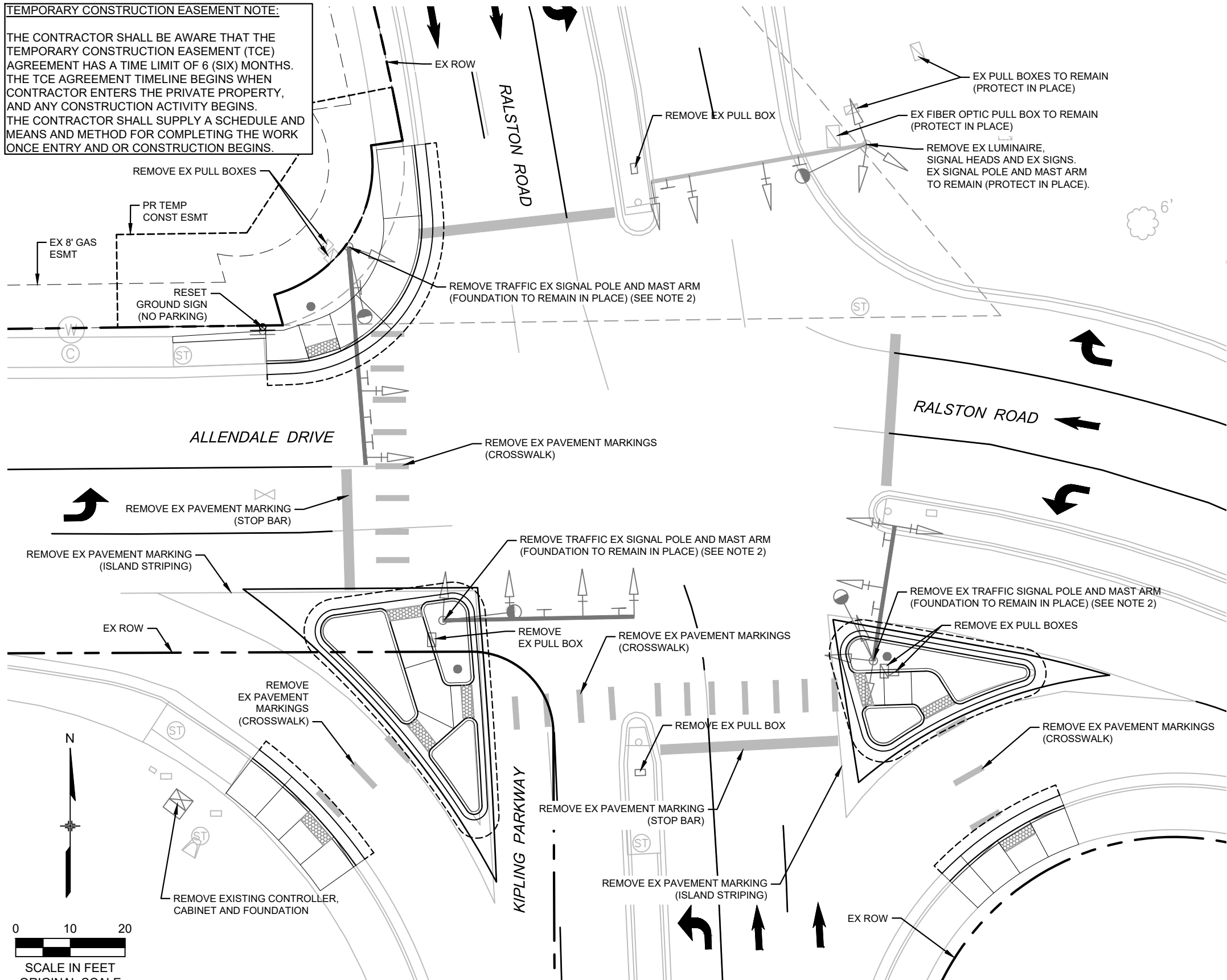
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POINT #	EASTING	NORTHING	ELEVATION	DESCRIPTION
500	2110421.33	719308.19	5381.81	EDGE OF PAVEMENT/LIP OF CURB - MATCH EXISTING
501	2110414.85	719305.23	5382.19	EDGE OF PAVEMENT/LIP OF CURB
502	2110408.78	719301.52	5382.29	EDGE OF PAVEMENT/LIP OF CURB
503	2110403.21	719297.14	5382.25	EDGE OF PAVEMENT/LIP OF CURB
504	2110399.81	719293.88	5382.52	EDGE OF PAVEMENT/LIP OF CURB - MATCH EXISTING
505	2110401.61	719292.14	5382.85	BACK OF CURB - MATCH EXISTING
506	2110404.87	719295.27	5382.58	BACK OF CURB
507	2110409.92	719299.88	5382.12	EDGE OF CURB RAMP - FLOWLINE
508	2110415.78	719303.46	5382.02	EDGE OF CURB RAMP - FLOWLINE
509	2110422.23	719305.86	5382.14	BACK OF CURB - MATCH EXISTING
510	2110424.81	719299.21	5382.07	BACK OF SIDEWALK - MATCH EXISTING
511	2110419.28	719296.90	5382.13	BACK CORNER OF CURB RAMP - MATCH EXISTING
512	2110414.07	719293.91	5382.23	BACK CORNER OF CURB RAMP - MATCH EXISTING
513	2110409.27	719290.31	5382.68	BACK OF SIDEWALK - MATCH EXISTING
514	2110406.35	719287.58	5382.68	BACK OF SIDEWALK - MATCH EXISTING
5000	2110420.60	719310.06	5381.63	SAW CUT LINE
5001	2110413.91	719306.99	5381.78	SAW CUT LINE
5002	2110407.64	719303.17	5382.03	SAW CUT LINE
5003	2110401.88	719298.64	5382.16	SAW CUT LINE
5004	2110398.37	719295.26	5382.24	SAW CUT LINE

APPROVED		
City of Arvada, Colorado		
 CITY ENGINEER	11/1/23 _____ DATE	20-TC-07 _____ JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

TEMPORARY CONSTRUCTION EASEMENT NOTE:
THE CONTRACTOR SHALL BE AWARE THAT THE TEMPORARY CONSTRUCTION EASEMENT (TCE) AGREEMENT HAS A TIME LIMIT OF 6 (SIX) MONTHS. THE TCE AGREEMENT TIMELINE BEGINS WHEN CONTRACTOR ENTERS THE PRIVATE PROPERTY, AND ANY CONSTRUCTION ACTIVITY BEGINS. THE CONTRACTOR SHALL SUPPLY A SCHEDULE AND MEANS AND METHOD FOR COMPLETING THE WORK ONCE ENTRY AND OR CONSTRUCTION BEGINS.



LEGEND

SYMBOL	DESCRIPTION
	EX TRAFFIC SIGNAL POLE WITH MAST ARM
	EX TRAFFIC SIGNAL HEAD WITH BACKPLATE
	EX TRAFFIC SIGNAL HEAD
	EX MAST ARM OR POLE MOUNTED SIGN
	EX LUMINAIRE - LED (250 WATT HPS EQUIVALENT)
	EX SIGNAL CONTROLLER CABINET
	EX TRAFFIC SIGNAL PULL BOX

REMOVAL ITEMS

TRAFFIC SIGNAL POLE	3	EA
TRAFFIC SIGNAL HEAD	19	EA
PEDESTRIAN SIGNAL HEAD	4	EA
PEDESTRIAN PUSH BUTTON	4	EA
STREET NAME SIGN	10	EA
TRAFFIC CONTROL SIGN	5	EA
PULL BOX	7	EA
CONTROLLER, CABINET, FOUNDATION	1	EA

ITEMS TO BE RESET

RESET GROUND SIGN	1	EA
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NOTES:

- INDIVIDUAL REMOVAL ITEMS ARE FOR INFORMATION ONLY. REMOVAL ITEMS SHALL BE PAID FOR AS REMOVAL OF TRAFFIC SIGNAL EQUIPMENT, LUMP SUM. ALL REMOVED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE EXISTING PULL BOXES, CONDUITS, CAISSONS AND ANCHOR BOLTS TO TWO FEET BELOW THE GROUND SURFACE AND SHALL REMOVE ELECTRICAL CABLE FROM ABANDONED CONDUIT.
- REMOVAL OF TRAFFIC SIGNAL EQUIPMENT, LUMP SUM, SHALL INCLUDE REPLACEMENT, PATCHING, ETC. OF CONCRETE SIDEWALK, ASPHALT PAVEMENT, LANDSCAPE MATERIAL, OR MEDIAN COVER MATERIAL AS DIRECTED BY THE CITY.

APPROVED
City of Arvada Colorado
11/1/23
20-TC-07
JOB NUMBER

Jenny Wolfshley PE.
CITY ENGINEER

DATE

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Print Date: NOVEMBER 2023
File Name: COA_20-TC-07_SR-01.dwg
Horizontal Scale: 1" = 20' Vertical Scale: N/A

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Sheet Revisions		
Date:	Comments	Init.

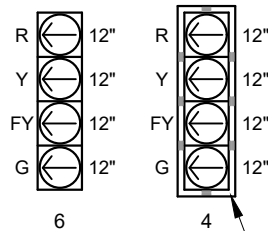
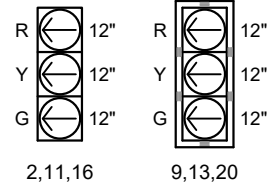
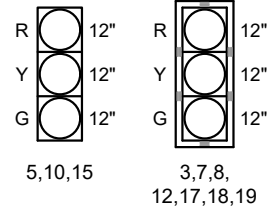


KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE TRAFFIC SIGNAL REMOVALS AND RESETS			Project No./Code 20-TC-07
No Revisions:	Designer: DRK	Structure Numbers	Sheet Number 12
Revised:	Detailer: ACR		
Void:	Subset: TRAFFIC	Sheets: SR-01 of 01	

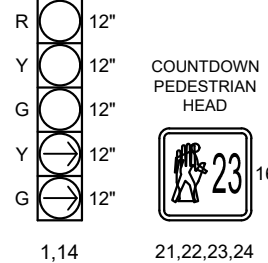
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PROPOSED SIGNAL HEADS

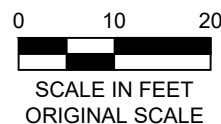


LOUVERED BACKPLATE WITH YELLOW REFLECTIVE BORDER TAPE (TYP)



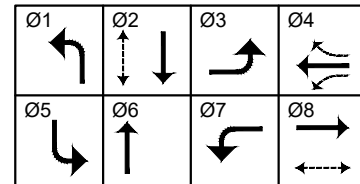
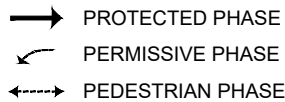
R10-3
9"x12"
A, B, C, D
2 - LEFT ARROW
2 - RIGHT ARROW

PEDESTRIAN PUSH BUTTON STATION

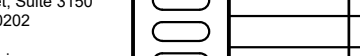
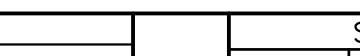
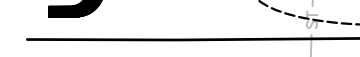
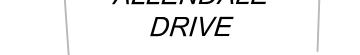
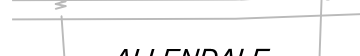
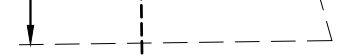
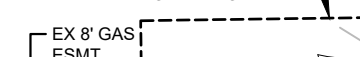


LANE USE ARROWS ARE SHOWN FOR INFORMATION ONLY

SIGNAL PHASING DIAGRAM



PR TEMP CONST ESMT
SEE NOTE BELOW



TEMPORARY CONSTRUCTION EASEMENT NOTE:
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LEGEND

SYMBOL	DESCRIPTION
	TRAFFIC SIGNAL POLE WITH MAST ARM
	PEDESTRIAN PUSH BUTTON POST ASSEMBLY CDOT STANDARD S-614-45
	TRAFFIC SIGNAL HEAD WITH BACKPLATE
	TRAFFIC SIGNAL HEAD
	PEDESTRIAN SIGNAL HEAD
	PEDESTRIAN PUSH BUTTON AND SIGN
	TRAFFIC SIGNAL CONTROLLER CABINET
	PULL BOX - TYPE LG (24"x36"x18")
	PULL BOX - TYPE M (13"x24"x12")
	SERVICE METER CABINET
	CONDUIT - PVC SCHEDULE 80 (TR= TRENCHED, BR= BORED)
	MAST ARM OR POLE MOUNTED SIGN
	LUMINAIRE - LED (250 WATT HPS EQUIVALENT)
	FIRE PREEMPTION UNIT
	MICROWAVE VEHICLE RADAR DETECTOR
	CLOSED CIRCUIT TV CAMERA
	DETECTION ZONE WITH PHASE NUMBER
	EXISTING SIGNAL CONTROLLER CABINET
	EXISTING TRAFFIC SIGNAL PULL BOX

NOTES:

- ANY PULL BOX LOCATED WITHIN THE SIDEWALK SHALL BE INSTALLED WITH THE PULL BOX LID ADJUSTED TO SIDEWALK FINAL GRADE. PULL BOX LID SHALL BE PEDESTRIAN GRADE WHEN INSTALLED WITHIN SIDEWALK.
- DESIGN CRITERIA: 2015 AASHTO "LRFD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, FIRST EDITION." INCLUDING ALL SUBSEQUENT REVISIONS.

APPROVED
City of Arvada, Colorado
11/1/23
20-TC-07
JOB NUMBER

Jenny Wolfshlag PE.
CITY ENGINEER

DATE

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

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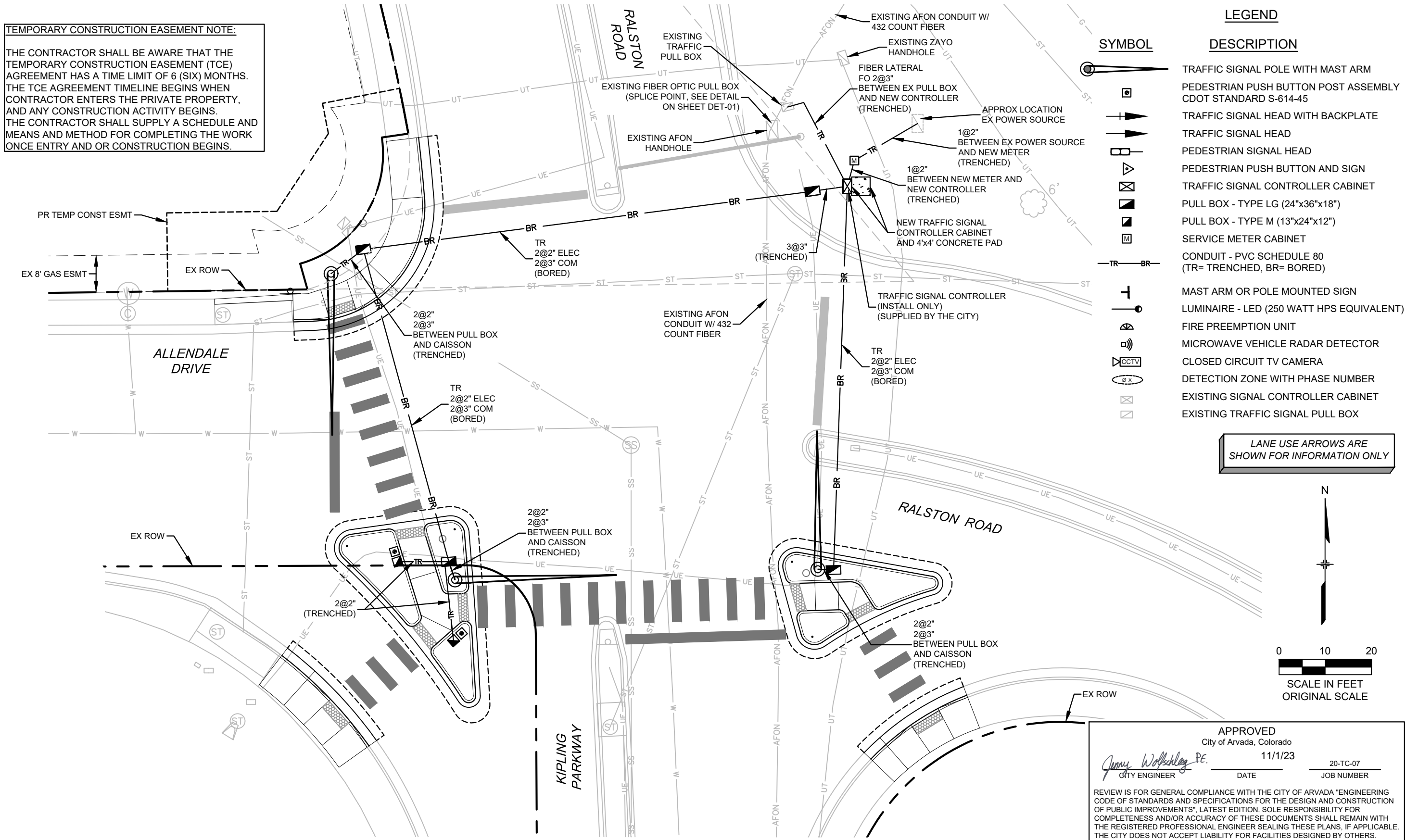
Sheet Revisions		
Date:	Comments	Init.



KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE TRAFFIC SIGNAL PLAN 01			Project No./Code 20-TC-07
No Revisions:	Designer: DRK	Structure Numbers	Sheet Number 13
Revised:	Detailer: ACR	Sheets: SIG-01 of 03	
Void:	Subset: SIGNAL		

AD PLANS 11/1/2023

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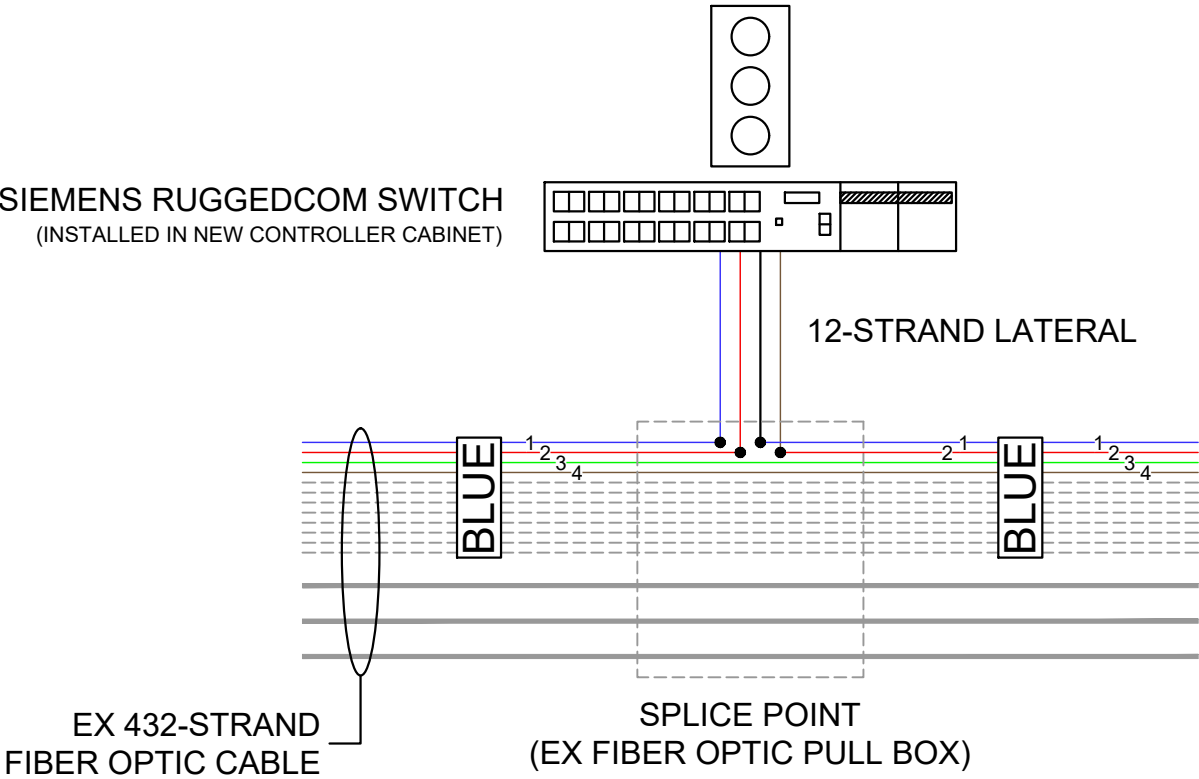
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No Revisions:	Designer: DRK	Structure Numbers	Sheet Number 14	
Revised:	Detailer: ACR			
Void:	Subset: SIGNAL	Sheets: SIG-02 of 03		

APPROVED
City of Arvada, Colorado
11/1/23
Jenny Wolfshley PE. CITY ENGINEER
DATE
20-TC-07
JOB NUMBER

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AD PLANS 11/1/2023

INTERCONNECT FIBER DETAIL
RALSTON RD. / KIPLING BLVD. / ALLENDALE DR.



- NOTES:
- 1. THE CONTRACTOR SHALL CONTACT THE CITY OF ARVADA PROJECT ENGINEER IN ORDER TO SCHEDULE A FIBER SPLICING PRECONSTRUCTION MEETING AT LEAST 30 CALENDAR DAYS PRIOR TO SPLICING.
 - 2. THE CONTRACTOR SHALL SPLICED THE FIBER OPTIC CABLE ONLY AT APPROVED SPLICE LOCATIONS AS SHOWN ON THE PLANS. ALL FIBER SHALL BE TAGGED PER CITY OF ARVADA STANDARDS. THE COST OF SPLICE CLOSURES, SPLICING, AND FIBER IDENTIFICATION SHALL BE INCLUDED IN ITEM "FIBER OPTIC CABLE (SINGLE MODE)(12 FIBER)".
 - 3. FIBER TESTING CANNOT COMMENCE UNTIL ALL FIBER WORK IS COMPLETE. ALL OTHER FIBER TESTING WILL BE COMPLETED BY THE CONTRACTOR. FIBER ACCEPTANCE TEST RESULTS SHALL BE PROVIDED IN PAPER AND ELECTRONIC FORMATS UPON COMPLETION. THE CONTRACTOR SHALL PROVIDE ANY SOFTWARE NECESSARY TO VIEW ELECTRONIC TESTS RESULTS. THIS SHALL BE INCLUDED IN THE COST OF "TEST FIBER OPTIC CABLE".
 - 4. THE CONTRACTOR SHALL COIL 50 FEET FOR EACH FIBER CABLE IN PULL BOXES THAT ARE DESIGNATED SPLICE LOCATIONS, AND 25 FEET IN ALL OTHER EXISTING PULL BOXES.
 - 5. A CITY OF ARVADA REPRESENTATIVE SHALL BE PRESENT DURING SPLICING AT THE FIBER OPTIC BACKBONE.

APPROVED
City of Arvada, Colorado

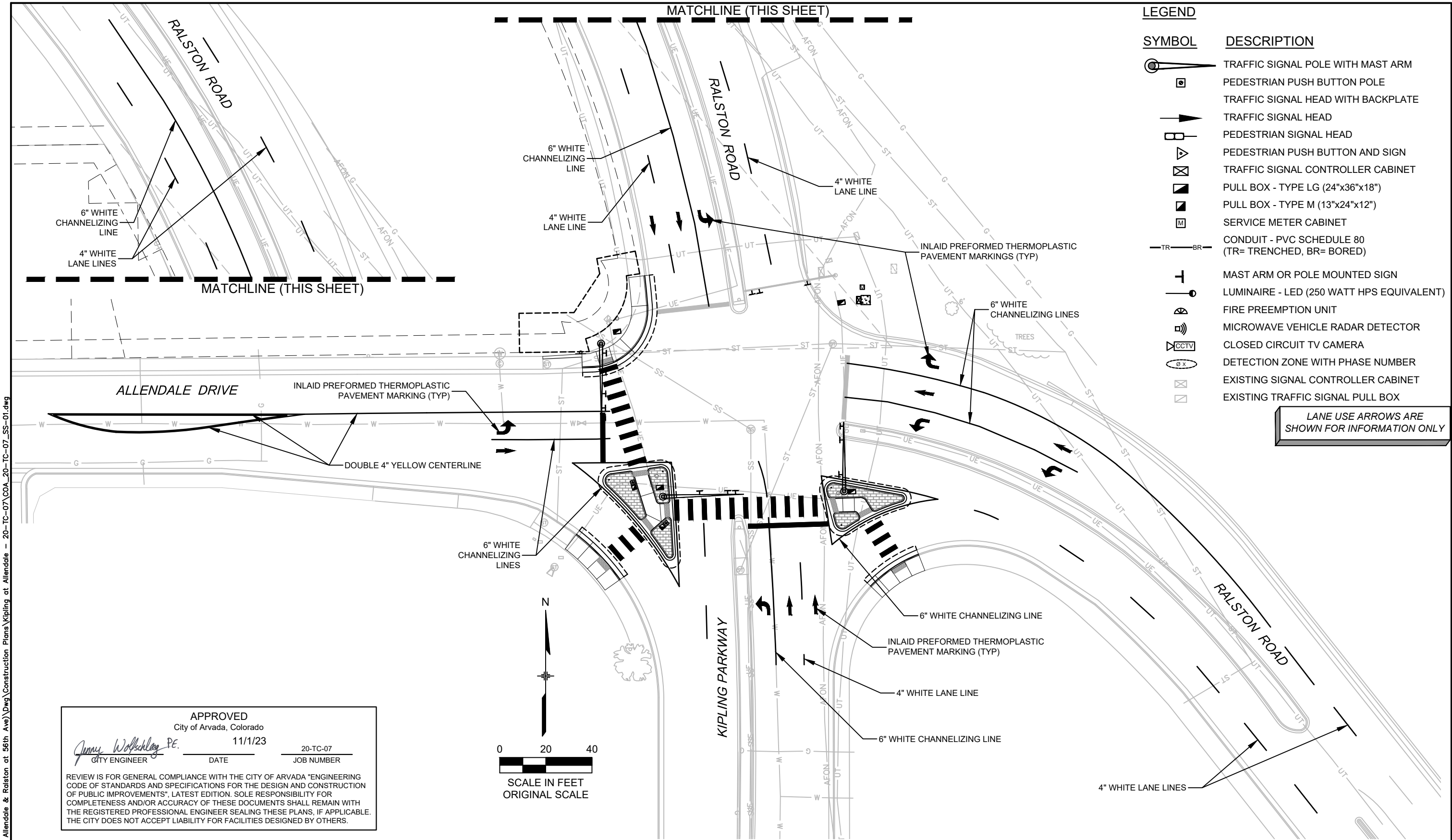
CITY ENGINEER
DATE: 11/1/23
JOB NUMBER: 20-TC-07

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File Name: COA_20-TC-07_SIG-01.dwg		Date:	Comments	Init.		No Revisions:	Designer: DRK	Structure Numbers	20-TC-07	
Horizontal Scale: 1" = 10' Vertical Scale: N/A						Revised:	Detailer: ACR			
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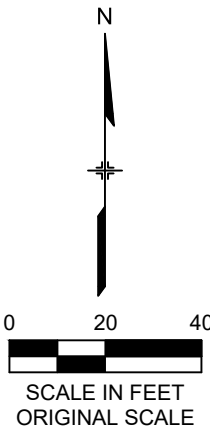
APPROVED
City of Arvada, Colorado

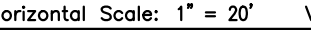
CITY ENGINEER

11/1/23
DATE

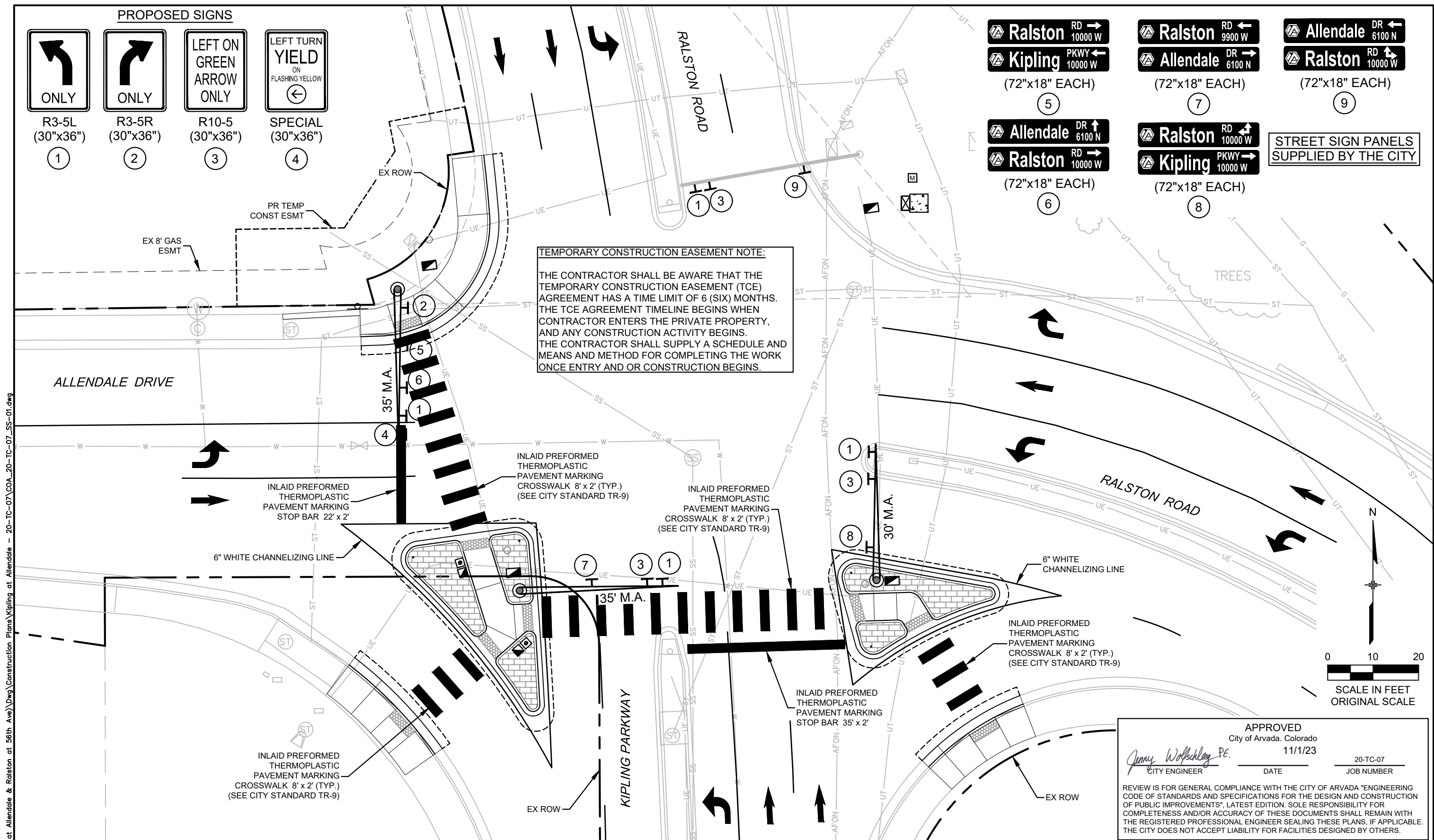
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	File Name: COA_20-TC-07_SS-01.dwg		Date:	Comments	Init.					20-TC-07	
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						Revised:	Designer: DRK	Structure Numbers			
							Detailer: ACR				
						Void:	Subset: TRAFFIC	Sheets: SS-01 of 02	Sheet Number 17		

AD PLANS 11/1/2023



Print Date: NOVEMBER 2023

File Name: COA_20-TC-07_SS-01.dwg

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CITY OF ARVADA

No Revisions:

Revised:

Void:

Project No./Code

20-TC-07

Sheet Number 18

KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE SIGNING AND STRIPING PLAN

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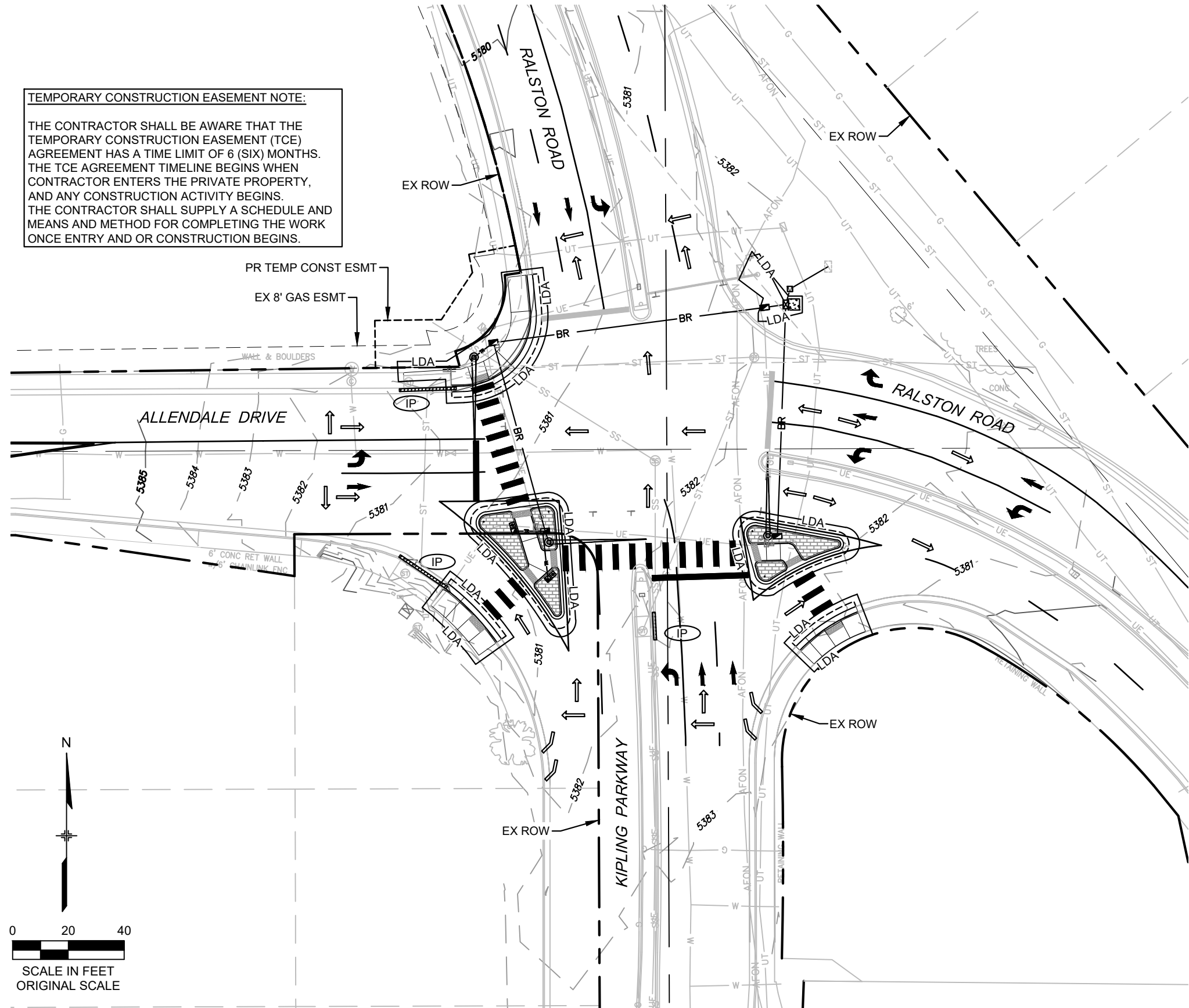
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Subset: TRAFFIC Sheets: SS-02 of 02

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AD PLANS 11/1/2023

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NOTES:

1. UTILITIES ARE SHOWN BASED ON SUBSURFACE UTILITY ENGINEERING (SUE) INVESTIGATION PREPARED BY DIVERSIFIED UNDERGROUND, INC. AND ARE TO BE FIELD VERIFIED.
2. UTILITY EASEMENTS ARE NOT SHOWN.
3. BMP DETAILS FROM ARVADA'S ENGINEERING STANDARDS AND SPECIFICATIONS SHALL BE USED.
4. SEE CITY OF ARVADA STANDARD DRAWINGS FOR STORMWATER BMP LEGEND AND DETAILS FOR ADDITIONAL INFORMATION.
5. LIMITS OF DISTURBANCE (LDA) AS SHOWN ON THIS PLAN SHEET ARE ESTIMATED AND APPROXIMATE ($\pm 4,480$ SF / 0.10 AC).
6. THE CONTRACTOR SHALL PROTECT ALL ADJACENT VEGETATION INCLUDING SOD, SHRUBS AND TREES.
7. ROCK SOCKS WEIGHTED WATTLES SHALL BE USED TO PREVENT SEDIMENT RUNOFF INTO RALSTON ROAD, KIPLING PARKWAY OR ALLENDALE DRIVE.
8. DEBRIS REMOVAL IS INCIDENTAL TO EROSION CONTROL AND SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CONTROL MEASURE.
9. EROSION CONTROL (LS) PAY ITEM SHALL INCLUDE ANY ADDITIONAL EROSION CONTROL MEASURES NOT SPECIFICALLY IDENTIFIED AS A SEPARATE PAY ITEM.

ESTIMATED QUANTITIES

EROSION CONTROL LOG TYPE 2 (8 INCH)	50	LF
CONCRETE WASHOUT AREA	1	EA
VEHICLE TRACKING PAD	1	EA
EROSION CONTROL MANAGEMENT	1	LS

LEGEND:

—LDA—	LIMITS OF DISTURBANCE
→	FLOW DIRECTION
—	EROSION CONTROL LOG TYPE 2 (8 INCH)
(IP)	INLET PROTECTION
(CWA)	CONCRETE WASH OUT
(VTC)	VEHICLE TRACKING

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Void:	Subset: EROSION	Sheets: EC-01 of 01	Sheet Number 19

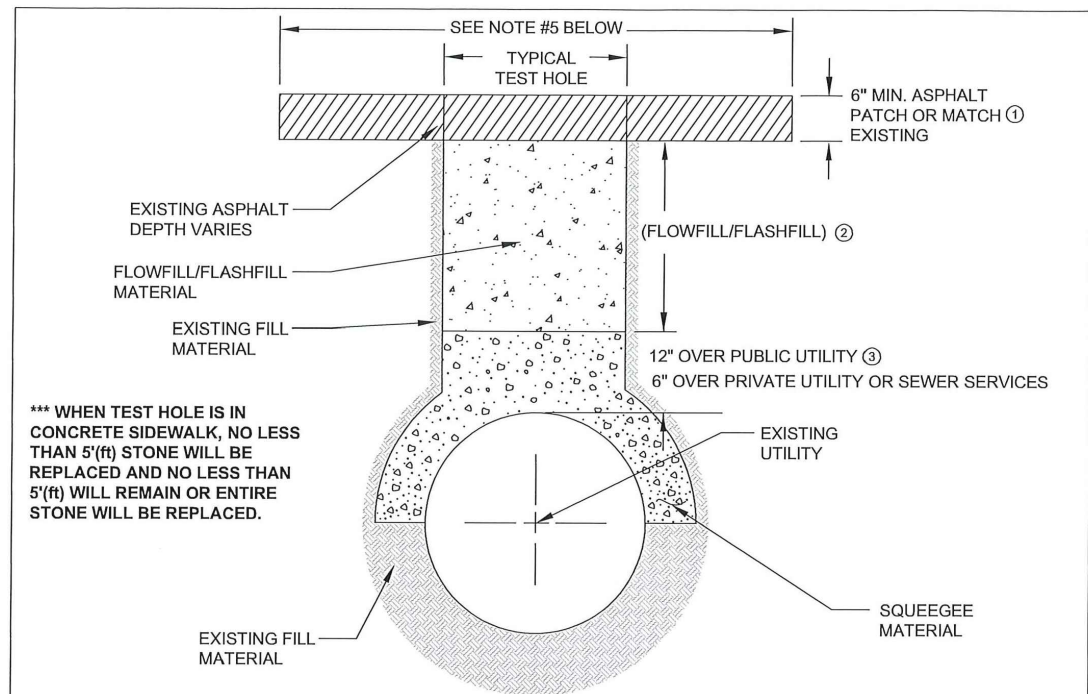
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AD PLANS 11/1/2023

R: 20.1168.001 (Kipling at Allendale & Ralston at 56th Ave)\\Dwg\\Construction Plans\\Kipling at Allendale - 20-TC-07\\COA_20-TC-07_SUE-01.dwg

SUBSURFACE UTILITY ENGINEERING NOTES

1. PURPOSE: TO SEARCH, INTERPRET, AND DEPICT SPECIFIC EXISTING UNDERGROUND UTILITIES AS PER THE SCOPE OF WORK NEGOTIATED BETWEEN DIVERSIFIED UNDERGROUND, INC. AND THE CLIENT, WITHIN CLIENT SPECIFIC CORRIDORS.
2. THE SUBSURFACE UTILITIES SHOWN ON THE SUBSURFACE UTILITY INVESTIGATION WERE IDENTIFIED USING APPROPRIATE INDUSTRY STANDARD DETECTION METHODOLOGIES IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. QUALITY LEVELS AND DEFINITIONS PER CI/ASCE STANDARD NO. 38-02
3. QUALITY LEVEL "D" - QL-D - DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED. UTILITIES WITH A QL-D LABEL ARE DEPICTED ON THE PLANS USING PROFESSIONAL JUDGMENT IN INTERPRETING THIRD-PARTY RECORDS OR OTHER INFORMATION.
4. QUALITY LEVEL "C" - QL-C - EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN THE DEPICTING OF THE UTILITIES SHOWN ON THE RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED. UTILITIES WITH A QL-C LABEL ARE DEPICTED ON THE PLANS USING PROFESSIONAL JUDGMENT IN INTERPRETING AND CORRELATING THE SURVEYED UTILITY APPURTENANCES, THIRD-PARTY RECORDS INFORMATION.
5. QUALITY LEVEL "B" - QL-B - INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. UTILITIES WITH A QL-B LABEL ARE DEPICTED ON THE PLANS USING PROFESSIONAL JUDGMENT IN SELECTING AND INTERPRETING APPROPRIATE GEOPHYSICAL DATA, SURVEYING TO APPROPRIATE PROJECT ACCURACIES, AND USING PROFESSIONAL JUDGMENT TO CORRELATE THIRD-PARTY RECORDS OR OTHER INFORMATION, IF AVAILABLE, TO THESE QL-B DEPICTIONS.
6. QUALITY LEVEL "A" - QL-A - OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NON-DESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO UTILITY LINE. UNLESS OTHERWISE NOTED, ALL SIZES OF QL-A PIPES AND CONDUITS WILL BE PROVIDED AS OUTER DIAMETER (O.D.) RATHER THAN NOMINAL SIZE OR INSIDE DIAMETER.
7. RELIANCE UPON THIS DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION.
8. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.
9. EDGES OF DUCT BANK SHOWN ARE APPARENT BASED ON INTERPRETATION OF ELECTROMAGNETIC READINGS. ACTUAL DUCT BANK MAY BE LARGER DUE TO POSSIBLE CONCRETE ENCASEMENT NOT ABLE TO BE DETECTED BY ELECTROMAGNETIC METHODS. TEST HOLES REQUIRED FOR POSITIVE VERIFICATION OF ACTUAL EDGES.
10. UTILITIES SHOWN OUTSIDE OF PROJECT LIMITS ARE FOR REFERENCE ONLY. THESE UTILITIES ARE SHOWN FOR GENERAL INFORMATION USE DURING UTILITY COORDINATION, BUT THEY HAVE NOT BEEN VERIFIED AS BEING COMPLETE OR ACCURATE.
11. UTILITY SIZE AND TYPE ARE DETERMINED THROUGH AVAILABLE UTILITY OWNER INFORMATION OR FIELD OBSERVATIONS; UTILITIES LABELED AS UNKNOWN HAVE NO CORRELATED RECORDS OR VISIBLE APPURTENANCES TO DETERMINE FUNCTION OR TYPE.
12. UTILITY MAPPING WAS COMPLETED IN THE FIELD 11/11/2020. UTILITIES MAY HAVE BEEN CHANGED OR ADDED AFTER THIS DATE.
13. "END OF SIGNAL" (EOS SIGNIFIES GEOPHYSICAL EQUIPMENT LOST THE SIGNAL OF THE TARGET UTILITY AND THE LINE WAS UNABLE TO BE DESIGNATED ANY FURTHER. LINES SHOWING AN EOS SYMBOL CONTINUE ON OR MAY STOP. POSITIVE VERIFICATION BY EXCAVATION IS REQUIRED TO CONFIRM PRESENCE BEYOND END OF SIGNAL.
14. THE FOLLOWING EQUIPMENT WAS USED IN THE UTILITY INVESTIGATION: ELECTRO MAGNETIC LOCATING SYSTEM VIVAX VLOC 5000 TRANSMITTER.
15. BENCHMARK #440, ELEV = 5397.02, CHISELED SQUARE, BACK OF WALK, WEST RP, NW CORNER LEE ST. AND ALLENDALE DR.
16. THE HORIZONTAL CONTROL IS BASED ON AN ASSUMED CITY OF ARVADA COORDINATE SYSTEM AND IS NOT RELATED TO NAD27.
15. THE VERTICAL CONTROL IS BASED ON AN EXCLUSIVE CITY OF ARVADA DATUM AND IS NOT RELATED TO NGVD29 OR NAVD88.



- NOTES:
1. THE VOID THAT IS CREATED SHALL BE FILLED WITH TWO (2) OR THREE (3) COMPACTED LIFTS AND TACKED PER CITY OF ARVADA STANDARDS AND SPECIFICATIONS SECTION 11, GRADING "S" (BOTTOM LIFT(S)) AND "SX" (TOP 2" LIFT)** BITUMINOUS ASPHALTIC SURFACING MATERIAL TOTALING SIX (6) INCHES IN DEPTH OR MATCHING EXISTING ASPHALT DEPTH, WHICHEVER IS GREATER. HOT MIX SHALL BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF ARVADA MUNICIPAL INSPECTORS PER CITY OF ARVADA STANDARDS AND SPECIFICATIONS SECTION 11.1. A POGO STICK MUST BE USED ON LOWER LIFTS OF ASPHALT UNTIL PROPER COMPACTION IS ACHIEVED, TOP LIFT SHALL BE FLAT COMPACTION FOR A SMOOTH FINISH.
** "SX" LIFT MAY BE REPLACED BY "S" LIFT IF RAKED TO REMOVE AGGREGATE AND SMOOTHED SURFACE IS PROVIDED. AT THE DISCRETION OF THE CITY OF ARVADA MUNICIPAL INSPECTORS.
2. FLOWABLE FILL WILL BE USED FOR THE FULL DEPTH OF ALL TEST HOLES WITHIN EXISTING STREETS, REFER TO CITY OF ARVADA STANDARDS AND SPECIFICATIONS SECTION 20.2.4. ASPHALT SHALL NOT BE PLACED UNTIL THE FLOWABLE BACKFILL HAS LOST SUFFICIENT MOISTURE AND FILLED COMPLETELY AT ONE TIME.
3. SQUEEGEE BEDDING SHALL BE CONSOLIDATED BY TAMPING, VIBRATING OR A COMBINATION THEREOF, TO 70% RELATIVE DENSITY AS DETERMINED BY ASTM D209. FOR RESTORATION ON 27"(in) OR LARGER RCP PIPE, FLOWABLE FILL SHALL BE USED IN PLACE OF SQUEEGEE.
4. RESTORATION WORK SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AFTER FLOWFILL/FLASHFILL IS COMPLETE, WEATHER PERMITTING.
5. FOR EXISTING ASPHALT ROADWAY THAT IS 5 YEARS OR NEWER A 5'(foot) x 5'(foot) INFRARED PATCH WILL BE REQUIRED FOR FINISH OF TEST HOLE RESTORATION.

NO	DWN	DATE	REVISION		

ARVADA

TYPICAL TEST HOLE RESTORATION

APPROVED:

DATE: 11-2018 SCALE: NTS DWN: RGN

PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

ST-38

APPROVED

City of Arvada, Colorado

11/1/23

JENNY WOLFSLAG PE.
CITY ENGINEER

DATE

20-TC-07
JOB NUMBER

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No Revisions:	KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE		Project No./Code
Revised:	SUBSURFACE UTILITY ENGINEERING NOTES		20-TC-07
Void:	Designer: DRK	Structure Numbers	Sheet Number 20
	Detailer: ACR		
	Subset: UTILITY	Sheets: SUE-01 of 02	

AD PLANS 11/1/2023

LEGEND:

UNDERGROUND
ELECTRIC/TRAFFIC

UE

CITY OF ARVADA TRAFFIC OPERATIONS
8101 RALSTON ROAD, ARVADA, CO 80002
SYLVIA LOPO 720-898-7753
SLOPO@ARVADA.ORG

XCEL ENERGY ELECTRIC
555 ZANG ST., SUITE 250, LAKEWOOD, CO 80228
BRANDA SLOAN 720-354-2000
BRANDA.1.SLOAN@XCELENERGY.COM

UNDERGROUND
FIBER OPTIC

UT

CENTURYLINK
5225 ZUNI ST., ROOM 728, DENVER, CO 80021
AARON KELLER 303-319-9302
AARON.KELLER1@CENTURYLINK.COM

COMCAST OF COLORADO
6850 S. TUCSON WAY, ENGLEWOOD, CO 80112
MICHAEL HOWARD 720-347-9992
AARON.KELLER1@CENTURYLINK.COM

UNDERGROUND
GAS

G

XCEL ENERGY HIGH PRESSURE GAS
555 ZANG ST., SUITE 250, LAKEWOOD, CO 80228
BRANDA SLOAN 720-354-2000
BRANDA.1.SLOAN@XCELENERGY.COM

SANITARY SEWER

SS

CITY OF ARVADA WASTEWATER AND STORM SEWER
8101 RALSTON ROAD, ARVADA, CO 80002
STEVE WYANT 720-898-7771
SWYANT@ARVADA.ORG

STORM DRAIN

ST

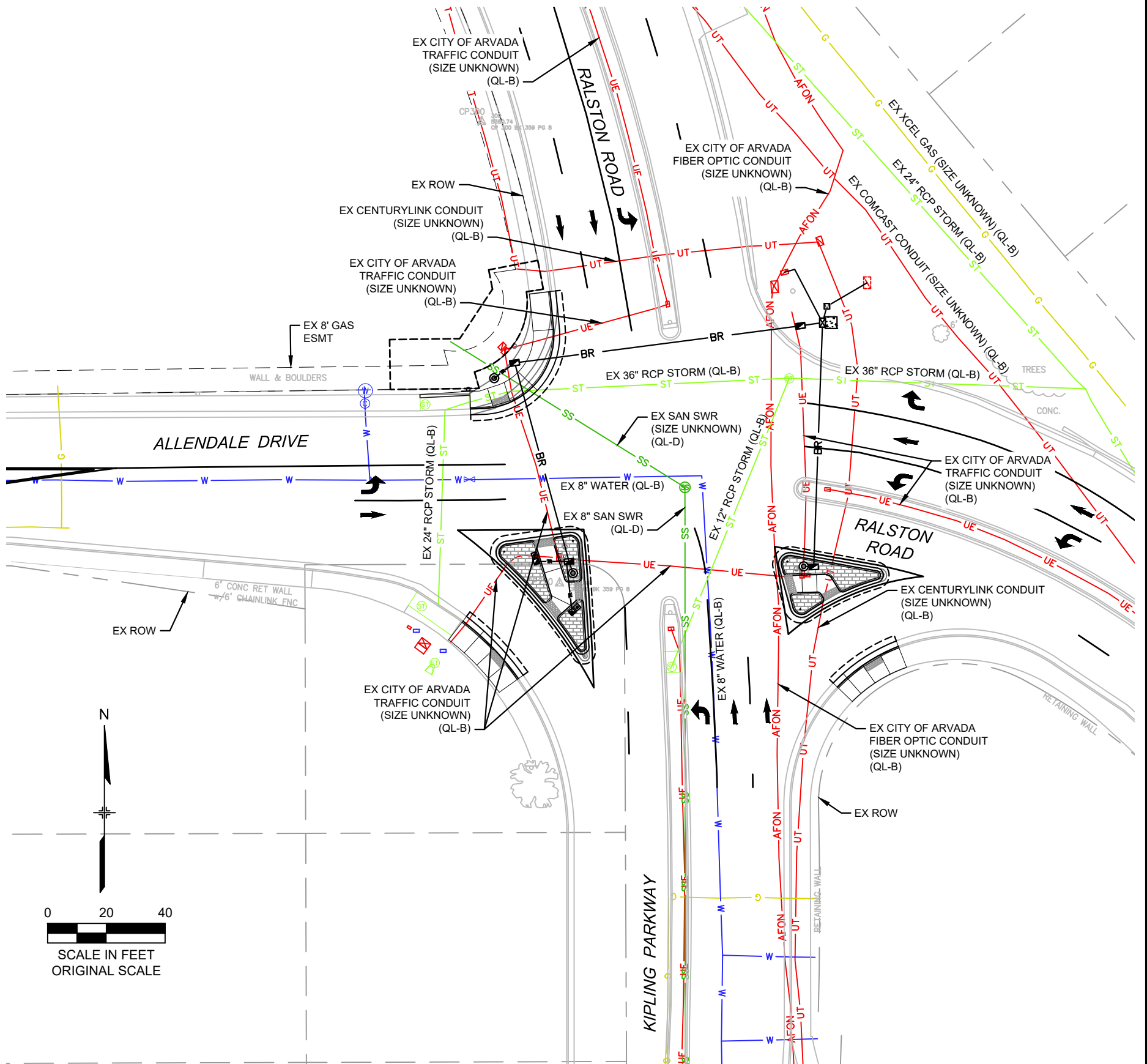
CITY OF ARVADA WASTEWATER AND STORM SEWER
8101 RALSTON ROAD, ARVADA, CO 80002
STEVE WYANT 720-898-7771
SWYANT@ARVADA.ORG

WATER

W

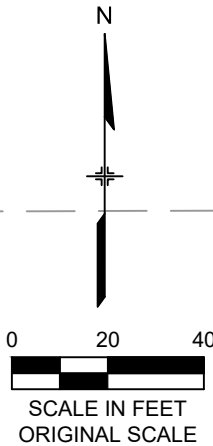
CITY OF ARVADA WATER
8101 RALSTON ROAD, ARVADA, CO 80002
CHRIS KAMPMANN 720-898-7781
CKAMPMANN@ARVADA.ORG

CITY OF ARVADA PARK & IRRIGATION
8101 RALSTON ROAD, ARVADA, CO 80002
JARRED COOK 303-419-9986
JCOOK@ARVADA.ORG



APPROVED		
City of Arvada, Colorado		
<i>Jimmy Wolfshlegel PE.</i>	11/1/23	20-TC-07
CITY ENGINEER	DATE	JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.



Print Date: NOVEMBER 2023
File Name: COA_20-TC-07_SUE-02.dwg
Horizontal Scale: 1" = 40' Vertical Scale: N/A



Sheet Revisions

Date:	Comments	Init.



No Revisions:	KIPLING PARKWAY/RALSTON ROAD AT ALLENDALE DRIVE SUBSURFACE UTILITY ENGINEERING PLAN		Project No./Code 20-TC-07
Revised:	Designer: DRK	Structure Numbers	
Void:	Detailer: ACR		
	Subset: UTILITY	Sheets: SUE-02 of 02	Sheet Number 21

R:\20.1168.001 (Kipling at Allendale & Ralston at 56th Ave)\Dwg\Construction Plans\Kipling at Allendale - 20-TC-07\COA_20-TC-07_SUE-02.dwg

AD PLANS 11/1/2023

SPECIAL PROVISIONS

City of Arvada Project No. 22-TC-01, Project Title: W 86th Pkwy Signal Connectivity

Conditions peculiar, but essential, to the successful performance and acceptance of the work on this project are itemized below. As such, they shall take precedence over the City of Arvada Engineering Code of Standards and Specifications.

A. GENERAL CONSIDERATIONS

SC-A-1 CONTRACT TIME AND LIQUIDATED DAMAGES: This project is to be completed, including cleanup, within 120 consecutive calendar days after the date to be specified in the Notice to Proceed, unless the contract time is adjusted by change order. The Contractor shall agree to pay to the Owner, as liquidated damages, the sum of \$1400.00 for each consecutive calendar day that the work exceeds the allotted contract time.

SC-A-2 MEASUREMENT AND PAYMENT: Measurement of the work performed and payment, at the unit or lump sum price quoted in the Bid Schedule, shall be made in accordance with requirements of the Measurement and Payment Section of the Contract Documents or as hereinafter stated in the Special Conditions.

SC-A-3 NON CONFORMITY OF MATERIAL OR FINISHED PRODUCT: Where materials installed or the finished product fails to meet the minimum requirements of these Contract Documents, the basis of determining final payment to the Contractor shall be determined in accordance with the current revised Section 105.03 of the Colorado Department of Transportation Standard Specifications.

SC-A-4 OSHA REQUIREMENTS: Observing the rules and regulations required by the Occupational Health and Safety Administration (OSHA) is the responsibility of the Contractor on this project.

SC-A-5 CITY HOLIDAYS: The Contractor, when performing work on a city holiday, Saturday, Sunday, or in excess of ten (10) hours on a weekday, in accordance with Section 27-174(b)(2) of the Code of the City of Arvada, agrees to reimburse the Owner for the inspector's time at the following rate:

First 2 hours, or fraction thereof: \$100.00

Each additional 2 hours or fraction thereof: \$100.00

Payment shall be made payable to the City of Arvada within ten days of the date of invoice from the Owner.

SC-A-6 MINOR CONTRACT REVISIONS: Miscellaneous modifications in the work, ordered by the Project Engineer in the form of a field order, will be considered a minor contract revision. Payment for accepted work performed under this pay item "Minor Contract Revision" will be made in accordance with General Conditions and 2.16 and 2.17 of the Arvada Engineering Code of Standards and Specifications. If the contractor feels that a field order issued by the Engineer entitles the contractor to a change in the total contract price or time, or both, (i.e. the contractor feels that the field order involves costs over and above the amount available in the Minor Contract Revisions bid item) then the Contractor shall notify the Engineer, in writing, within 15 days after receipt of the field order. The Contractor shall not execute any such field order changes ordered by the Engineer pending the receipt of a written Change Order document executed either by the City Manager or Mayor authorizing an increase in the total contract price. Any such work completed by the contractor prior to receipt of an executed Change Order will be at the contractor's risk and be subject to removal by the contractor should a Change Order not be approved and executed by the City Manager or Mayor for such work.

SC-A-7 FIELD ORDERS: An authorized representative of the contractor shall acknowledge receipt of field orders by promptly signing all written field orders delivered to the job site. Verbal field orders given by the Engineer will be recorded in writing in the municipal inspector's daily report that is to be signed by the contractor's authorized representative.

SC-A-8 PROJECT STATUS MEETINGS: Project status meetings will be held as necessary for scheduling, communication, and problem solving throughout the duration of the project. Contractor shall ensure that the project manager, superintendent or foreman is present and prepared to furnish the City with the schedule of work operations at each of these meetings as requested by the Engineer throughout the project.

SC-A-9 CHANGE OF METHOD: Any cost due to a change in construction method will be the responsibility of the contractor.

SC-A-10 STORMWATER CONSTRUCTION PERMIT: As a subsidiary obligation of the contract, the Contractor shall obtain a Stormwater Construction Permit from the Colorado Department of Public Health and Environment, Water Quality Control Division, Permit Enforcement Section, prior to clearing, grading, or excavating a site of one (1) acre or more. A copy of the approved permit must be submitted to the City of Arvada Engineering Division prior to the start of clearing, grading or excavating of the site. A copy of the approved permit must also be available on the project site at all times during construction. Contractor shall also obtain a Colorado state Construction Dewatering Discharge Permit from the Colorado Department of Public Health and Environment for all areas where trench dewatering is required and water is discharged into a storm sewer, channel, irrigation ditch or any waters of the United States. A copy of the approved permit must be submitted to the Engineer prior to the start of any dewatering. A copy of the approved permit must also be available on the project site at all times during construction.

In addition, the Contractor shall be required to obtain a City of Arvada Site Development Permit from the Arvada Stormwater Utility Division. For permit requirements go to Arvada.org/services and click on Building/Development. Contractor shall implement best management practices that include inlet protection for all inlets affected by the work as well as stockpile protection in order to control runoff from stockpiles. Contractor shall also be required to perform daily street sweeping to limit tracking from the work site. Uncontrolled releases of dirt or silt from the project into drainage ways, which includes the gutter or stormwater inlets, constitutes a violation of Arvada Ordinance punishable by up to \$999 per day per incident. No additional payment will be made for obtaining a City of Arvada Site Development Permit and implementing best management practices required to prevent uncontrolled releases of dirt or silt from the project into drainage ways, which includes the gutter or stormwater inlets.

B. CONSTRUCTION CONSIDERATIONS

SC-B-1 LOCATIONS AND PRIORITIES: The City reserves the right to add, delete, or modify construction locations, priority order and portions of the work without change in the contract agreement prices, per General Condition 2.16 of the Arvada Engineering Code of Standards and Specifications.

SC-B-2 PRE-CONSTRUCTION AND SCHEDULING: A pre-construction meeting will be scheduled prior to the start of work. Attendance by the contractor's project manager and/or construction superintendent will be required. A construction schedule shall be submitted by the contractor to the project engineer at least three (3) days prior to the pre-construction meeting. The schedule shall be in bar chart form and shall at a minimum indicate the start and completion dates of work at each construction location. The contractor shall also provide the City with an after-hours emergency contact phone number at the pre-construction meeting.

SC-B-3 MINIMIZING WORK ZONE DAMAGES: During all phases of construction including cleanup, contractor shall operate all equipment and utilize personnel so as to minimize or prevent damages to public or private property. Contractor shall limit operation of heavy equipment to safe prudent speeds and minimize operation of equipment over concrete sidewalks, curbs and gutters. Contractors shall also conduct operations to avoid dings, nicks, gouges, scrapes, etc., on streets and concrete curb, gutter and sidewalks as well as other facilities in the construction area. Should contractors' operations cause damages, contractor shall be fully responsible for repairs at no cost to the City.

All public or private property damaged during the construction process must be repaired within two weeks of street and right-of-way clean-up. Should repair items not be completed within two weeks, city may initiate and complete the repair work; deducting costs to complete the work from total contract.

SC-B-4 TRAFFIC CONTROL AND STREET RESTRICTIONS: Traffic control methods shall conform to Arvada Engineering Code of Standards and Specifications and the FHA Manual for Uniform Traffic Control Devices and Colorado Supplement thereto. When working in State Highway right-of-way, traffic control methods shall meet the requirements of the Colorado Department of Transportation (CDOT). Contractor's traffic control plan is subject to CDOT approval prior to commencing work on State Highway right-of-way. No hand painted traffic control devices will be permitted. After award of the contract and prior to the start of construction, contractor shall submit two copies of the traffic control plans for approval encompassing all locations of the project. The contractor shall modify the installation to meet requirements of the City of Arvada Traffic Department, if so required.

The contractor shall notify the Arvada Traffic Division (720-898-7740) of all closures, either partial or complete, of any public street, road, highway or alley per Section 50 of Arvada's Engineering Code of Standards and Specifications. Notification shall be made a minimum of 24 hours in advance of the actual closure; except on commercial, parkway, and collector streets, where a minimum three

(3) day advance notice will be required. All streets in the project will be considered for closure to thru traffic (local traffic only allowed) except for the following:

1. West 72nd Avenue – Arterial

The above streets are classified as arterial and collector streets. All other streets in the project are classified as local streets. Work hours shall be as outlined below.

MEASUREMENT: The traffic control shall be a lump sum item for all aspects of the traffic control plan. Payment for traffic control shall be full compensation for the traffic control and labor, equipment and materials required to implement the traffic control plan.

PAYMENT: Prorated payment of the contract amount bid for traffic control will be made monthly. The percentage paid shall be equal to the percentage of the total contract dollar amount completed that month. In no case shall payment be more than 100% of the amount bid for Traffic Control.

SC-B-5 STREET CLOSURE RESTRICTIONS: Lane closures in various street classifications are as follows:

ARTERIAL STREETS:	Lane closures 8:30 am – 3:30 pm only Construction activities: 8:30 am – 3:30 pm only Must maintain one lane each way at all times
COLLECTOR STREETS:	Lane closures 8:30 am – 3:30 pm only Construction activities: 7:00 am – 7:00 pm only Must maintain one lane with adequate flagging at all times
LOCAL STREETS:	Lane closures 7:00 am – 7:00 pm only Construction activities: 7:00 am – 7:00 pm only May be closed to thru traffic unless otherwise noted (during working hours)

If contractor violates these working time limitations without prior authorization from the Engineer, Engineer may give written notice to stop work on the project at the beginning of the next day's work and work may not resume until contractor provides written explanation for the violation and assurance to the City that there will not be a reoccurrence of the violation. If subsequent working time violations occur, Engineer will notify contractor in writing that there will be a price reduction for each incidence of unauthorized violation in accordance with this specification. Price reduction will not be imposed where changed contract conditions are encountered during the specific period or the violation in question was a result of circumstances beyond contractor or subcontractor's control. The price reduction will not

constitute a penalty but will be considered a failure to perform traffic control in accordance with the contract.

An incident is any violation up to 30 minutes in duration. Each 30 minutes or increment thereof will be considered an incident. A price reduction will be assessed for each successive or cumulative 30 minute period in violation of the working time limitations, as determined by the Engineer. The price reduction for each incident will increase at a progressive rate starting with \$150 for the second incident and increasing to \$600 for the fourth and subsequent incidents in accordance with the following schedule. A 15 minute grace period will be allowed at the beginning of the second incident on the project before the price reduction is applied. The 15 minute grace period applies only to the second incident. The number of incident charges will be accumulative throughout the duration of the contract.

PRICE REDUCTION SCHEDULE

<u>INCIDENT</u>	<u>INCIDENT RATE</u>	<u>TOTAL PRICE REDUCTION</u>
1st	Notice to Stop Work	\$0
2nd	\$150	\$150
3rd	\$300	\$450
4th	\$600	\$1,050
5th	\$600	\$1,650
6th	\$600	\$2,250
ETC.	\$600	\$2,850
	ETC.	ETC.

SC-B-6 PROTECTION AND RESTORATION OF EXISTING LANDSCAPING: The contractor shall protect or remove and replace, all shrubs, decorative rock, sod, underground sprinklers, signs, landscaping, fences or other private or public improvements within or adjacent to the project area. Disturbed areas shall be restored to condition equal to or better than that which existed prior to construction. All sod shall be new unless approved by the municipal inspector to re-use existing sod.

If branches of trees or shrubs will be in the path of the proposed construction, as verified by the municipal inspector prior to construction, the contractor shall prune these branches under the supervision of the City Forester.

Also, if tree or shrub roots are exposed in the construction area, the contractor shall saw cut the roots within 24 hours after the roots are exposed. The contractor shall not cut the roots with the backhoe. If the roots are improperly cut or exposed longer than 24 hours, then the tree or shrub will be considered as damaged and the contractor will be responsible for replacement at his cost.

PAYMENT: No separate payment will be made for protection and/or restoration of existing sod, decorative rock, shrubs, trees, landscaping, underground sprinklers, fences, signs and other private or public improvements in the project.

Use the Excel file
included in the CSB files
to complete the Bid
Schedule for submittal

BID SCHEDULE



23-PWT-115 Traffic Signal and Intersection Improvements

Bid # and Title

Arvada Project No. 22-TC-01 W 86th Pkwy Signal Connectivity

Project No. and Title

Contractor

Address, City, ZIP

Telephone

Bid Prepared By

Date

PAY ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL PRICE
	Removal of Traffic Signal Equipment	1	LS		\$ -
	Potholing	15	EACH		\$ -
	Reset Traffic Signal Controller	1	EACH		\$ -
	2 Inch Electrical Conduit (Bored)	235	LF		\$ -
	2 Inch Electrical Conduit (Plastic)	91	LF		\$ -
	3 Inch Electrical Conduit (Plastic)	40	LF		\$ -
	Type 4 Pull Box (24x36x24)	2	EACH		\$ -
	Wiring	1	LS		\$ -
	Sign Panel (Class 1)(Install Only)	27	EACH		\$ -
	12 Inch LED (Ball)	126	EACH		\$ -
	Modification of Signal Face (Reflective Stripes)	23	EACH		\$ -
	Traffic Signal Face (12-12-12)	13	EACH		\$ -
	Traffic Signal Face (12-12-12-12)	14	EACH		\$ -
	Traffic Signal Controller Cabinet	2	EACH		\$ -
	Pedestrian Push Button	40	EACH		\$ -
	Fire Preemption Unit	2	EACH		\$ -
	Microwave Vehicle Radar Detector	24	EACH		\$ -
	Traffic Signal Controller	2	EACH		\$ -
	Closed Circuit Television (Traffic Surveillance)	8	EACH		\$ -
	Construction Surveying	16	HOUR		\$ -
	Mobilization	1	LS		\$ -
	Flagging	320	HOUR		\$ -
	Uniformed Traffic Control	32	HOUR		\$ -
	Traffic Control Inspection	4	DAY		\$ -
	Traffic Control Management	40	DAY		\$ -
	Construction Traffic Sign (Panel Size A)	16	EACH		\$ -
	Construction Traffic Sign (Panel Size B)	14	EACH		\$ -
	Portable Message Sign Panel	4	EACH		\$ -
	Advance Warning Sequencing Arrow Panel (Type A)	2	EACH		\$ -
	Traffic Cones	50	EACH		\$ -
	F/A Minor Contract Revisions	1	FA	\$ 10,000.00	\$ 10,000.00
	F/A Relocate Utilities	1	FA	\$ 10,000.00	\$ 10,000.00
	F/A Erosion Control	1	FA	\$ 10,000.00	\$ 10,000.00

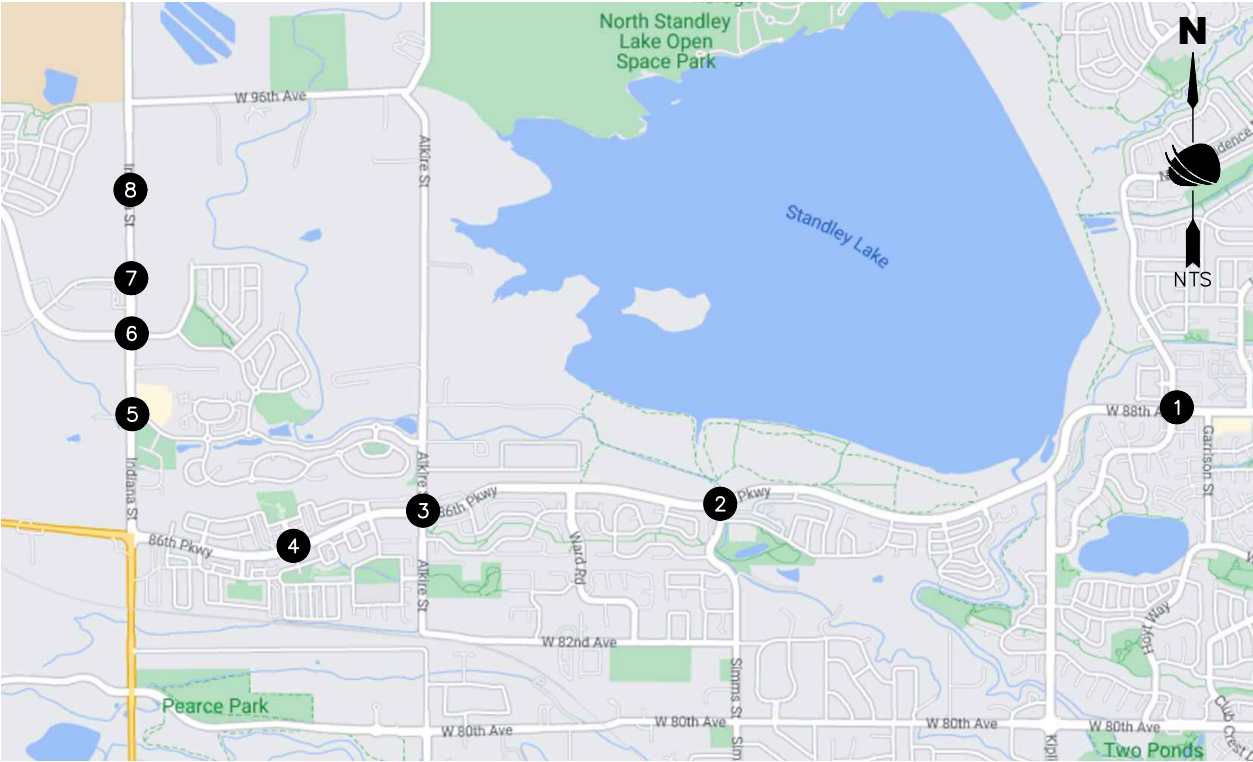
Payment will be based on actual quantities performed

TOTAL BID \$

Total Bid Written: _____

CITY OF ARVADA, COLORADO
CONSTRUCTION BID PLANS OF PROPOSED
86TH PARKWAY SIGNAL
CONNECTIVITY AND UPGRADE PROJECT
JEFFERSON COUNTY
PROJECT NO. 22-TC-01

SIGNAL LOCATIONS	
INTERSECTION NUMBER	INTERSECTION
1	88TH AVENUE AND INDEPENDENCE WAY
2	86TH PARKWAY AND SIMMS STREET
3	86TH PARKWAY AND ALKIRE STREET
4	86TH PARKWAY AND FIVE PARKS DRIVE
5	87TH PARKWAY AND INDIANA STREET
6	90TH AVENUE AND INDIANA STREET
7	91ST PLACE AND INDIANA STREET
8	JOYCE STREET AND INDIANA STREET



SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2-3	GENERAL NOTES
4	SUMMARY OF APPROXIMATE QUANTITIES
5	TABULATIONS
6-7	DETAIL SHEETS
8-15	TRAFFIC SIGNAL PLANS
16-18	UTILITY PLANS



Know what's below.
Call before you dig.

APPROVED		
City of Arvada, Colorado		
 CITY ENGINEER	10/24/23 DATE	22-TC-01 JOB NUMBER
REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.		

Plot Date: 10/5/2023 12:01 PM Plotted By: Sarah Hemler
P:\Q-PROJECTS\ACTIVE PROJECTS\2201 ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE PROJECT\800_COMPUTER DESIGN FILES\802_SHEET FILES\GN-001 TITLE SHEET.DWG

All seals for this
set of drawings
are applied to the
cover page(s)

Print Date: 10/5/2023	
File Name: GN-001 TITLE SHEET.DWG	
Horiz. Scale: NTS	Vert. Scale: N/A
	12076 Grant Street
	Thornton, CO 80241
	Ph: (303) 962-9300
	Fax: (303) 962-9350

Sheet Revisions		
Date	Comments	Initials



PUBLIC WORKS
8101 RALSTON ROAD
ARVADA, CO 80002

As Constructed
No Revisions:
Revised:
Void:

ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE TITLE SHEET	
Designer: J. Lancaster	Structure Numbers
Detailer: S. Hemler	
Sheet Subset: GENERAL	Subset Sheets: 1 of 1

Project No.
22-TC-01
Drawing Number GN-001
Sheet Number 1

Plt Date: 10/5/2023 12:01 PM Plotted By: Sarah Hemler
C:\Q-PROJECTS\ACTIVE PROJECTS\124001-ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE PROJECT\8601-COMPUTER DESIGN FILES\802-SHEET FILES\NT-001 GENERAL NOTES.DWG

GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL SHEETS CONTAINED WITHIN THIS SET OF DRAWINGS.
2. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE COLORADO DEPARTMENT OF TRANSPORTATION'S STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CITY OF ARVADA'S "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION, UNLESS OTHERWISE SPECIFIED WITHIN. IN CASE OF DISCREPANCIES THE MORE RESTRICTIVE CRITERIA SHALL APPLY, UNLESS OTHERWISE APPROVED BY THE CITY.
3. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF PLANS APPROVED BY CITY OF ARVADA, ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, ONE (1) COPY OF THE STORMWATER MANAGEMENT PLAN, AND ONE (1) COPY OF ALL NECESSARY PERMITS AT THE JOB SITE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL RECOMMENDATIONS AND PRACTICES CONTAINED WITHIN THE APPROVED PLANS, REPORTS, PERMITS, AND SUPPORTING DOCUMENTS FOR THIS PROJECT.
5. EACH SUBCONTRACTOR (INCLUDING THE SURVEYOR) SHALL HAVE A SIGNED COPY OF THE PLANS AND A COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS IN THEIR POSSESSION AT ALL TIMES WHILE IMPROVEMENTS ARE BEING PLANNED OR INSTALLED.
6. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY OF ARVADA ENGINEERING DIVISION. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS."
7. AS-BUILT DRAWINGS SHOWING ALL CHANGES FROM THE APPROVED CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR FINAL ACCEPTANCE. UTILITY AS-BUILTS SHALL INCLUDE STATIONING OF ALL FITTINGS, SERVICES AND PERTINENT ELEVATIONS.
8. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING, BUT NOT LIMITED TO, SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, TRENCH EXCAVATION AND SHORING, TRAFFIC CONTROL AND SECURITY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
9. CITY OF ARVADA'S REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
10. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION {OSHA} "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY, TO THE PIPE BEING PLACED, OR TO ANY EXISTING SITE IMPROVEMENTS OR STRUCTURES. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.
11. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN A NO-COST CITY OF ARVADA GENERAL PUBLIC IMPROVEMENTS PERMIT AND BE LICENSED WITH THE CITY OF ARVADA ENGINEERING DIVISION.
12. ALL WORK WILL REQUIRE A CITY OF ARVADA ENGINEERING DIVISION PUBLIC IMPROVEMENT PERMIT PRIOR TO THE START OF CONSTRUCTION. ALL CONTRACTORS AND SUBCONTRACTORS MUST OBTAIN A SEPARATE PERMIT FOR THE WORK BEING COMPLETED BY THE PARTICULAR CONTRACTOR OR SUBCONTRACTOR.
13. LIMITS OF CONSTRUCTION SHALL BE CONFINED TO THE PUBLIC RIGHT-OF-WAY, EASEMENTS, CONSTRUCTION LIMIT AREAS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
14. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.
15. AT LEAST (5) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO CITY OF ARVADA ENGINEERING DIVISION FOR ACCEPTANCE WITH THE PUBLIC IMPROVEMENTS PERMIT APPLICATION. A PUBLIC IMPROVEMENTS CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL ON EXISTING ROADS DURING CONSTRUCTION. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A CERTIFIED TRAFFIC CONTROL SUPERVISOR AND SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. NO WORK SHALL BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN PLACED IN ACCORDANCE WITH THE PLAN. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE TRAFFIC CONTROL DEVICES FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL THE ROADWAY HAS BEEN OPENED AND THE PERMANENT TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED.
16. THE CONTRACTOR SHALL PROTECT EXISTING FEATURES TO REMAIN FROM DAMAGE. EXISTING FEATURES TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.
17. THE CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY RULES AND REGULATIONS.
18. ALL MATERIALS REQUIRED TO BE REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE INDICATED IN THE PLANS OR PROJECT SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A DISPOSAL SITE FOR THE PROPER DISPOSAL OF UNUSABLE MATERIALS.

GENERAL NOTES (CONTINUED)

19. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING REASONABLE ACCESS TO AND FROM ALL OF THE ADJACENT PROPERTIES THROUGHOUT THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE REQUIRED TO MEET (INDIVIDUALLY OR COLLECTIVELY) WITH ALL ADJACENT PROPERTY OWNERS WHOSE ACCESS WILL BE AFFECTED BY THE WORK. AS CONSTRUCTION CONDITIONS CHANGE AND THE WORK PROGRESSES, THE CONTRACTOR SHALL BE REQUIRED TO PERIODICALLY UPDATE THOSE PROPERTY OWNERS SO THAT THEY ARE KEPT INFORMED ABOUT THEIR ACCESS.
20. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIME. AREA AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER. THIS SHALL INCLUDE REMOVAL OF ANY DEBRIS CAUSED BY FLOODING. ANY DEWATERING SHALL BE DONE IN ACCORDANCE WITH THE CDPHE'S LOW RISK DISCHARGE GUIDANCE POLICY OR ANY APPROPRIATE CDP'S PERMIT, IF NEEDED.
21. THE CONTRACTOR SHALL OBTAIN A COLORADO STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT FOR ALL AREAS WHERE UNCONTAMINATED GROUNDWATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES. A REMEDIATION PERMIT IS REQUIRED FROM THE STATE FOR CONTAMINATED GROUNDWATER. A COPY OF THE APPROVED PERMITS MUST BE SUBMITTED TO THE CITY OF ARVADA'S ENGINEERING DIVISION PRIOR TO THE START OF ANY DEWATERING. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. DEWATERING OPERATIONS DISCHARGING OFF-SITE INTO ANY WATER CONVEYANCE SYSTEMS INCLUDING WETLANDS, IRRIGATION DITCHES, CANALS, RIVERS, STREAMS OR STORM SEWER SYSTEMS, REQUIRE A STATE CONSTRUCTION DEWATERING PERMIT.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL WATER AND GROUNDWATER FLOWS DURING CONSTRUCTION OF THE PROJECT. THIS SHALL INCLUDE BOTH ONSITE AND OFFSITE: NUISANCE FLOWS, IRRIGATION FLOWS, GROUNDWATER FLOWS AND STORM WATER FLOWS ENTERING THE PROJECT AND THROUGHOUT THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOSSES CAUSED BY THESE FLOWS UNTIL THE PROJECT IS ACCEPTED BY THE CITY. WORK SHALL BE PERFORMED IN A DRY CONDITION.
23. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS, IRRIGATION, ACCESS POINTS OR LANDSCAPING IS THE RESPONSIBLY OF THE CONTRACTOR. ALL ASSOCIATED COSTS FOR IMPROVEMENTS REPAIR SHALL BE PAID FOR BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER.
24. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT OR DISTURB ANY AREA WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNERS, INCLUDING THE CITY, AS APPLICABLE. THE WRITTEN PERMISSION SHALL BE SUBMITTED TO THE CITY FOR DOCUMENTATION PURPOSES.
25. COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE CITY PRIOR TO FINAL ACCEPTANCE.
26. RECORD DRAWINGS SHOWING ALL CHANGES FROM THE APPROVED CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF ARVADA PRIOR TO INITIATION OF THE REQUIRED ONE (1)-YEAR WARRANTY PERIOD. THE RECORD DRAWINGS WILL CONSIST OF A MARKED-UP SET OF "ISSUED FOR CONSTRUCTION" DRAWINGS VERIFYING THE FOLLOWING:
 - (1) ALL LENGTHS, SIZES, AND MATERIALS OF INSTALLED PIPE, MANHOLES, AND ANY OTHER IMPROVEMENT.
 - (2) HORIZONTAL LOCATIONS EITHER BY STATION AND OFFSET, OR BY NORTHING AND ..EASTING COORDINATES OF ALL MANHOLES, BENDS, CLEANOUTS, VALVES, TAPS, WYES, ..STUBS, PLUGS, TEES, ETC.
 - (3) INVERT ELEVATIONS OF STORM SEWER MANHOLES, INLETS, OUTLETS, STUB ENDS, TOP OF ..PIPE ELEVATIONS OF EACH UTILITY CROSSING, ETC.
 - (4) CONSTRUCTED SLOPE OF STORM PIPES BETWEEN MANHOLES AND STRUCTURES.
 - (5) TOP OF PIPE ELEVATION AT REGULAR INTERVALS AND/OR FITTINGS.
 - (6) ELEVATIONS AT FLOWLINE OF CURB AND GUTTER AT DESIGN LOCATIONS AND GRADE ..ELEVATION OF INLET AND TRENCH DRAIN GRATES. TOP OF CURB AT INLETS.
 - (7) ANY OTHER VARIATIONS FROM CONSTRUCTION DOCUMENTS MUST BE CLEARLY NOTED ..AND DETAILED ON THE PLANS.
 - (8) AS-BUILT FIELD NOTES, FROM WHICH THE AS-BUILT DRAWINGS ARE PREPARED, ARE TO ..BE PROVIDED AND STAMPED/SIGNED AND DATED BY A COLORADO REGISTERED ..PROFESSIONAL LAND SURVEYOR.
27. THE CONTRACTOR SHALL WARRANT ALL WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1)-YEAR FROM THE DATE OF ACCEPTANCE INTO THE WARRANTY PERIOD OF ALL CONSTRUCTION CALLED FOR BY THE PUBLIC IMPROVEMENTS AGREEMENT WITH THE CITY OF ARVADA.
28. DURING CONSTRUCTION AND UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE CLEANED AND RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED BEFORE CONSTRUCTION.
29. IF CRITICAL DIMENSIONS ARE NOT SHOWN ON THE DRAWING THE CONTRACTOR SHALL CONTACT ENGINEER FOR ADDITIONAL INFORMATION.
30. ALL SIGNING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS WELL AS CITY OF ARVADA STANDARDS AS APPLICABLE.

ENVIRONMENTAL NOTES

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT POLLUTION OF STREAMS, LAKES, AND RESERVOIRS. CONTROL MEASURES MUST BE IMPLEMENTED TO CAPTURE POLLUTANTS AND CAPTURED POLLUTANTS MUST BE REMOVED AND PROPERLY DISPOSED OF.

ENVIRONMENTAL NOTES (CONTINUED)

2. STORMWATER RUNOFF WATERS SHOULD BE DIRECTED AROUND THE CONSTRUCTION ACTIVITY TO THE MAXIMUM EXTENT PRACTICABLE.
3. EROSION CONTROL MEASURES SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN CONFORMANCE WITH THE MFHD MANUAL (VOLUME 3).

TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE THE TRAVELING PUBLIC WITH TWO WEEKS NOTICE PRIOR TO THE COMMENCEMENT OF WORK AND ANY TEMPORARY ROAD CLOSURES. PRIOR NOTICE SHALL BE PROVIDED USING VARIABLE MESSAGE SIGNS.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ROADWAYS, SIDE STREETS, WALKWAYS, ALLEYWAYS, DRIVEWAYS, AND BIKE PATHS AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS THROUGHOUT THE PROJECT FOR PEDESTRIANS, BICYCLISTS, AND DISABLED PERSONS. WHEN THE EXISTING ACCESS ROUTE IS DISTURBED BY CONSTRUCTION, A TEMPORARY ALL-WEATHER ACCESS SHALL BE PROVIDED. PARKING AREAS TEMPORARILY DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A USEABLE CONDITION DURING NON-WORKING HOURS. SUCH TEMPORARY PARKING SHALL UTILIZE AN ALL WEATHER SURFACE. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THE SAFETY OF PEDESTRIANS AND PROVIDE DETOURS AS NECESSARY DURING ALL CONSTRUCTION. COST OF THIS EFFORT WILL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR TRAFFIC CONTROL ITEMS.
3. THE CONTRACTOR SHALL DEVELOP AN ACCESS MAINTENANCE PLAN IN COORDINATION WITH, AND BASED ON THE REQUIREMENTS OF, THE AFFECTED PROPERTY OWNERS AND TENANTS, AND SUBMIT IT TO THE ENGINEER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. THIS PLAN SHALL DETAIL ALL BARRICADES, RAMPS, SIGNS, AND TEMPORARY MEANS OF ACCESS REQUIRED BY THE PROPERTY OWNERS OR TENANTS. PRIOR TO THE COMMENCING OF ANY WORK WHICH AFFECTS ACCESS TO A PROPERTY, THE ACCESS MAINTENANCE PLAN FOR THAT PROPERTY MUST BE SUBMITTED AND APPROVED BY THE ENGINEER.
4. VERTICAL CUTS OR FILLS GREATER THAN 1 INCH RESULTING FROM CONSTRUCTION OPERATIONS ADJACENT TO TRAFFIC LANES, OR WITHIN THE CLEAR ZONE SHALL BE TEMPORARILY SLOPED AT A MINIMUM OF A 3:1 TAPER OF FILL MATERIAL.
5. CLEAR ZONE SHALL BE IN ACCORDANCE WITH AASHTO'S "ROADSIDE DESIGN GUIDE" LATEST EDITION.
6. UNLESS OTHERWISE PROVIDED IN THE PLANS, EXISTING SIGNS SHALL BE MAINTAINED AND/OR RELOCATED AS NECESSARY DURING CONSTRUCTION. ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY SIGNS SHALL BE MASKED OR REMOVED. THE COST OF MAINTAINING, RELOCATING, OR MASKING EXISTING SIGNS SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE PRICE OF WORK.
7. WHEN CONSTRUCTION TRAFFIC CONTROL SIGNS ARE NOT IN USE, THEY SHALL BE MASKED, TURNED IN SUCH A WAY THAT THEY ARE UNREADABLE, OR REMOVED.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING FEATURES NOT DESIGNATED FOR REMOVAL INCLUDING, BUT NOT LIMITED TO: SIGNAL EQUIPMENT, LANDSCAPING, IRRIGATION SYSTEMS, UTILITIES, FENCES, SIDEWALKS, AND EXISTING SIGNAGE. DAMAGED FEATURES SHALL BE REPLACED "IN KIND" BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL COORDINATE AND COOPERATE FULLY WITH LOCAL AUTHORITIES, UTILITY OWNERS, AND OTHER CONTRACTORS TO ENSURE THAT ADEQUATE AND PROPER TRAFFIC CONTROL IS PROVIDED.
10. THE CONTRACTOR SHALL REPLACE ANY VEHICLE DETECTOR WIRE DAMAGED DURING THE CONSTRUCTION PROCESS UNLESS OTHERWISE INDICATED.

GENERAL SIGNING NOTES

1. THE CONTRACTOR SHALL FURNISH A COMPLETE WRITTEN INVENTORY OF ALL EXISTING SIGNS ON THE PROJECT PRIOR TO ANY SIGNING WORK TAKING PLACE. THIS INVENTORY SHALL INCLUDE LOCATION, STATION, SIZE, COLOR, AND LEGEND SHALL BE SUBMITTED TO THE ENGINEER. NO SIGNING WORK WILL BE ALLOWED UNTIL THIS INVENTORY IS SUBMITTED AND APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
2. THE CITY OF ARVADA SHALL FURNISH ALL SIGNS FOR THIS PROJECT, SIGN PANELS TO BE INSTALL ONLY BY THE CONTRACTOR.
3. REMOVED SIGN PANELS SHALL BE SALVAGED AND RETURNED TO THE CITY, UNLESS SPECIFIED OTHERWISE BY THE ENGINEER.

APPROVED		
City of Arvada, Colorado		
 CITY ENGINEER	10/24/23 DATE	22-TC-01 JOB NUMBER
REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.		

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/5/2023			Sheet Revisions			As Constructed	ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE GENERAL NOTES			Project No.	
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	 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350						Void:	Detailer: S. Hemler				
							Sheet Subset: NOTES		Subset Sheets: 1 of 2		Sheet Number 2	



PUBLIC WORKS
8101 RALSTON ROAD
ARVADA, CO 80002

Plot Date: 10/5/2023 12:01 PM Plotted By: Sarah Hemler
P:\Q-PROJECTS\ACTIVE PROJECTS\174501-ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE PROJECT\800-COMPUTER DESIGN FILES\802-SHEET FILES\NT-001-GENERAL NOTES.DWG

TRAFFIC SIGNAL NOTES

1. TRAFFIC SIGNAL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CITY OF ARVADA ENGINEERING STANDARDS AND SPECIFICATIONS, 2022 EDITION. ITEMS NOT REFERENCED IN THESE DOCUMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE STATE OF COLORADO "STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE STATE OF COLORADO "STANDARD PLANS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE "NATIONAL ELECTRIC CODE", AND ALL LOCAL ORDINANCES AND REGULATIONS THAT APPLY, EXCEPT AS NOTED ON THE PLANS, STANDARDS SPECIAL PROVISIONS, OR PROJECT SPECIAL PROVISIONS.
2. CONDUIT, POLE, PULL BOX AND CONTROLLER CABINET LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL BE VERIFIED BY THE CITY OF ARVADA IN THE FIELD. TRAFFIC SIGNAL POLES AND MAST ARMS SHALL NOT BE ORDERED UNTIL THE EXACT LOCATION OF THE POLE BASES IS FIELD VERIFIED. THE CONTRACTOR SHALL CONTACT THE CITY (720-898-7740) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO STARTING TRAFFIC SIGNAL CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES AND THE PROTECTING OF THESE UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND NOT ALL UTILITIES ARE NECESSARILY SHOWN. THE CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE ENTITIES TO LOCATE UNDERGROUND FACILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE EXACT LOCATION OF EACH UTILITY SHALL BE FIELD VERIFIED BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR AS A RESULT OF THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A METERED ELECTRICAL SERVICE PEDESTAL AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE CITY. POWER SOURCE AT EACH INTERSECTION SHALL BE DETERMINED BY THE CITY AFTER MEETING WITH XCEL ENERGY. THE POWER SOURCE SHALL BE IDENTIFIED ON THE CONSTRUCTION PLANS. POWER INSTALLATION, INCLUDING THE SERVICE PEDESTAL METER, SHALL MEET XCEL ENERGY REQUIREMENTS. PULL SEPARATE WIRE FOR STREET LIGHTS AND TAG "FOR XCEL ENERGY STREET LIGHT" AT BOTTOM OF MAST ARM POLE. CONTRACTOR SHALL EXTEND ELECTRICAL POWER FROM THE POWER SOURCE TO THE NEW CONTROLLER CABINET.
5. PAYMENT SHALL BE MADE ONLY FOR ITEMS IN THE PAY ITEM LIST. ALL OTHER ITEMS TO PROVIDE A FULLY FUNCTIONAL TRAFFIC SIGNAL INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR CONSTRUCTION TO THE CITY WITH THE PERMIT APPLICATION 72 HOURS IN ADVANCE OF CONSTRUCTION. A RIGHT OF WAY WORK PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN.
7. WORKING HOURS SHALL BE IN COMPLIANCE WITH THE CITY OF ARVADA ENGINEERING STANDARDS AND SPECIFICATIONS, 2022 EDITION.
8. THE CONTRACTOR SHALL PROVIDE THE CITY WITH EQUIPMENT SPECIFICATIONS/DESCRIPTIONS AND OBTAIN APPROVALS BEFORE ORDERING THE EQUIPMENT.
9. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT AS-BUILTS AND ANY ADDITIONAL DATA REQUIRED BY THE CITY SHOWING IN DETAIL ALL CONSTRUCTION CHANGES.
10. THE CONTROLLER SHALL BE AN ECONOLITE COBALT ADVANCED TRANSPORTATION CONTROLLER THAT CAN COMMUNICATE WITH THE CITY'S ECONOLITE CENTRACS SYSTEM. THE CONTROLLER CABINET SHALL BE A TS2 TYPE 1 P CABINET AND SHALL BE NATURAL ALUMINUM. THE CONTROLLER CABINET SHALL BE INSTALLED SUCH THAT WITH THE FRONT DOOR OPEN, A TECHNICIAN VIEWS BOTH THE CONTROLLER AND THE INTERSECTION. THE CONTROLLER CABINET SHALL BE MOUNTED ON A FIBERGLASS REINFORCED POLYMER CONCRETE BASE. EMERGENCY SIGNAL CONTROLLER CABINET SHALL BE A POLE-MOUNTED TS2 G CABINET. TRAFFIC SIGNAL CONTROLLERS SHALL BE DELIVERED TO THE CITY FOR INSPECTION AND PROGRAMMING AT LEAST 15 DAYS PRIOR TO INSTALLATION.
11. ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE. ALL OVERHEAD SIGNAL INDICATIONS SHALL HAVE BACKPLATES. BACKPLATES SHALL BE LOUVERED WITH 2-INCH YELLOW RETRORREFLECTIVE BORDER TAPE THAT OUTLINES THE OUTSIDE EDGE OF EACH BACKPLATE. PLACEMENT OF SIGNAL AND PEDESTRIAN HEADS SHALL BE APPROVED BY CITY TRAFFIC PERSONNEL.
12. MAST ARM SIGNAL HEADS SHALL BE MOUNTED APPROXIMATELY LEVEL WITH ONE ANOTHER, WITH A 17 TO 19 FOOT CLEARANCE ABOVE GRADE AT THE HIGHEST PAVEMENT ELEVATION. MAST ARM MOUNTED SIGNAL HEADS SHALL HAVE A MINIMUM 8-FOOT SEPARATION.
13. ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE APPROVED LED, NON-GLARE TYPE. ALL VEHICLE INDICATIONS SHALL BE 12". ALL PEDESTRIAN INDICATIONS SHALL BE 16".
14. ALL SIGNAL HEADS SHALL BE WIRED SEPARATELY FROM SIGNAL HEAD TO HANDHOLE ABOVE GRADE AT THE BASE OF THE SIGNAL POLE WITH NO OVERHEAD SPLICES. A SEPARATE 19-CONDUCTOR CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE HANDHOLE AT EACH POLE WITH NO SPLICES.
15. TRAFFIC SIGNAL INDICATIONS MOUNTED ON MAST ARMS SHALL BE FURNISHED WITH ASTRO-TYPE MOUNTING BRACKETS.

TRAFFIC SIGNAL NOTES (CONTINUED)

16. UNINTERRUPTED POWER SUPPLY (UPS) SHALL BE PROVIDED TO RUN EACH TRAFFIC SIGNAL FOR A MINIMUM OF 2 HOURS IN ALL PHASES AND FLASH UP TO AN ADDITIONAL 3 HOURS.
17. ALL CONDUIT SHALL BE DIRECTIONALLY BORED UNDER EXISTING STREETS UNLESS ANOTHER METHOD IS APPROVED BY THE CITY OF ARVADA. ALL CONDUIT SHALL BE SCHEDULE 80 PVC. ALL CONDUIT SHALL INCLUDE A #12 LOCATE WIRE AND A MULE TAPE PULL LINE. ALL PULL BOXES SHALL BE FIBERGLASS REINFORCED POLYMER CONCRETE, INSTALLED FLUSH WITH THE GROUND.
18. LUMINAIRES SHALL BE LED WITH LIGHT OUTPUT EQUIVALENT TO A 250 WATT HPS AT A 30 FT. MOUNTING HEIGHT UNLESS OTHERWISE APPROVED. LUMINAIRE ORIENTATION SHALL BE INSTALLED AS INDICATED ON THE PLANS. WIRING FOR LUMINAIRES SHALL BE PROVIDED FROM THE POWER SOURCE TO THE END OF THE LUMINAIRE ARM. A BREAKAWAY INLINE FUSE SHALL BE PROVIDED AT THE HAND HOLE ACCESS AT THE BASE OF THE POLE.
19. THE CONTRACTOR SHALL REPLACE ANY DAMAGED LANDSCAPING, INCLUDING TOPSOIL, GRASS, IRRIGATION SYSTEM COMPONENTS, TREES, SHRUBS, GROUND COVERS AND MULCH, TO THE ORIGINAL CONDITION. SOD SHALL MATCH EXISTING.
20. THE CONTRACTOR SHALL ENSURE THAT NO MATERIALS, EQUIPMENT, OR VEHICLES ARE STAGED OR PARKED NEAR WETLAND OR DRAINAGE AREAS. THE CONTRACTOR SHALL REMOVE IN A TIMELY MANNER ALL SEDIMENT, MUD DEBRIS OR OTHER POTENTIAL POLLUTANTS WHICH MAY BE DISCHARGED TO, OR ACCUMULATE IN, THE FLOW LINES AND PUBLIC RIGHT-OF-WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
21. THE SIGNAL SHALL NOT BE TURNED ON OR STARTED IN FLASH UNTIL THE CITY HAS INSPECTED AND APPROVED THE INSTALLATION, AS WELL AS THE APPROPRIATE PAVEMENT MARKINGS ARE IN PLACE, UNLESS APPROVED BY THE CITY.
22. STOP LINE DETECTION SHALL BE BY PRESENCE RADAR DETECTORS (WAVETRONIX SMART SENSOR MATRIX), UNLESS SHOWN OTHERWISE ON PLANS. ADVANCE DETECTION SHALL BE BY ADVANCE RADAR DETECTORS (WAVETRONIX SMART SENSOR ADVANCE).
23. ALL SIGNAL EQUIPMENT NOT SPECIFICALLY IDENTIFIED TO BE SALVAGED OR RELOCATED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
24. ALL SALVAGED SIGNAL EQUIPMENT TO BE REMOVED SHALL BE PROVIDED TO THE CITY OF ARVADA INDIANA SHOPS AT 6701 INDIANA ST., ARVADA, CO. CONTACT THE TRAFFIC ENGINEERING DIVISION (720-898-7740) TO ARRANGE DELIVERY.
25. OPTICOM PREEMPTION SYSTEM SHALL BE INSTALLED FOR PREEMPTING THE DIRECTIONS AS INDICATED ON THE PLANS. THE PREEMPTION SYSTEM SHALL BE COMPATIBLE WITH THE CITY'S EXISTING SYSTEM. OPTICOM WIRE SHALL BE USED FOR THE INSTALLATION.
26. CCTV SHALL BE BOSCH AUTODOME IP STARLIGHT 700i OR EQUAL AS APPROVED BY THE ENGINEER

APPROVED
City of Arvada, Colorado

Jimmy Wolffschlag PE.
CITY ENGINEER

10/24/23
DATE

22-TC-01
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

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Sheet Revisions

Date	Comments	Initials



PUBLIC WORKS
8101 RALSTON ROAD
ARVADA, CO 80002

As Constructed

No Revisions:

Revised:

Void:

ARVADA 86TH PARKWAY SIGNAL
CONNECTIVITY AND UPGRADE
GENERAL NOTES

Designer: J. Lancaster

Detailer: S. Hemler

Sheet Subset: NOTES

Structure
Numbers

Subset Sheets: 2 of 2

Project No.

22-TC-01

Drawing Number NT-002

Sheet Number 3

AD PLANS 10/5/2023

Plot Date: 10/5/2023 12:01 PM Plotted By: Sarah Hemler
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AD PLANS 10/5/2023

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	File Name: SAQ-001 SUMMARY OF APPROXIMATE QUANTITIES.DWG			Date	Comments	Initials		No Revisions:				22-TC-01
	Horiz. Scale: N/A Vert. Scale: N/A							Revised:	Designer: J. Lancaster	Structure Numbers		Drawing Number SAQ-001
	 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350							Void:	Detailer: S. Hemler			Sheet Number 4
								Sheet Subset: SAQ	Subset Sheets: 1 of 1			

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Date	Comments	Initials



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8101 RALSTON ROAD
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As Constructed		ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE TABULATIONS		Project No.
No Revisions:		Designer: J. Lancaster		22-TC-01
Revised:		Detailer: S. Hemler	Structure Numbers	Drawing Number TAB-001
Void:		Sheet Subset: TABS	Subset Sheets: 1 of 1	Sheet Number 5

TABULATION OF SIGNAL ITEMS

INTERSECTION	12 INCH LED (BALL)	MODIFY SIGNAL FACE (REFLECTIVE STRIPES)	TRAFFIC SIGNAL FACE (12-12-12)	TRAFFIC SIGNAL FACE (12-12-12-12)	TRAFFIC SIGNAL CONTROLLER CABINET	PEDESTRIAN PUSH BUTTON	FIRE PREEMPTION UNIT	MICROWAVE VEHICLE RADAR DETECTOR	RESET TRAFFIC SIGNAL CONTROLLER	TRAFFIC SIGNAL CONTROLLER	CLOSED CIRCUIT TELEVISION (TRAFFIC SURVEILLANCE)	SIGN PANEL (CLASS I) (INSTALL ONLY)	TYPE 4 PULL BOX (24x36x24)	3 INCH CONDUIT	2 INCH CONDUIT	REMARKS
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	
88TH AVE. & INDEPENDENCE WY.	24	4	10		1	8		6		1	1	7	1	20	32	Conduit for signal cabinet replacement included
86TH PKWY. & SIMMS ST.	42	7		2		6		6		1	1	6			10	
86TH PKWY. & ALKIRE ST.	24	4	3	8	1	8		6	1		1	8		20	20	Conduit for signal cabinet replacement included
86TH PKWY. & FIVE PARKS DR.	36	8		4		8	2	6			1	6	1		185	Bored Conduit
87TH PKWY. & INDIANA ST.						2					1				50	Bored Conduit
90TH AVE./CANDELAS PKWY. & INDIANA ST.						8					1				15	
91ST PL. & INDIANA ST.											1				14	
JOYCE ST. & INDIANA ST.											1					
TOTALS	126	23	13	14	2	40	2	24	1	2	8	27	2	40	326	

TABULATION OF TEMPORARY TRAFFIC CONTROL SIGNING

SIGN	DESCRIPTION	DIMENSION	PANEL SIZE EACH	
			A	B
W20-1	ROAD WORK AHEAD	36 x 36		4
G20-2	END ROAD WORK	36 x 18	4	
G20-5aP	WORK ZONE PLAQUE	24 x 18	4	
R2-1	SPEED LIMIT - 30 MPH	36 x 48	4	
W20-7	FLAGGER (SYMBOL)	36 x 36		2
W20-5L	LEFT LANE CLOSED	36 x 36		2
W20-5R	RIGHT LANE CLOSED	36 x 36		2
W4-2R	RIGHT LANE MERGE	36 x 36		2
W4-2L	LEFT LANE MERGE	36 x 36		2
G20-10	XYZ CONSTRUCTION THANKS YOU	48 x 48	4	
TOTALS			16	14

TABULATION OF TRAFFIC CONTROL DEVICES

ITEM	DESCRIPTION	UNIT	QUANTITY
630-00000	FLAGGING	HOURL	320
630-00003	UNIFORMED TRAFFIC CONTROL	HOURL	32
630-00007	TRAFFIC CONTROL INSPECTION	DAY	4
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	40
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	16
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	14
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	4
630-80356	ADVANCE WARNING SEQUENCING ARROW PANEL (A TYPE)	EACH	2
630-80380	TRAFFIC CONE	EACH	50

APPROVED
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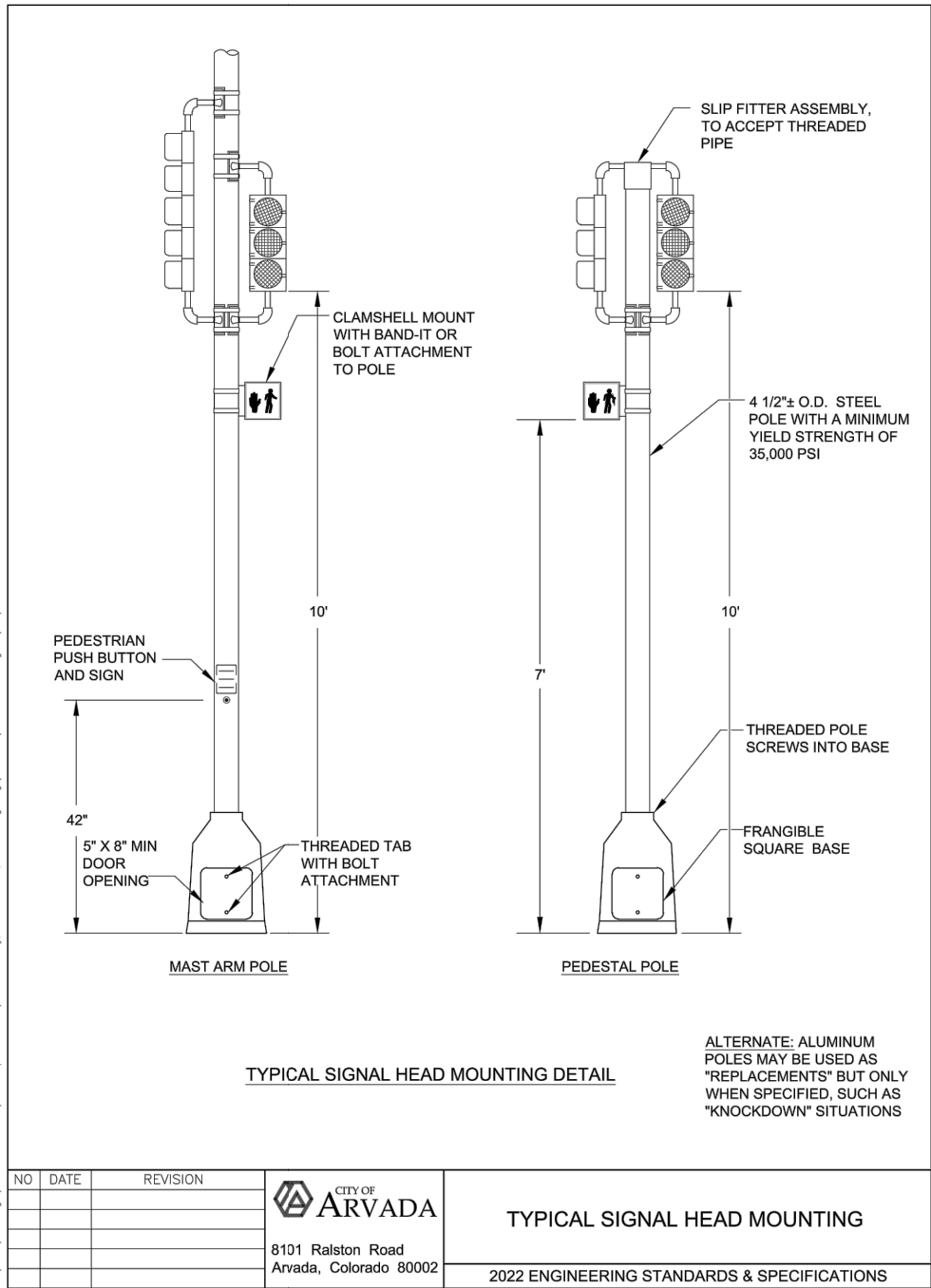
REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

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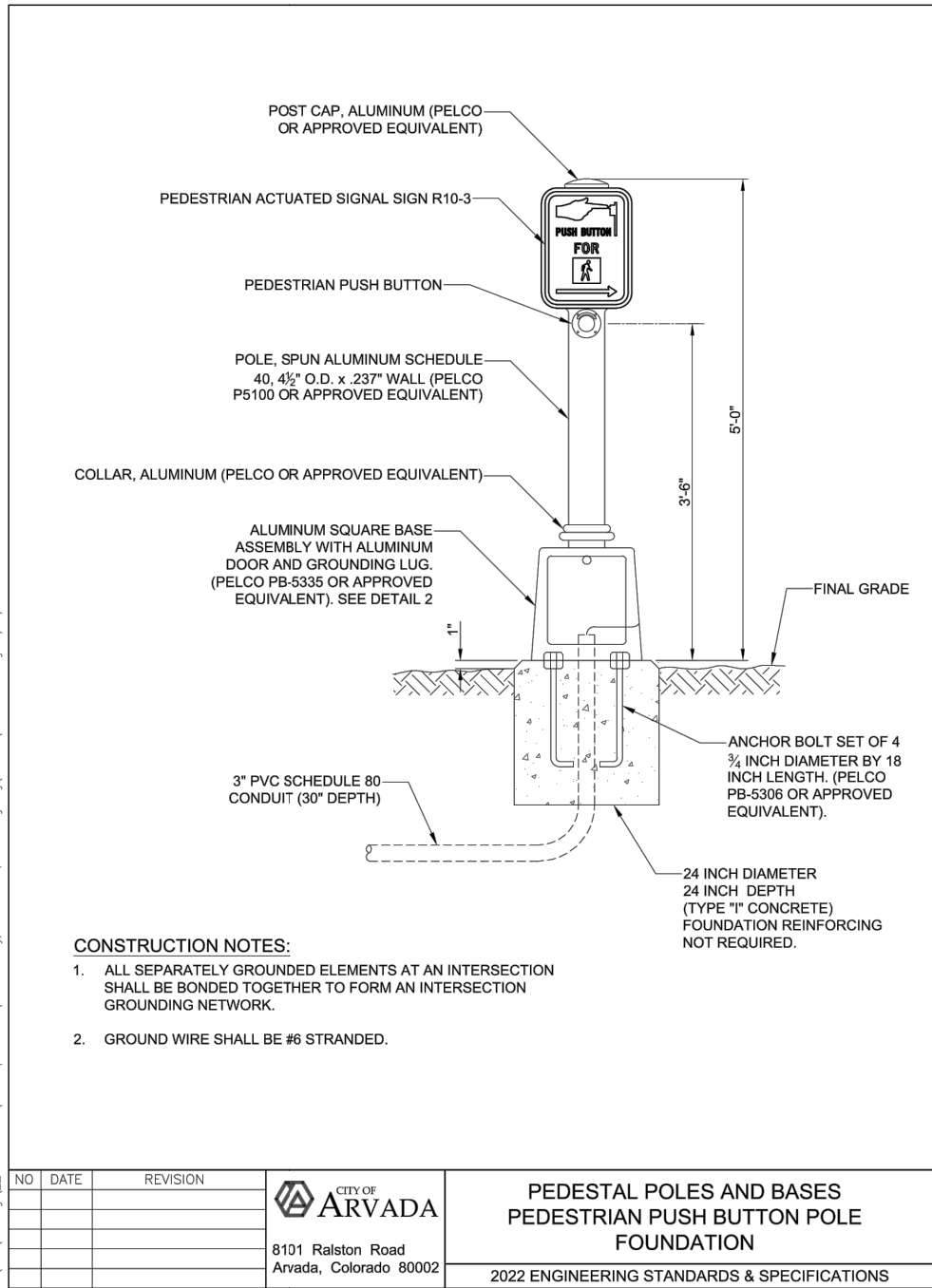
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700-TS-15

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700-TS-21

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File Name: DET-001 DETAILS.DWG	
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Revised:
Void:

ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE DETAILS		
Designer: J. Lancaster	Structure Numbers	
Detailer: S. Hemler		
Sheet Subset: DETAIL	Subset Sheets: 1 of 2	

Project No.
22-TC-01
Drawing Number DET-001
Sheet Number 6

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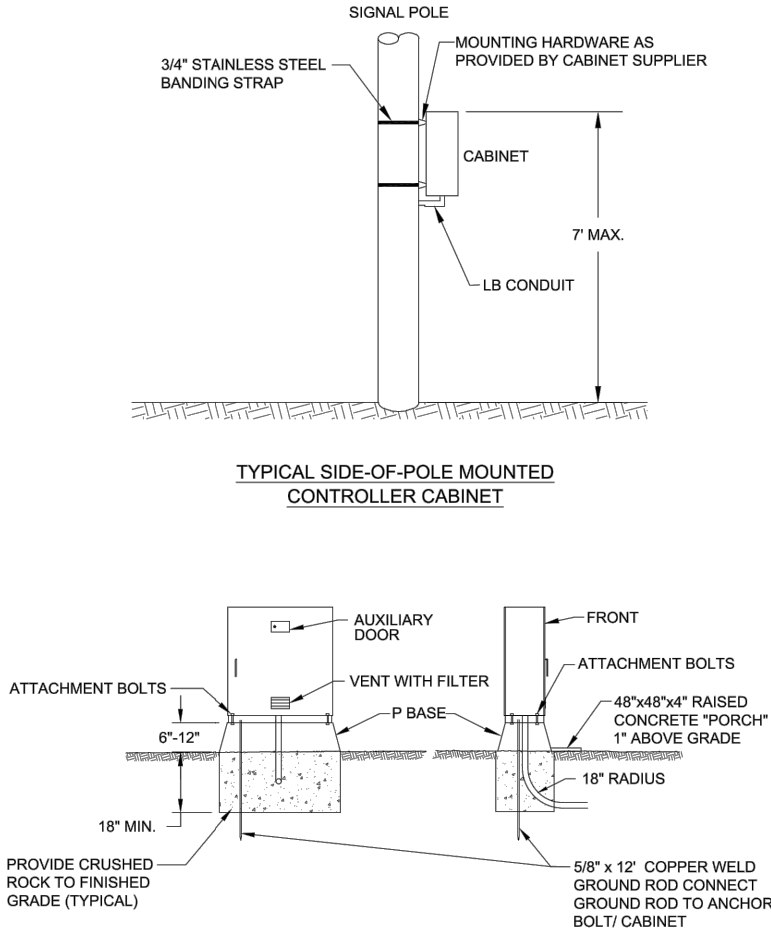
ARVADA 86TH PARKWAY SIGNAL
CONNECTIVITY AND UPGRADE
DETAILS

Designer: J. Lancaster
Detailer: S. Hemler
Sheet Subset: DETAIL

Structure Numbers
Subset Sheets: 2 of 2

Project No.
22-TC-01
Drawing Number DET-002
Sheet Number 7

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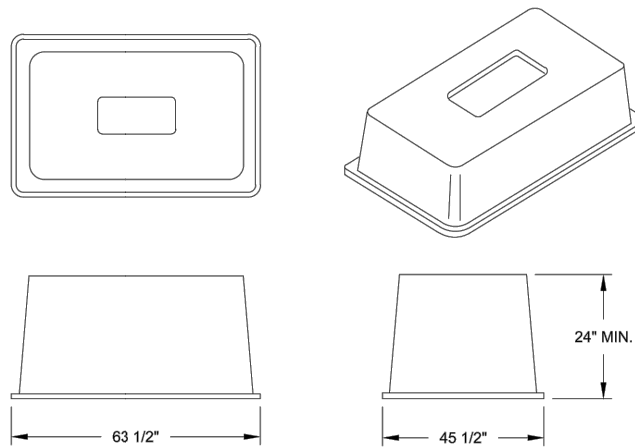


NO	DATE	REVISION	 CITY OF ARVADA 8101 Ralston Road Arvada, Colorado 80002	CONTROLLER BASE AND CABINET
				2022 ENGINEERING STANDARDS & SPECIFICATIONS

Sht 1 of 2

700-TS-22

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NEMA CABINET BASE (TYPE "P")

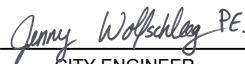
NO	DATE	REVISION	 CITY OF ARVADA 8101 Ralston Road Arvada, Colorado 80002	CONTROLLER BASE AND CABINET
				2022 ENGINEERING STANDARDS & SPECIFICATIONS

Sht 2 of 2

700-TS-23

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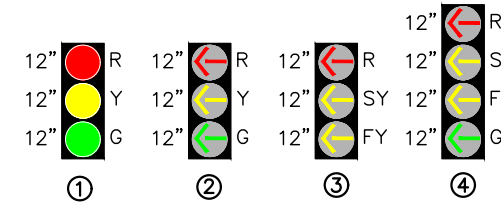
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SIGNAL EQUIPMENT LEGEND

- PROPOSED
- CONTROLLER CABINET
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - CCTV CAMERA

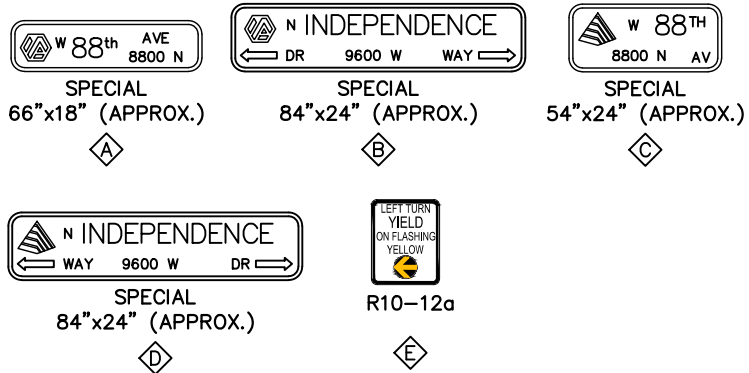
- EXISTING
- PULL BOX (24"x36"x18")
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - MICROWAVE DETECTION
 - LUMINAIRE
 - POLE AND MAST ARM

- Ⓐ INSTALL REFLECTIVE STRIPES
- Ⓑ REPLACE EXISTING LED VEHICLE SIGNAL DISPLAYS



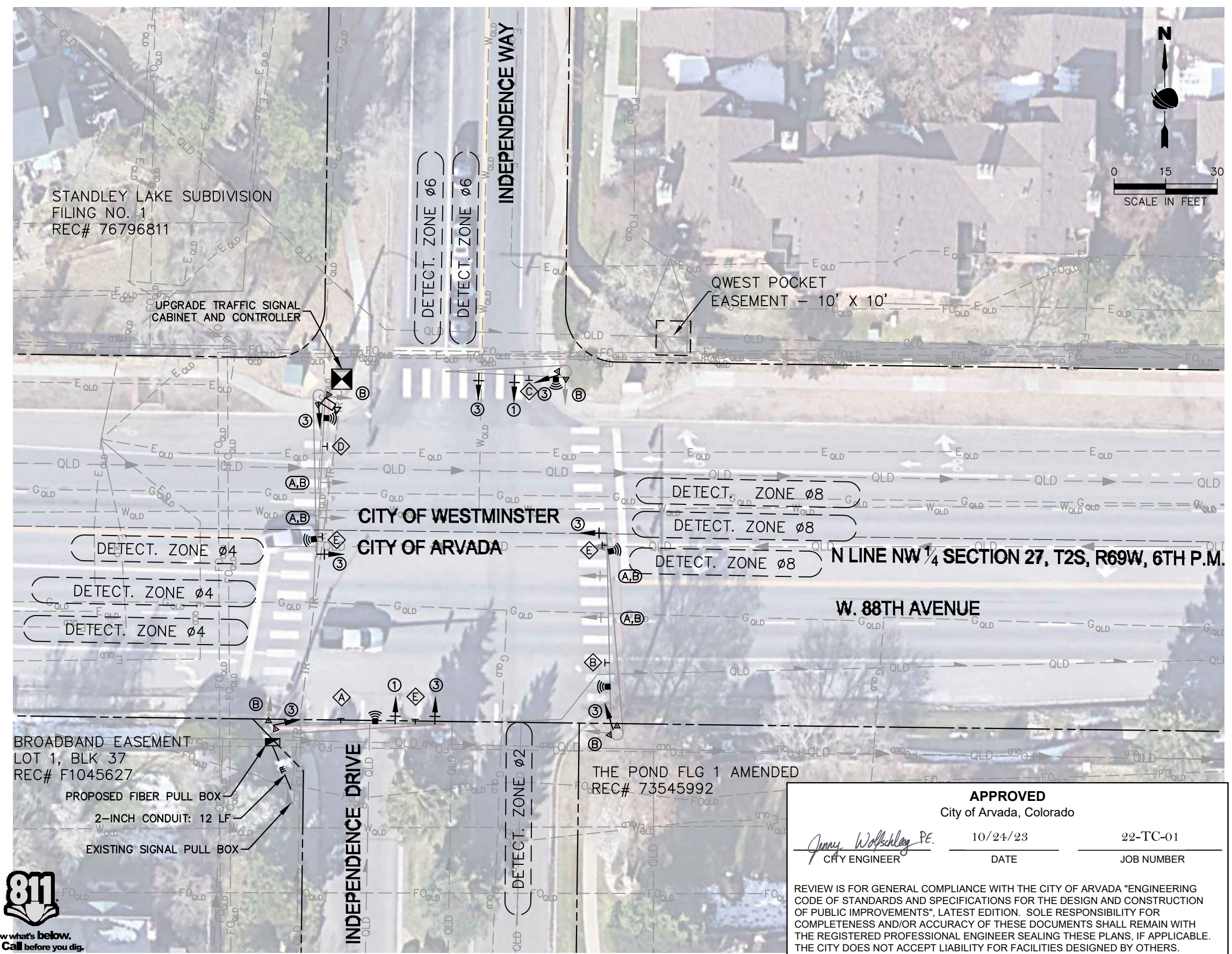
PROPOSED PHASING

- ⌀1 - Southbound Left Turn
- ⌀2 - Northbound
- ⌀3 - Westbound Left Turn
- ⌀4 - Eastbound
- ⌀5 - Northbound Left Turn
- ⌀6 - Southbound
- ⌀7 - Eastbound Left Turn
- ⌀8 - Westbound



Advanced detection zones for 88th Ave. shall be 285 feet back from the stop line.

Wiring (LS) includes removal and replacement of the wiring from each of the signal poles to the cabinet at this intersection.



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Jimmy Wolffschlegel PE. 10/24/23 22-TC-01
CITY ENGINEER DATE JOB NUMBER

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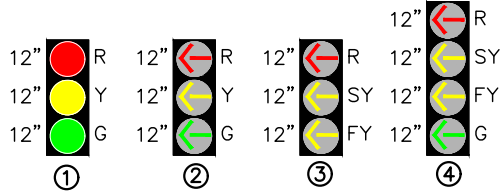
All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/5/2023	Sheet Revisions			CITY OF ARVADA PUBLIC WORKS 8101 RALSTON ROAD ARVADA, CO 80002	As Constructed No Revisions: Revised: Void:	ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE PLAN SHEET		Project No. 22-TC-01 Drawing Number PLAN-001 Sheet Number 8	
	File Name: PLAN-001 PLAN SHEET 1.DWG	Date	Comments	Initials						
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AD PLANS 10/5/2023

SIGNAL EQUIPMENT LEGEND

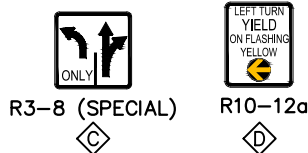
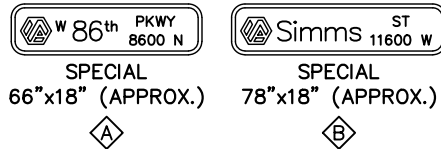
- PROPOSED
- CONTROLLER CABINET
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - CCTV CAMERA
 - FIRE PREEMPTION UNIT
 - MAST ARM MOUNTED SIGN
 - PULL BOX (24"x36"x18")
- EXISTING
- PULL BOX (24"x36"x18")
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - LUMINAIRE
 - POLE AND MAST ARM
 - MAST ARM MOUNTED SIGN



- (A) INSTALL REFLECTIVE STRIPES ON SIGNAL HEAD
- (B) REPLACE EXISTING LED VEHICLE SIGNAL DISPLAYS

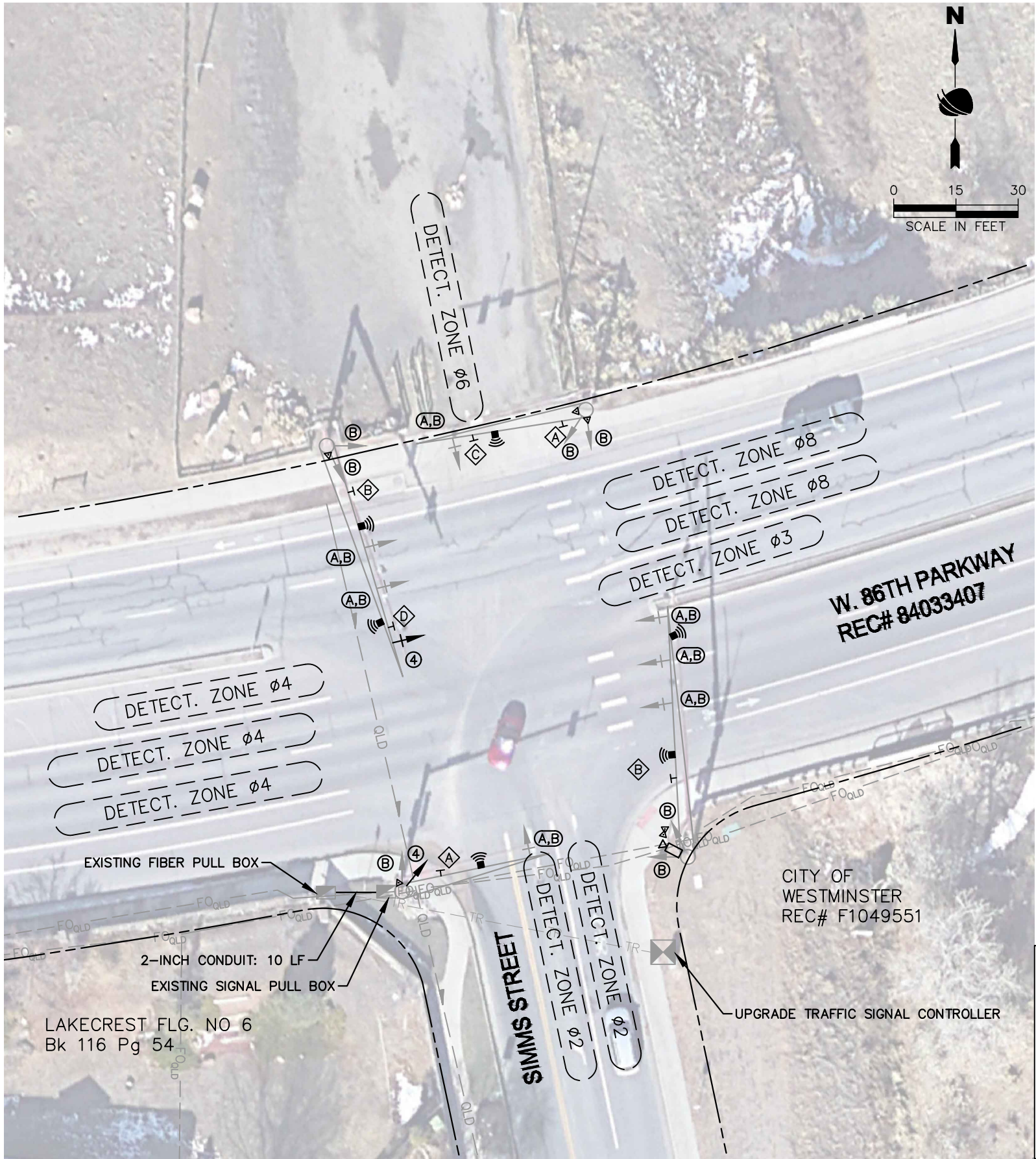
PROPOSED PHASING

- Ø1 – Southbound Left Turn
Ø2 – Northbound
Ø3 – Westbound Left Turn
Ø4 – Eastbound
Ø5 – Northbound Left Turn
Ø6 – Southbound
Ø7 – Eastbound Left Turn
Ø8 – Westbound



Advanced detection zones for 86th Pkwy. shall be 325 feet back from the stop line.

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City of Arvada, Colorado

Jimmy Wolffschley PE.
CITY ENGINEER

10/24/23

DATE

22-TC-01

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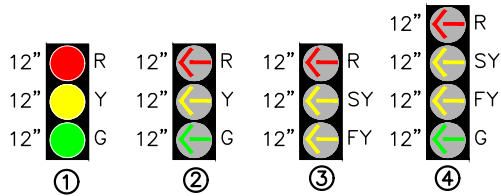
As Constructed
No Revisions:
Revised:
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ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE PLAN SHEET	
Designer: J. Lancaster	Structure Numbers
Detailer: H. Pugh	
Sheet Subset: PLAN	Subset Sheets: 2 of 8

Project No.
22-TC-01
Drawing Number PLAN-002
Sheet Number 9

SIGNAL EQUIPMENT LEGEND

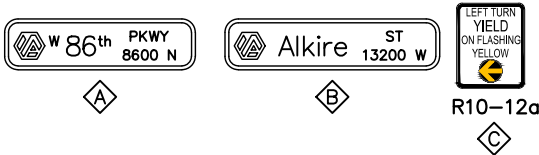
- PROPOSED
- CONTROLLER CABINET
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - CCTV CAMERA
 - FIRE PREEMPTION UNIT
 - MAST ARM MOUNTED SIGN
 - PULL BOX (24"x36"x18")
- EXISTING
- PULL BOX (24"x36"x18")
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - LUMINAIRE
 - POLE AND MAST ARM
 - MAST ARM MOUNTED SIGN



- (A) INSTALL REFLECTIVE STRIPES
- (B) REPLACE EXISTING LED VEHICLE SIGNAL DISPLAYS

PROPOSED PHASING

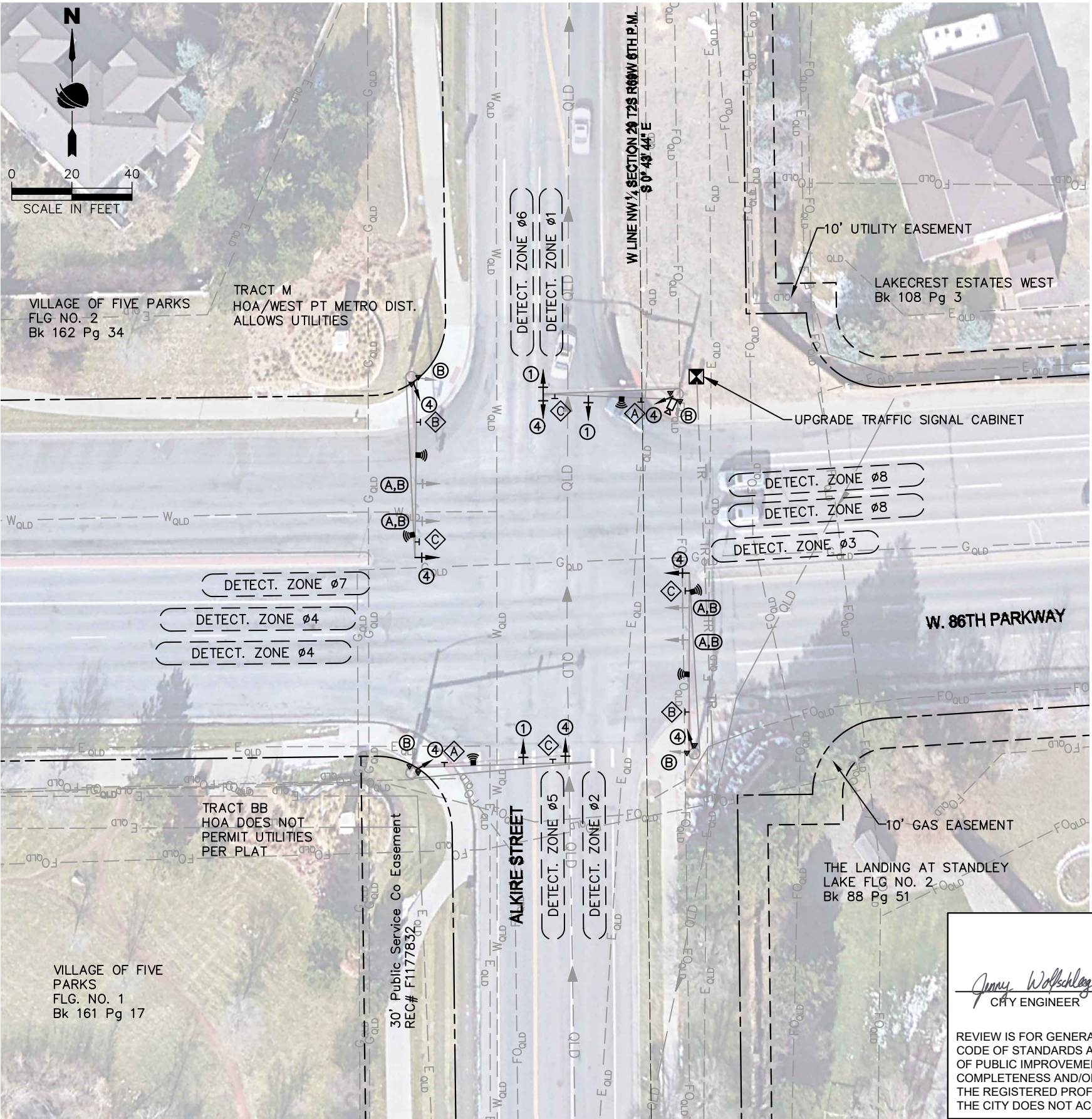
- Ø1 – Southbound Left Turn
- Ø2 – Northbound
- Ø3 – Westbound Left Turn
- Ø4 – Eastbound
- Ø5 – Northbound Left Turn
- Ø6 – Southbound
- Ø7 – Eastbound Left Turn
- Ø8 – Westbound



Advanced detection zones for 86th Pkwy. shall be 325 feet back from the stop line.



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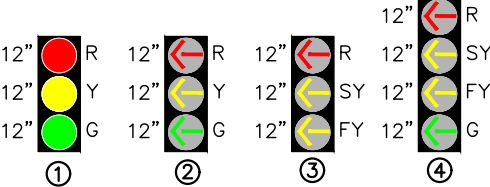
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No Revisions:		Designer: J. Lancaster Detailer: H. Pugh		22-TC-01
Revised:		Structure Numbers		Drawing Number PLAN-003
Void:		Sheet Subset: PLAN	Subset Sheets: 3 of 8	Sheet Number 10

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SIGNAL EQUIPMENT LEGEND

- PROPOSED
- CONTROLLER CABINET
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - CCTV CAMERA
 - FIRE PREEMPTION UNIT
 - MAST ARM MOUNTED SIGN
 - PULL BOX (24"x36"x18")
- EXISTING
- PULL BOX (24"x36"x18")
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - LUMINAIRE
 - POLE AND MAST ARM
 - MAST ARM MOUNTED SIGN



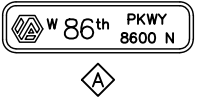
- Ⓐ INSTALL REFLECTIVE STRIPES
- Ⓑ REPLACE EXISTING LED VEHICLE SIGNAL DISPLAYS

PROPOSED PHASING

- Ø1 – Southbound Left Turn
- Ø2 – Northbound
- Ø3 – Westbound Left Turn
- Ø4 – Eastbound
- Ø5 – Northbound Left Turn
- Ø6 – Southbound
- Ø7 – Eastbound Left Turn
- Ø8 – Westbound

PREEMPTION PHASING

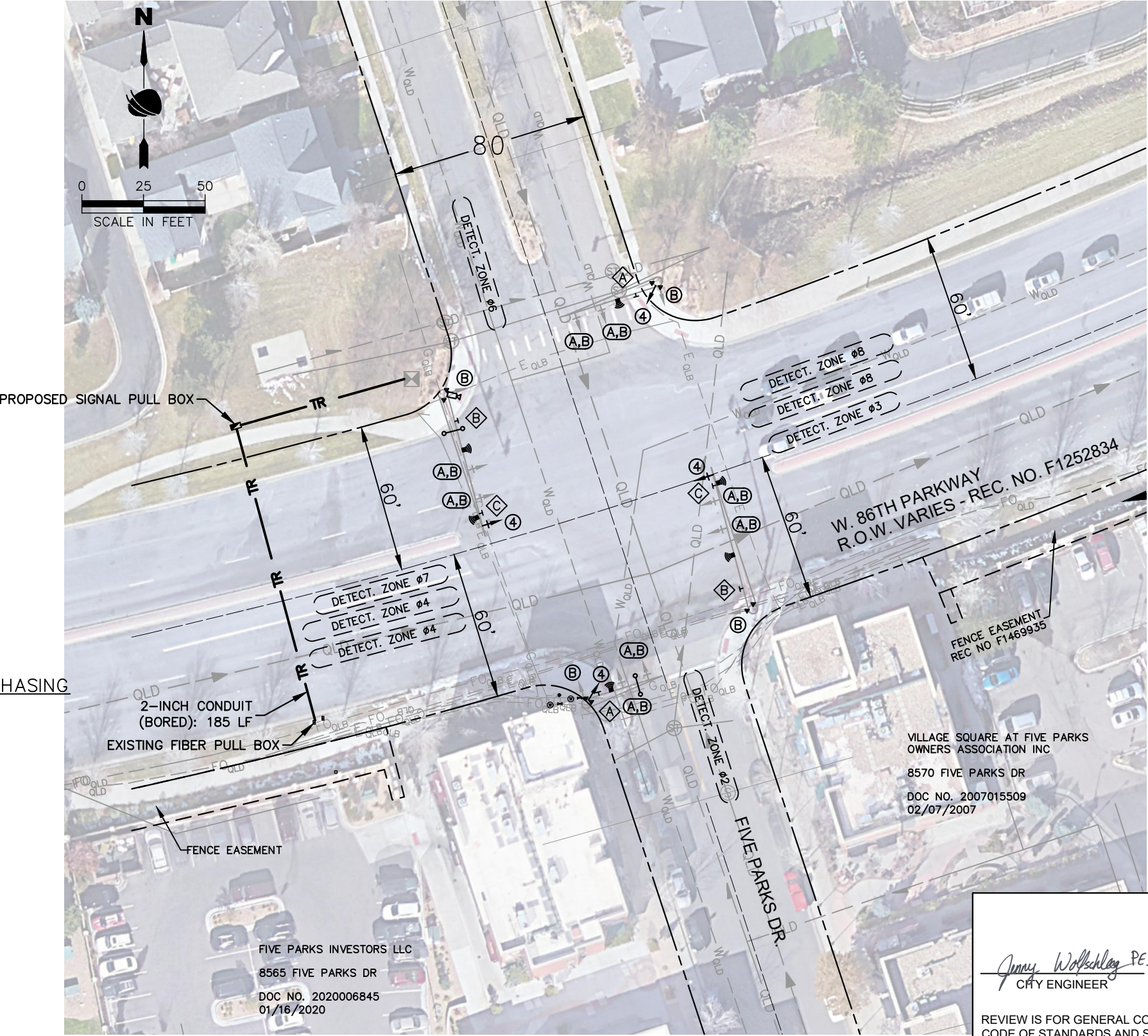
- E.V. A – Ø4,7
- E.V. B – Ø3,8
- E.V. C – Ø2
- E.V. D – Ø6



Advanced detection zones for 86th Pkwy. shall be 325 feet back from the stop line.



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ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE PLAN SHEET		
Designer: J. Lancaster	Structure Numbers	
Detailer: H. Pugh		
Sheet Subset: PLAN	Subset Sheets: 4 of 8	

Project No.
22-TC-01
Drawing Number PLAN-004
Sheet Number 11

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SIGNAL EQUIPMENT LEGEND

PROPOSED

- CONTROLLER CABINET
- PEDESTRIAN PUSH BUTTON AND SIGN
- SIGNAL FACE WITH BACKPLATE
- SIGNAL FACE WITHOUT BACKPLATE
- UNDERGROUND CONDUIT
- MICROWAVE RADAR DETECTOR
- MICROWAVE DETECTION
- CCTV CAMERA
- FIRE PREEMPTION UNIT
- MAST ARM MOUNTED SIGN
- PULL BOX (24"x36"x18")

EXISTING

- PULL BOX (24"x36"x18")
- PEDESTRIAN PUSH BUTTON AND SIGN
- SIGNAL FACE WITH BACKPLATE
- SIGNAL FACE WITHOUT BACKPLATE
- UNDERGROUND CONDUIT
- MICROWAVE RADAR DETECTOR
- MICROWAVE DETECTION
- LUMINAIRE
- POLE AND MAST ARM
- MAST ARM MOUNTED SIGN

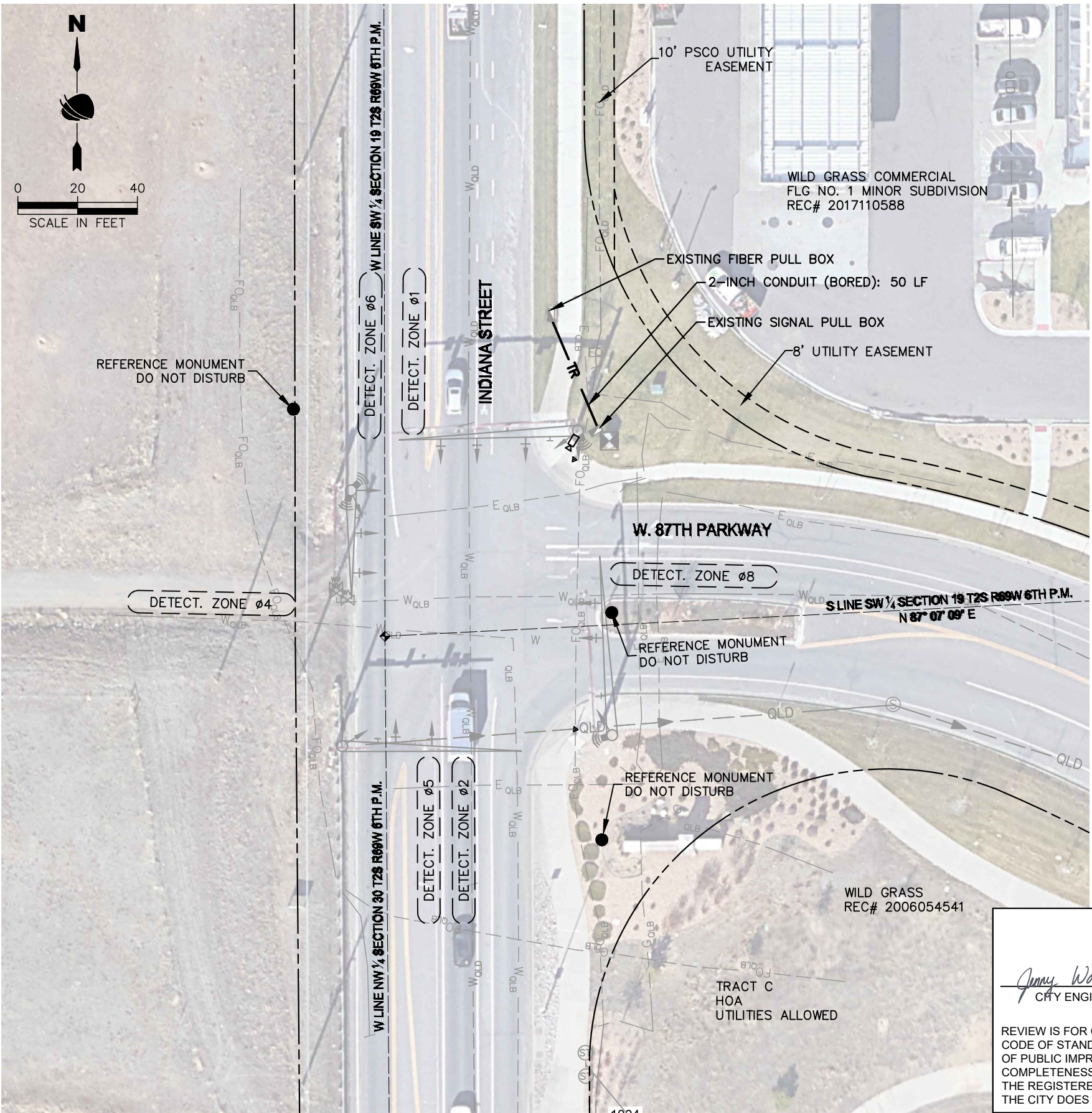
PROPOSED PHASING

- ø1 - Southbound Left Turn
- ø2 - Northbound
- ø3 - Westbound Left Turn
- ø4 - Eastbound
- ø5 - Northbound Left Turn
- ø6 - Southbound
- ø7 - Eastbound Left Turn
- ø8 - Westbound

Advanced detection zones for Indiana St. shall be 405 feet back from the stop line.



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Horiz. Scale: As Noted Vert. Scale: N/A
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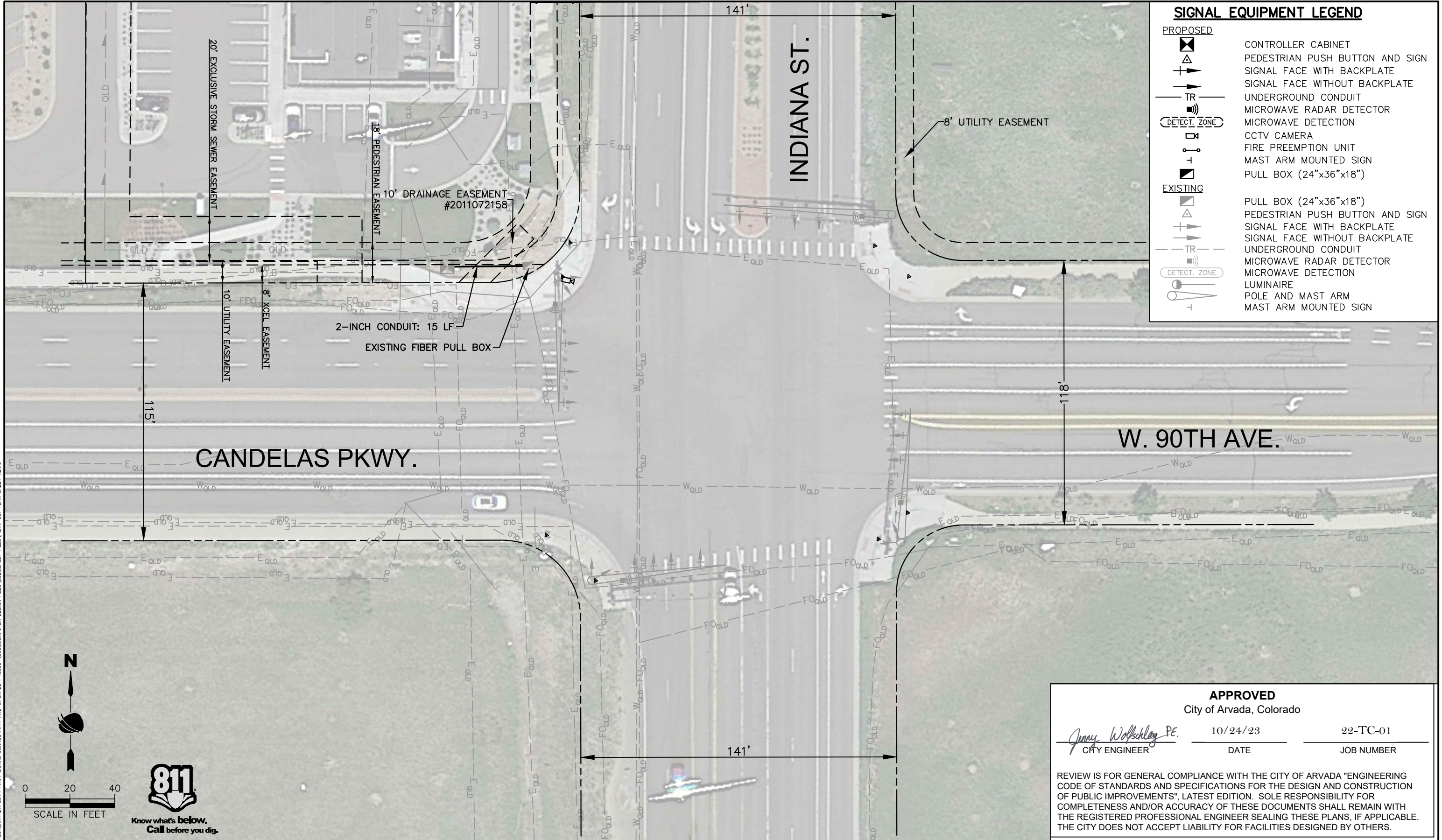
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ARVADA, CO 80002

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No Revisions:		Designer: J. Lancaster		22-TC-01
Revised:		Detailer: H. Pugh		Drawing Number PLAN-005
Void:		Sheet Subset: PLAN		Sheet Number 12
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		Subset Sheets: 5 of 8		

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SIGNAL EQUIPMENT LEGEND	
PROPOSED	
	CONTROLLER CABINET
	PEDESTRIAN PUSH BUTTON AND SIGN
	SIGNAL FACE WITH BACKPLATE
	SIGNAL FACE WITHOUT BACKPLATE
	UNDERGROUND CONDUIT
	MICROWAVE RADAR DETECTOR
	MICROWAVE DETECTION
	CCTV CAMERA
	FIRE PREEMPTION UNIT
	MAST ARM MOUNTED SIGN
	PULL BOX (24"x36"x18")
EXISTING	
	PULL BOX (24"x36"x18")
	PEDESTRIAN PUSH BUTTON AND SIGN
	SIGNAL FACE WITH BACKPLATE
	SIGNAL FACE WITHOUT BACKPLATE
	UNDERGROUND CONDUIT
	MICROWAVE RADAR DETECTOR
	MICROWAVE DETECTION
	LUMINAIRE
	POLE AND MAST ARM
	MAST ARM MOUNTED SIGN

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City of Arvada, Colorado

CITY ENGINEER

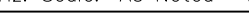
10/24/23

DATE

22-TC-01

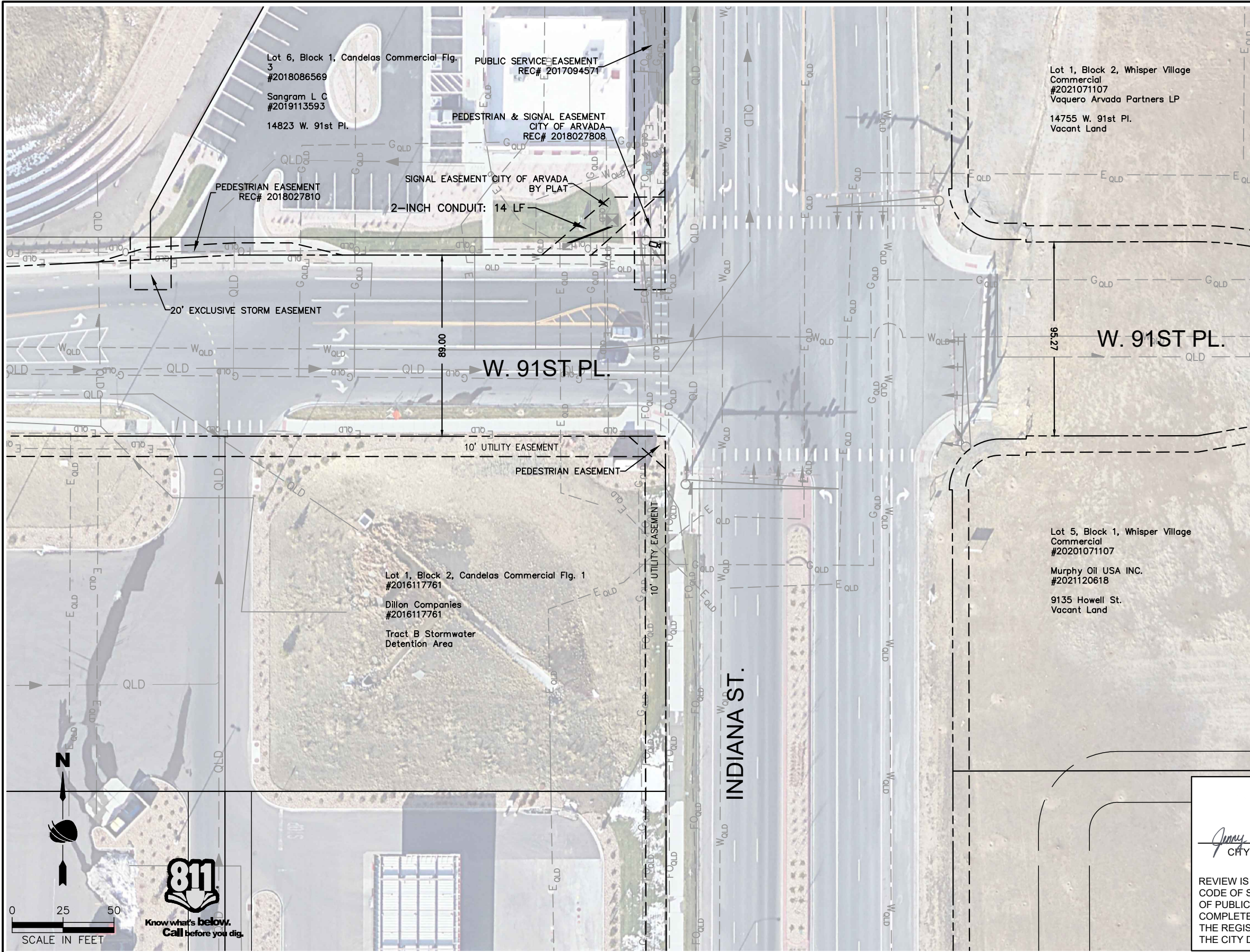
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

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	File Name: PLAN-001 PLAN SHEET 1.DWG		Date	Comments	Initials		No Revisions:		22-TC-01				
	Horiz. Scale: As Noted Vert. Scale: N/A						Revised:		Designer: J. Lancaster	Structure Numbers	Drawing Number PLAN-006		
	RockSol Consulting Group, Inc. 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350						Void:		Detailer: H. Pugh	Sheet Subset: PLAN	Subset Sheets: 6 of 8	Sheet Number 13	

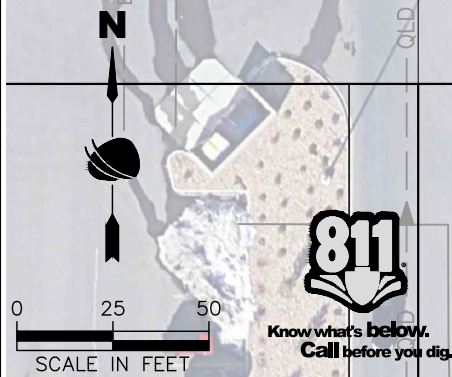
AD PLANS 10/5/2023

Plot Date: 10/5/2023 12:53 PM Plotted By: Sarah Hemler
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SIGNAL EQUIPMENT LEGEND

- PROPOSED**
- CONTROLLER CABINET
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - CCTV CAMERA
 - FIRE PREEMPTION UNIT
 - MAST ARM MOUNTED SIGN
 - PULL BOX (24"x36"x18")
- EXISTING**
- PULL BOX (24"x36"x18")
 - PEDESTRIAN PUSH BUTTON AND SIGN
 - SIGNAL FACE WITH BACKPLATE
 - SIGNAL FACE WITHOUT BACKPLATE
 - UNDERGROUND CONDUIT
 - MICROWAVE RADAR DETECTOR
 - MICROWAVE DETECTION
 - LUMINAIRE
 - POLE AND MAST ARM
 - MAST ARM MOUNTED SIGN

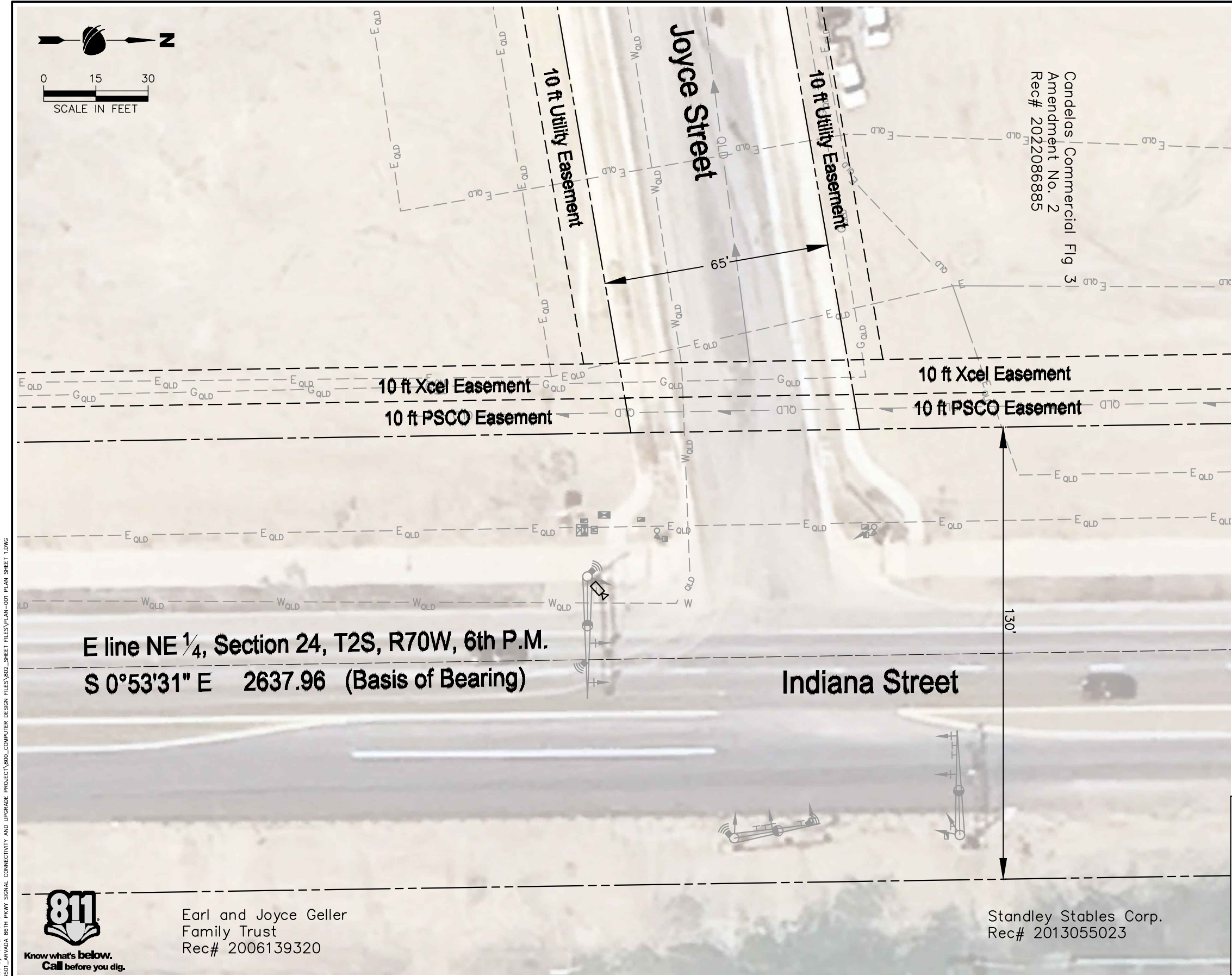
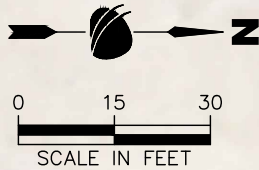


APPROVED
City of Arvada, Colorado

Jimmy Wolffschlag PE. 10/24/23 22-TC-01
CITY ENGINEER DATE JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL ENGINEER SEALING THESE PLANS, IF APPLICABLE. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

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	File Name: PLAN-001 PLAN SHEET 1.DWG		Date	Comments	Initials		No Revisions:					22-TC-01	
	Horiz. Scale: As Noted Vert. Scale: N/A						Revised:		Designer: J. Lancaster	Structure Numbers	Drawing Number PLAN-007		
	RockSol Consulting Group, Inc. 12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350						Void:		Detailer: H. Pugh				
								Sheet Subset: PLAN		Subset Sheets: 7 of 8		Sheet Number 14	



SIGNAL EQUIPMENT LEGEND

- PROPOSED

 - [Symbol] CONTROLLER CABINET
 - [Symbol] PEDESTRIAN PUSH BUTTON AND SIGN
 - [Symbol] SIGNAL FACE WITH BACKPLATE
 - [Symbol] SIGNAL FACE WITHOUT BACKPLATE
 - [Symbol] UNDERGROUND CONDUIT
 - [Symbol] MICROWAVE RADAR DETECTOR
 - [Symbol] MICROWAVE DETECTION
 - [Symbol] CCTV CAMERA
 - [Symbol] FIRE PREEMPTION UNIT
 - [Symbol] MAST ARM MOUNTED SIGN
 - [Symbol] PULL BOX (24"x36"x18")
- EXISTING

 - [Symbol] PULL BOX (24"x36"x18")
 - [Symbol] PEDESTRIAN PUSH BUTTON AND SIGN
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 - [Symbol] MICROWAVE DETECTION
 - [Symbol] LUMINAIRE
 - [Symbol] POLE AND MAST ARM
 - [Symbol] MAST ARM MOUNTED SIGN



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Earl and Joyce Geller
Family Trust
Rec# 2006139320

Standley Stables Corp.
Rec# 2013055023

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Jimmy Wolfshley PE.
CITY ENGINEER

10/24/23
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File Name: PLAN-001 PLAN SHEET 1.DWG

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PUBLIC WORKS
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ARVADA, CO 80002

As Constructed		ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE PLAN SHEET		Project No.
No Revisions:		Designer: J. Lancaster		22-TC-01
Revised:		Detailer: H. Pugh	Structure Numbers	Drawing Number PLAN-008
Void:		Sheet Subset: PLAN	Subset Sheets: 8 of 8	Sheet Number 15

Plot Date: 10/5/2023 12:53 PM Plotted By: Sarah Hemler
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AD PLANS 10/5/2023

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PROJECT LIST OF UTILITY CONTACTS						
NO.	COMPANY	ABBREVIATION	UTILITY TYPE	CONTACT NAME	EMAIL	PHONE
1	City of Arvada	ARVD	Fiber Optic	Rick Assmus	rick@arvada.org	720-898-7523
2	City of Arvada	ARVD	Water, Sewer, and Irrigation	Mary Stahl	mstahl@arvada.org	720-898-7643
3	CenturyLink	CNLK	Telephone & Fiber	Kari Rozsa	kari.rozsa1@lumen.com	970-481-4313
4	Comcast	CMCT	CATV & Fiber	Ryan Andersen	ryan_andersen@comcast.com	720-219-8186
5	Verizon Communications	MCI	Fiber Optic	Lane Grady	lane.grady@verizon.com	303-827-9756
6	West Point Metro District	WSTPNT	Irrigation	Not Available	Not Available	303-495-2860
7	XCEL Energy	XCEL	Electric & Gas	Pat Quinn	patrick.s.quinn@xcelenergy.com	303-356-8878
8	Zayo	ZAYO	Fiber Optic	Eric Boe	eric.boe@zayo.com	719-649-3675
9	City of Westminster	WESTM	Water & Sewer	Robert Donovan	bdonovan@cityofwestminster.us	303-658-2564
10	TDS	TDS	Fiber Optic	Not Available	Not Available	Not Available

UTILITY LEGEND

QUALITY LEVEL B

-----E_{QLB}----- EXISTING ELECTRIC
-----FO_{QLB}----- EXISTING FIBER OPTIC
-----G_{QLB}----- EXISTING GAS
-----W_{QLB}----- EXISTING WATER

QUALITY LEVEL D

-----E_{QLD}----- EXISTING ELECTRIC
-----FO_{QLD}----- EXISTING FIBER OPTIC
-----G_{QLD}----- EXISTING GAS
-----QLD----- EXISTING SANITARY
-----QLD----- EXISTING STORM
-----W_{QLD}----- EXISTING WATER

SYMBOLOLOGY

 FIBER OPTIC VAULT
 WATER VALVE
 SANITARY MANHOLE
 STORM MANHOLE

SURVEY NOTES:

- This map does not represent a boundary survey or title search preformed by Boulder Land Consultants, Inc. or the undersigned. There may exist easements and/or other encumbrances affecting the subject property that are not shown hereon. Platted easements are being shown as a courtesy.
- Location for the information shown hereon is based on State Plane coordinates Colorado North Zone 501, NAD 83 (NSRS 2011). All dimensions are in U.S. Survey Feet (Grid). No bearings are shown heron however the coordinate system establishes the bearings to be grid bearings of the aforementioned system.
- Dimensions shown hereon are in U.S. Survey Feet.
- Project benchmark for vertical information shown hereon is control point "1004", a 3/8" rebar with a 1" orange plastic cap stamped "BLC, INC CONTROL POINT" with a GPS derived elevation as shown hereon. This elevation was verified with an NGS 'Ware GPS' (PID KK0655) on located at the University of Colorado East Campus, with a reported elevation of 5901.97 feet. Site benchmarks are indicated hereon as control points.
- The locations of underground utilities were based upon visible surface evidence, painted surface markings dileneated by Kinetic Industry, Inc. (marked July 27, 2023). As stated in Table A Item 11 of the 2021 ALTA/NSPS Minimum Standard Detail Requirements "Lacking excavation, the exact location of underground (utility) features cannot be accurately, completely or reliability depicted."

Invert elevations on storm and sanitary inlets and/or manholes are the best estimated and are rounded to the nearest 0.05 foot. Manhole and inlet flowlines are not always apparent and/or readily accessible. OSHA compliant manhole entry may be necessary to procure exact invert elevations.

- Date of field work: August 2023
- In accordance with C.R.S. 13-80-105:
Notice: according to Colorado law you must commence and legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years form the date of the certification shown hereon.

APPROVED

City of Arvada, Colorado


CITY ENGINEER

10/24/23

DATE

22-TC-01

JOB NUMBER

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ARVADA 86TH PARKWAY SIGNAL
CONNECTIVITY AND UPGRADE
UTILITY GENERAL NOTES

Designer: J. Lancaster

Detailer: S. Hemler

Sheet Subset: UTILITY

Structure

Numbers

Subset Sheets: 1 of 3

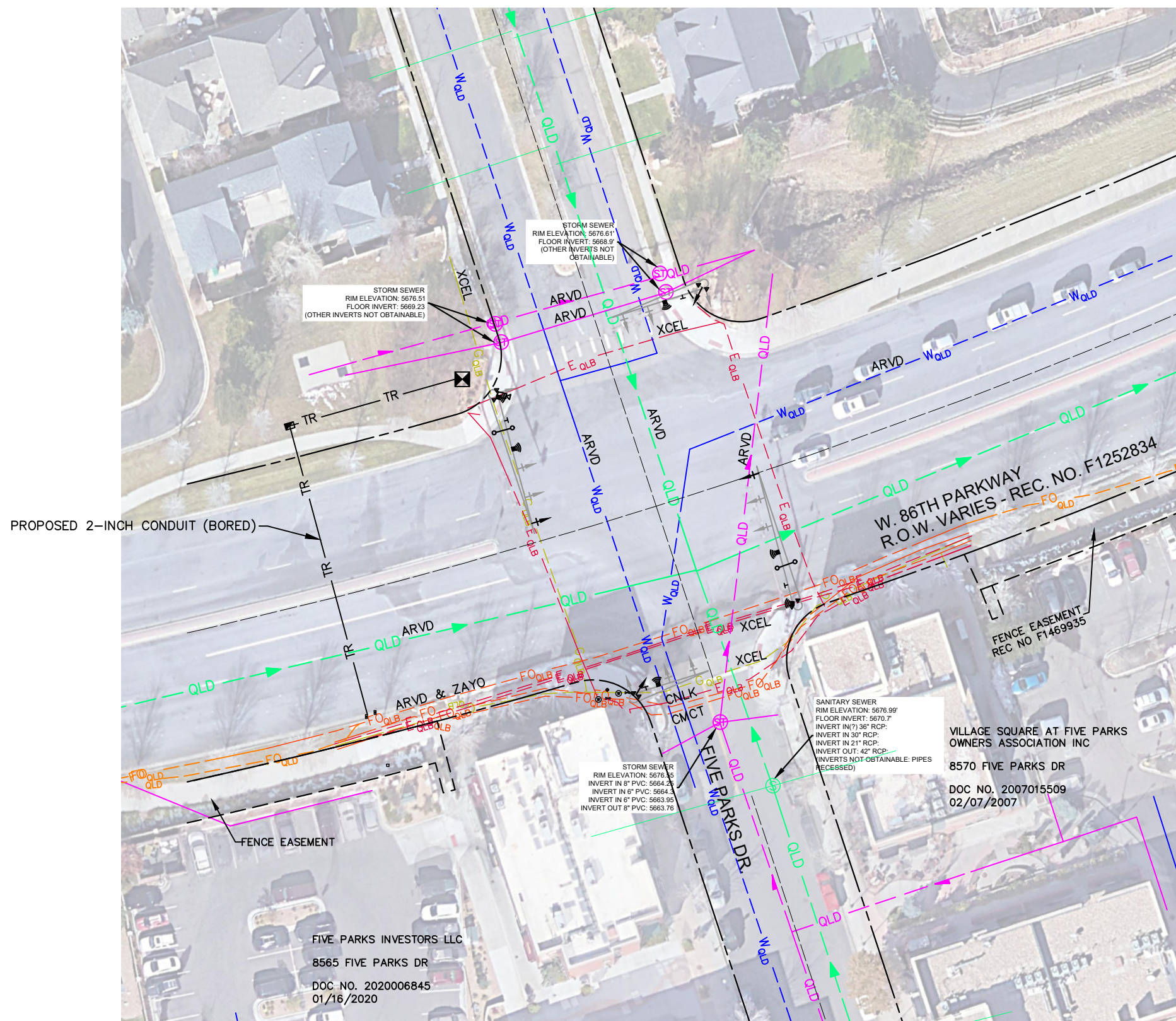
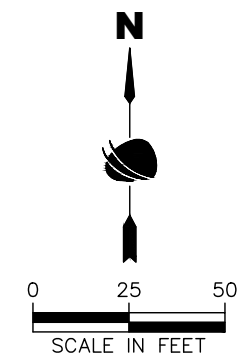
Project No.

22-TC-01

Drawing Number UTGN-001

Sheet Number 16

AD PLANS 10/5/2023



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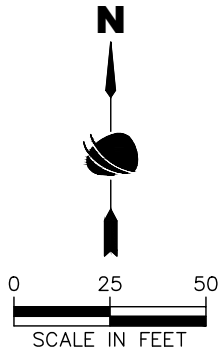
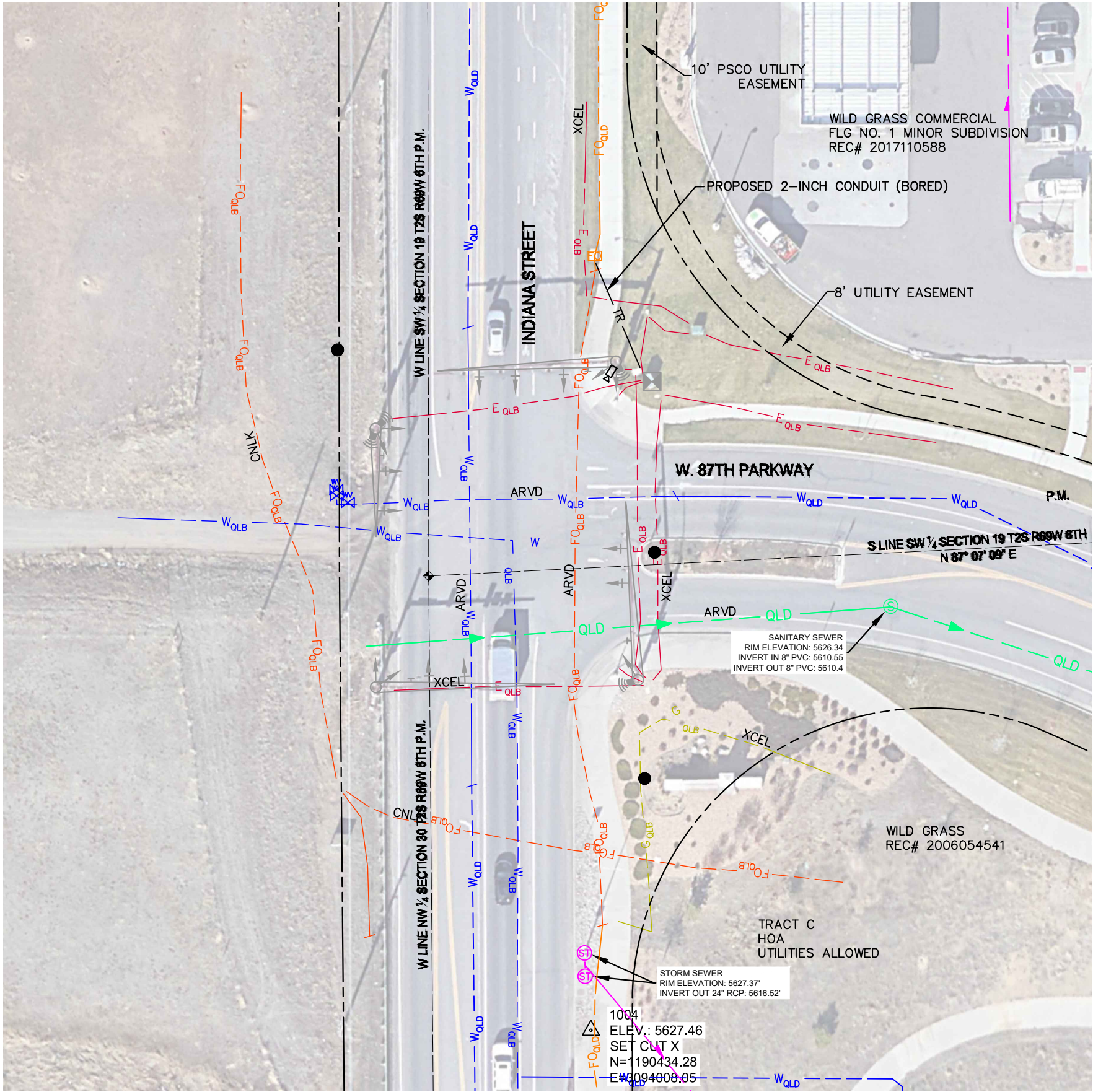
Print Date: 10/5/2023			Sheet Revisions					As Constructed		ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE UTILITY PLAN			Project No.		
File Name: UTIL-001 UTILITY PLANS.DWG			No Revisions:		22-TC-01										
Horiz. Scale: As Noted Vert. Scale: N/A										Drawing Number UTIL-00					
			12076 Grant Street Thornton, CO 80241 Ph: (303) 962-9300 Fax: (303) 962-9350		CITY OF ARVADA			PUBLIC WORKS 8101 RALSTON ROAD ARVADA, CO 80002		Revised:		Designer: J. Lancaster		Structure	
								Void:		Detailer: H. Pugh		Numbers			
										Sheet Subset: UTILITY		Subset Sheets: 2 of 3			

AD PLANS 10/5/2023

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File Name: UTIL-001 UTILITY PLANS.DWG

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ARVADA 86TH PARKWAY SIGNAL CONNECTIVITY AND UPGRADE UTILITY PLAN

Designer: J. Lancaster

Detailer: H. Pugh

Sheet Subset: UTILITY

Structure Numbers

Subset Sheets: 3 of 3

Project No.
22-TC-01
Drawing Number UTIL-002
Sheet Number 18

SPECIAL PROVISIONS

City of Arvada Project No. 23-TC-03, Project Title: W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements

Conditions peculiar, but essential, to the successful performance and acceptance of the work on this project are itemized below. As such, they shall take precedence over the City of Arvada Engineering Code of Standards and Specifications.

A. GENERAL CONSIDERATIONS

SC-A-1 CONTRACT TIME AND LIQUIDATED DAMAGES: This project is to be completed, including cleanup, within 120 consecutive calendar days after the date to be specified in the Notice to Proceed, unless the contract time is adjusted by change order. The Contractor shall agree to pay to the Owner, as liquidated damages, the sum of \$1400.00 for each consecutive calendar day that the work exceeds the allotted contract time.

SC-A-2 EASUREMENT AND PAYMENT: Measurement of the work performed and payment, at the unit or lump sum price quoted in the Bid Schedule, shall be made in accordance with requirements of the Measurement and Payment Section of the Contract Documents or as hereinafter stated in the Special Conditions.

SC-A-3 NON CONFORMITY OF MATERIAL OR FINISHED PRODUCT: Where materials installed or the finished product fails to meet the minimum requirements of these Contract Documents, the basis of determining final payment to the Contractor shall be determined in accordance with the current revised Section 105.03 of the Colorado Department of Transportation Standard Specifications.

SC-A-4 OSHA REQUIREMENTS: Observing the rules and regulations required by the Occupational Health and Safety Administration (OSHA) is the responsibility of the Contractor on this project.

SC-A-5 CITY HOLIDAYS: The Contractor, when performing work on a city holiday, Saturday, Sunday, or in excess of ten (10) hours on a weekday, in accordance with Section 27-174(b)(2) of the Code of the City of Arvada, agrees to reimburse the Owner for the inspector's time at the following rate:

First 2 hours, or fraction thereof: \$100.00

Each additional 2 hours or fraction thereof: \$100.00

Payment shall be made payable to the City of Arvada within ten days of the date of invoice from the Owner.

SC-A-6 MINOR CONTRACT REVISIONS: Miscellaneous modifications in the work, ordered by the Project Engineer in the form of a field order, will be considered a minor contract revision. Payment for accepted work performed under this pay item "Minor Contract Revision" will be made in accordance with General Conditions and 2.16 and 2.17 of the Arvada Engineering Code of Standards and Specifications. If the contractor feels that a field order issued by the Engineer entitles the contractor to a change in the total contract price or time, or both, (i.e. the contractor feels that the field order involves costs over and above the amount available in the Minor Contract Revisions bid item) then the Contractor shall notify the Engineer, in writing, within 15 days after receipt of the field order. The Contractor shall not execute any such field order changes ordered by the Engineer pending the receipt of a written Change Order document executed either by the City Manager or Mayor authorizing an increase in the total contract price. Any such work completed by the contractor prior to receipt of an executed Change Order will be at the contractor's risk and be subject to removal by the contractor should a Change Order not be approved and executed by the City Manager or Mayor for such work.

SC-A-7 FIELD ORDERS: An authorized representative of the contractor shall acknowledge receipt of field orders by promptly signing all written field orders delivered to the job site. Verbal field orders given by the Engineer will be recorded in writing in the municipal inspector's daily report that is to be signed by the contractor's authorized

representative.

SC-A-8 PROJECT STATUS MEETINGS: Project status meetings will be held as necessary for scheduling, communication, and problem solving throughout the duration of the project. Contractor shall ensure that the project manager, superintendent or foreman is present and prepared to furnish the City with the schedule of work operations at each of these meetings as requested by the Engineer throughout the project.

SC-A-9 CHANGE OF METHOD: Any cost due to a change in construction method will be the responsibility of the contractor.

SC-A-10 STORMWATER CONSTRUCTION PERMIT: As a subsidiary obligation of the contract, the Contractor shall obtain a Stormwater Construction Permit from the Colorado Department of Public Health and Environment, Water Quality Control Division, Permit Enforcement Section, prior to clearing, grading, or excavating a site of one (1) acre or more. A copy of the approved permit must be submitted to the City of Arvada Engineering Division prior to the start of clearing, grading or excavating of the site. A copy of the approved permit must also be available on the project site at all times during construction. Contractor shall also obtain a Colorado state Construction Dewatering Discharge Permit from the Colorado Department of Public Health and Environment for all areas where trench dewatering is required and water is discharged into a storm sewer, channel, irrigation ditch or any waters of the United States. A copy of the approved permit must be submitted to the Engineer prior to the start of any dewatering. A copy of the approved permit must also be available on the project site at all times during construction.

In addition, the Contractor shall be required to obtain a City of Arvada Site Development Permit from the Arvada Stormwater Utility Division. For permit requirements go to Arvada.org/services and click on Building/Development. Contractor shall implement best management practices that include inlet protection for all inlets affected by the work as well as stockpile protection in order to control runoff from stockpiles. Contractor shall also be required to perform daily street sweeping to limit tracking from the work site. Uncontrolled releases of dirt or silt from the project into drainage ways, which includes the gutter or stormwater inlets, constitutes a violation of Arvada Ordinance punishable by up to \$999 per day per incident. No additional payment will be made for obtaining a City of Arvada Site Development Permit and implementing best management practices required to prevent uncontrolled releases of dirt or silt from the project into drainage ways, which includes the gutter or stormwater inlets.

B. CONSTRUCTION CONSIDERATIONS

SC-B-1 LOCATIONS AND PRIORITIES: The City reserves the right to add, delete, or modify construction locations, priority order and portions of the work without change in the contract agreement prices, per General Condition 2.16 of the Arvada Engineering Code of Standards and Specifications.

SC-B-2 PRE-CONSTRUCTION AND SCHEDULING: A pre-construction meeting will be scheduled prior to the start of work. Attendance by the contractor's project manager and/or construction superintendent will be required. A construction schedule shall be submitted by the contractor to the project engineer at least three (3) days prior to the pre-construction meeting. The schedule shall be in bar chart form and shall at a minimum indicate the start and completion dates of work at each construction location. The contractor shall also provide the City with an after-hours emergency contact phone number at the pre-construction meeting.

SC-B-3 MINIMIZING WORK ZONE DAMAGES: During all phases of construction including cleanup, contractor shall operate all equipment and utilize personnel so as to minimize or prevent damages to public or private property. Contractor shall limit operation of heavy equipment to safe prudent speeds and minimize operation of equipment over concrete sidewalks, curbs and gutters. Contractors shall also conduct operations to avoid dings, nicks, gouges, scrapes, etc., on streets and concrete curb, gutter and sidewalks as well as other facilities in the construction area. Should contractors' operations cause damages, contractor shall be fully responsible for repairs at no cost to the City.

All public or private property damaged during the construction process must be repaired within two weeks of street and right-of-way clean-up. Should repair items not be completed within two weeks, city may initiate and complete the

repair work; deducting costs to complete the work from total contract.

SC-B-4 TRAFFIC CONTROL AND STREET RESTRICTIONS: Traffic control methods shall conform to Arvada Engineering Code of Standards and Specifications and the FHA Manual for Uniform Traffic Control Devices and Colorado Supplement thereto. When working in State Highway right-of-way, traffic control methods shall meet the requirements of the Colorado Department of Transportation (CDOT). Contractor's traffic control plan is subject to CDOT approval prior to commencing work on State Highway right-of-way. No hand painted traffic control devices will be permitted. After award of the contract and prior to the start of construction, contractor shall submit two copies of the traffic control plans for approval encompassing all locations of the project. The contractor shall modify the installation to meet requirements of the City of Arvada Traffic Department, if so required.

The contractor shall notify the Arvada Traffic Division (720-898-7740) of all closures, either partial or complete, of any public street, road, highway or alley per Section 50 of Arvada's Engineering Code of Standards and Specifications. Notification shall be made a minimum of 24 hours in advance of the actual closure; except on commercial, parkway, and collector streets, where a minimum three (3) day advance notice will be required. All streets in the project will be considered for closure to thru traffic (local traffic only allowed) except for the following:

1. West 72nd Avenue – Arterial

The above streets are classified as arterial and collector streets. All other streets in the project are classified as local streets. Work hours shall be as outlined below.

MEASUREMENT: The traffic control shall be a lump sum item for all aspects of the traffic control plan. Payment for traffic control shall be full compensation for the traffic control and labor, equipment and materials required to implement the traffic control plan. **PAYMENT:** Prorated payment of the contract amount bid for traffic control will be made monthly. The percentage paid shall be equal to the percentage of the total contract dollar amount completed that month. In no case shall payment be more than 100% of the amount bid for Traffic Control.

SC-B-5 STREET CLOSURE RESTRICTIONS: Lane closures in various street classifications are as follows:

ARTERIAL STREETS:	Lane closures 8:30 am – 3:30 pm only Construction activities: 8:30 am – 3:30 pm only Must maintain one lane each way at all times
COLLECTOR STREETS:	Lane closures 8:30 am – 3:30 pm only Construction activities: 7:00 am – 7:00 pm only Must maintain one lane with adequate flagging at all times
LOCAL STREETS:	Lane closures 7:00 am – 7:00 pm only Construction activities: 7:00 am – 7:00 pm only May be closed to thru traffic unless otherwise noted (during working hours)

If contractor violates these working time limitations without prior authorization from the Engineer, Engineer may give written notice to stop work on the project at the beginning of the next day's work and work may not resume until contractor provides written explanation for the violation and assurance to the City that there will not be a reoccurrence of the violation. If subsequent working time violations occur, Engineer will notify contractor in writing that there will be a price reduction for each incidence of unauthorized violation in accordance with this specification. Price reduction will not be imposed where changed contract conditions are encountered during the specific period or the violation in question was a result of circumstances beyond contractor or subcontractor's control. The price reduction will not constitute a penalty but will be considered a failure to perform traffic control in accordance with the contract.

An incident is any violation up to 30 minutes in duration. Each 30 minutes or increment thereof will be considered an incident. A price reduction will be assessed for each successive or cumulative 30 minute period in violation of the working time limitations, as determined by the Engineer. The price reduction for each incident will increase at a progressive rate starting with \$150 for the second incident and increasing to \$600 for the fourth and subsequent incidents in accordance with the following schedule. A 15 minute grace period will be allowed at the beginning of the second incident on the project before the price reduction is applied. The 15 minute grace period applies only to the second incident. The number of incident charges will be accumulative throughout the duration of the contract.

PRICE REDUCTION SCHEDULE

<u>INCIDENT</u>	<u>INCIDENT RATE</u>	<u>TOTAL PRICE REDUCTION</u>
1st	Notice to Stop Work	\$0
2nd	\$150	\$150
3rd	\$300	\$450
4th	\$600	\$1,050
5th	\$600	\$1,650
6th	\$600	\$2,250
ETC.	\$600	\$2,850
	ETC.	ETC.

SC-B-7 PROTECTION AND RESTORATION OF EXISTING LANDSCAPING: The contractor shall protect or remove and replace, all shrubs, decorative rock, sod, underground sprinklers, signs, landscaping, fences or other private or public improvements within or adjacent to the project area. Disturbed areas shall be restored to condition equal to or better than that which existed prior to construction. All sod shall be new unless approved by the municipal inspector to re-use existing sod.

If branches of trees or shrubs will be in the path of the proposed construction, as verified by the municipal inspector prior to construction, the contractor shall prune these branches under the supervision of the City Forester.

Also, if tree or shrub roots are exposed in the construction area, the contractor shall saw cut the roots within 24 hours after the roots are exposed. The contractor shall not cut the roots with the backhoe. If the roots are improperly cut or exposed longer than 24 hours, then the tree or shrub will be considered as damaged and the contractor will be responsible for replacement at his cost.

PAYMENT: No separate payment will be made for protection and/or restoration of existing sod, decorative rock, shrubs, trees, landscaping, underground sprinklers, fences, signs and other private or public improvements in the project.

BID SCHEDULE



23-PWT-115 Traffic Signal and Intersection Improvements

Bid # and Title

Arvada Project No. 23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements

Project No. and Title

Contractor

Address, City, ZIP

Telephone

Bid Prepared By

Date

PAY ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL PRICE
202-00195	REMOVAL OF MEDIAN COVER	28	SY		\$ -
202-00200	REMOVAL OF SIDEWALK	219	SY		\$ -
202-00203	REMOVAL OF CURB & GUTTER	409	LF		\$ -
202-00220	REMOVAL OF ASPHALT MAT (FULL DEPTH)	109	SY		\$ -
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	518	SY		\$ -
202-00250	REMOVAL OF PAVEMENT MARKING	100	SF		\$ -
202-00810	REMOVAL OF GROUND SIGN	2	EA		\$ -
202-00819	REMOVAL OF FLEX POST	5	EA		\$ -
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	1	LS		\$ -
210-00810	RESET GROUND SIGN	3	EA		\$ -
210-00827	RESET PULL BOX	3	EA		\$ -
210-01710	RESET VALVE BOX	1	EA		\$ -
212-012000	LANDSCAPE RESTORATION	1	LS		\$ -
403-00720	HOT MIX ASPHALT (PATCHING) (FULL DEPTH)	109	SY		\$ -
403-00729	HOT MIX ASPHALT (2 INCH OVERLAY)	518	SY		\$ -
608-00006	CONCRETE SIDEWALK (6 INCH)	196	SY		\$ -
609-21019	6 INCH VERTICAL CURB & 1 FOOT GUTTER	283	LF		\$ -
609-21029	6 INCH VERTICAL CURB & 2 FOOT GUTTER	116	LF		\$ -
610-00030	MEDIAN COVER MATERIAL (CONCRETE)	52	SY		\$ -
613-10000	WIRING	1	LS		\$ -
613-13000	LUMINAIRE (LED) - 15' LENGTH	4	EA		\$ -
614-00012	SIGN PANEL (CLASS II)	39	SF		\$ -
614-00019	STREET NAME SIGN	4	EA		\$ -
614-00216	STEEL SIGNPOST (2X2 INCH TUBING)	20	LF		\$ -
614-10160	SIGNAL HEAD BACKPLATES	10	EA		\$ -
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	8	EA		\$ -
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	11	EA		\$ -
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	8	EA		\$ -
614-72855	TRAFFIC SIGNAL CONTROLLER & CABINET (TS-2)	1	EA		\$ -
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY	8	EA		\$ -
614-72864	FIRE PREEMPTION DETECTOR (OPTICOM)	4	EA		\$ -
614-72895	WAVETRONIX SMART SENSOR (PRESENCE)	4	EA		\$ -
614-72895	WAVETRONIX SMART SENSOR (ADVANCE)	2	EA		\$ -
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40' MAST ARM)	2	EA		\$ -
614-81145	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-45' MAST ARM)	2	EA		\$ -
614-87320	CLOSED CIRCUIT TELEVISION CAMERA	1	EA		\$ -
614-86800	UNINTERRUPTED POWER SUPPLY	1	EA		\$ -
626-00000	MOBILIZATION	1	LS		\$ -
627-00002	THERMOPLASTIC PAVEMENT MARKING	1544	SF		\$ -
627-00008	MODIFIED EPOXY PAVEMENT MARKING	1	GAL		\$ -
630-00016	TRAFFIC CONTROL	1	LS		\$ -

700-70010	F/A MINOR CONTRACT REVISIONS	1	F/A	\$ 80,000.00	\$ 80,000.00
700-70380	F/A EROSION CONTROL	1	F/A	\$ 25,000.00	\$ 25,000.00
700-90090	F/A ELECTRICAL SERVICE	1	F/A	\$ 5,000.00	\$ 5,000.00

Payment will be based on actual quantities performed

TOTAL BID \$

Total Bid Written: _____

W 92ND DR/W 93RD DR & CANDELAS PKWY INTERSECTION IMPROVEMENTS

CONSTRUCTION DOCUMENTS

CITY OF ARVADA, COUNTY OF JEFFERSON, STATE OF COLORADO



VICINITY MAP
N.T.S



SHEET INDEX

NUMBER	DESCRIPTION
1	TITLE SHEET
2	REMOVAL & RESET PLAN
3	INTERSECTION PLAN
4-5	GRADING DETAILS
6	TRAFFIC SIGNAL PLAN

CONTACTS

OWNER: CITY OF ARVADA 8101 RALSTON ROAD ARVADA, CO 80002 TEL: (720)–898–7000 CONTACT: MAZEDUR HOSSAIN, P.E.	ENGINEER: KIMLEY–HORN AND ASSOCIATES, INC. 6200 SOUTH SYRACUSE WAY, SUITE 300 GREENWOOD VILLAGE, CO 80111 TEL: (303) 228–2300 CONTACT: MATT CIARKOWSKI, P.E.
---	--

BENCHMARK

ELEVATIONS SHOWN ARE NAVD 88' & ARE BASED ON GPS OBSERVATIONS VIA THE LEICA SMARTNET RTK NETWORK.

SITE BENCHMARK: "X" CUT ON SOUTHEAST CORNER OF STORM INLET ALONG SOUTH CURB LINE OF CANDELAS PARKWAY AND BEING APPROX. 1600' ALONG SAID SOUTH CURB LINE OF CANDELAS PARKWAY NORTHEAST OF HIGHWAY NO. 72 ELEVATION=6035.83'

SUBTRACT 2.38' TO SITE ELEVATIONS TO GET TO CITY OF ARVADA BENCHMARK DATUM.

ARVADA BENCHMARK #967: CHISELED SQ. AT B.O.W.E.R.P. NE COR. OF CANDELAS PARKWAY AND THE SECOND INTERSECTION EAST OF HIGHWAY 72. APPROXIMATELY 0.40 MILES EAST OF HIGHWAY 72. (A SMALLER INTERSECTION) (PART OF THE CANDELAS PROJECT). APPROXIMATELY IN LINE WITH WILKERSON. BENCHMARK ELEVATION=6025.51'

BASIS OF BEARING

THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 23, T2S, R70W, OF THE 6TH P.M., BEING MONUMENT A ON THE NORTH BY A 2.5" PIPE AND 3.25 ALUMINUM CAP "STAMPED PLS 17477" AND ON THE SOUTH BY A 3.25 ALUMINUM CAP STAMPED PLS 13155" AND CONSIDERED TO BEAR S 01° 16' 34" E.



Know what's below.
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SUMMARY OF APPROXIMATE QUANTITIES			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
202-00195	REMOVAL OF MEDIAN COVER	SY	28
202-00200	REMOVAL OF SIDEWALK	SY	219
202-00203	REMOVAL OF CURB & GUTTER	LF	409
202-00220	REMOVAL OF ASPHALT MAT (FULL DEPTH)	SY	109
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	SY	518
202-00250	REMOVAL OF PAVEMENT MARKING	SF	100
202-00810	REMOVAL OF GROUND SIGN	EA	2
202-00819	REMOVAL OF FLEX POST	EA	5
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1
210-00810	RESET GROUND SIGN	EA	3
210-00827	RESET PULL BOX	EA	3
210-01710	RESET VALVE BOX	EA	1
212-012000	LANDSCAPE RESTORATION	LS	1
403-00720	HOT MIX ASPHALT (PATCHING) (FULL DEPTH)	SY	109
403-00729	HOT MIX ASPHALT (2 INCH OVERLAY)	SY	518
608-00006	CONCRETE SIDEWALK (6 INCH)	SY	196
609-21019	6 INCH VERTICAL CURB & 1 FOOT GUTTER	LF	283
609-21029	6 INCH VERTICAL CURB & 2 FOOT GUTTER	LF	116
610-00030	MEDIAN COVER MATERIAL (CONCRETE)	SY	52
613-10000	WIRING	LS	1
613-13000	LUMINAIRE (LED) - 15' LENGTH	EA	4
614-00012	SIGN PANEL (CLASS II)	SF	39
614-00019	STREET NAME SIGN	EA	4
614-00216	STEEL SIGNPOST (2X2 INCH TUBING)	LF	20
614-10160	SIGNAL HEAD BACKPLATES	EA	10
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EA	8
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	11
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EA	8
614-72855	TRAFFIC SIGNAL CONTROLLER & CABINET (TS-2)	EA	1
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY	EA	8
614-72864	FIRE PREEMPTION DETECTOR (OPTICOM)	EA	4
614-72895	WAVETRONIX SMART SENSOR (PRESENCE)	EA	4
614-72895	WAVETRONIX SMART SENSOR (ADVANCE)	EA	2
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40' MAST ARM)	EA	2
614-81145	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-45' MAST ARM)	EA	2
614-87320	CLOSED CIRCUIT TELEVISION CAMERA	EA	1
614-86800	UNINTERRUPTED POWER SUPPLY	EA	1
626-00000	MOBILIZATION	LS	1
627-00002	THERMOPLASTIC PAVEMENT MARKING	SF	1544
627-00008	MODIFIED EPOXY PAVEMENT MARKING	GAL	1
630-00016	TRAFFIC CONTROL	LS	1

APPROVED:

Jerry Welfschlag, PE
City Engineer

12/1/23
Date

23-TC-03
Job Number

Review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", latest edition. Sole responsibility for completeness and/or accuracy of these Documents shall remain with the Registered Professional Engineer sealing these plans. The City does not accept liability for facilities designed by others.

Print Date: November 30, 2023

Drawing File Name: title sheet.dwg

Horiz. Scale: Vert. Scale:



KIMLEY–HORN AND ASSOCIATES, INC.
6200 S SYRACUSE WAY,
SUITE #300
GREENWOOD VILLAGE, COLORADO 80111
(303) 228–2300

Sheet Revisions		
Date:	Comments:	Init.



CITY OF
ARVADA

8101 RALSTON ROAD
ARVADA, CO 80002
720–898–7000



FINAL PLANS		W 92ND DR/W 93RD DR & CANDELAS PKWY. INTERSECTION IMPROVEMENTS		Project No./Code	
No Revisions:				Project Number	
Revised:	Designer: MEC			Code	
Void:	Detailer: TJL			Sheet Number 1	
Sheet Subset: TITLE		Subset Sheet: 1 of 1			

K:\DEN_PublicSector\XXXXXX_Candelas Pkwy & 92nd Dr Ped Signal\CADD\PlanSheets\Removal Plan.dwg Loeffler, Tyler 11/30/2023 5:24 PM
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CONSTRUCTION NOTES

- 1 REMOVE EXISTING SIDEWALK (SY)
- 2 REMOVE EXISTING CURB & GUTTER (LF)
- 3 REMOVE EXISTING MEDIAN COVER (SY)
- 4 REMOVE EXISTING FLEX POST (EA)
- 5 REMOVE EXISTING ASPHALT (FULL DEPTH) (SY)
- 6 REMOVE EXISTING ASPHALT (2" MILL) (SY)
- 7 ADJUST EXISTING VALVE BOX TO GRADE (EA)
- 8 ADJUST EXISTING PULL BOX TO GRADE (EA)

LEGEND:

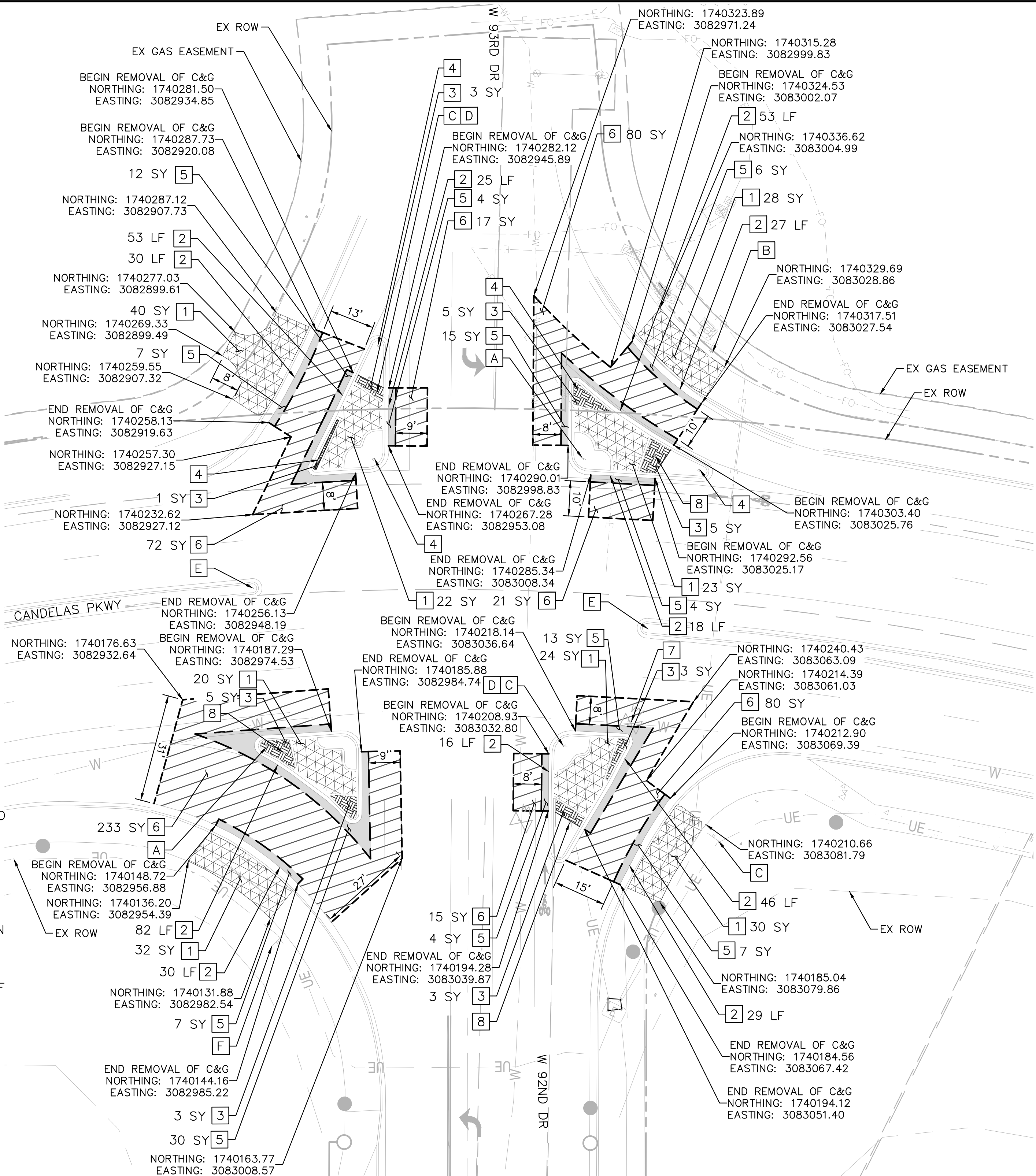
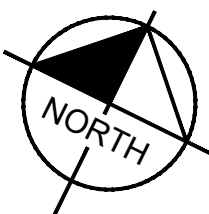
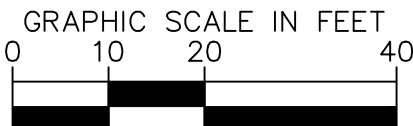
- REMOVAL OF ASPHALT MAT (PLANING)
- REMOVAL OF CONCRETE SIDEWALK
- REMOVAL OF ASPHALT FULL DEPTH
- REMOVAL OF MEDIAN CONCRETE COVER
- SAWCUT
- MILL & OVERLAY LIMITS

NOTES:

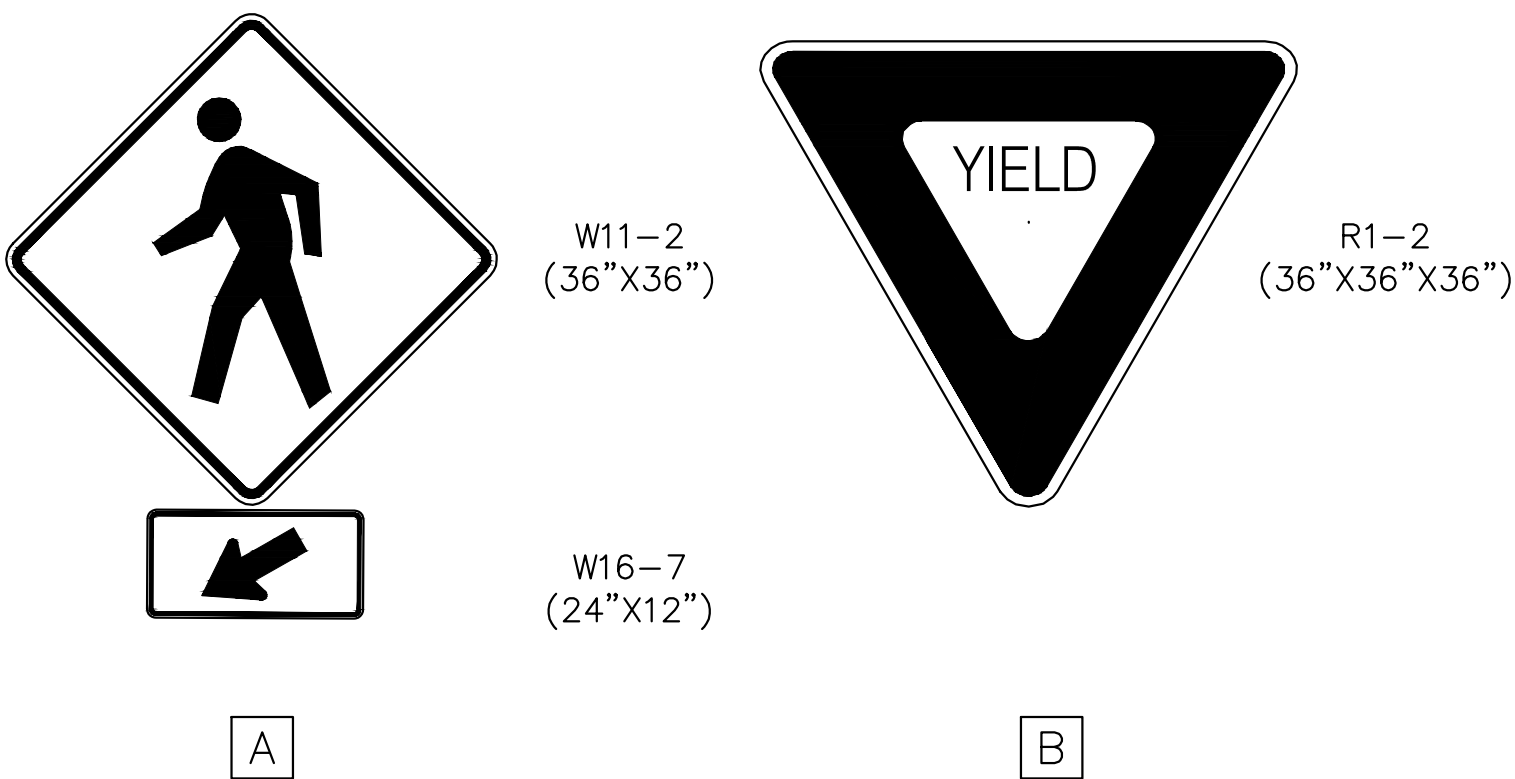
- 1. CONTRACTOR SHALL COORDINATE EXACT REMOVAL LIMITS WITH THE CITY IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THIS SHALL INCLUDE CURB & GUTTER, SIDEWALK, AND MEDIAN COVER.
- 2. EXISTING TRAFFIC SIGNAL FOUNDATIONS DESIGNATED TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS. SIDEWALK DESIGNATED TO BE REMOVED NEAR TRAFFIC SIGNAL FOUNDATIONS SHALL BE COORDINATED WITH THE CITY IN THE FIELD.
- 3. SEE SHEET 3 FOR RESET SIGN LOCATIONS. FLASHING BEACONS ON SIGNS DESIGNATED TO BE RESET SHALL BE REINSTALLED WITH THE RESET SIGN.
- 4. CONTRACTOR SHALL CLEAN ALL PULL BOXES/VALVE BOXES AFTER ADJUSTING TO FINAL GRADE.
- 5. ANY STRIPING IN CONFLICT WITH PROPOSED STRIPING PLAN SHALL BE REMOVED VIA WATER BLASTING.
- 6. FOR REMOVAL AND RESET OF SIGNAL EQUIPMENT SEE SHEET 6.
- 7. ALL SAWCUTS SHALL BE 2' OFF OF THE EXISTING EDGE OF PAVEMENT.
- 8. CURB AND GUTTER IS MEASURED AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. REMOVAL OF INTERNAL ISLAND CURB SHALL BE INCLUDED WITH THE REMOVAL OF SIDEWALK.



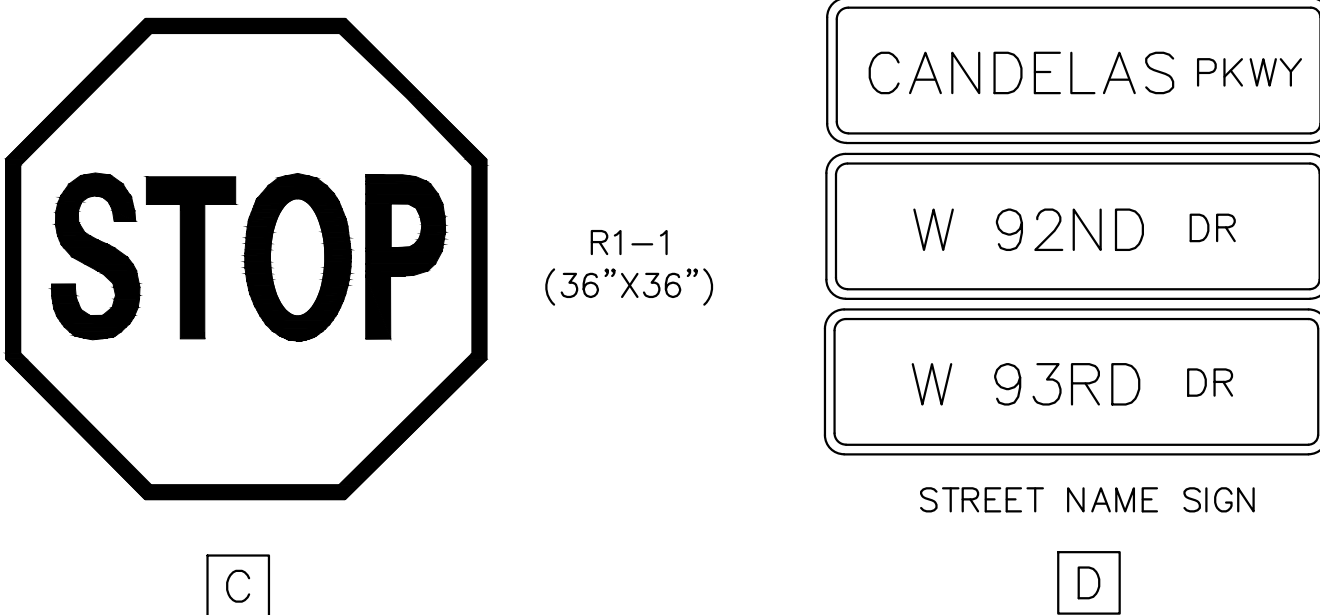
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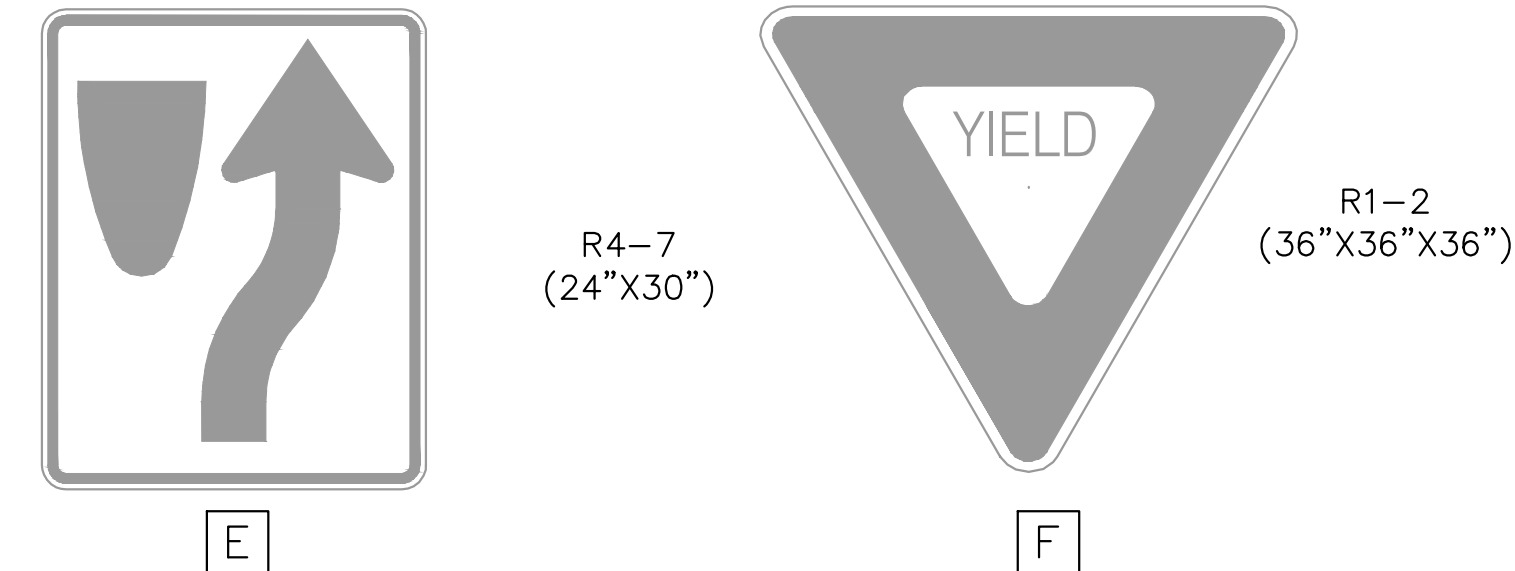
EXISTING GROUND SIGNS TO BE RESET



EXISTING GROUND SIGNS TO BE REMOVED



EXISTING GROUND SIGNS TO REMAIN



PROJECT COORDINATE TABLE			
PT#	COLORADO CENTRAL STATE PLANE NAD83 COORDINATES		ELEVATION NAVD88
	NORTHING	EASTING	
100	1740282.35	3082901.33	6050.59
110	1740210.18	3083093.16	6049.83

PROJECT COORDINATES ARE COLORADO STATE PLANE CENTRAL ZONE NAD83 GEOID 18 COORDINATES. PUBLISHED UNITS ARE IN US SURVEY FEET. 1 US SURVEY FOOT = (1200/3937) METERS

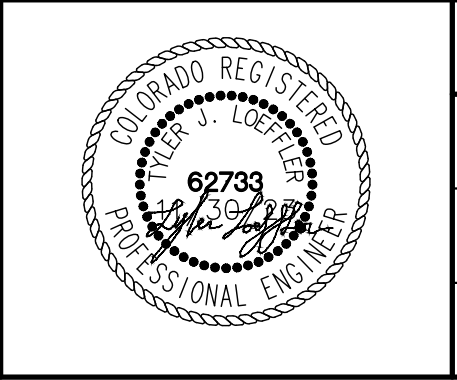
APPROVED: [Signature]
City Engineer Date 12/1/23 Job Number 23-TC-03

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Print Date: November 30, 2023
Drawing File Name: removal plan.dwg
Horiz. Scale: Vert. Scale:
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SUITE #300
GREENWOOD VILLAGE, COLORADO 80111
(303) 228-2300

Sheet Revisions		
Date:	Comments:	Init.

CITY OF ARVADA
8101 RALSTON ROAD
ARVADA, CO 80002
720-898-7000



FINAL PLANS		W 92ND DR/W 93RD DR & CANDELAS PKWY. INTERSECTION IMPROVEMENTS REMOVAL & RESET PLAN		Project No./Code
No Revisions:		Designer: MEC		Project Number
Revised:		Detailer: TJL		Code
Void:		Sheet Subset: SIGNAL	Subset Sheet: 1 of 1	Sheet Number 2

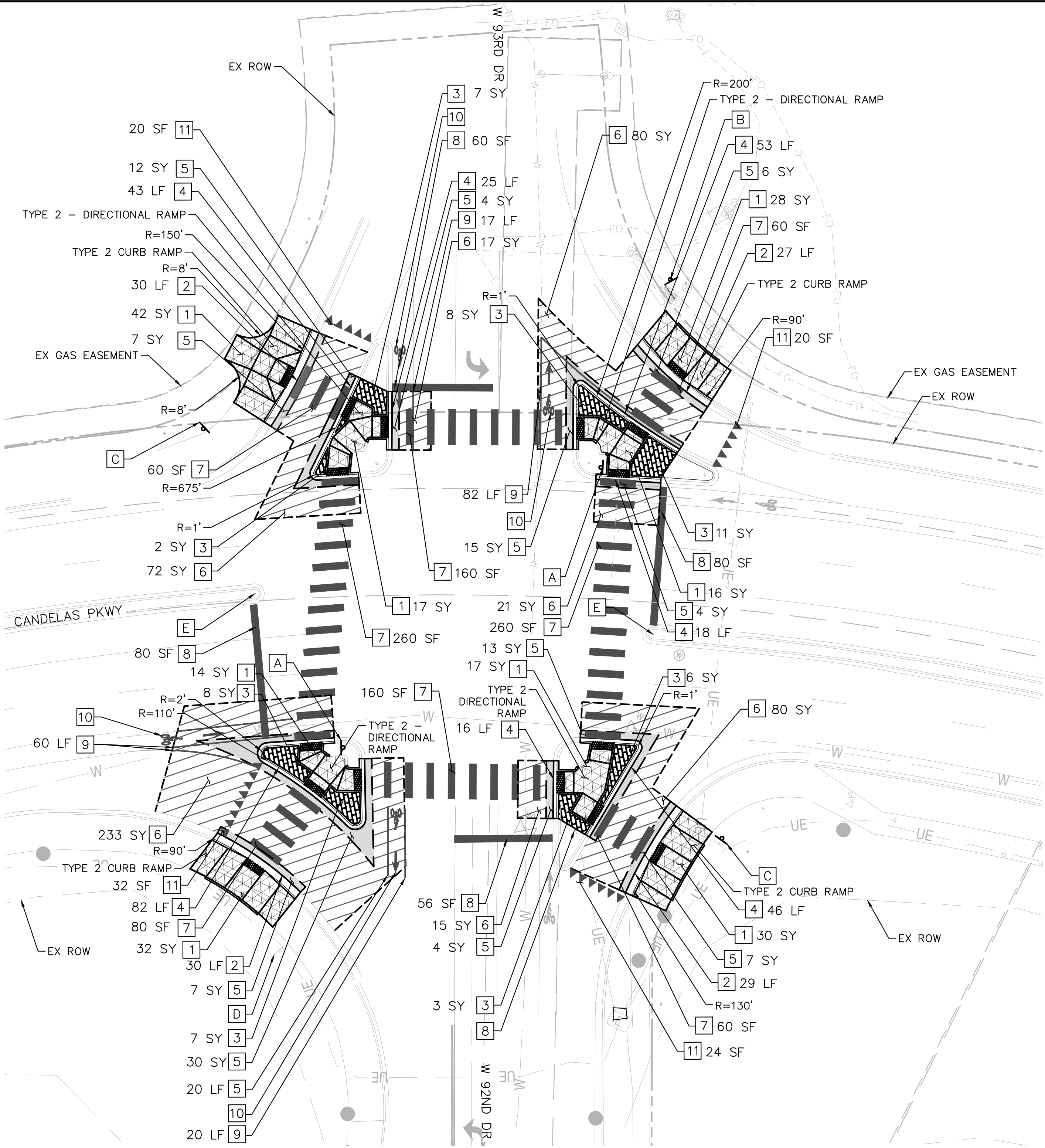
K:\DEN_PublicSector\XXXXXX_Candelas Pkwy & 92nd Dr Ped Signal\CADD\PlanSheets\Intersection Plan.dwg Loeffler, Tyler 11/30/2023 5:24 PM
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CONSTRUCTION NOTES

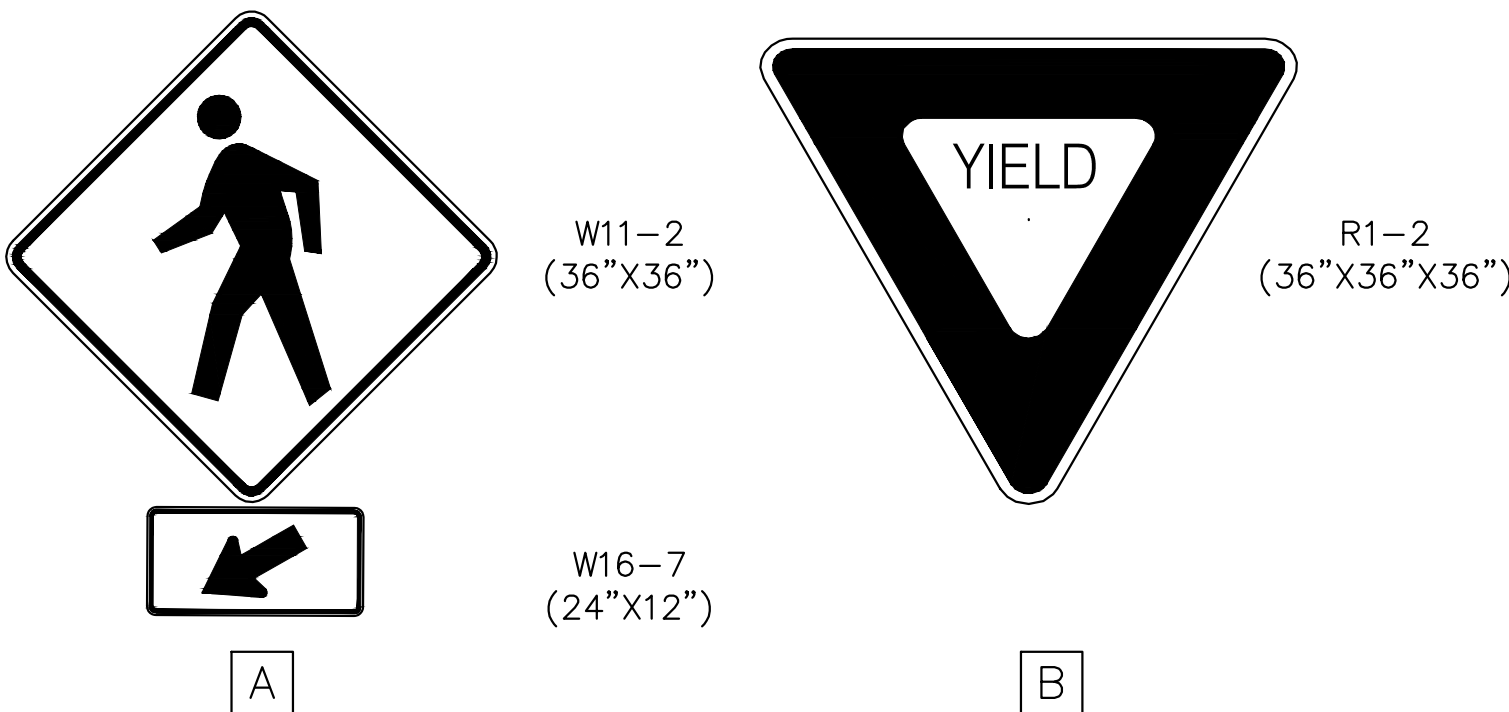
- 1 6 INCH CONCRETE SIDEWALK (SY)
- 2 6 INCH VERTICAL CURB & 2 FOOT GUTTER (LF)
- 3 CONCRETE MEDIAN COVER (SY)
- 4 6 INCH VERTICAL CURB & 1 FOOT SPILL PAN (LF)
- 5 ASPHALT PATCHING (FULL DEPTH) (SY)
- 6 2 INCH ASPHALT OVERLAY (SY)
- 7 CROSS WALK MARKINGS (WHITE), 2' WIDE, 8' LONG, 6' SPACING (THERMOPLASTIC) (SF)
- 8 STOP BAR (WHITE) 2' WIDE (THERMOPLASTIC) (SF)
- 9 4 INCH SOLID WHITE EDGE LINE (EPOXY) (LF)
- 10 BIKE SYMBOL & ARROW (THERMOPLASTIC) PER CDOT S-627-1(24 SF EA)
- 11 YIELD TEETH (THERMOPLASTIC) (4 SF EA)

LEGEND:

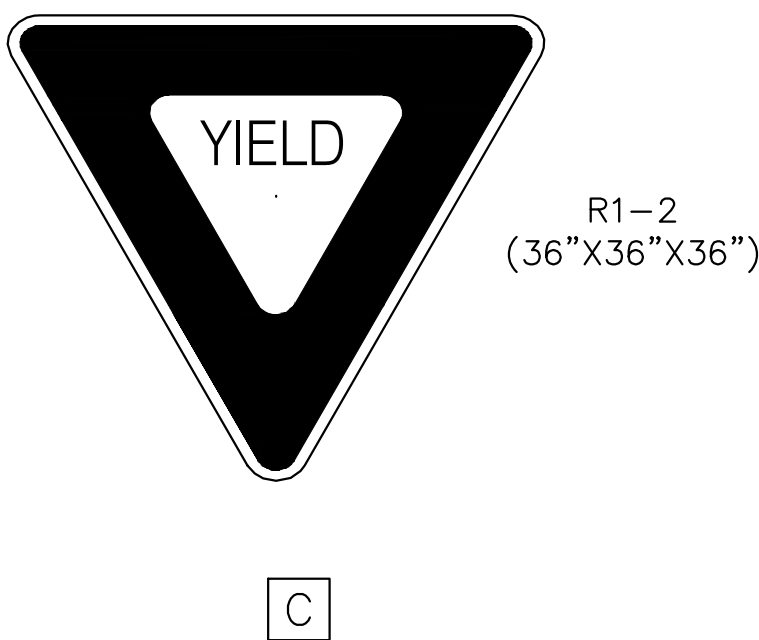
- ASPHALT OVERLAY
- CONCRETE SIDEWALK
- ASPHALT PATCHING (FULL DEPTH)
- CONCRETE MEDIAN COVER
- SAWCUT
- MILL & OVERLAY LIMITS
- PROPOSED GROUND SIGN AND POST



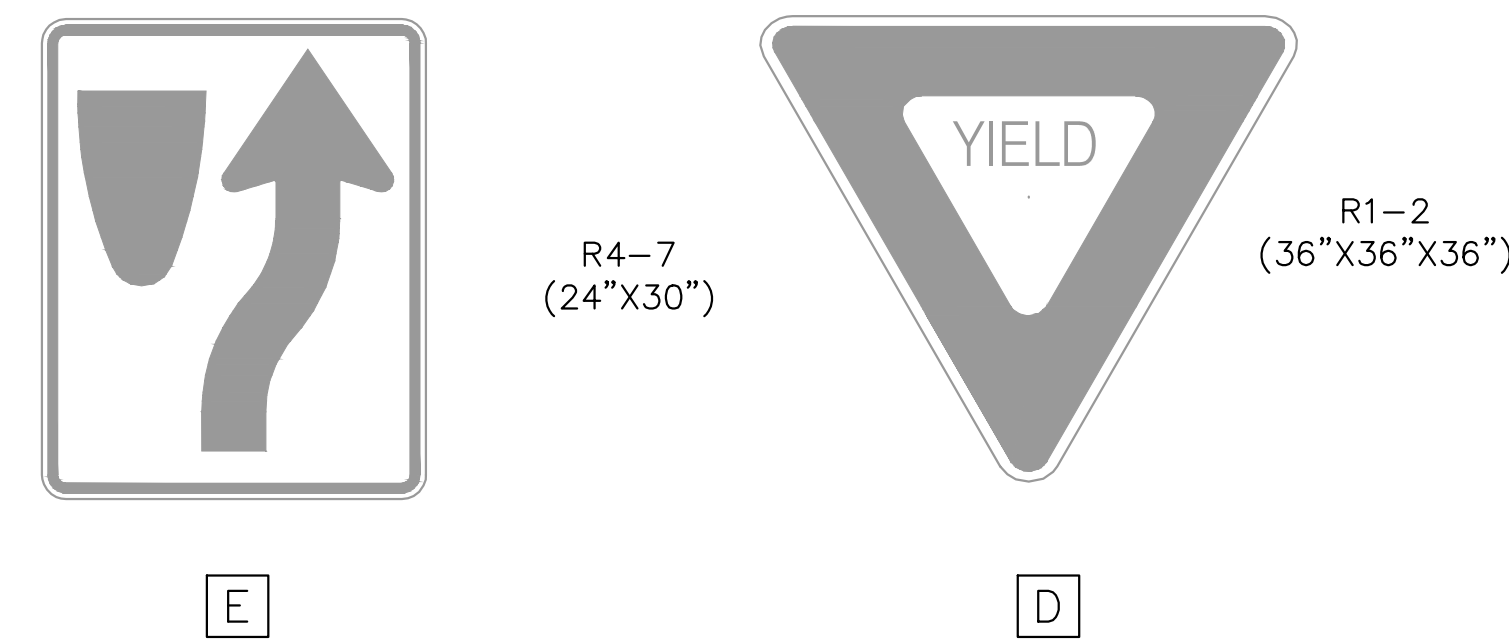
EXISTING GROUND SIGNS TO BE RESET



PROPOSED GROUND SIGN AND POST



EXISTING GROUND SIGNS TO REMAIN



NOTES:

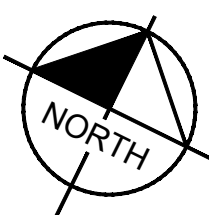
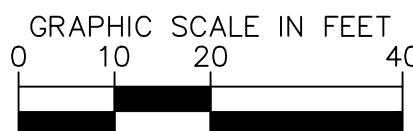
- SEE SHEET 4 FOR STAKING POINTS AND GRADING DETAILS.
- EXISTING TRAFFIC SIGNAL FOUNDATIONS DESIGNATED TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS. SIDEWALK DESIGNATED TO BE PAVED NEAR TRAFFIC SIGNAL FOUNDATIONS SHALL BE COORDINATED WITH THE CITY IN THE FIELD.
- ANY STRIPING IN CONFLICT WITH PROPOSED STRIPING PLAN SHALL BE REMOVED VIA WATER BLASTING.
- SEE SHEET 6 FOR THE TRAFFIC SIGNAL PLAN.
- CURB AND GUTTER IS MEASURED AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. PROPOSED INTERNAL ISLAND CURB SHALL BE INCLUDED WITH THE PROPOSED SIDEWALK.
- ASPHALT MATERIAL AND DEPTHS SHALL BE CONFIRMED IN THE FIELD WITH THE CITY.
- ASPHALT PATCHING (FULL DEPTH) SHALL INCLUDE AGGREGATE BASE COURSE. THICKNESS SHALL BE CONFIRMED IN THE FIELD WITH THE CITY.
- CURB RAMP SHALL CONFORM TO CITY OF ARVADA STANDARD SPECIFICATION 832.06, AND SHALL BE CONSTRUCTED PER CDOT STANDARD DETAIL M-608-1.
- MEDIAN COVER CONCRETE SHALL BE PER CITY OF ARVADA STANDARD DETAIL 800-21. CONTRACTOR SHALL CONFIRM LIMITS OF MEDIAN COVER CONSTRUCTION IN THE FIELD WITH THE CITY PRIOR TO BEGINNING THE WORK.
- ALL CURB AND GUTTER SHALL BE PER CITY OF ARVADA STANDARD DETAIL 800-01.
- RADIAL DIMENSIONS ARE TO FLOWLINE UNLESS OTHERWISE STATED.
- CONTRACTOR SHALL JOINT ALL CONCRETE WORK PER CITY OF ARVADA STD. 832.08.

APPROVED:
12/1/23 23-TC-03
Date Job Number

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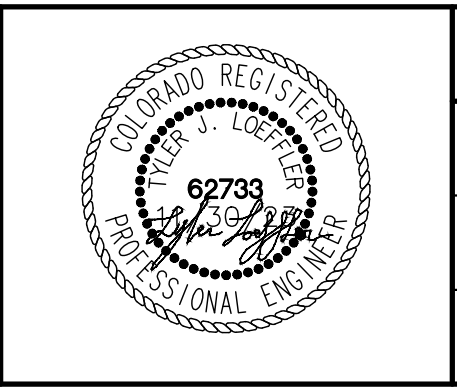
Know what's below.
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Print Date: November 30, 2023
Drawing File Name: intersection plan.dwg
Horiz. Scale: Vert. Scale:
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SUITE #300
GREENWOOD VILLAGE, COLORADO 80111
(303) 228-2300

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Date:	Comments:	Init.

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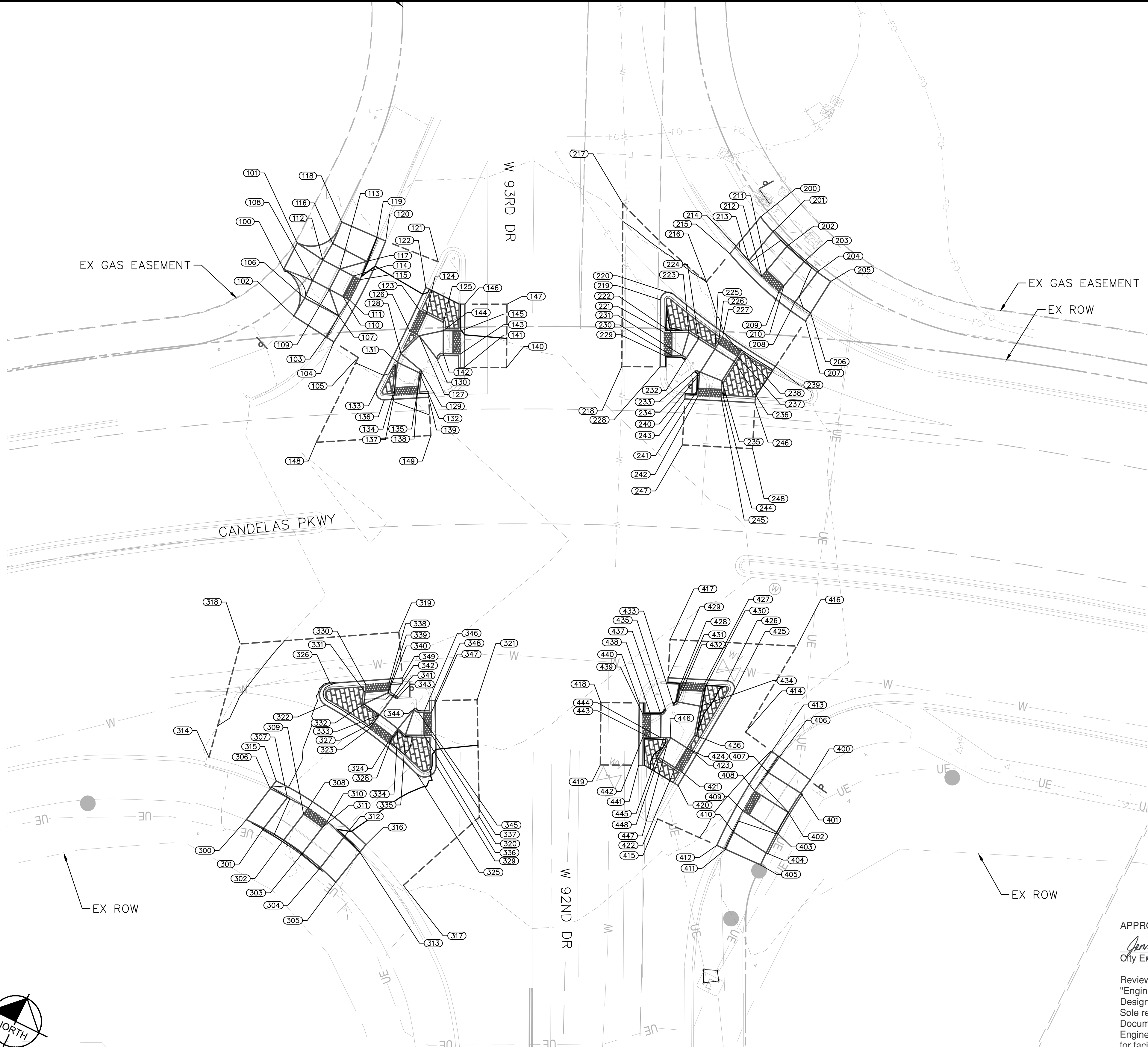
FINAL PLANS		W 92ND DR/W 93RD DR & CANDELAS PKWY. INTERSECTION IMPROVEMENTS INTERSECTION PLAN		Project No./Code	
No Revisions:		Designer: MEC		Project Number	
Revised:		Detailer: TJL		Code	
Void:		Sheet Subset: INT	Subset Sheet: 1 of 1	Sheet Number 3	

K:\DEN_PublicSector\XXXXXX_Candelas Pkwy & 92nd Dr Ped Signal\CADD\PlanSheets\Grading_Details.dwg Loeffler, Tyler 11/30/2023 5:25 PM
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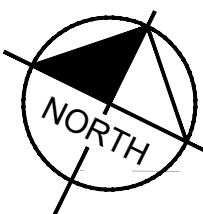
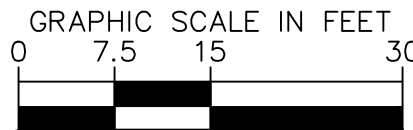
NOTES:

1. SEE SHEET 5 FOR STAKING POINT DATA

EP = EDGE OF PAVEMENT
FL = FLOWLINE
ME = MATCH EXISTING
M&O = MILL & OVERLAY
SWK = SIDEWALK



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Drawing File Name: grading details.dwg
Horiz. Scale: Vert. Scale:
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FINAL PLANS		W 92ND DR/W 93RD DR & CANDELAS PKWY. INTERSECTION IMPROVEMENTS GRADING DETAILS				Project No./Code	
No Revisions:						Project Number	
Revised:		Designer:	MEC			Code	
Void:		Detailer:	TJL			Sheet Number	
		Sheet Subset:	GRAD	Subset Sheet:	1 of 2	4	

K:\DEN_PublicSector\XXXXXX_Candelas Pkwy & 92nd Dr Ped Signal\CADD\PlanSheets\Grading_Details.dwg Loeffler, Tyler 11/30/2023 5:25 PM
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

SPOT ELEVATION DATA SUMMARY				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	1740269.3347	3082899.4900	6050.98	SWK, ME
101	1740277.0923	3082899.6109	6050.72	SWK, ME
102	1740259.5612	3082907.2149	6051.39	SWK, ME
103	1740258.4321	3082917.1517	6051.27	SWK, ME
104	1740258.1500	3082919.6343	6050.94	EP, ME
105	1740257.2964	3082927.1460	6050.93	M&O
106	1740265.0278	3082907.7240	6051.06	SWK
107	1740264.7716	3082917.7312	6051.01	SWK
108	1740270.0352	3082907.5015	6050.68	SWK
109	1740269.9072	3082912.4990	6050.66	SWK
110	1740269.8048	3082916.4980	6050.41	SWK
111	1740269.7561	3082918.4013	6050.30	FL
112	1740276.0347	3082907.5950	6050.56	SWK
113	1740275.9067	3082912.5957	6050.54	SWK
114	1740275.8042	3082916.5962	6050.20	SWK
115	1740275.7541	3082918.5549	6050.04	FL
116	1740281.0266	3082907.9767	6050.43	SWK
117	1740280.7701	3082917.9946	6050.32	SWK
118	1740287.1102	3082907.5903	6050.24	SWK, ME
119	1740287.5882	3082917.5855	6050.04	SWK, ME
120	1740287.7285	3082920.0824	6049.70	EP, ME
121	1740288.9400	3082934.7631	6049.62	M&O
122	1740281.5037	3082934.8549	6049.92	EP, ME
123	1740275.4866	3082935.9869	6050.22	FL
124	1740275.4538	3082937.9881	6050.30	SWK

SPOT ELEVATION DATA SUMMARY				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
300	1740136.1996	3082954.3923	6051.68	SWK, ME
301	1740136.1977	3082959.4278	6051.26	SWK
302	1740135.7634	3082965.4593	6050.76	SWK
303	1740134.8678	3082971.3988	6050.46	SWK
304	1740133.5159	3082977.2473	6050.69	SWK
305	1740131.8698	3082982.5375	6050.23	SWK, ME
306	1740146.2382	3082956.3848	6051.48	SWK, ME
307	1740146.1225	3082961.4059	6051.06	SWK
308	1740146.0944	3082967.5183	6050.55	FL
309	1740144.1272	3082967.1262	6050.59	SWK
310	1740145.1656	3082973.4512	6050.25	FL
311	1740143.2041	3082973.0603	6050.29	SWK
312	1740143.3438	3082979.2061	6050.49	SWK
313	1740141.7040	3082984.6875	6050.02	SWK, ME
314	1740146.5101	3082938.4138	6051.95	M&O
315	1740148.7396	3082956.8813	6051.14	EP, ME
316	1740144.1603	3082985.2244	6049.68	EP, ME
317	1740138.9768	3082998.7111	6049.09	M&O
318	1740176.6289	3082932.6401	6052.52	M&O
319	1740197.7120	3082968.3757	6051.34	M&O
320	1740163.7722	3083008.5667	6049.63	M&O
321	1740190.9400	3082994.5070	6050.41	M&O
322	1740172.2108	3082959.5981	6050.94	EP
323	1740171.7655	3082972.6905	6050.86	FL
324	1740170.5893	3082978.5766	6050.74	FL

SPOT ELEVATION DATA SUMMARY				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
125	1740275.3719	3082942.9911	6050.34	SWK
126	1740269.4836	3082936.1183	6050.38	FL
127	1740269.4384	3082938.8768	6050.36	SWK
128	1740263.1445	3082936.6525	6050.49	SWK
129	1740261.5331	3082943.2397	6050.63	SWK, ME
130	1740266.2045	3082945.5312	6050.28	SWK, ME
131	1740260.6867	3082936.8446	6050.57	SWK
132	1740260.7830	3082943.2223	6050.69	SWK
133	1740252.1441	3082935.1403	6051.17	EP
134	1740254.4640	3082939.1960	6050.99	EP
135	1740257.4709	3082944.4739	6050.96	EP
136	1740250.4041	3082938.1303	6051.14	EP
137	1740252.5700	3082939.9118	6050.97	FL
138	1740255.5768	3082945.1896	6050.94	FL
139	1740256.1333	3082948.1864	6050.89	EP, ME
140	1740272.0789	3082962.9811	6050.22	M&O
141	1740267.2803	3082953.0830	6050.26	EP, ME
142	1740268.0081	3082946.5610	6050.27	SWK
143	1740269.9934	3082950.6563	6050.20	FL
144	1740273.4070	3082943.9436	6050.33	SWK
145	1740275.3924	3082948.0389	6050.01	FL
146	1740282.1190	3082945.8891	6049.75	EP, ME
147	1740286.9772	3082955.7584	6049.74	M&O
148	1740232.6214	3082927.1184	6051.83	M&O
149	1740247.4445	3082953.1366	6051.13	M&O

SPOT ELEVATION DATA SUMMARY				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
325	1740166.6454	3082988.8870	6050.16	EP
326	1740177.7908	3082958.2254	6050.98	EP
327	1740173.7371	3082973.0265	6050.90	SWK
328	1740172.5639	3082978.9130	6050.78	SWK
329	1740170.8672	3082992.5092	6049.87	EP
330	1740181.6388	3082966.7157	6051.05	FL
331	1740179.7400	3082967.4333	6051.09	SWK
332	1740176.8742	3082968.5162	6050.94	SWK
333	1740176.1412	3082973.4361	6050.82	SWK
334	1740174.9694	3082979.3229	6050.70	SWK
335	1740174.3802	3082981.7919	6050.65	SWK
336	1740176.5102	3082986.2109	6050.30	SWK
337	1740177.3789	3082988.0133	6050.16	SWK
338	1740184.7332	3082971.9605	6051.08	FL
339	1740182.8344	3082972.6781	6051.12	SWK
340	1740182.2964	3082972.8814	6051.07	SWK
341	1740181.9404	3082975.0119	6050.93	SWK
342	1740182.0397	3082974.4412	6050.94	SWK
343	1740182.0426	3082975.6625	6050.92	SWK, ME
344	1740181.6172	3082980.8669	6050.56	SWK, ME
345	1740181.2205	3082982.1647	6050.54	SWK
346	1740181.8410	3082983.4521	6050.51	SWK
347	1740182.7098	3082985.2545	6050.35	FL
348	1740185.8842	3082984.7377	6050.40	EP, ME
349	1740187.3767	3082974.4733	6051.08	EP, ME

SPOT ELEVATION DATA SUMMARY				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	1740336.6563	3083005.0008	6049.17	SWK, ME
201	1740334.6620	3083009.6010	6049.24	SWK
202	1740332.8779	3083014.5734	6048.82	SWK
203	1740331.2549	3083020.3537	6048.79	SWK
204	1740330.3445	3083024.6564	6049.16	SWK
205	1740329.6914	3083028.8569	6049.23	SWK, ME
206	1740319.9966	3083027.8051	6049.03	SWK, ME
207	1740317.5108	3083027.5354	6048.70	EP, ME
208	1740320.7556	3083022.8916	6048.96	SWK
209	1740321.2924	3083017.9431	6048.59	FL
210	1740323.2363	3083018.4135	6048.63	SWK
211	1740324.8394	3083012.6282	6048.66	SWK
212	1740322.8912	3083012.1568	6048.62	FL
213	1740325.1020	3083007.2876	6049.05	SWK
214	1740327.0032	3083002.6649	6048.98	SWK, ME
215	1740324.5343	3083002.0675	6048.64	EP, ME
216	1740315.2756	3082999.8270	6049.00	M&O
217	1740323.8896	3082971.2385	6048.91	M&O
218	1740285.6412	3082989.8373	6049.77	M&O
219	1740305.7174	3082991.1945	6049.44	EP
220	1740308.5352	3082993.4666	6049.17	EP
221	1740298.5443	3082995.7945	6049.57	FL
222	1740299.4168	3082997.5942	6049.61	SWK
223	1740301.3512	3083001.5843	6049.47	SWK
224	1740301.0250	3083004.5875	6049.45	SWK

SPOT ELEVATION DATA SUMMARY				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
400	1740210.6925	3083081.6896	6049.38	SWK,ME
401	1740206.4735	3083081.0118	6049.48	SWK
402	1740200.5138	3083080.3155	6048.99	SWK
403	1740194.5217	3083079.9190	6048.97	SWK
404	1740188.4968	3083079.8243	6049.46	SWK
405	1740185.0401	3083079.9071	6049.41	SWK, ME
406	1740212.4549	3083071.8461	6049.33	SWK, ME
407	1740207.5517	3083071.0649	6049.28	SWK
408	1740201.6455	3083069.8753	6048.78	FL
409	1740195.6555	3083069.4586	6048.76	FL
410	1740189.5813	3083069.8189	6049.26	SWK
411	1740184.6560	3083069.9145	6049.21	SWK, ME
412	1740184.5599	3083067.4163	6048.88	EP, ME
413	1740212.8956	3083069.3852	6049.00	SWK
414	1740214.3912	3083061.0319	6049.18	M&O
415	1740183.9104	3083050.5227	6049.30	M&O
416	1740240.4305	3083063.0907	6049.35	M&O
417	1740227.3286	3083032.6797	6049.95	M&O
418	1740204.5845	3083023.7884	6049.90	M&O
419	1740189.9374	3083030.8483	6049.64	M&O
420	1740194.1213	3083051.4043	6049.25	EP, ME
421	1740197.6907	3083050.6834	6049.31	FL
422	1740197.9063	3083048.6942	6049.35	SWK
423	1740203.6745	3083051.1565	6049.34	FL
424	1740203.8902	3083049.1673	6049.47	SWK

SPOT ELEVATION DATA SUMMARY				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
225	1740300.4808	3083009.5972	6049.36	SWK
226	1740302.2317	3083009.7874	6049.21	SWK
227	1740304.2221	3083010.0036	6049.04	FL
228	1740290.0143	3082998.8304	6049.61	EP, ME
229	1740293.1484	3082998.4183	6049.63	FL
230	1740294.0209	3083000.2180	6049.67	SWK
231	1740295.2001	3083002.6503	6049.53	SWK
232	1740295.1716	3083003.9517	6049.51	SWK, ME
233	1740293.2893	3083007.6797	6049.58	SWK
234	1740293.3989	3083008.8280	6049.51	SWK
235	1740293.8680	3083014.9142	6049.38	SWK
236	1740299.8329	3083015.5621	6049.26	SWK
237	1740301.3993	3083015.7323	6049.13	SWK
238	1740303.3878	3083015.9483	6048.97	FL
239	1740303.4045	3083025.7628	6048.80	EP, ME
240	1740292.7227	3083008.8774	6049.59	SWK
241	1740289.4406	3083010.2836	6049.66	SWK
242	1740287.6022	3083011.0712	6049.62	FL
243	1740285.3423	3083008.3358	6049.64	EP, ME
244	1740291.8035	3083015.7987	6049.56	SWK
245	1740289.9651	3083016.5864	6049.52	FL
246	1740292.5563	3083025.1736	6049.32	EP, ME
247	1740274.3120	3083013.0616	6049.90	M&O
248	1740281.5261	3083029.8994	6049.54	M&O

K:\DEN_PublicSector\XXXXXX_Candelas Pkwy & 92nd Dr Ped Signal\CADD\PlanSheets\Signal Plan.dwg Loeffler, Tyler 11/30/2023 5:26 PM
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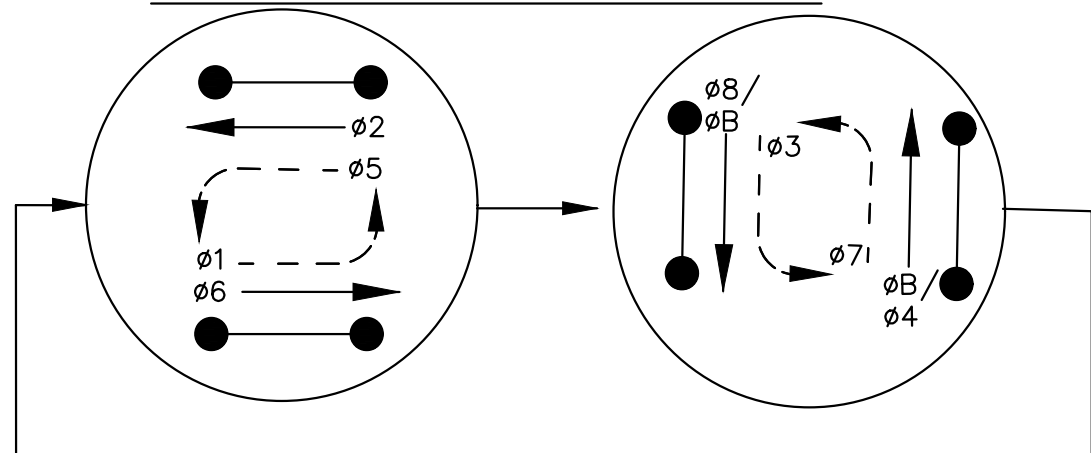
LEGEND

- TRAFFIC SIGNAL POLE, FOUNDATION AND MAST ARM
- PROPOSED TRAFFIC SIGNAL HEAD W/ BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD W/ BACKPLATE AND ARROW
- PROPOSED TRAFFIC SIGNAL W/ ARROW W/O BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD W/O BACKPLATE
- PROPOSED LUMINAIRE
- PROPOSED SIGNAL POLE PUSH BUTTON
- PROPOSED SIGNAL POLE/MAST ARM MOUNTED SIGN
- PROPOSED PEDESTRIAN SIGNAL
- PROPOSED TRAFFIC SIGNAL CONTROLLER & CABINET (TS-2)
- EXISTING POWER METER
- EXISTING PULL BOX
- EXISTING CONDUIT
- PROPOSED DETECTION AREA
- PROPOSED OPTICOM DETECTOR
- PROPOSED WAVETRONIX SMART SENSOR MATRIX (PRESENCE)
- PROPOSED WAVETRONIX SMART SENSOR MATRIX (ADVANCED)
- PROPOSED CCTV CAMERA
- PROPOSED 1-3" SCHEDULE 80 PVC CONDUIT.

CONSTRUCTION NOTES

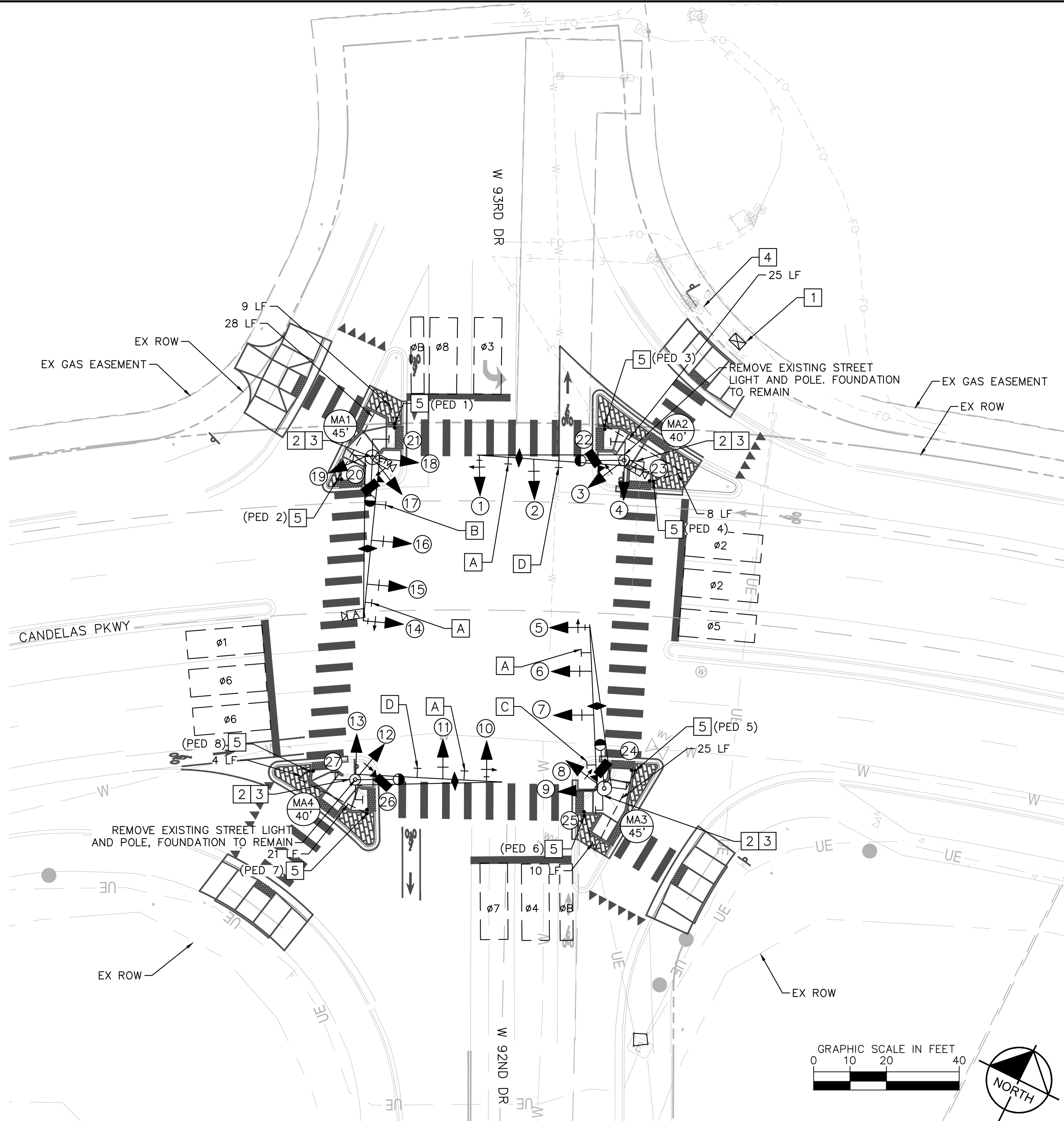
- INSTALL TRAFFIC SIGNAL CONTROLLER AND CABINET (TS-2) ON EXISTING FOUNDATION PER CITY OF ARVADA STANDARD 700-TS-22
- FURNISH AND INSTALL TRAFFIC SIGNAL POLE, AND MAST ARM ON EXISTING FOUNDATION PER CITY OF ARVADA STANDARD 700-TS-21. SIGNAL POLE SHALL BE HOT DIPPED GALVANIZED INSIDE AND OUT ACCORDING TO ASTM A123.
- FURNISH AND INSTALL 15' LUMINAIRE ARM PER CITY OF ARVADA STANDARDS 700-TS-9.
- FURNISH CONNECTION TO EXISTING ELECTRICAL METER.
- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON POST, PUSH BUTTON, AND PLAQUE PER CITY OF ARVADA STANDARD 700-TS-21.

PROPOSED PHASE DIAGRAM

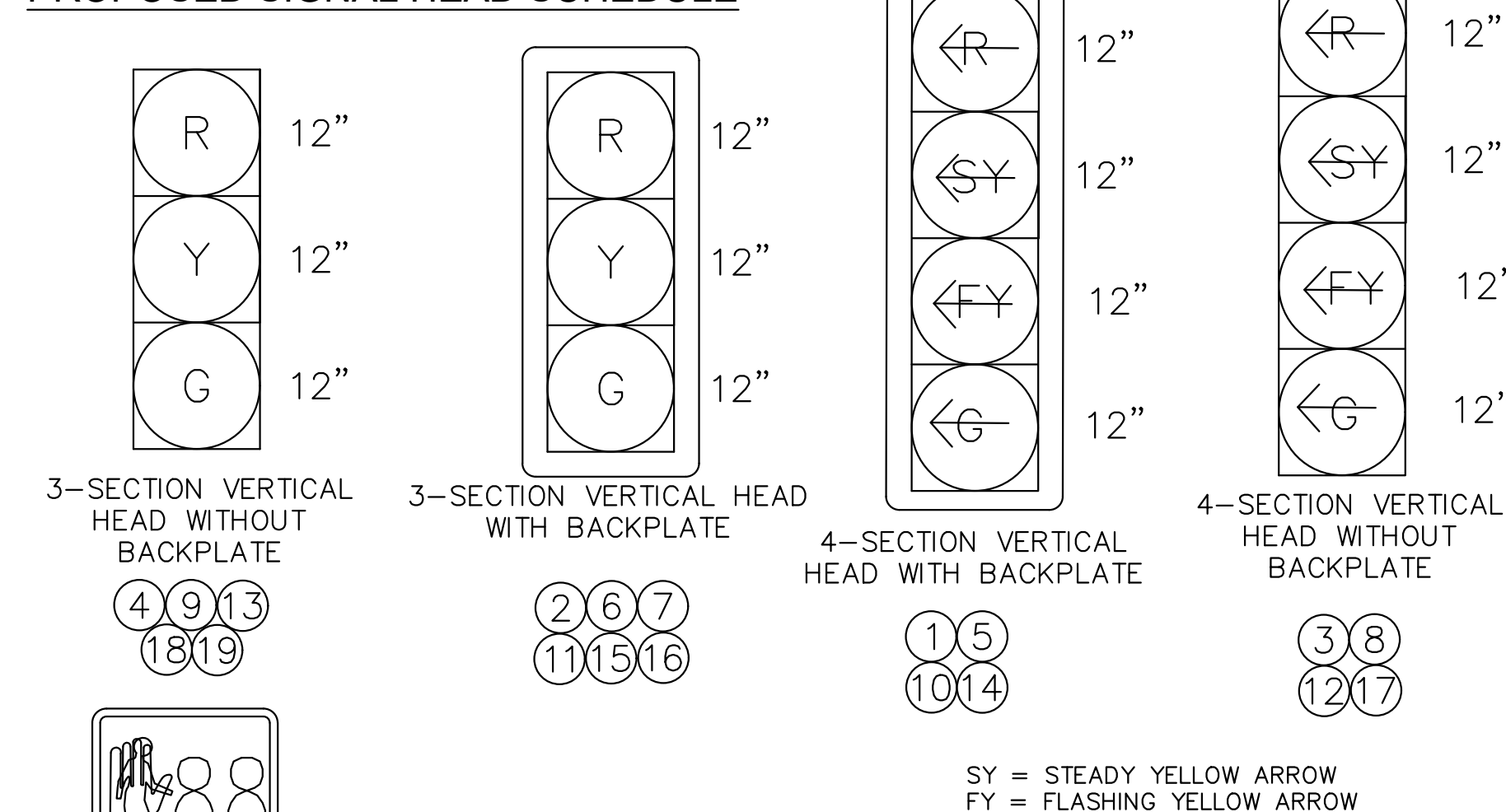


KEY

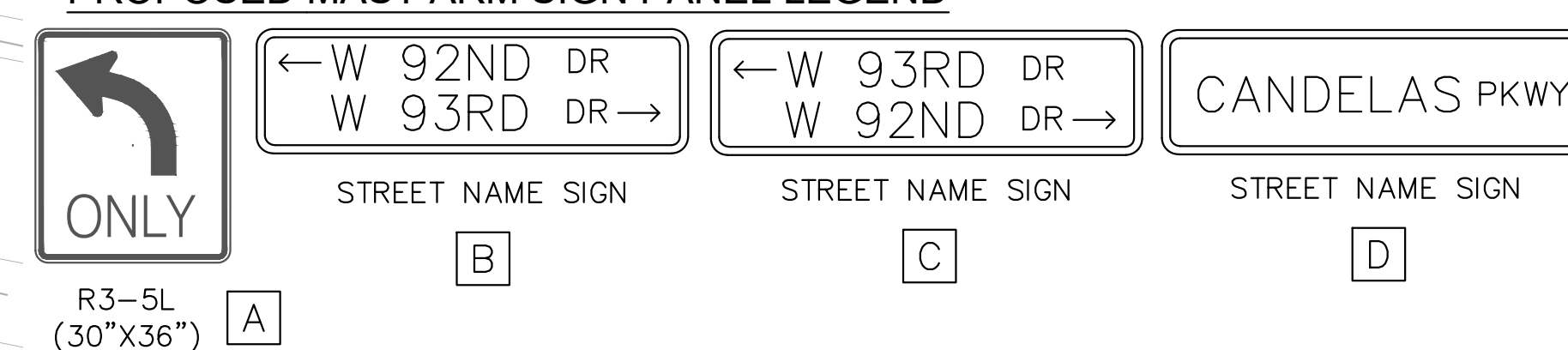
- PROTECTED TRAFFIC MOVEMENT
- PERMISSIVE TRAFFIC MOVEMENT
- PEDESTRIAN MOVEMENT
- 8 PHASE CONTROLLER



PROPOSED SIGNAL HEAD SCHEDULE



PROPOSED MAST ARM SIGN PANEL LEGEND



NOTES

- IT IS ASSUMED EXISTING FOUNDATIONS, CONDUIT, PULL BOXES ARE IN ADEQUATE CONDITION TO BE UTILIZED FOR THE SIGNALIZATION. CONTRACTOR SHALL CONFIRM STATUS OF ITEMS WITH THE CITY OF ARVADA IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION.
- SIGNAL EQUIPMENT SHALL BE PER CITY OF ARVADA STANDARD SPECIFICATIONS & DETAILS SECTION 700.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE CITY OF ARVADA PRIOR TO PROCUREMENT/FABRICATION OF SIGNS.
- CONDUIT/PULL BOXES PREVIOUSLY INSTALLED BY OTHERS. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT/PULL BOXES FOR WIRING OF SIGNAL EQUIPMENT UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL VERIFY CCTV CAMERA PLACEMENT IN FIELD WITH THE CITY.

SIGNAL POLE SCHEDULE

POLE NUMBER	MA1	MA2	MA3	MA4	PED 1	PED 2	PED 3	PED 4	PED 5	PED 6	PED 7	PED 8
DETAIL	ARVADA 700-TS-12	ARVADA 700-TS-12	ARVADA 700-TS-12	ARVADA 700-TS-12	ARVADA 700-TS-21	ARVADA 700-TS-21	ARVADA 700-TS-21	ARVADA 700-TS-21	ARVADA 700-TS-21	ARVADA 700-TS-21	ARVADA 700-TS-21	ARVADA 700-TS-21
MAST ARM LENGTH	45'	40'	45'	40'	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NORTHING/EASTING	N/A	N/A	N/A	N/A	N:1740275.11 E:3082945.60	N:1740254.43 E:3082938.31	N:1740300.30 E:3082997.55	N:1740292.45 E:3083016.41	N:1740219.03 E:3083047.20	N:1740201.53 E:3083040.04	N:1740175.62 E:3082986.25	N:1740179.10 E:3082966.81
FOUNDATION DIAMETER	CONTRACTOR TO VERIFY IN FIELD*	CONTRACTOR TO VERIFY IN FIELD*	CONTRACTOR TO VERIFY IN FIELD*	CONTRACTOR TO VERIFY IN FIELD*	2'	2'	2'	2'	2'	2'	2'	2'
FOUNDATION DEPTH	CONTRACTOR TO VERIFY IN FIELD*	CONTRACTOR TO VERIFY IN FIELD*	CONTRACTOR TO VERIFY IN FIELD*	CONTRACTOR TO VERIFY IN FIELD*	2'	2'	2'	2'	2'	2'	2'	2'

*BASED ON AS-BUILT DRAWINGS AND CITY INVESTIGATION, EXISTING SIGNAL FOUNDATIONS ARE PRESUMED TO BE SUFFICIENT FOR PROPOSED SIGNAL EQUIPMENT. CONTRACTOR SHALL VERIFY SIGNAL FOUNDATION DIMENSION AND CONDITION WITH THE CITY PRIOR TO BEGINING WORK.

APPROVED:

City Engineer: *Jenny Wolfshlag, PE* 12/1/23 23-TC-03
Date Job Number

Review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", latest edition. Sole responsibility for completeness and/or accuracy of these Documents shall remain with the Registered Professional Engineer sealing these plans. The City does not accept liability for facilities designed by others.



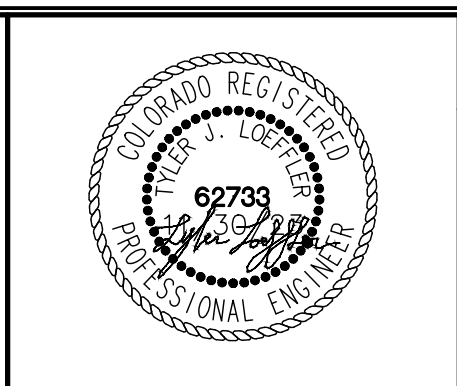
Know what's below.
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Print Date: November 30, 2023
Drawing File Name: signal plan.dwg
Horiz. Scale: Vert. Scale:
Kimley»Horn
KIMLEY-HORN AND ASSOCIATES, INC.
6200 S SYRACUSE WAY,
SUITE #300
GREENWOOD VILLAGE, COLORADO 80111
(303) 228-2300

Sheet Revisions		
Date:	Comments:	Init.

CITY OF ARVADA
8101 RALSTON ROAD
ARVADA, CO 80002
720-898-7000



FINAL PLANS		W 92ND DR/W 93RD DR & CANDELAS PKWY. INTERSECTION IMPROVEMENTS TRAFFIC SIGNAL PLAN		Project No./Code
No Revisions:		Designer: MEC		Project Number
Revised:		Detailer: TJL		Code
Void:		Sheet Subset: SIGNAL	Subset Sheet: 1 of 1	Sheet Number 6



Addendum Description

Addendum No. 2 contains answers to the questions received, the Pre-bid Meeting Agenda and Attendees list.

Notice Modifications

Notice Information	From Value	To Value
No entries		

Category Modifications

Added Categories
No Categories Added

Removed Categories
No Categories Removed

Added Documents[A]

Document	Size	Uploaded Date	Language
Q&A Document 1.pdf [pdf]	4 Kb	01/05/2024 02:24 PM MST	English
Prebid Agenda_City of Arvada Traffic CIP Projects No 20-TC-02, 22-TC-01, 23-TC-03 (2).pdf [pdf]	143 Kb	01/05/2024 02:31 PM MST	English
23-PWT-115 Pre-bid Meeting Sign-In Sheet.pdf [pdf]	582 Kb	01/05/2024 02:31 PM MST	English

Questions & Answers - 1

Project 23-PWT-115 - Traffic Signal and Intersection Improvements (20-TC-07, 22-TC-01, 23-TC-03)
Buying Organization City of Arvada

No	Question/Answer	Question Date
Q1	Question: Questions For the project a: Who is responsible for Materials Testing? b: Who is Responsible for Surveying? c: Are there Davis Bacon Prevailing Wages on this project? Answer: a. The City of Arvada will be responsible for materials testing. b. The Contractor will be responsible for Surveying. c. No, Davis Bacon Prevailing Wages are not required on this project.	12/14/2023
Q2	Question: Question Deadline Can the city extend the question deadline till after the utility report is available for 86th Parkway? Answer: The question deadline was extended. The utility report was for Kipling Pkwy & Allendale Dr, however due to scheduling conflicts it has not yet been completed.	12/21/2023
Q3	Question: Bid Submission Deadline Can the city extend the bid submission deadline to allow for holiday schedule? Answer: Due to the high priority of the projects, the bid deadline cannot be extended.	12/21/2023
Q4	Question: Traffic Signal Will Precast bases be allowed for traffic signal pole installation? Answer: Precast bases will not be allowed.	12/28/2023
Q5	Question: Traffic Signal Please clarify which caisson spec should be used for the traffic signal poles at Kipling Pkwy & Allendale, the LF listed in the Bid Tab matches CDOT spec, while the plans callout to use Arvada Spec (Note 10, Sheet 2). Answer: CDOT pay items were used to standardize Bid Tabs across projects. Arvada Specifications shall be used for cassions.	12/28/2023
Q6	Question: Arvada Standards & Specifications Please confirm which Arvada Standards & Specs should be referenced for this project, the Project Specials call out the 2022 version and the Bid Advertisement shows 2023. Answer: The 2023 City of Arvada Standards & Specifications shall be used.	12/28/2023
Q7	Question: Staging area Will any staging areas be provided for the project? Answer: No staging area has been designated for these projects.	12/28/2023

No	Question/Answer	Question Date
Q8	Question: Temporary Easement Please confirm the temporary easement duration, the Project Special show 4 months, while the plans show 6 months. Answer: The easement duration is for 6 months.	12/28/2023
Q9	Question: Potholing hours I know the City is doing their own potholing, but will any other potholing hours be allowed? Answer: Additional potholing by the contractor will be allowed and is included in the bid tab for Kipling Pkwy and Allendale Dr.	12/28/2023

City of Arvada, Project No. 20-TC-07, 22-TC-01, 23-TC-03

Kipling Pkwy & Allendale Dr Intersection Improvements, W 86th Pkwy Signal Connectivity, Candelas Pkwy & 92nd/93rd Dr Traffic Signal Improvements

December 14, 2023 – 11:00 AM Mandatory Pre-Bid Agenda

1. Introductions
2. Project Summaries
 - a. 20-TC-07 Kipling Pkwy & Allendale Dr
 - i. Removal of existing Signal Poles and equipment
 - ii. New Traffic Signal Poles & Caissons
 - iii. New Traffic Signal Equipment
 - iv. Traffic Cabinet Relocation
 - v. Ramp Improvements
 - vi. Asphalt Overlay
 - vii. Pavement Markings
 - viii. Connect to Fiber Backbone
 - b. 22-TC-01 W 86th Pkwy Signal Connectivity
 - i. Removal of existing traffic signal equipment
 - ii. Installation of new Traffic Signal equipment
 - iii. Connect to Fiber Backbone (not part of project)
 - c. 23-TC-03 Candelas Pkwy & 92nd/93rd Dr
 - i. New Traffic Signal Poles on existing foundations
 - ii. New Traffic Signal Equipment
 - iii. Ramp Improvements
3. Project Schedule – Work can be completed on projects simultaneously; however 23-TC-3 **must** be priority.
4. Bid Schedule
 - a. Bids due January 9, 2024 at 2:00 pm via BidNet
 - b. Questions must be submitted via BidNet. Last day for questions is December 21, 2023
 - c. Addendum will be issued and will include, at a minimum, the sign-in sheet for this meeting and this agenda.
 - d. Goal is for the selected contractor to be selected in mid January and be under contract by mid February

ATTENDANCE SHEET

Bid # 23-PWT-115 Traffic Signal and Intersection Improvements (20-TC-07, 22-TC-01, 23-TC-03)

Meeting Date/Time: 12/14/2023 - 11:00 am MT MANDATORY

Facilitator: Trandon Struck

Place: Arvada City Hall, PW Conference Room, 2nd Floor 8101 Ralston Rd, Arvada, CO 80002

	Representative Name	Phone	E-Mail	Signature
Lighthouse Transportation Group	Samantha Larson	31390-0210 Ext 2	samantha.larson@lighthouse.org	Samantha Larson
Lumin 8	Timothy McGinn	720-219-7089	timcgin@lumin8.com	[Signature]
STURGEON	CHRIS CERVERA	303-591-0769	CCERVERA@MYRGAORV.COM	[Signature]
Morton Electric	TJ Grace	719-964-0823	tj@morton-electric.com	[Signature]
KECI CIVIL	STEVE O'HANLON	303-472-5937	Steve@keci.co	[Signature]
ATIOM concrete	Dorge Alvarez	720 877-9786	Barry mason	[Signature]
Bellevue Handy	JARCO Construction	719-888-0350	Customer Service @ Jarco Construction	[Signature]
Goodland Construction	Cameron Eckley	303-278-8100	Ryan@goodlandconstruction.com	[Signature]

Exhibit B

**An Agreement By And Between The City Of Arvada And
Sturgeon Electric Company, Inc. For Traffic Signal And
Intersection Improvements, Project Nos. 20-TC-07, 22-TC-01,
And 23-TC-03, In An Amount Not To Exceed \$2,414,978.50**

BID PROPOSAL

TO: City of Arvada, Colorado (hereinafter called "CITY").

FROM: Sturgeon Electric Company (hereinafter called "BIDDER"), organized and existing under the laws of the State of CO doing business as (a corporation), (a partnership), (an individual).

The Bidder, in compliance with your Advertisement for Bids, hereby proposes to perform all Work in strict accordance with the Contract Documents, for the construction of City of Arvada Project No. Below entitled Traffic Signals/Conectivity within the time set forth therein, and at the prices stated on the included Bid Schedule as totaled herein.
20-TC-07, 22-TC-01, 23-TC-03

By submission of this Bid Proposal, each Bidder certifies, and in the case of a joint venture each party thereto certifies as to his/her own organization, that this Bid Proposal has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid Proposal with any other Bidder or with any competitor.

Bidder acknowledges receipt of Addendum Nos. Initials: JH (1) (2)

Bidder states that their:

Major Material Suppliers are:

TSC
MH Lighting
Summit Traffic

Material They Will Supply

Traffic Equip
Traffic Poles
MW Detection

Major Subcontractors are:

Chatos Concrete
Zenitram
Drilltech

Work They Will Perform

Concrete
Traffic Control
Boring

20-TC-07 KIPLING PKWY & ALLENDALE DR INTERSECTION IMPROVEMENTS

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **90** working days after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about January 22, 2024. The bidder shall agree to pay the owner the sum of \$1,400 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

20-TC-07 KIPLING PKWY & ALLENDALE DR INTERSECTION IMPROVEMENTS

Bid Schedule: \$ 863,928.50

22-TC-01 W 86th Pkwy Signal Connectivity

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **45** working days after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about January 22, 2024. The bidder shall agree to pay the owner the sum of \$1,400 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

22-TC-01 W 86th Pkwy Signal Connectivity

Bid Schedule: \$ 802,041.00

23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **60** working days after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about January 22, 2024. The bidder shall agree to pay the owner the sum of \$1,400 for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements

Bid Schedule: \$ 749,009.00

TOTAL FROM ALL BID SCHEDULES

TOTAL BID \$ 2,414,978.50

SUBMITTED BY:

Company Name: Sturgeon Electric Co

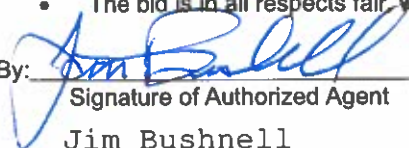
Contact Names: John Hart

Address: 12150 E 112 Ave, Henderson CO 80640

Phone: (303) 286-8000 Email(s): jhart@myrgroup.com

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the Contractor;
- He/she has read all Terms and Conditions and technical specifications made available in conjunction with this solicitation and fully accept and acknowledge this bid is consistent with the specifications and terms and conditions.
- The bid is in all respects fair, without outside collusion or otherwise illegal action.

By: 	<u>1-9-24</u>	<u>84-0681206</u>
Signature of Authorized Agent	Date	FEIN
<u>Jim Bushnell</u>	<u>VP Colorado Trans</u>	<u>jbushnell@myrgroup.com</u>
Typed/Printed Name of Agent	Title of Agent	Agent email

PAYMENT TERMS: The City standard is net thirty (30) days but every effort is made to meet net fifteen (15) days after the approved partial payment date when the contractor is satisfactorily performing the contract. The final 5% of total payment will be paid once the contract is completed satisfactorily, advertisement for final settlement is complete, and the project is accepted by the City. Payment is the date of the check mailing or date of the credit card transaction.

REQUIRED CONTRACTOR SUBMITTAL FORM

SUBMITTAL CHECKLIST:

Bid Proposals shall be submitted in the order listed below with each section clearly identified. **Missing information or required documents may result in submission being deemed non-responsive.**

- ☒ Submit completed Bid Bond, Bid Proposal, Bid Schedules, Required Contractor Submittal, and any other attachments requested.
- ☐ Submit implementation timeline and warranties, if applicable. NA
- ☐ Attach Contractor's Licensing, if applicable. NA
- ☒ Insurance – Checking this box accepts that the insurance requirements listed by the City are acceptable.
- ☐ Variations: Checking this box indicates that the contractor has variations to this solicitation. Identify all variations and exceptions to this CSB on a separate sheet/s of paper. If variations are not stated in the contractor's Offer, it shall be agreed that the contractor's Offer fully complies with all conditions identified in this Solicitation. For each variation listed, reference the applicable section of the solicitation document, the page number, and the variance. Submittal of a vendor contract is considered excessive in variations and may be cause for determining that the Bid is non-responsive and ineligible for award.

REFERENCES:

- ☒ Check here if Contractor's standard reference sheet is attached, otherwise, use the space below.

Name: Kraemer Contact Person: Nancy Guerrero

Address: 900 W Castleton Rd, Ste 220, Castle Rock CO 80109

Telephone No: 303-688-7500 Email: nguerrero@kraemerna.com

Describe type of work/service performed or items supplied: Electrical

Name: SEMA Contact Person: Jeff Markle-VP

Address: 7353 S Eagle St, Centennial CO 80112

Telephone No: 303-627-2600 Email: jmarkle@sema.inc

Describe type of work/service performed or items supplied: Electrical

Name: Ames Contact Person: Tracy Allen

Address: 18450 E 28 Ave, Aurora CO 80011

Telephone No: 303-363-1000 Email: tracy.allen@amesco.com

Describe type of work/service performed or items supplied: Electrical

BID SCHEDULE



23-PWT-115 Traffic Signal and Intersection Improvements

Bid # and Title

Arvada Project No. 20-TC-07 Kipling Pkwy & Allendale Dr Intersection Improvements

Project No. and Title

Sturgeon Electric Company, Inc.

Contractor

12150 E 112th Ave Henderson, CO 80640

Address, City, ZIP

303-515-0349

Telephone

John Hart

1/9/2024

Bid Prepared By

Date

PAY ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL PRICE
201-00000	CLEARING AND GRUBBING	1	LS	\$ 1,300.00	\$ 1,300.00
202-00190	REMOVAL OF MEDIAN COVER MATERIAL	64	SY	\$ 28.00	\$ 1,792.00
202-00200	REMOVAL OF SIDEWALK	67	SY	\$ 30.00	\$ 2,010.00
202-00203	REMOVAL OF CURB AND GUTTER	330	LF	\$ 23.00	\$ 7,590.00
202-00206	REMOVAL OF CONCRETE CURB RAMP	48	SY	\$ 32.00	\$ 1,536.00
202-00220	REMOVAL OF ASPHALT MAT	93	SY	\$ 30.00	\$ 2,790.00
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	6117	SY	\$ 4.00	\$ 24,468.00
202-00250	REMOVAL OF PAVEMENT MARKING	545	SF	\$ 2.50	\$ 1,362.50
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	1	LS	\$ 8,500.00	\$ 8,500.00
202-00840	REMOVAL OF TRAFFIC SIGNAL POLE	3	EACH	\$ 3,300.00	\$ 9,900.00
203-01598	POTHOLING	5	EACH	\$ 500.00	\$ 2,500.00
208-00007	EROSION CONTROL LOG TYPE 2 (8 INCH)	50	LF	\$ 32.00	\$ 1,600.00
208-00045	CONCRETE WASHOUT AREA	1	EACH	\$ 5,800.00	\$ 5,800.00
208-00070	VEHICLE TRACKING CONTROL	1	EACH	\$ 7,500.00	\$ 7,500.00
208-00200	EROSION CONTROL MANAGEMENT	1	LS	\$ 6,200.00	\$ 6,200.00
210-00810	RESET GROUND SIGN	1	EACH	\$ 1,300.00	\$ 1,300.00
212-01200	LANDSCAPE RESTORATION	1	LS	\$ 10,000.00	\$ 10,000.00
403-00721	HOT MIX ASPHALT (PATCHING) (ASPHALT)	78	SY	\$ 165.00	\$ 12,870.00
403-09211	STONE MATRIX ASPHALT	1070	TONS	\$ 87.00	\$ 93,090.00
503-00036	DRILLED SHAFT (36 INCH)	39	LF	\$ 1,000.00	\$ 39,000.00
608-00006	CONCRETE SIDEWALK (6 INCH)	35	SY	\$ 105.00	\$ 3,675.00
608-00010	CONCRETE CURB RAMP	106	SY	\$ 180.00	\$ 19,080.00
609-21011	CURB AND GUTTER TYPE 2 (SECTION I-M)	185	LF	\$ 46.00	\$ 8,510.00
609-21020	CURB AND GUTTER TYPE 2 (SECTION II-B)	50	LF	\$ 56.00	\$ 2,800.00
610-00020	MEDIAN COVER MATERIAL (PATTERNED CONCRETE)	540	SF	\$ 28.00	\$ 15,120.00
612-00001	TYPE 1 DELINEATOR IN 3" PVC SLEEVE	4	EACH	\$ 1,250.00	\$ 5,000.00
613-00200	2 INCH ELECTRICAL CONDUIT (BORED)	195	LF	\$ 32.00	\$ 6,240.00
613-00206	3 INCH ELECTRICAL CONDUIT (BORED)	520	LF	\$ 45.00	\$ 23,400.00
613-00300	2 INCH ELECTRICAL CONDUIT (TRENCHED)	120	LF	\$ 31.00	\$ 3,720.00
613-00306	3 INCH ELECTRICAL CONDUIT (TRENCHED)	520	LF	\$ 36.00	\$ 18,720.00
613-07026	PULL BOX (TYPE M)	2	EACH	\$ 2,000.00	\$ 4,000.00
613-07035	PULL BOX (TYPE LG)	4	EACH	\$ 3,200.00	\$ 12,800.00
613-10000	WIRING	1	LS	\$ 24,000.00	\$ 24,000.00
613-13004	LUMINAIRE (LED)	4	EACH	\$ 1,350.00	\$ 5,400.00
613-80130	SERVICE METER HOUSING	1	EACH	\$ 7,350.00	\$ 7,350.00
614-00025	SIGN PANEL (CLASS 1) (INSTALL ONLY)	14	EACH	\$ 350.00	\$ 4,900.00
614-10160	SIGNAL HEAD BACKPLATE	11	EACH	\$ 250.00	\$ 2,750.00
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	4	EACH	\$ 1,000.00	\$ 4,000.00
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	16	EACH	\$ 1,750.00	\$ 28,000.00
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	2	EACH	\$ 2,100.00	\$ 4,200.00
614-70560	TRAFFIC SIGNAL FACE (12-12-12-12-12)	2	EACH	\$ 2,250.00	\$ 4,500.00

614-72855	TRAFFIC SIGNAL CONTROL CABINET	1	EACH	\$ 26,000.00	\$ 26,000.00
614-72862	PEDESTRIAN PUSH BUTTON STATION AND SIGN	4	EACH	\$ 2,600.00	\$ 10,400.00
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (CDOT S-614-45)	2	EACH	\$ 1,800.00	\$ 3,600.00
614-72864	FIRE PREEMPTION UNIT	4	EACH	\$ 4,000.00	\$ 16,000.00
614-72887	MICROWAVE VEHICLE RADAR DETECTOR	6	EACH	\$ 10,000.00	\$ 60,000.00
614-75840	TRAFFIC SIGNAL CONTROLLER (INSTALL ONLY)	1	EACH	\$ 1,100.00	\$ 1,100.00
614-81130	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-30 FOOT MAST ARM)	1	EACH	\$ 26,000.00	\$ 26,000.00
614-81135	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-35 FOOT MAST ARM)	2	EACH	\$ 33,000.00	\$ 66,000.00
614-86800	UNINTERRUPTED POWER SUPPLY	1	EACH	\$ 7,400.00	\$ 7,400.00
614-87010	FIBER OPTIC CABLE (SINGLE MODE) 12 FIBER	25	LF	\$ 155.00	\$ 3,875.00
614-87333	CLOSED CIRCUIT TELEVISION CAMERA (TRAFFIC SURVEILLANCE)	1	EACH	\$ 6,300.00	\$ 6,300.00
614-87350	TEST FIBER OPTIC CABLE	1	LS	\$ 500.00	\$ 500.00
614-87690	ETHERNET SWITCH	1	EACH	\$ 6,000.00	\$ 6,000.00
625-00000	CONSTRUCTION SURVEYING	1	LS	\$ 11,000.00	\$ 11,000.00
626-00000	MOBILIZATION	1	LS	\$ 78,000.00	\$ 78,000.00
627-00013	PAVEMENT MARKING PAINT (HIGH BUILD)	940	SF	\$ 3.00	\$ 2,820.00
627-30410	INLAID PREFORMED THERMOPLASTIC PAVEMENT MARKING	705	SF	\$ 20.00	\$ 14,100.00
630-00003	UNIFORMED TRAFFIC CONTROL	8	HR	\$ 180.00	\$ 1,440.00
630-00012	TRAFFIC CONTROL MANAGEMENT	30	DAY	\$ 1,300.00	\$ 39,000.00
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	20	EACH	\$ 12.00	\$ 240.00
630-80355	PORTABLE MESSAGE SIGN PANEL	4	EACH	\$ 1,100.00	\$ 4,400.00
630-80360	DRUM CHANNELIZATION DEVICES	40	EACH	\$ 12.00	\$ 480.00
700-70010	F/A MINOR CONTRACT REVISIONS	1	F/A	\$ 25,000.00	\$ 25,000.00
700-70082	F/A FURNISH AND INSTALL ELECTRIC SERVICE	1	F/A	\$ 5,000.00	\$ 5,000.00

Payment will be based on actual quantities performed

TOTAL BID \$ 863,928.50

Total Bid Written: _____

_____ Eight Hundred Sixty Three Thousand Nine Hundred Twenty Eight Dollars and 50 Cents

BID SCHEDULE



23-PWT-115 Traffic Signal and Intersection Improvements

Bid # and Title

Arvada Project No. 22-TC-01 W 86th Pkwy Signal Connectivity

Project No. and Title

Sturgeon Electric Company, Inc.

Contractor

12150 E 112th Ave Henderson, CO 80640

Address, City, ZIP

303-515-0349

Telephone

John Hart

Bid Prepared By

1/9/2024

Date

PAY ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL PRICE
	Removal of Traffic Signal Equipment	1	LS	\$ 16,000.00	\$ 16,000.00
	Potholing	15	EACH	\$ 500.00	\$ 7,500.00
	Reset Traffic Signal Controller	1	EACH	\$ 950.00	\$ 950.00
	2 Inch Electrical Conduit (Bored)	235	LF	\$ 32.00	\$ 7,520.00
	2 Inch Electrical Conduit (Plastic)	91	LF	\$ 31.00	\$ 2,821.00
	3 Inch Electrical Conduit (Plastic)	40	LF	\$ 36.00	\$ 1,440.00
	Type 4 Pull Box (24x36x24)	2	EACH	\$ 3,400.00	\$ 6,800.00
	Wiring	1	LS	\$ 38,000.00	\$ 38,000.00
	Sign Panel (Class 1)(Install Only)	27	EACH	\$ 350.00	\$ 9,450.00
	12 Inch LED (Ball)	126	EACH	\$ 225.00	\$ 28,350.00
	Modification of Signal Face (Reflective Stripes)	23	EACH	\$ 250.00	\$ 5,750.00
	Traffic Signal Face (12-12-12)	13	EACH	\$ 1,750.00	\$ 22,750.00
	Traffic Signal Face (12-12-12-12)	14	EACH	\$ 2,100.00	\$ 29,400.00
	Traffic Signal Controller Cabinet	2	EACH	\$ 26,000.00	\$ 52,000.00
	Pedestrian Push Button	40	EACH	\$ 2,000.00	\$ 80,000.00
	Fire Preemption Unit	2	EACH	\$ 4,000.00	\$ 8,000.00
	Microwave Vehicle Radar Detector	24	EACH	\$ 11,000.00	\$ 264,000.00
	Traffic Signal Controller	2	EACH	\$ 4,800.00	\$ 9,600.00
	Closed Circuit Television (Traffic Surveillance)	8	EACH	\$ 6,300.00	\$ 50,400.00
	Construction Surveying	16	HOURL	\$ 700.00	\$ 11,200.00
	Mobilization	1	LS	\$ 60,000.00	\$ 60,000.00
	Flagging	320	HOURL	\$ 32.00	\$ 10,240.00
	Uniformed Traffic Control	32	HOURL	\$ 180.00	\$ 5,760.00
	Traffic Control Inspection	4	DAY	\$ 55.00	\$ 220.00
	Traffic Control Management	40	DAY	\$ 875.00	\$ 35,000.00
	Construction Traffic Sign (Panel Size A)	16	EACH	\$ 22.00	\$ 352.00
	Construction Traffic Sign (Panel Size B)	14	EACH	\$ 17.00	\$ 238.00
	Portable Message Sign Panel	4	EACH	\$ 1,700.00	\$ 6,800.00
	Advance Warning Sequencing Arrow Panel (Type A)	2	EACH	\$ 575.00	\$ 1,150.00
	Traffic Cones	50	EACH	\$ 7.00	\$ 350.00
	F/A Minor Contract Revisions	1	FA	\$ 10,000.00	\$ 10,000.00
	F/A Relocate Utilities	1	FA	\$ 10,000.00	\$ 10,000.00
	F/A Erosion Control	1	FA	\$ 10,000.00	\$ 10,000.00

Payment will be based on actual quantities performed

TOTAL BID \$ 802,041.00

Total Bid Written: _____

_____ Eight Hundred Two Thousand Forty One Dollars and Zero Cents

BID SCHEDULE



23-PWT-115 Traffic Signal and Intersection Improvements

Bid # and Title

Arvada Project No. 23-TC-03 W 92nd Dr-W 93rd Dr & Candelas Pkwy Traffic Signal Improvements

Project No. and Title

Sturgeon Electric Company, Inc.

Contractor

12150 E 112th Ave Henderson, CO 80640

Address, City, ZIP

303-515-0349

Telephone

John Hart

1/9/2024

Bid Prepared By

Date

PAY ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	TOTAL PRICE
202-00195	REMOVAL OF MEDIAN COVER	28	SY	\$ 35.00	\$ 980.00
202-00200	REMOVAL OF SIDEWALK	219	SY	\$ 30.00	\$ 6,570.00
202-00203	REMOVAL OF CURB & GUTTER	409	LF	\$ 23.00	\$ 9,407.00
202-00220	REMOVAL OF ASPHALT MAT (FULL DEPTH)	109	SY	\$ 30.00	\$ 3,270.00
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	518	SY	\$ 10.00	\$ 5,180.00
202-00250	REMOVAL OF PAVEMENT MARKING	100	SF	\$ 2.50	\$ 250.00
202-00810	REMOVAL OF GROUND SIGN	2	EA	\$ 150.00	\$ 300.00
202-00819	REMOVAL OF FLEX POST	5	EA	\$ 150.00	\$ 750.00
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	1	LS	\$ 6,300.00	\$ 6,300.00
210-00810	RESET GROUND SIGN	3	EA	\$ 1,100.00	\$ 3,300.00
210-00827	RESET PULL BOX	3	EA	\$ 1,450.00	\$ 4,350.00
210-01710	RESET VALVE BOX	1	EA	\$ 550.00	\$ 550.00
212-012000	LANDSCAPE RESTORATION	1	LS	\$ 10,000.00	\$ 10,000.00
403-00720	HOT MIX ASPHALT (PATCHING) (FULL DEPTH)	109	SY	\$ 165.00	\$ 17,985.00
403-00729	HOT MIX ASPHALT (2 INCH OVERLAY)	518	SY	\$ 48.00	\$ 24,864.00
608-00006	CONCRETE SIDEWALK (6 INCh0	196	SY	\$ 105.00	\$ 20,580.00
609-21019	6 INCH VERTICAL CURB & 1 FOOT GUTTER	283	LF	\$ 48.00	\$ 13,584.00
609-21029	6 INCH VERTICAL CURB & 2 FOOT GUTTER	116	LF	\$ 58.00	\$ 6,728.00
610-00030	MEDIAN COVER MATERIAL (CONCRETE)	52	SY	\$ 28.00	\$ 1,456.00
613-10000	WIRING	1	LS	\$ 24,000.00	\$ 24,000.00
613-13000	LUMINAIRE (LED) - 15' LENGTH	4	EA	\$ 1,350.00	\$ 5,400.00
614-00012	SIGN PANEL (CLASS II)	39	SF	\$ 25.00	\$ 975.00
614-00019	STREET NAME SIGN	4	EA	\$ 600.00	\$ 2,400.00
614-00216	STEEL SIGNPOST (2X2 INCH TUBING)	20	LF	\$ 130.00	\$ 2,600.00
614-10160	SIGNAL HEAD BACKPLATES	10	EA	\$ 250.00	\$ 2,500.00
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	8	EA	\$ 1,000.00	\$ 8,000.00
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	11	EA	\$ 1,750.00	\$ 19,250.00
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	8	EA	\$ 2,100.00	\$ 16,800.00
614-72855	TRAFFIC SIGNAL CONTROLLER & CABINET (TS-2)	1	EA	\$ 32,000.00	\$ 32,000.00
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY	8	EA	\$ 1,950.00	\$ 15,600.00
614-72864	FIRE PREEMPTION DETECTOR (OPTICOM)	4	EA	\$ 4,000.00	\$ 16,000.00
614-72895	WAVETRONIX SMART SENSOR (PRESENCE)	4	EA	\$ 11,000.00	\$ 44,000.00
614-72895	WAVETRONIX SMART SENSOR (ADVANCE)	2	EA	\$ 11,000.00	\$ 22,000.00
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40' MAST ARM)	2	EA	\$ 34,000.00	\$ 68,000.00
614-81145	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-45' MAST ARM)	2	EA	\$ 36,000.00	\$ 72,000.00
614-87320	CLOSED CIRCUIT TELEVISION CAMERA	1	EA	\$ 6,300.00	\$ 6,300.00
614-86800	UNINTERRUPTED POWER SUPPLY	1	EA	\$ 7,400.00	\$ 7,400.00
626-00000	MOBILIZATION	1	LS	\$ 44,000.00	\$ 44,000.00
627-00002	THERMOPLASTIC PAVEMENT MARKING	1544	SF	\$ 20.00	\$ 30,880.00
627-00008	MODIFIED EPOXY PAVEMENT MARKING	1	GAL	\$ 500.00	\$ 500.00
630-00016	TRAFFIC CONTROL	1	LS	\$ 62,000.00	\$ 62,000.00

700-70010	F/A MINOR CONTRACT REVISIONS	1	F/A	\$ 80,000.00	\$ 80,000.00
700-70380	F/A EROSION CONTROL	1	F/A	\$ 25,000.00	\$ 25,000.00
700-90090	F/A ELECTRICAL SERVICE	1	F/A	\$ 5,000.00	\$ 5,000.00
<i>Payment will be based on actual quantities performed</i>				TOTAL BID	<u>\$ 749,009.00</u>

Total Bid Written: _____
_____ Seven Hundred Forty Nine Thousand Nine Dollars and Zero Cents



REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
8.A.2.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: R24-024, A Resolution Authorizing a License Agreement by and between the City of Arvada and the City and County of Denver, Board of Water Commissioners, for the Installation of Fiber Optic Conduit at the Long Lake Sporting Complex

Report in Brief

This is a license agreement between the City of Arvada and the City and County of Denver, Board of Water Commissioners that will authorize the City of Arvada to install one, two inch fiber optic conduit across the Denver Water easement at the Long Lake Sporting Complex to allow network connectivity to the soccer concession building at the complex. The project is part of an improvement to the Long Lake access gate where a new automatic gate is being installed to increase operation efficiencies and security.

The Arvada team recommends that the City Council approve R24-024, A Resolution Authorizing a License Agreement by and between the City of Arvada and the City and County of Denver, Board of Water Commissioners, for the Installation of Fiber Optic Conduit at the Long Lake Sporting Complex.

Financial Impact

This item has no fiscal impact.

Background

The Vibrant Community and Neighborhoods Department is installing a new automatic gate at the Long Lake Sporting Complex, 17850 W 64th Avenue. The project consists of removing the current swing gate and installing a new automatic gate located by the baseball parking lot entry point. The new automatic gate will increase security and will have the ease of controlling entry with scheduled events, eliminating the need for personnel to open the gate. This will also ease traffic congestion and the risk of backing up on W 64th Ave. during busy event days. The new automatic gate requires the installation of City fiber to make the connection operable with the security access control system.

As fiber is required for the automatic gate project, VCN requested to also have fiber installed to the outbuildings, including the baseball field facility and the soccer concession building. By adding fiber to these buildings, it allows the department to increase security, so the doors are controlled by the access control system. In order to connect the soccer facility, one two-inch fiber optic conduit needs to run across the Denver Water easement.

This project benefits security and efficiency in the operations at the Long Lake Sporting Complex.

Discussion

Public Contact

Posting of the City Council agenda.

Commission Recommendation

NA

Strategic Alignment

This aligns with the Vibrant Community and Neighborhoods Department principle: Enhances community health and quality of life by promoting active lifestyles and connecting Arvada's youth with the outdoors; Provides youth sports organizations with the highest quality of fields to ensure a safe and enriching playing environment for recreational and competitive sports.

Alternative Courses of Action

NA

Recommendation for Action

The Arvada team recommends that the City Council approve the license agreement between City and County of Denver and the Board of Water Commissioners authorizing the City of Arvada to install one, two inch fiber optic conduit across the Denver Water easement at the Long Lake Sporting Complex.

Suggested Motion:

I move that R24-024, A Resolution Authorizing a License Agreement by and between the City of Arvada and the City and County of Denver, Board of Water Commissioners, for the Installation of Fiber Optic Conduit at the Long Lake Sporting Complex, be (approved) (rejected).

Prepared by:
Patricia Carrico, Public Works Project Manager

Reviewed by:

Approved by:

Jacqueline Rhoades, Public Works Director	2/15/2024
Bryan Archer, Director of Finance	2/15/2024
Tammy Hedlund, Legal Specialist	2/16/2024
Kelsy Sargent, Assistant City Attorney	2/16/2024
Rachel Morris, City Attorney	2/21/2024
Don Wick, Deputy City Manager	2/21/2024
Lorie Gillis, City Manager	2/22/2024

Enclosure, exhibits & attachments required to support the report

RESOLUTION NO. R24-024

A RESOLUTION AUTHORIZING A LICENSE AGREEMENT BY AND BETWEEN THE CITY OF ARVADA AND THE CITY AND COUNTY OF DENVER, BOARD OF WATER COMMISSIONERS. FOR THE INSTALLATION OF FIBER OPTIC CONDUIT AT THE LONG LAKE SPORTING COMPLEX

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. The Mayor or Mayor Pro Tem is authorized to sign and the City Clerk to attest, in form approved by the City Attorney, a license agreement, which is in substantially the same form as that attached hereto, by and between the City of Arvada and the City and County of Denver, acting by and through its Board of Water Commissioners, to allow for the construction and installation of fiber optic conduit at the Long Lake Sporting Complex.

Section 2. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 4th day of March, 2024.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney

By: _____

AGREEMENT DATE: _____
(To be completed by Denver Water – Property Management)

LICENSE AGREEMENT

THIS LICENSE AGREEMENT (“**Agreement**”) is made between the CITY AND COUNTY OF DENVER, acting by and through its BOARD OF WATER COMMISSIONERS, a municipal corporation of the State of Colorado, (“**Board**”) and CITY OF ARVADA, a home rule municipal corporation of the State of Colorado (“**Licensee**”). The term “**Licensee**” includes employees, agents, and contractors of the Licensee. Each party to this Agreement may be referred to individually as “**Party**,” and collectively as “**Parties**.” The Parties agree as follows:

AGREEMENT

1. **GRANT:** The Board, for itself and its successors and assigns, subject to the covenants hereinafter set forth, does hereby authorize the Licensee to construct, utilize, maintain, repair, and reinstall (collectively “**Work**”) **ONE TWO INCH ORANGE FIBER OPTIC CONDUIT** (“**Installation**”) within and across the Board’s Conduit 16 & Conduit 22 Property at the location described on the Board’s CAD drawing 22392-1 included in the attached and incorporated **Exhibit A** (“**Licensed Area**”). The Licensee shall maintain a copy of this Agreement on the job site during any Work authorized by this Agreement.
2. **LICENSE FEE AND OTHER COSTS:** The Licensee shall pay the Board a license fee specified by the Board for the rights granted by this Agreement (“**License Fee**”). The License Fee includes eight hours of inspection time by the Board. The Licensee shall be responsible and shall reimburse Denver Water for any additional inspection time and any other costs and expenses incurred by Denver Water in connection with the License.
3. **PAST RIGHTS AND CONVEYANCES:** The rights and privileges granted in this Agreement are subject to all prior agreements, licenses, leases, grants, permits, rights-of-way, reservations, and conveyances, whether recorded or unrecorded, related to the Licensed Area.
4. **BOARD’S RETAINED INTERESTS:** The Board reserves unto itself, its successors and assigns, the right to make full use of the Licensed Area as may be necessary or convenient in the operation, maintenance, installation, repair, removal, replacement, or relocation of any of its “**Facilities**,” which term shall include, but not be limited to, water works plants and systems, utilities, and water and other pipes under the control of the Board and all of their underground and surface appurtenances. By way of example and not by way of limitation, the intent is to include (i) mains and conduits within the term “**pipeline(s)**,” and (ii) valves, vaults, manholes, electric or other related control systems, underground cables, wires, connections, ventilators, and the like within the term “**appurtenance(s)**.”

The Board retains all right to operate, maintain, repair, remove, relocate, or install any of its Facilities within the Licensed Area at any time and in such a manner as it deems necessary or convenient. The Board will make reasonable attempts not to damage the Installation(s); however, should damage occur, the Board will not be responsible for any such damage.

In the event the Installation(s) interferes with the Board’s use, maintenance, or operation of its Facilities, the Board in its sole discretion may require the Licensee to relocate, rearrange, modify, or remove the Installation(s) at Licensee’s sole expense. Licensee shall relocate, rearrange, or modify the Installation(s) within a reasonable timeframe agreed to by the Parties and in compliance with the requirements that the Board designates, or Licensee may terminate this Agreement.

Nothing in this Agreement shall imply that any ownership interest of the Licensed Area is being conveyed to the Licensee.

5. PRE-WORK INSPECTION: Licensee shall notify the Board at least fifteen (15) days prior to the commencement of any construction work so that the Board may make any inspections of the Licensed Area the Board deems necessary before such work begins.

6. PRE-WORK NOTICE: Licensee shall notify the Board's Senior Engineer of Water Distribution during regular working hours at 303-628-6504 or 970-978-1616 at least forty-eight (48) hours prior to commencing any construction work within the Licensed Area so that the Board may have an inspector present during such work. In the event of an emergency, the Licensee shall notify the Board at 303-628-6801 (Dispatch).

7. PROOF OF LOCATES: Licensee shall obtain, or require its contractors and any subcontractors to obtain, proof of clear locates for all work in connection with this Agreement in compliance with applicable law.

8. WORK PLANS AND SPECIFICATIONS: Any Work initiated under this Agreement shall be performed and completed at no expense to the Board according to the plans and specifications approved by the Board in writing and in compliance with all applicable Board standards. The Licensee represents and warrants that initial Installation(s) authorized by this Agreement shall be constructed in accordance with the plans and specifications identified as Exhibit B and dated 10/11/2023.

8.1. Different Location. If any Installation(s) location is reasonably determined by the Board to be materially different from the approximated location shown on any plans and specifications approved by the Board, the Board may require Licensee to undertake corrective work at Licensee's sole expense. If the Board does not require corrective work, the Board may notify the Licensee of such determination, and this Agreement shall be deemed amended, effective as of the date of the Board's notice and without further action by the Parties.

8.2. Right to Inspect. The Licensee shall notify the Board upon completion of any construction work; upon receipt of such notice, the Board may elect to inspect such work and require Licensee to undertake corrective work at Licensee's sole expense if the work fails to conform to the approved plans and specifications, Board's applicable standards, federal, state or local laws, or any applicable industry standards.

9. RIGHT TO SUSPEND WORK: Notwithstanding any other provision in this Agreement, the Board has the right to suspend the performance of any Work under this Agreement without any liability if the Board, in its sole discretion, determines that the Licensee or any of its contractors or any subcontractors failed to comply with the terms of this Agreement. The Board shall not be liable for any delays in the completion of the work that result from the suspension under this paragraph.

10. OWNERSHIP; OPERATION & MAINTENANCE OF INSTALLATION: Licensee shall own the Installation(s) and shall ensure that the same is operated and maintained, at no expense to the Board, in good repair and in full compliance with all federal, state, and local laws, permitting requirements, and applicable industry and Board standards until this Agreement is terminated.

11. BOARD'S ACCESS: The Licensee shall conduct all Work in such a manner that the Board shall have full and complete access to the Licensed Area at all times. The Licensee shall not obstruct any access roadways or ingress to or egress from such roadways.
12. CURB CUT AND TRANSITION DETAIL: ~~Licensee shall construct and maintain all necessary, in the opinion of the Board, curb cuts from the Installation(s) to any roadways and any access roads at no expense to the Board. All such access roads and curb cuts shall be depicted on the plans and specifications provided to the Board, shall be at locations approved in writing by the Board, and shall comply with the Board's curb cut detail, a copy of which is attached as **Exhibit B**. The Licensee shall not obstruct Board roadways or ingress to or egress from such roadways.~~
13. DETOURS: ~~Licensee shall take whatever steps are necessary to route traffic during any Work and provide directions through the use of signs. Any of the Board's roads or acceptable alternatives must be open and accessible to the Board's personnel and equipment at all times.~~
14. TRENCHES AND EXCAVATIONS: All trenches, excavations, backfill and tamping shall be in accordance with the then-current applicable Board's Engineering Standards and Capital Project Construction Specifications and subject to approval by the Board's representative.
15. UNDERGROUND LINES: ~~Underground electric power line installations shall be encased in rigid steel conduit and/or concrete within the Licensed Area. The Facilities must not be included in any concrete encasement.~~
16. MARKER POSTS: ~~The Licensee shall place two permanent marker posts, one at each end of the Installation(s) and on its centerline, to the satisfaction of the Board's representative. Each permanent marker post shall be filled with concrete and installed to allow a three foot extension above the surface of the ground. The marker posts shall extend a minimum of two feet below the surface of the ground and be encased in concrete. Each marker post shall have the type, size, and depth of the Installation clearly marked with 1½ inch stenciling.~~
17. SERVICE LINES: All service lines within the Licensed Area shall be installed in a manner satisfactory to the Board's representative.
18. OVERHEAD CLEARANCE: ~~Licensee shall maintain a minimum overhead clearance of 25 feet over the Board's Conduit 16 & Conduit 22. No portion of the Installation(s) shall extend below the stringers of any bridge to which it is attached.~~
19. ENVIRONMENTAL: Licensee shall comply with all applicable laws and ordinances and all rules, regulations, and requirements of any governmental authority controlling environmental standards and conditions of the Licensed Area. If, as a result of Licensee's occupancy of the Licensed Area, any such law, ordinance, rule or regulation is violated, the Licensee shall, if and to the extent permitted by law, protect, save harmless, defend, and indemnify the Board from and against any penalties, fines, costs and expenses including legal fees and court costs incurred by the Board, caused by, resulting from or connected with such violation or violations. In addition, but without limiting the foregoing, the Licensee shall comply with the following:

19.1. Hazardous Material. Licensee shall not cause or permit any Hazardous Material to be brought upon, kept or used in or about the Licensed Area by the Licensee, its agents, employees, or contractors without the express written permission of the Board.

19.2. Indemnification. If the Licensee breaches the obligations stated in the preceding subparagraph, or if the presence of the Hazardous Material on the Licensed Area caused or permitted by the Licensee results in contamination of the Licensed Area, or if contamination of the Licensed Area by the Hazardous Material otherwise occurs for which the Licensee is legally liable to the Board, then the Licensee shall, if and to the extent permitted by law, indemnify, defend and hold the Board harmless from any and all claims, judgments, damages, penalties, fines, costs, liabilities or losses (including, without limitation, diminution in value of the Licensed Area, damages for the loss or restriction on use of rentable or usable space or of any amenity of the Licensed Area, damages arising from any adverse impact on marketing of space, and sums paid in settlement of claims, attorney fees, consultant fees and expert fees) which arise during or after the term of this Agreement as a result of such contamination. This indemnification of the Board by the Licensee, if and to the extent permitted by law, includes, without limitation, costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal, or restoration work required by any federal, state or local governmental agency or political subdivision because the Hazardous Material is present in the soil or ground water on or under the Licensed Area.

19.3. Cleanup. If the presence of any Hazardous Material on the Licensed Area caused or permitted by the Licensee results in any contamination of the Licensed Area, the Licensee shall, at its sole expense and after obtaining the Board's written approval, promptly take all actions that are necessary to clean the contamination and return the Licensed Area to the condition existing prior to the introduction of any such Hazardous Material to the Licensed Area. The clean-up of the contamination shall be in compliance with all applicable state and federal standards.

19.4. Definitions. The term "**Hazardous Material**" means any hazardous or toxic substance, material, or waste that is or becomes regulated by any local governmental authority, the State of Colorado, or the United States. The term "Hazardous Material" includes without limitation any material or substance that is (i) defined as a "hazardous substance" under appropriate state law provisions; (ii) petroleum; (iii) asbestos; (iv) designated as a "hazardous substance" pursuant to Section 311 of the Federal Water Pollution Control Act (33 U.S.C. §1321); (v) defined as a "hazardous substance" pursuant to Section 101 of the Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. § 9601); or (vi) defined as a "regulated substance" pursuant to Subchapter IX, Solid Waste Disposal Act (Regulation of Underground Storage Tanks) (42 U.S.C. § 6991).

20. ENDANGERED SPECIES ACT: Certain Board properties may contain habitat for listed "threatened" or "endangered" species under the Endangered Species Act ("**ESA**"). Licensee shall be responsible for determining the presence of such habitat and taking measures to comply with the ESA and all other applicable federal laws.

21. TREES: ~~The Licensee shall provide means, acceptable to the Board, to protect the existing trees from any damage or disruption caused by any Work. If the Work requires clearance, trimming, or complete removal of trees located within Licensed Area, Licensee must obtain prior written permission from the Board's. Licensee will be responsible for all cleanup of any trimmings and the removal of logs, branches, limbs, and other debris. Licensee shall replace any trees and other vegetation (including re-seeding)~~

~~removed or damaged due to any Work in accordance with the Board's tree replacement standard described in the attached and incorporated **Exhibit C.**~~

22. WATER FLOW AND DISCHARGE: The Licensee shall not interfere with the flow of water in the Board's Facilities and shall assume all risks incident to the presence of water in the Facilities. The Licensee shall not discharge water into or upon any of the Licensed Area or Facility. The Licensee shall provide for carriage of any water over or across the Licensed Area or Facility in a manner satisfactory to the Board's representative.

23. ~~CANALS/DITCHES:~~

~~23.1. Clean Water Act. The High Line Canal between Sand Creek and the most westerly unnamed drainage located in Section 34 constitutes jurisdictional "Waters of the United States," subject to the federal Clean Water Act (33 U.S.C. § 1251 *et seq.*). Licensee shall be responsible for complying with the federal Clean Water Act and obtaining any necessary permit(s) from the proper regulatory authority prior to conducting its activity. Licensee shall supply the Board with documentation providing that such authority has been obtained or that such permission is not required by the regulatory authority.~~

~~23.2. Recreation. The Board has authorized certain recreational activities along and within the High Line Canal property. In addition to all other notices required by this Agreement, at least forty eight (48) hours prior to the commencement of any Work within the Licensed Area, the Licensee shall notify the Recreational Use Entity, identify recreational use entity here, at —; and the High Line Canal Conservancy at 720-767-2452. All paved trails and other recreational improvements within the Licensed Area shall be restored to their pre-existing condition to the satisfaction of the Recreational Use Entity. Licensee shall comply with all said Entity's requirements that said Entity deems necessary to ensure the safety of the general public and to minimize interference with recreational use on the Licensed Area.~~

~~23.3. Irrigation. The irrigation season is from April 1st until November 1st each year and diverted water may be flowing in the High Line Canal during this time. Additionally, water may be flowing in the Canal other times during the year. No Work may be undertaken during April 1st through November 1st unless special authorization is obtained from the Board's Director of Operations and Maintenance prior to the commencement of said construction.~~

~~23.4. Cut-off Walls. Licensee shall place reinforced concrete cut-off walls at locations determined by the Board as shown on the plans and specifications identified in Paragraph 8 above. Each cut-off wall shall be constructed in accordance with the Board's then current **Capital Projects Construction Standards 4th Edition dated July 2021 CPCS Detail Number 33214/Ditch or Canal Crossing**, as they may be updated and revised from time to time, and the excavation, forming, and steel placement of each cut-off wall shall be inspected and approved in writing by the Board's representative prior to placement of concrete.~~

24. CLEANUP AND RESTORATION: The Licensee will use all reasonable means to prevent any loss or damage to the Board or to others resulting from the construction, operation, maintenance, repair, modification, replacement, or removal of the Installation(s).

24.1. Within twenty (21) days from the date of completion of any Work, the Licensee shall clear the Licensed Area and any other affected property of all construction debris and shall restore the Licensed Area and any other affected property and any damaged roads and fencing to the condition in which they existed as of the Effective Date as nearly as may be possible to the reasonable satisfaction of the Board's representative. Restoration and clearing of the surface shall include, but not be limited to, replacement of the topsoil in cultivated and agricultural areas, removal of any excess earth resulting from the Work, and/or reseeded described in the then current **Capital Projects Construction Standards Section 32 91 00 Planting Preparation and Section 32 92 00 Turf and Grasses**. Restoration of the roads shall include, but is not limited to, resurfacing.

24.2. If the Licensee does not restore and clear the Licensed Area and any other affected property to the satisfaction of the Board and/or within the timeframe set forth in subparagraph 24.1, the Board may complete the clearing and/or perform the restoration at the sole expense of the Licensee.

24.3. Any repair or replacement of any of the Facilities, other than roads and fencing, made necessary in the opinion of the Board's representative because of any Work performed pursuant to this Agreement, shall be made by the Board at the sole expense of the Licensee.

24.4. Licensee's obligations under paragraph 24 shall survive termination of this Agreement.

25. **NO LIENS:** The Licensee shall pay for all materials joined or affixed to the Licensed Area, shall pay in full all persons who perform labor upon the Licensed Area, and shall obtain and provide to the Board lien releases for all such materials and labor. The Licensee shall not permit any mechanic's or materialman's lien of any kind or nature to be enforced against the Licensed Area for any Work done and materials furnished on the Licensed Area at the instance, request, or on behalf of Licensee.

26. **INSURANCE:** The Licensee shall contractually require all contractors and subcontractors performing work within the Licensed Area to maintain the following insurance covering all operations, goods, and/or services related to, and/or work performed pursuant to, this Agreement, in full force and effect for the duration of any work related to this Agreement.

26.1. **Commercial General Liability Insurance.** This insurance shall contain liability assumed under an "insured contract" with a combined single limit of a minimum of \$2,000,000 per each occurrence and an aggregate limit of at least \$5,000,000. Coverage must be purchased on a post 2004 ISO occurrence or equivalent and include coverage for, but not be limited to, bodily injury and property damage, personal injury, and products and completed operations hazards.

26.2. **Business Automobile Liability Insurance.** Automobile liability insurance as required by Colorado law.

26.3. **Workers' Compensation and Employers' Liability Insurance.** Workers' Compensation and Employers' Liability Insurance covering all employees, wherever they may be in the United States of America, so long as they are engaged in the work covered by this Agreement. Each policy or policies shall cover the entire liability of each insured as determined by the Workers' Compensation laws of the state or states under which such liability arises, and shall contain, so far as it is lawful to obtain the same, a waiver of insurer's right of subrogation against the Board for payments made to or on behalf of employees of each insured. Employer's Liability Insurance shall provide Part B

coverage with limits of not less than \$500,000 per each accident, \$500,000 by disease policy limit, \$500,000 by disease each employee.

~~26.4. Contractors Pollution Liability Insurance. This insurance shall include contractual liability and provide third party coverage for bodily injury, property damage, defense, and cleanup as a result of pollution conditions (sudden/accidental and gradual) arising from contracting operations performed. The amount of such coverage shall be no less than \$5,000,000 per occurrence and aggregate.~~

26.5. Additional Insured. All liability insurance provided under this Agreement shall include the City and County of Denver, acting by and through its Board of Water Commissioners as an Additional Insured evidenced by a copy of the Additional Insured Endorsement, attached to the Certificate of Insurance on such insurance policies.

26.6. Certificate of Insurance. Upon request by the Board, Licensee shall require its contractor to furnish to the Board, as evidence of the insurance coverage required by this License, a certificate of insurance satisfactory to the Board, showing that insurance, in the above-stated kinds and minimum amounts, has been secured and maintained. Failure to provide proof of insurance, as required, may result in License cancellation.

26.7. Primary Coverage. Contractor's General Liability and Automobile Liability insurance shall apply as primary and shall not seek contribution from any insurance or self-insurance maintained by, or provided to, the Board. The General Liability and Automobile Liability insurance or self-insurance of the Board shall be in excess of any insurance provided by Licensee's contractors and subcontractors.

26.8. Waiver of Subrogation. Licensee's contractors and subcontractors performing work within the Licensed Area shall waive all rights of subrogation against the Board for the recovery of damages to the extent such damages are or would be covered by the General Liability and Automobile Liability insurance specified herein.

27. APPROVAL OF CONTRACTORS: Prior to commencing any work under this Agreement, the Licensee shall submit to the Board a list of all contractors and subcontractors that will be performing the work in connection with this Agreement; no work may commence until the Board, in its sole and absolute discretion, has approved such contractors and subcontractors in writing. The Licensee understands and agrees that only those contractors and subcontractors whose operations are covered by the insurance required by this Agreement and that have been pre-approved by the Board as required by this Agreement are authorized to work upon or about the Licensed Area. Licensee shall require its agents, employees, and all approved contractors and subcontractors performing work pursuant to this Agreement to comply with each of the terms and conditions thereof.

28. INDEMNIFICATION: The Licensee shall be responsible for its own errors, acts, omissions, and negligence in connection with this Agreement. The Licensee shall also contractually require all contractors and/or subcontractors performing work pursuant to this Agreement to defend, indemnify, and hold harmless the Board, its officers, members, managers, agents, and employees against any liability, loss, damage, injury, death, demand, claim, action, cause of action, or expense of whatever nature, kind, or description (including court costs and attorneys' fees), directly or indirectly arising out of, resulting from or related to (in whole or in part) this Agreement (including, but not limited to, Licensee's obligations in Paragraph 19

of this Agreement), any rights or interests granted pursuant to this Agreement, occupation and use of the Licensed Area by the Licensee and such contractors and/or subcontractors, any act or omission of the Licensee and such contractors and/or subcontractors, as well as each of their officers, directors, members, managers, and employees. Licensee's obligations under this paragraph shall survive termination of this Agreement.

29. RISK OF LOSS: All personal property, including, but not limited to, fixtures, equipment, or related materials upon the premises will be at the risk of Licensee only, and the Board shall not be liable for any damage thereto or theft thereof.

30. NO ASSIGNMENT; NO RECORDING: The Licensee agrees and understands that privileges granted by this Agreement are personal to the Licensee, that this Agreement does not grant Licensee any property interest in the Licensed Area, and that this Agreement shall not inure to or for the benefit of the Licensee's successors or assigns. The Licensee shall not assign this Agreement and shall not record this Agreement.

31. ABANDONMENT: If the Licensee does not use the right herein granted or its Installation for a period of one (1) year, the Board may, at its election, consider the rights granted hereunder abandoned and terminate this Agreement by giving the Licensee thirty (30) days' written notice.

32. TERMINATION:

32.1. The Board may terminate this Agreement for any reason and at any time by giving the Licensee thirty (30) days' written notice.

32.2. In the event of the Licensee's violation of any of the terms of this Agreement, the Board will allow the Licensee a time to correct such violation. If the violation is not cured to the satisfaction of the Board within thirty (30) days after receipt of the written notice of such violation from the Board, or such longer period as the Board may permit in writing, the Board, may elect to cure the violation at Licensee's sole expense, without prejudice to the Board's right to terminate this Agreement.

32.3. Upon termination of this Agreement for any reason, the Licensee shall have sixty (60) days to remove its Installation(s) from the Licensed Area and restore the Licensed Area and any other affected property to the condition in which it existed as of the Effective Date. In the event the Licensee does not remove its Installation(s) within the time allowed hereunder and/or does not comply with the restoration obligations stated in this paragraph, the Board, without incurring liability, may remove the Installation(s) and/or restore the affected property at Licensee's sole expense.

32.4. Licensee's obligations under this paragraph shall survive termination of this Agreement.

33. REIMBURSEMENT TERMS: All Board's invoices are due thirty (30) days after the date of invoice. If Licensee fails to reimburse the Board within such thirty (30) days, then Licensee shall, if and to the extent permitted by law, pay interest on such unpaid sum from the due date until paid at an annual rate equal to the lesser of (i) the prime rate last published in The Wallstreet Journal in the preceding December plus two and one-half percent (2-1/2%), or (ii) the maximum rate permitted by law. Licensee's obligations under this paragraph shall survive termination of this Agreement.

34. NOTICES: Except as otherwise expressly provided in this Agreement, the Parties shall contact the persons listed below for all matters related to administration of this Agreement. All notices required or given under this Agreement shall be in writing and shall be deemed effective: (a) when delivered personally to the other party or (b) seven days after posting in the United States mail, first-class postage prepaid, properly addressed as follows.

If to the Board:
City and County of Denver, acting by and
through its Board of Water Commissioners
Attention: Chief Engineering Officer
1600 W. 12th Avenue
Denver, CO 80204

with a copy to:
City and County of Denver, acting by and
through its Board of Water Commissioners
Attention: Director of Engineering-Property
1600 W. 12th Avenue
Denver, CO 80204

If to Licensee:
City of Arvada
Attn: Mayor
8101 Ralston Road,
Arvada, CO 80002

35. GENERAL PROVISIONS:

35.1. Construction. This Agreement shall not be construed more strictly against one Party than another merely because it may have been prepared by counsel for one of the Parties.

35.2. Venue and Governing Law. For the resolution of any dispute arising from this Agreement, venue shall be in the courts of the City and County of Denver, State of Colorado. This Agreement shall be governed by and construed under the laws of the State of Colorado, without regard to its conflict of laws principles.

35.3. No Attorneys' Fees and Costs. In the event there is any litigation, mediation, arbitration or other dispute resolution proceedings arising out of or related to this Agreement, each Party shall pay for its own attorney(s)' and other professional(s)' fees, costs and expenses.

35.4. Severability. If any provision of this Agreement is determined by a court having jurisdiction to be unenforceable to any extent, the rest of that provision and the rest of this Agreement shall remain in full force and effect.

35.5. No Waiver. The failure by any Party to insist upon the strict performance by any other Party of any of the provisions of this Agreement shall not be deemed a waiver of any of the Agreement's provisions, and, notwithstanding such failure, no Party shall be thereby released from any obligations under the Agreement.

35.6. Non-Business Days. Except as otherwise specifically provided, all periods of time set forth in this Agreement shall be calendar days, not business days. If any date for any obligation under this Agreement falls on a Saturday, Sunday or a day that is a "holiday" as such term is defined in CRCP 6, then the relevant date shall be extended automatically until the next business day.

35.7. Headings. The headings contained in this Agreement are included solely for convenience, are not intended to be full or accurate descriptions of the content thereof, and shall not be considered part of this Agreement or affect its interpretation.

35.8. Governmental Immunity Act. The Parties understand and agree that the Parties are relying upon, and have not waived, the monetary limitations and all other rights, immunities and protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*, as it may be amended from time to time.

35.9. Article X of the Charter. This Agreement is made under and conformable to the provisions of the Charter of the City and County of Denver, which control the operation of the Denver Municipal Water System, consisting of Article X of said Charter. Insofar as applicable, said Charter provisions are incorporated herein and made a part hereof and shall supersede any apparently conflicting provision otherwise contained in this Agreement.

35.10. Entire Agreement. This Agreement constitutes the entire agreement between the Board and the Licensee and replaces all prior written or oral agreements and understandings. The terms of this Agreement may not be changed, waived, modified or varied in any manner whatsoever unless in writing signed by all Parties.

35.11. Counterparts and Originals. A copy of the Agreement may be executed by each Party, separately, and may be delivered by mail or electronic copy, each of which shall be deemed an original and all of which, when taken together, shall constitute one and the same instrument.

35.12. Representation of Authority of Signatories. Each individual executing this Agreement on behalf of the Licensee represents and warrants that the execution and delivery of this Agreement and all related documents have been duly authorized by the Licensee for which the individual is signing, and that the individual has the legal capacity to execute and deliver this Agreement and thereby bind the Licensee.

35.13. Effective Date. This Agreement shall become effective on the date it is signed by the Board's Director of Engineering.

36. SPECIAL PROVISIONS: This Agreement is also subject to the following provisions. To the extent that any such provisions listed below are in conflict with any other provisions of this Agreement, the provisions below shall control and supersede them.

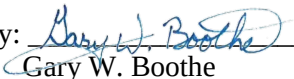
36.1. Licensee shall require any contractors and/or subcontractors performing the work related to this Agreement to obtain valid locates of the Board's conduit and any other utilities in the area. Licensee shall require any contractors and/or subcontractors performing the work related to this Agreement to: (a) pothole and/or use other nondestructive means of excavation to identify underground facilities; (b) visualize Board's conduit prior to and during any underground boring/drilling installation; and (c) maintain an 18-inch vertical clearance when crossing Board's conduit.

SIGNATURES FOLLOW ON THE NEXT PAGE

THIS LICENSE AGREEMENT shall become effective on the date it is signed by the Board's Director of Engineering.

APPROVED:

**CITY AND COUNTY OF DENVER,
acting by and through its
BOARD OF WATER COMMISSIONERS**

By: 
Gary W. Boothe
Manager of Real Estate

By: _____
Amy Heidema
Director of Engineering-Property &
Distribution

Date: _____

APPROVED AS TO FORM:

By: 
Office of General Counsel

LICENSEE:
City of Arvada

By: _____
Lauren Simpson, Mayor
8101 Ralston Road
Arvada, CO 80002

EXHIBIT A

NE 1/4 SECTION 10, TOWNSHIP 3 SOUTH, RANGE 70 WEST 6th PM
 ----- JEFFERSON COUNTY -----

BASIS OF BEARINGS:
 Basis of bearings are based on the E line
 of NE1/4 of Sec 10 being S00°16'27"W
 using NAD 83 State Plane Coordinates.

↑ W 64TH AVE ↑

Point of Commencement
 NE Cor Sec 10
 2" Alum Cap in 8" PVC
 with a Range Box
 PLS 5112, 2002

(Tie 1)
 S00°16'27"W
 444.29'

(Tie 2)
 N89°43'33"W
 511.08'

S65°02'19"W
 172.25'

Point of
 Beginning

UG FIBER
 OPTIC CABLE

NE1/4 NE1/4
 SEC 10

E Line NE1/4 Sec 10
 S00°16'27"W

Point of
 Terminus

PLAN

SCALE: 1"=100'

100' 0' 100' 200'
 SCALE IN FEET

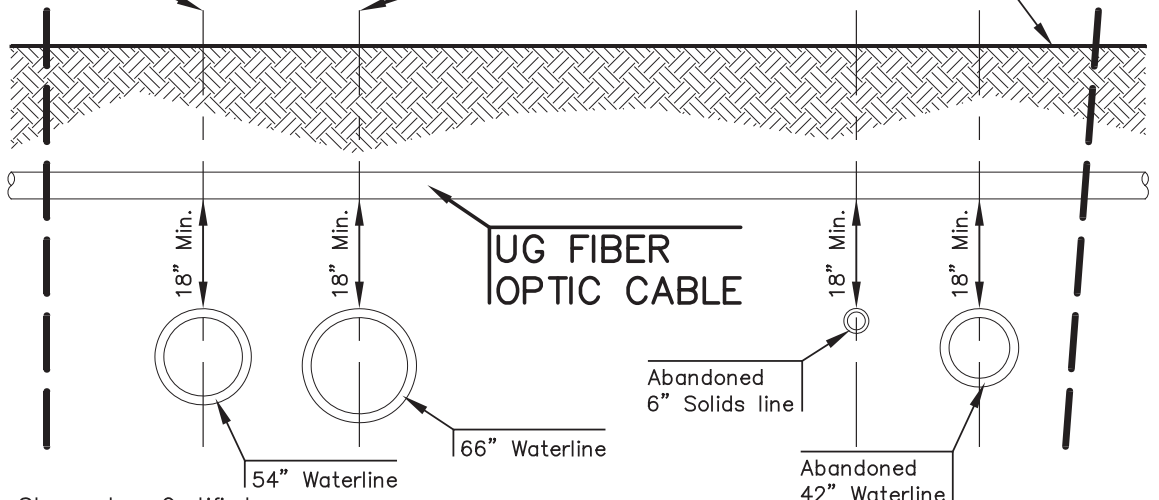
E1/4 Cor Sec 10
 3" Brass Cap in
 Concrete
 LS 16398, 1982

CONDUIT NO 22

CONDUIT NO 16

Existing
 Ground Line

PROFILE
 NO SCALE



Parcel Map Not P.L.S. Stamped or Certified

LEGEND

- LICENSE GRANTED
- BNDRY EXISTING DW PROP

DOCUMENT DATED:
 SEC'Y FILE DOC.
 RIMS ITEM NO.
 TRANS NO.

DRN. MEK PM. GME S. ASE

APPD. Alex Scott Engelson

SHEET 1 OF 1 SHEET

CONDUIT NO 16 & 22

LICENSE GRANTED TO CITY
 OF ARVADA FOR UNDER
 GROUND FIBER OPTIC CABLE

DATE: NOVEMBER 17, 2023

DENVER WATER

1600 West 12th Ave
 Denver, Colorado 80204-3412
 T: 303.628.6000
 F: 303.628.6851
 denverwater.org

SCALE: AS SHOWN

CAD 22392-1_PMG



REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
8.A.3.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023

Report in Brief

Chapter XIII, Section 13.6 of the Arvada City Charter requires that City Council accept gifts and donations on behalf of the City. This resolution authorizes the acceptance of donations made to the Majestic View Nature Center in 2023 in the amount of \$191,491.83.

The Arvada team recommends that the City Council approve R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023.

Financial Impact

The Majestic View Nature Center received monetary donations in the total amount of \$191,491.83 in 2023. The grants received (\$20,019.60) were restricted towards youth programming and demonstration garden restoration work. The material and equipment donations benefited our public, school, and camp programs, including the donation of a conceptual design for the new classroom and concrete for the garage floor.

Approximately 2,580 hours of volunteer support contributed to supporting park maintenance, programming, and implementation of the nature center's interpretive work. The annual volunteer hours are valued at \$88,863.78.

Background

The Majestic View Nature Center (MVNC) is the City of Arvada's environmental education facility. The Nature Center offers many school, camp and group programs to expose youth to nature. Using trails, wetland areas and prairie ecosystems to explore, the MVNC team helps thousands of children and youth better understand nature by connecting them with Arvada's parks and open spaces. MVNC also provides public programming to connect visitors of all ages with the wonder of nature.

Each year, various individuals and organizations wish to make donations toward improving, maintaining, or contributing to Nature Center areas, events, and projects. This includes yearly donations, grants, and in-kind services made to the Majestic View Nature Center and Park.

Discussion

The City Council has accepted gifts and donations to the Majestic View Nature Center in the past. Donations and grants are built into the Nature Center's annual budget and ten year model. These financial resources support the Nature Center's educational programming through funding program supplies, instructor costs, and classroom materials.

Many Nature Center programs would not be successful without the acceptance of Scientific and Cultural Facilities District (SCFD) grants and donations from individual donors. The generosity of donors and partner agencies enables the Nature Center to offer high quality, accessible and diverse educational opportunities to the Arvada community.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

N/A

Strategic Alignment

This resolution aligns with and contributes to the following City Council Strategic Result:

By 12/2025, develop a maintenance and reinvestment plan to ensure a sustainable, resilient and beautiful community of parks, trails, open space, and medians in alignment with our diverse, changing, and growing community.

Alternative Courses of Action

1. Approve R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023.
2. Do not approve R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023.

Recommendation for Action

The Arvada team recommends that the City Council approve R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023.

The Arvada team recommends that the City Council approve Alternative No. 1.

Suggested Motion:

I move that R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023, be (approved) (rejected).

Prepared by:

Enessa Janes, Director of Vibrant Community and Neighborhoods

Reviewed by:

Approved by:

Enessa Janes, Director of Vibrant Community and Neighborhoods	2/7/2024
Bryan Archer, Director of Finance	2/7/2024
Gail Walker, Legal Specialist-Contracts	2/7/2024
Janelle Miller, Assistant City Attorney	2/7/2024
Rachel Morris, City Attorney	2/13/2024
Don Wick, Deputy City Manager	2/15/2024
Lorie Gillis, City Manager	2/17/2024

SUBJECT: R24-025, A Resolution Authorizing the Acceptance of Donations Made to the Majestic View Nature Center in 2023

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ITEM: 8.A.3.

Enclosure, exhibits & attachments required to support the report

RESOLUTION NO. R24-025

A RESOLUTION AUTHORIZING THE ACCEPTANCE OF DONATIONS
MADE TO THE MAJESTIC VIEW NATURE CENTER IN 2023

WHEREAS, in 2023, the Majestic View Nature Center (“MVNC”) received monetary, material, and in-kind donations valued at \$191,491.83; and

WHEREAS, such donations aid the MVNC in its operation and contributions to the Arvada community.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. Pursuant to Sec. 13.6 of the Arvada City Charter, City Council hereby accepts the monetary, material, and in-kind donations to the MVNC, an itemized report of which is attached hereto, which were received between January 1, 2023 and December 31, 2023.

Section 2. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 4th day of March, 2024.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney

By: _____

2023 Grants, Donations, Volunteer Hours Report

2023	Information	Monetary Donation
I. Monetary Donations		
Scientific & Cultural Facilities District	Tier III Grant	\$20,019.60
Donation Box	Cash/online donation	\$349.50
	Total Monetary Donations	\$20,369.10
		Value
II. Materials & Equipment Donations		
Anna Hoover	craft/office supplies and awning projector screen	675.00
Terra Pittenger	books	50.00
Dang Shoffner	game cards and REI waterbottles	225.00
Anonymous	nat geo books, moose antler paddle, colored pencils	79.00
Ryan Bartlett	Bee ID guide book	9.95
PCL Construction	concrete pad and shelves	15000.00
Jack Potter	water cooler	20.00
Dudley Weiland	books	15.00
Perkins & Will	Conceptual design for classroom and 3D model	66185.00
		\$ 82,258.95
DONATIONS		\$102,628.05
<i>2023 MARKET VALUE OF NATURE CENTER VOLUNTEERS (In Kind)</i>		
<u>2,580</u>	volunteer hours at \$34.45	\$88,863.78
[National Standard Volunteer Rate, Bureau of Labor Statistics]		
TOTAL MONETARY, MATERIAL AND IN-KIND DONATIONS		\$191,491.83



REPORT TO CITY COUNCIL PUBLIC HEARING

AGENDA ITEM
10.A.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: CB24-002, An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code (Ordinance No. 4868) (Presenter: Janelle Miller, City Attorney's Office)

Report in Brief

Presenter: Janelle Miller, City Attorney's Office

This ordinance amends the procedure the Arvada Municipal Court must follow in expunging juvenile delinquent records, requiring the court to follow the process and deadlines set forth by the state legislature.

The Arvada team recommends the City Council approve CB24-002, An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code.

Financial Impact

No financial impact is anticipated.

Background

Although Arvada is a home-rule city, the Arvada municipal court is still governed by Title 13, Article 10 of the Colorado Revised Statutes. This article provides authority and guidance for the establishment of municipal courts, the appointment of judges, potential penalties for code violations, etc. One provision specifically, Colo. Rev. Stat. §13-10-115.5, establishes a process that all municipal courts in the state must follow relating to the expungement of juvenile delinquent records. "Expungement" means the designation of juvenile delinquency records whereby such records are deemed to have never existed. See Colo. Rev. Stat. §19-1-103(63). Once expunged, a juvenile may then lawfully deny that they have ever been charged, convicted, or sentenced in regard to an expunged case. Colo. Rev. Stat. §13-10-115.5(1)(a). State law sets forth the procedure and applicable timelines for expungement of such records, including the types of records and time frame they must be sealed within.

Discussion

The ability to petition for and the process related to the expungement of juvenile delinquent records has been in the Arvada City Code since 1981. The code division capturing expungement was last updated in 1983. State law, however, was amended in 2019 and again in 2021. As the juvenile justice system continues to evolve, so does the need to update Arvada's ordinances. The proposed changes bring the City Code into compliance with existing state law, while accounting for potential future revisions to Colo. Rev. Stat. §13-10-115.5.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

SUBJECT: CB24-002, An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code (Ordinance No. 4868) (Presenter: Janelle Miller, City Attorney's Office)

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N/A

Strategic Alignment

The proposed action aligns with the following Principle stated as part of the Safe Community section of the City Council's 2020-2025 Strategic Plan: ***"Provides an independent, fair, and impartial justice system that efficiently processes the court docket, renders fair and just decisions, and holds all stakeholders accountable, while providing access to resources and services to reduce recidivism and improve the well-being of defendants."***

Alternative Courses of Action

- 1) Approve the ordinance as written.
- 2) Approve with amendments.
- 3) Deny.

Recommendation for Action

The Arvada team recommends that the City Council approve CB24-002, An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code approved on final reading, numbered 4868 and ordered published by title only.

Suggested Motion:

I move that CB24-002, An Ordinance Retitling, Repealing, and Reenacting Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code, be (approved on final reading, numbered 4868 and ordered published by title only) (rejected).

Prepared by:
Chris Koch, CCO Admin

Reviewed by:

Approved by:

Rachel Morris, City Attorney	2/13/2024
Janelle Miller, Assistant City Attorney	2/13/2024
Kathryn Kurtz, Municipal Judge	2/14/2024
Lorie Gillis, City Manager	2/17/2024

Enclosure, exhibits & attachments required to support the report

COUNCIL BILL NO. 24-002
ORDINANCE NO. 4868

AN ORDINANCE RETITLING, REPEALING, AND REENACTING DIVISION 2,
EXPUNGEMENT OF JUVENILE JUSTICE RECORDS, OF ARTICLE IV, RECORD, OF
CHAPTER 58, MUNICIPAL COURT, OF THE ARVADA CITY CODE

WHEREAS, section 6 of article XX of the Colorado Constitution grants home rule cities the power to “provide, regulate, conduct and control. . . the creation of municipal courts: the definition and regulation of the jurisdiction, powers and duties thereof”; and

WHEREAS, Title 13, Article 10 of the Colorado Revised Statutes applies to and governs the certain aspects of the operation of municipal courts in the cities of the State of Colorado;

WHEREAS, section 13-10-115.5 of the Colorado Revised Statutes, which provides guidance about the expungement of juvenile delinquent records, was recently revised by the state legislature; and

WHEREAS, the City Council of the City of Arvada wishes to conform the City Code with the state statute to enhance the efficient operations of the Municipal Court.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. Division 2, Expungement of Juvenile Justice Records, of Article IV, Record, of Chapter 58, Municipal Court, of the Arvada City Code is hereby retitled, repealed, and reenacted to read as follows:

“Division 2.

EXPUNGEMENT OF JUVENILE DELINQUENT RECORDS

Sec. 58-131. Expungement of juvenile delinquent records by the municipal court.

- (a) The municipal court shall expunge juvenile delinquent records in accordance with the provisions of C.R.S. §13-10-115.5, as may be amended from time to time.
- (b) For purposes of this section, *juvenile* means a person who is 10 or more years of age but less than 18 years of age.”

Section 2. Severability. Should any provision of this ordinance be declared by a court to be unconstitutional or invalid, such decision shall not affect the validity of the ordinance as a whole or any part thereof, other than the part so declared unconstitutional or invalid.

Section 3. This ordinance shall be effective five (5) days after publication following final passage.

INTRODUCED, READ, AND ORDERED PUBLISHED this 5th day of February, 2024.

PASSED, ADOPTED AND APPROVED this 4th day of March, 2024.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney

By: _____

Publication Dates: February 8, 2024

March 7, 2024

REDLINE/STRIKEOVER VERSION

FOR INFORMATION ONLY – NOT PART OF THE ORDINANCE

Underlined indicates new material
Strikethrough indicates deleted material

Division 2.
EXPUNGEMENT OF JUVENILE ~~JUSTICE~~ DELINQUENT RECORDS

Sec. 58-131. Defined. Expungement of juvenile delinquent records by the municipal court.

- (a) The municipal court shall expunge juvenile delinquent records in accordance with the provisions of C.R.S. §13-10-115.5, as may be amended from time to time.
- (b) For purposes of this section, a *juvenile* means a person who is 10 or more years of age but less than 18 years of age.”

~~For purposes of this division, juvenile justice records shall mean all reports, records, and other documents of the municipal court, police department, and city attorney's office pertaining to or arising from the prosecution in municipal court of any person under the age of 18 years on the date of the violation except the following.~~

¶

- ~~(1) Basic identity information maintained by the police department;~~
- ~~(2) Records of traffic offenses; and~~
- ~~(3) Records or statistical compilations which do not identify the defendant by name.~~

¶

Sec. 58-132. Procedure for expungement.

¶

- ~~(a) Upon the request of the defendant, the municipal court shall order the expungement of juvenile justice records pertaining to such person unless it determines that the police department or court has a substantial need for continued access to such records. If expungement is denied because of continued need for access, the court shall set a time when the defendant can reinstate the request for expungement.~~

¶

- ~~(b) The court may order the expungement of such records at any time after acquittal.~~

¶

- ~~(c) In the case of conviction, juvenile justice records shall not be expunged sooner than two years after the defendant's last conviction, excepting traffic violations. No records pertaining to a conviction shall be expunged during the pendency of another charge.~~

¶

Sec. 58-133. Effect of expungement.

¶

~~Upon the order of the court, juvenile justice records shall be destroyed or sealed; and in the case of sealing, shall not thereafter be opened except upon order of the court. If juvenile justice records contain reference to other persons not the subject of an expungement order and are~~

~~deemed necessary by the police department for recordkeeping and/or statistical purposes, the expungement order as to those records may be complied with by obliterating the juvenile's name, address, date of birth, and physical description.~~¶

~~¶~~

~~Sec. 58-134. Advisement.~~¶

~~¶~~

~~In cases where the records may be subject to expungement, the court may so advise the defendant. Failure to give such advisement shall not affect any judgment entered in the case but may be remedied by commencement of expungement proceedings.~~¶

~~¶~~

~~Sec. 58-135. Relationship to state law.~~¶

~~¶~~

~~The provisions of this division shall be deemed supplemental to and shall not supersede any procedure provided by state law for limiting access to or sealing criminal justice records.~~



REPORT TO CITY COUNCIL PUBLIC HEARING

AGENDA ITEM
10.B.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code (Ordinance No. 4869) (Presenter: Sharon Israel, Director of Utilities)

Report in Brief

PRESENTER: Sharon Israel

New federal and state regulations require the City of Arvada's public water system to take action to reduce the risk from lead water service lines. Under these regulations, the City is required to consider certain galvanized steel service lines to be regulated the same as true lead service lines. The City is currently performing a service line inventory project, and we estimate about 100-250 private service lines will require replacement. At this time, we have not found any true lead service lines, but we have found galvanized lines that will require replacement.

This ordinance explicitly prohibits active lead or certain galvanized drinking water service lines (LSL) to be utilized within Arvada's water service area, according to the definition of LSL provided in the ordinance. It also establishes a Lead Service Line Replacement Program that will fund and manage private LSL replacements through 2026. The ordinance also establishes a financial penalty for non-compliance beginning January 1, 2027.

The Arvada team recommends that City Council approve CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code.

Financial Impact

The new ordinance will establish the Lead Service Line Replacement Program, which will include city-funded private side replacements through 2026 for any LSL identified through the service line investigation project. It is anticipated that 100-250 lines will be replaced before the end of 2026, with an average estimated cost of \$8,000-\$10,000 each. Ongoing financial assistance funding after 2026 is anticipated to be less than \$100,000 each year until there are no remaining LSL or Unknowns. The ordinance also establishes a financial penalty beginning in 2027 for non-compliance, which could contribute funds back to the Water Enterprise Fund.

This is a Capital Improvement Project with project number 97613. Approximately \$150,000 is remaining in this budget from 2023. \$2,300,000 is currently budgeted for 2024. Additional funding may be requested in 2025 if more money is needed to complete the project.

Background

The ordinance being proposed meets the requirements of new state and federal regulations that apply to the City of Arvada's public water system.

In December 2021, the EPA promulgated an updated version of the Lead and Copper Rule (LCR) under the Safe Drinking Water Act, known as the Lead and Copper Rule Revisions. This federal mandate requires all large public water systems to

SUBJECT: CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code (Ordinance No. 4869) (Presenter: Sharon Israel, Director of Utilities)

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identify and categorize all public and private drinking water service lines, to make a public-facing map of the service line inventory, to create a Service Line Replacement Plan if any active lead service lines are discovered (as defined in 40 CFR 141 which includes most galvanized lines requiring replacement), and to provide financing solutions for the replacement of private LSL. Further updates to the LCR released in late 2023 will require a mandatory 10-year maximum replacement timeframe for all LSLs (after the compliance date is set). All these efforts are being made in order to reduce drinking water pathways of exposure to lead, and to increase public health especially among children and vulnerable populations.

The City team has been working with homeowners and contractors on the service line inventory ("service line investigation project"). Many Arvada residents are familiar with the ongoing project, and have provided valuable assistance and information. The city hired AGL Construction Company in October 2023 through competitive Bid no. 23-UTS-066 for potholing services, as a prelude to the next stage of this project. Although no lead lines have been found yet, we have found galvanized service lines that need to be treated as LSL per the ordinance and will require replacement.

Discussion

The new ordinance is one part of a multi-faceted approach the Infrastructure work system has taken to ensure the EPA LCR mandates are fulfilled and to increase public health and safety by reducing a source of lead exposure. The ordinance has three (3) primary components: 1) explicitly prohibit the use of a Lead Service Line (as defined in the ordinance) to convey finished drinking water to any structure in Arvada's water system; 2) establish a Lead Service Line Replacement Program (LSLRP), with LSL replacements funded and overseen by the City through 2026; and 3) creating a financial penalty for non-compliance beginning in 2027.

The City team strives to ensure that our residents feel confident that their water supply is safe for consumption and to know that their health and safety is a priority. This work increases environmental justice and equity concerns surrounding drinking water in our region, and it provides financial and logistical support. The Arvada team is committed to finding and replacing all LSLs in the service area as quickly and efficiently as possible. If the City does not meet the deadline for full LSL replacement within 10 years of the compliance date, we will become subject to penalties from the federal and state government.

It is estimated that 100-250 service lines will need to be replaced through 2026, at an average rate of \$8,000-\$10,000 per replacement. The replacement phase of the project will have an estimated cost of \$0.8-2.5 million dollars. These funds have already been allocated in the approved 2023 and 2024 budgets.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

n/a

Strategic Alignment

This action aligns with the Infrastructure Priority Area of the City Council Strategic Plan. Specifically, the recommended actions support the following principle within the Infrastructure Priority Area:

Provides the community with a safe, reliable, high-quality water supply, drainage system, and wastewater disposal services for full city build-out, as defined by the Comprehensive Plan.

Alternative Courses of Action

1. Approve the addition of Ordinance No. CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102,

SUBJECT: CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code (Ordinance No. 4869) (Presenter: Sharon Israel, Director of Utilities)

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Utilities, of the Arvada City Code. This alternative is the best way to ensure identification and removal of any remaining LSLs and to maintain compliance with federal and state requirements.

2. Do not approve the ordinance, thereby allowing active LSLs to remain in the city's water system. This alternative is not recommended because it would increase the risk the City will be unable to comply with new state and federal regulations. This alternative could also result in increasing risk of lead exposure and erosion of trust with the public.
3. Approve the ordinance with amendments to place the responsibility of LSL replacement in full or in part on private property owners. This alternative is not recommended because it would add financial hardship to property owners with LSLs that require replacement. This would also increase the administrative burden on the City team to enforce compliance and will increase the risk the City will be unable to comply with new state and federal regulations. This alternative could also result in increasing risk of lead exposure and erosion of trust with the public.

Recommendation for Action

City staff recommends that City Council approve Alternative No. 1, CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code.

Suggested Motion:

I move that CB24-003, An Ordinance Adding Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code, be (approved on final reading, numbered 4869 and ordered published by title only) (rejected).

Prepared by:
Chris Koch, CCO Admin

Reviewed by:

Approved by:

Sharon Israel, Director of Utilities	2/12/2024
Bryan Archer, Director of Finance	2/12/2024
Jessica Morales, Assistant City Attorney	2/12/2024
Tammy Hedlund, Legal Specialist	2/13/2024
Rachel Morris, City Attorney	2/13/2024
Don Wick, Deputy City Manager	2/13/2024
Lorie Gillis, City Manager	2/17/2024

Enclosure, exhibits & attachments required to support the report

COUNCIL BILL NO. 24-003
ORDINANCE NO. 4869

AN ORDINANCE ADDING ARTICLE VII, PROHIBITION OF LEAD DRINKING WATER
SERVICE LINES AND ESTABLISHMENT OF ARVADA'S LEAD SERVICE LINE
REPLACEMENT PROGRAM, TO CHAPTER 102, UTILITIES, OF THE ARVADA CITY
CODE

WHEREAS, lead exposure, especially in young children, is known to cause serious health effects, including lower IQ, hyperactivity, slow growth, behavioral issues, learning impairments, and anemia; and

WHEREAS, lead drinking water service lines ("LSL") can be an exposure pathway to lead and can pose a health and safety hazard to the general public; and

WHEREAS, in 2021, the U.S. Environmental Protection Agency ("EPA") published the Lead and Copper Rule Revisions ("LCRR") which included significant changes to the current Lead and Copper Rule ("LCR"), and which aims to protect communities from lead exposure in drinking water; and

WHEREAS, the EPA plans to finalize additional updates to the LCR, through the Lead and Copper Rule Improvements ("LCRI"), in late 2024 to further reduce lead exposure in drinking water; and

WHEREAS, the LCRR and the LCRI will require water systems to identify and replace lead drinking water service lines; and

WHEREAS, on August 14, 2023, the Colorado Water Quality Control Commission voted unanimously to take final action on the proposal to adopt the updated requirements of the LCR into the Colorado Primary Drinking Water Regulations at 5 C.C.R. 1002-11, as may be amended from time to time ("Regulation 11"); and

WHEREAS, among other things, Regulation 11 now requires water systems to develop an inventory to identify the materials of service lines connected to the public water distribution system, with lead and some galvanized service lines requiring replacement; and

WHEREAS, Arvada does not have complete records of previously replaced drinking water service line materials, and therefore all active galvanized service lines that were installed prior to 1960 are treated as lead according to federal regulation and state policy; and

WHEREAS, Arvada's Engineering Code of Standards and Specifications stopped allowing lead to be used as a service line material in 1980, but does not explicitly require replacing lead materials; and

WHEREAS, Council now desires to explicitly prohibit LSL within the City of Arvada's water

service area; and

WHEREAS, implementation of a full Lead Service Line Replacement Program (for both public and private portions) within the city's water service area is essential to protect public health, safety, and welfare, and to reduce developmental, behavioral, and neurological impacts due to lead exposure; and

WHEREAS, the Lead Service Line Replacement Program will commence after May 1, 2024; and

WHEREAS, the city aims to identify and replace all LSL by December 31, 2026; and

WHEREAS, the cost of private LSL replacement is an obstacle for many customers, preventing them from eliminating this risk of exposure to lead; and

WHEREAS, financing solutions or financial assistance for replacements will be a component of the city's Lead Service Line Replacement Program; and

WHEREAS, after December 31, 2026, a property owner with a presumed, known remaining, or newly discovered LSL, will be required to replace, at their expense, the private portion of the LSL, and will be subject to penalty in situations of non-compliance; and

WHEREAS, the City Council has determined it is in the best interest of the city to pass an ordinance which aligns with the EPA Regulations and Regulation 11.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. Article VII, Prohibition of Lead Drinking Water Service Lines and Establishment of Arvada's Lead Service Line Replacement Program, to Chapter 102, Utilities, of the Arvada City Code is hereby enacted to read as follows:

**“ARTICLE VII. PROHIBITION OF LEAD DRINKING WATER SERVICE LINES AND
ESTABLISHMENT OF ARVADA'S LEAD SERVICE LINE REPLACEMENT
PROGRAM**

Sec. 102-401. Legislative intent and purpose.

The City Council has determined that the presence of lead drinking water service lines (“LSL”) can be an exposure pathway to lead and can pose a health and safety hazard to the general public. It is the intent of the City Council to prohibit the presence of LSL within the city's water service area, and to establish the Lead Service Line Replacement Program to provide financing solutions or financial assistance for replacement of LSL. The purpose of this Ordinance is to comply with updates to the U.S. Environmental Protection Agency's Lead and Copper Rule (40 CFR 141 Subpart I), and with updates to the Colorado Primary Drinking Water Regulations at 5 C.C.R.

1002-11.

Sec. 102-402. Authority.

The authority to prohibit LSL and establish and implement a Lead Service Line Replacement Program is derived from the city's powers and authority as a home rule city under Article XX of the Colorado Constitution, and under article 15 of Title 31 of the Colorado Revised Statutes.

Sec. 102-403. Applicability.

This Ordinance applies to any existing or future drinking water service line connections to buildings or structures that receive water service directly from the city's water utility and does not apply to structures within consecutive water systems receiving city finished water or city residents not on city water.

Sec. 102-404. Definitions.

Connector means a short section of piping, typically not exceeding two feet, which can be bent and used for connections between rigid service piping. Also referred to as a gooseneck or pigtail. Connectors are not considered to be part of the service line but may require replacement.

Consecutive System means a public water system that receives some or all of its finished water from one or more wholesale systems. Delivery may be through a direct connection or through the distribution system of one or more consecutive systems.

Customer-Owned Service Line means the portion of the drinking water service line from the meter (typically located in a meter pit) to the point of entry or the foundation of the home or building. The property owner is responsible for maintenance. Also referred to as the "private" or "user" side.

Director means the Director of Utilities or designee thereof.

Lead Service Line ("LSL") means a portion of pipe that is made of lead, which connects the drinking water main to the building inlet, not including connectors. A galvanized service line is considered a lead service line if it ever was or is currently downstream of any lead service line or service line of unknown material. For the purposes of this ordinance, any galvanized water service line installed before 1960 will be treated as an LSL, requiring replacement.

Point of Entry means the location where the water service line enters the structure (home or building) at the foundation; the junction where it ties into the premise plumbing.

Premise Plumbing means the drinking water supply plumbing materials located within a property (in-house or in-building), past the point of entry and leading to each internal tap or appurtenance.

Service Line means a drinking water supply pipe from the water main to the meter, or the meter to the point of entry of the structure. This definition does not apply to irrigation lines or fire protection lines.

Engineering Standards means the city's Engineering Code of Standards and Specifications, as may be amended from time to time.

System-Owned Service Line means the portion of the drinking water service line from the water main to the meter pit, maintained by the city, also referred to as the "public" side.

Sec. 102-405. Lead service lines prohibited.

- (a) LSL shall be prohibited for use as service line material as of the effective date of this ordinance. All LSL must be identified and replaced in full by December 31, 2026. Penalties for non-compliance will be assessed after December 31, 2026. Partial replacement of LSL is not permitted.
- (b) No new water service connections will be permitted to a property with an LSL. A new service line must be installed to any rebuilt structure if existing services do not meet the Engineering Standards.

Sec. 102-406. Lead drinking water service line replacement responsibilities.

- (a) The city shall be responsible for replacement of the system-owned portion of any LSL and lead connectors between the water main and the meter.
- (b) The property owner shall be responsible for the replacement of the customer-owned portion of an LSL from the meter to the property point of entry, in compliance with the Engineering Standards.
- (c) The material used in service lines must be investigated to determine whether the service lines are lead or non-lead. Service lines that have not been verified as lead or non-lead, will be treated as LSL under this Article VII.
- (d) From May 1, 2024, to December 31, 2026, with consent from the property owner, the city will replace the customer-owned portion of an LSL from the meter to the property point of entry, according to the Lead Service Line Replacement Program protocols.
- (e) The division of responsibilities between the city and a property owner in this section shall apply only to replacement of an LSL. Repair and replacement of service lines in all other circumstances shall be governed by the Engineering Standards. Premise plumbing replacement is not applicable to this ordinance and remains the responsibility of the property owner.
- (f) All LSL replacements must be performed according to the Engineering Standards.

Sec. 102-407. Lead service line replacement program.

- (a) The Lead Service Line Replacement Program will go into effect on May 1, 2024.
- (b) The Lead Service Line Replacement Program will delineate applicability, financial responsibilities, financing solutions, and any other necessary topics.
- (c) The Lead Service Line Replacement Program details will be publicized by the director and be made available on the city's website.

Sec. 102-408. Failure to comply; compliance procedures.

- (a) *Notice and order.* After December 31, 2026, the director shall give written notice to any property owner who is presumed to have an LSL on their property under sec. 102-406(c), or who have confirmed LSL on their property, informing such property owner they have been found to be in violation of the city's prohibition on LSL.
 - (1) Contents of notice and order. The notice and order shall set forth any order or orders stating the actions necessary to verify the presence of LSL and/or to replace confirmed LSL.
 - (i) Presumed LSL process. A property owner whose property contains presumed LSL shall be allowed 63 days from the date of the notice and order to submit documentation to the director demonstrating whether the presumed LSL is LSL or not. The documentation must comply with the requirements set forth in the notice and order.
 - (a) If a presumed LSL is confirmed to be an LSL, the property owner must replace the LSL and submit to the director proof of the replacement within 182 days after submission of documentation confirming the presence of LSL. Such documentation must comply with the requirements set forth in the notice and order, and with the Engineering Standards. Replacement of LSL on or after January 1, 2027, shall be done at the property owner's expense.
 - (b) Extension of the time frames in sec. 102-408(a)(1)(i) and sec. 102-408(a)(1)(i)(a), shall be at the sole discretion of the director, and may only be granted one time. A property owner requesting an extension must submit a written request to the director, explaining the reasons for the request, at least 28 days prior to the end of these time frames above.
 - (ii) Confirmed LSL process. A property owner whose property contains

confirmed LSL, whether previously known or newly discovered, must replace the LSL and submit to the director proof of replacement within 182 days from the date of the notice and order. Such documentation must comply with the requirements set forth in the notice and order, and with the Engineering Standards. Replacement of LSL on or after January 1, 2027, shall be done at the property owner's expense.

- (a) Extension of the 182-day time frame in sec. 102-408(a)(1)(ii) shall be at the sole discretion of the director and may only be granted one time. A property owner requesting an extension must submit a written request to the director, explaining the reasons for the request, at least 28 days prior to the end of the time frame above.
- (b) *Violation notice.* If a property owner fails to comply with the order or orders of the director within the time frame specified in the notice and order issued under sec. 102-408(a) above, the director shall send a violation notice to the property owner. The violation notice shall be sent to the property owner within 21 days after the property owner's compliance period has expired.
 - (1) Contents. The violation notice shall re-state the order or orders stating the actions necessary to verify the presence of LSL and to replace confirmed LSL. The notice of violation shall remind the property owner of the obligation to comply with the order or orders of the director. The notice of violation will include notice of the civil penalty that will be imposed under sec. 102-409 for failure to comply.
 - (2) Subsequent violation notice. A property owner who has not complied with the order or orders of the direction within one year from the date of the notice and order, shall be sent a notice of violation every year until compliance is attained. Each subsequent notice of violation shall impose an additional civil penalty imposed under sec. 102-409 for the continued failure to comply.
- (c) *Mailing and posting of notices.* Each notice and order or violation notice issued under this section shall be mailed to the property owner by first class U.S. Mail, at the address on file with the applicable county tax assessor's office or alternate address provided by the property owner. Each notice must state any appeal available. The city's inability to comply strictly with the time deadlines set forth herein for the mailing or posting of a notice and order or a violation notice shall not impact the enforcement action.

Sec. 102-409. Civil penalties; continuing non-compliance.

- (a) *Civil Penalties.* Property owners who do not comply with sec. 102-408 shall be assessed a civil penalty of \$1,000.00. An additional \$1,000.00 civil penalty shall

be assessed for each subsequent year of continued non-compliance in accordance with sec. 102-408.

- (b) If at any time after a violation notice has been issued, a property owner replaces LSL in compliance with this article and the Engineering Standards, and provides documentation sufficient to establish the same, the director is authorized to forgive the civil penalty assessment for the year that the documentation is submitted. Civil penalties for previous years, as well as liens for those amounts, shall remain in place.

Sec. 102-410. Fines to be lien upon property.

- (a) *Debt due and owing.* Unless paid within 63 days of the date of the assessment notice, all penalties imposed by the city under this article constitute a debt due and owing to the city, and the city has the right to recover on any such debt in the manner provided by law in any court of competent jurisdiction.
- (b) *Lien.* Unless paid within 63 days of the date of the assessment notice, all penalties imposed by the city under this article constitute a perpetual lien on and against the property served, and any such lien may be foreclosed by the city at any time in the manner as provided by the laws of the state for the foreclosure of mechanics' liens or in accordance with chapter 59 of this Code entitled "Municipal Liens." Such lien foreclosure by the city is subject to all rights of redemption granted by C.R.S. §38-39-101 *et seq.*, as amended.

Sec. 102-411. Appeals of a determination or order of the director.

- (a) *Filing; timeliness.* A property owner who is aggrieved by a notice or order of the director issued under sec. 102-408 may appeal that order on a form prescribed by the city and available from the director on the city's website or by hard copy. The appeal must be in writing and be submitted to the city clerk within 14 days of the date of the director's order. An appeal form that is not complete in all respects or that does not state the grounds for appeal shall be promptly returned by the clerk to the property owner. The property owner may resubmit an appeal form deemed incomplete by the clerk, and the clerk shall accept it, if the resubmitted form is complete and submitted to the clerk within the deadline set forth in this subsection. Compliance with the 14-day time limit noted in this subsection (a) shall be a jurisdictional prerequisite to any appeal brought under this article. Failure to comply shall bar any such appeal.
- (b) *Grounds.* The appeal shall be based on a claim that:
 - (1) The provisions of this article do not apply; or
 - (2) The true intent of this article has been incorrectly interpreted by the director; or

- (3) The property owner has previously filed with the director written documentation outlining the replacement of LSL or request for extension of time which has been rejected by the director.
- (c) *Procedure.* The appeal form, and any other documentation submitted to the city clerk by the property owner, as well as any response or documentation submitted by the director, will be submitted by the city clerk to the city manager or designee thereof for review. Notwithstanding any other provision of this Code, the appeal of the director's order shall consist of a review of all relevant documentation on file with the city in the case, as well as the appeal form and any accompanying materials. All documents may be reviewed electronically. The city bears the burden of proof in an appeal to establish that the director's action or determination was reasonable in light of the intent of this article, that the terms of this article applied to the property owner in question. The city manager or designee thereof shall review the information submitted, and within 14 days of the date of the filing of the appeal, issue a written decision on the appeal. The decision must contain the reason or reasons for the decision. The decision must set forth appeal rights, if any. The decision may be mailed by first class U.S. Mail or furnished to the property owner electronically. Should the city manager or designee thereof fail to issue a written decision on the appeal within the time frame set forth herein, the claim shall be deemed denied, and the property owner may proceed as if an adverse decision has been issued.
- (d) *Appeal of city manager's decision.* The city manager's decision, or denial of an appeal as a result of the manager's failure to issue a written decision, shall be considered a final agency decision. The appeal may proceed under Rule 106 of the Colorado Rules of Civil Procedure.

Secs. 102-412 – 450. Reserved.”

Section 2. Severability. Should any provision of this ordinance be declared by a court to be unconstitutional or invalid, such decision shall not affect the validity of the ordinance as a whole, or any part thereof, other than the part so declared unconstitutional or invalid. The City Council declares it would have adopted this ordinance and each part or parts hereof irrespective of the fact that any one part or parts be declared unconstitutional or invalid.

Section 3. This ordinance shall be effective five days after publication following final passage.

INTRODUCED, READ, AND ORDERED PUBLISHED this 12th day of February, 2024.

PASSED, ADOPTED AND APPROVED this 4th day of March, 2024.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney:

BY: _____

Publication Dates: February 15, 2024
 March 7, 2024

Lead/Galvanized Water Service Lines in Arvada

Public Hearing: Article VII to the Arvada City Code:
“Prohibition of Lead Drinking Water Service Lines and
Establishment of Arvada’s Lead Service Line Replacement Program”

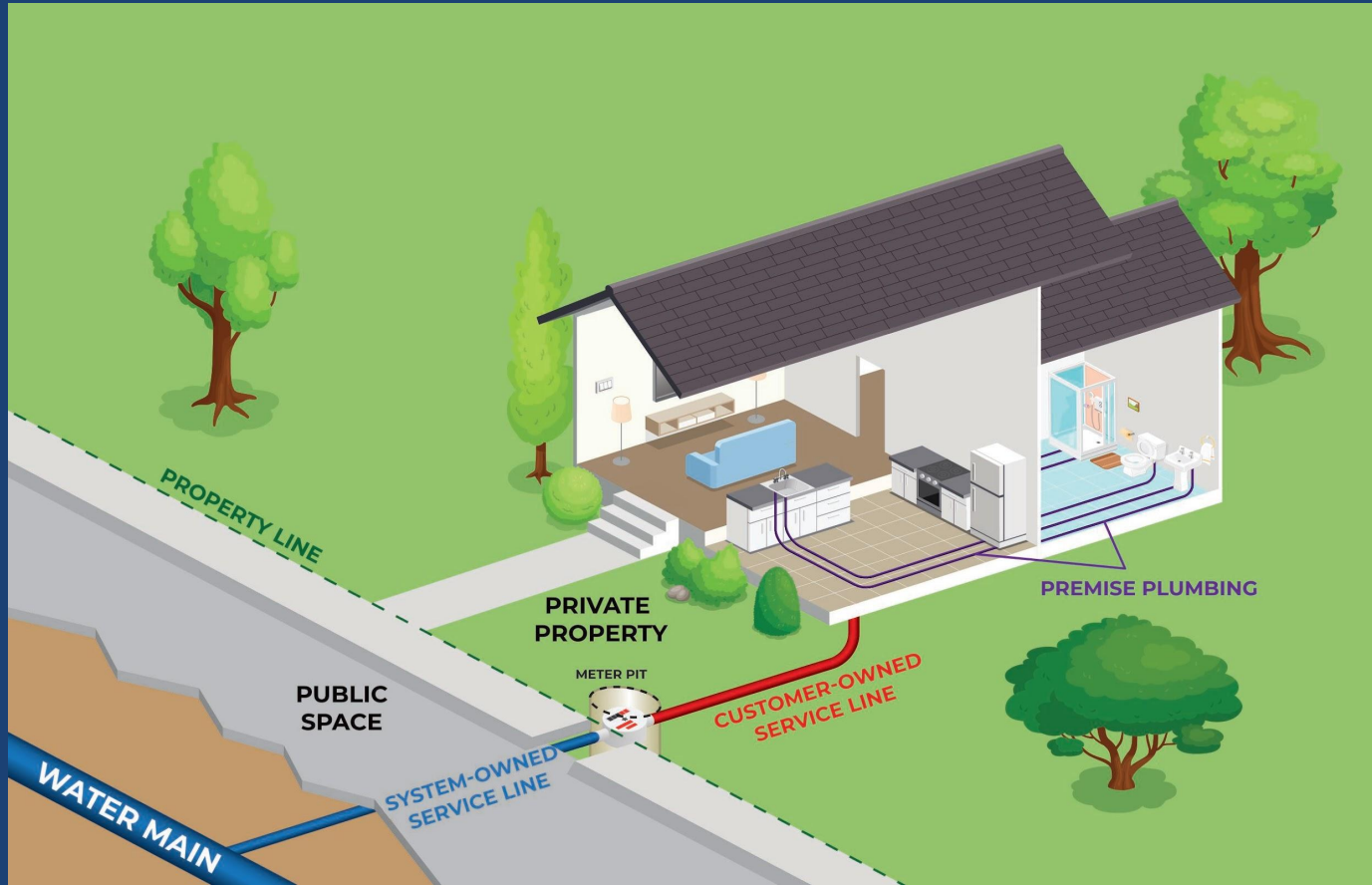
Arvada City Council
March 4, 2024

Overview

- There are new federal and state regulatory requirements for the City's public water system.
- A new ordinance is proposed to support compliance with new rules
 - First Reading: February 12, 2024
 - Second Reading/Public Hearing: March 4, 2024
- We estimate 100-250 private service lines require replacement at a total cost of \$800k to \$2.5 million.



What is a Service Line?



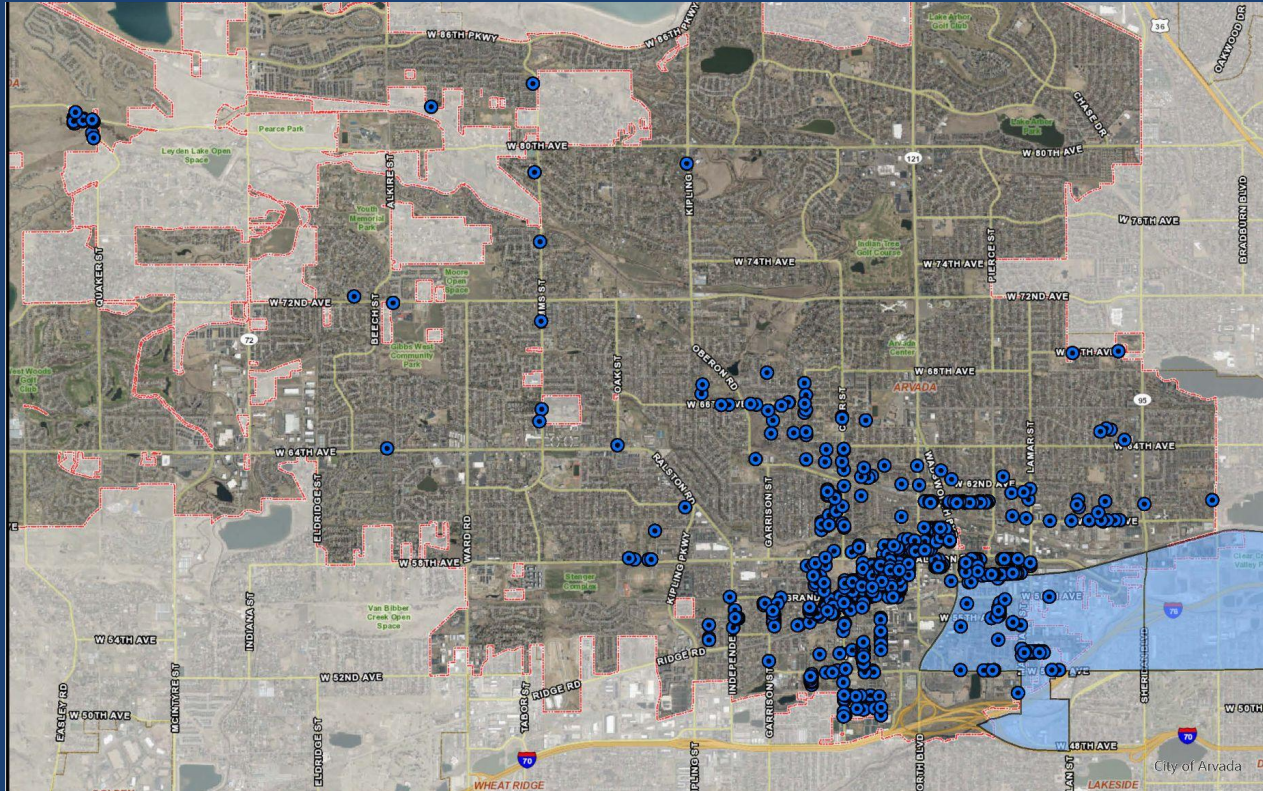
“Lead and Copper Rule” Updates: Implications for City

- We have to inventory all drinking water service lines within the water system boundaries, and replace all Lead Service Lines (LSL)
 - Includes both public and private portions (~42,000 combined connections)
 - Inventory (and accompanying public-facing map) due 10/16/24
 - Many galvanized lines will be treated as LSL and will also be required to be replaced
- A Lead Service Line Replacement Plan is required if any are found within system
 - So far we have found ZERO lead lines, but about 40 galvanized
- Full lead/galvanized replacement must be complete within 10 years.

Why a New Ordinance Now?

- To complete the Inventory, we need to encourage and incentivize participation, and penalize non-compliance
- This is a public health matter
- Lays the foundation for Phase II, to do something with the information the team has garnered the past three years
- The new ordinance is one element of the total plan to complete the inventory, comply with regulatory requirements, improve public health & safety, increase equity and environmental justice, get the lead out, and overall improve our community
- The ordinance also furthers the city's mission to deliver safe, clean, high-quality drinking water to everyone in Arvada

650 Addresses Identified for Potholing



Ordinance Details (1 of 3):
Prohibit the use of a Lead
Service Line for conveying
finished drinking water to
any structure

- Within Arvada's water system boundaries
- Definition includes galvanized lines for structures built prior to 1960
- Applicable to previously known or newly discovered LSL
- Must replace in full by December 31, 2026
- No new service connections allowed to a property with an LSL

Ordinance Details (2 of 3): Establish the Lead Service Line Replacement Program (LSLRP)

- Effective May 1, 2024
- City manages and pays for replacements between May 1, 2024 – December 31, 2026
- With consent from property owner
- Retroactive to December 2021 (LCRR promulgation date)
- Delineates applicability, responsibilities of property owner vs city, financing solutions, recordkeeping
- Does not cover premise plumbing

Ordinance Details (3 of 3): Establish a penalty for non-compliance

- Beginning January 1, 2027
- Property owner is responsible to manage and pay for replacement of any known remaining or newly discovered LSL
- Owner has 182 days to replace LSL after notification from City
- Remaining “Unknowns” will be treated as LSL in 2027
- Annual Notifications will be sent to each Unknown and LSL remaining
- Property owners will have 63 days to confirm service line material
- Each year, a fine of \$1000 will be assessed on properties with remaining LSL or Unknown status
- Liens may be assessed if not paid or returned to compliance

Financial Impact

- The Ordinance itself does not have a direct financial impact
- Implementing a Lead Service Line (LSL) Replacement Program will have a funding need
 - Replacement of all 100-250 between May 1, 2024 and December 31, 2026 at \$8,000-\$10,000 each - total of \$800,000 to \$2.5 million
 - Reimbursement for previous LSL replacements performed between December 1, 2021 and April 30, 2024 (to be equitable, minimal anticipated)
 - Ongoing financial assistance after January 1, 2027 (eligibility and amounts TBD)
- Possible addition to city funds if any fines are assessed

Summary

- There are new federal and state regulatory requirements for the City's public water system.
- A new ordinance is proposed to support compliance with new rules
 - First Reading: February 12, 2024
 - Second Reading/Public Hearing: March 4, 2024
- We estimate 100-250 private service lines require replacement at a total cost of \$800k to \$2.5 million.



Lead/Galvanized Water Service Lines in Arvada

Public Hearing: Article VII to the Arvada City Code:
“Prohibition of Lead Drinking Water Service Lines and
Establishment of Arvada’s Lead Service Line Replacement Program”

Arvada City Council
March 4, 2024



REPORT TO CITY COUNCIL WORKSHOP

AGENDA ITEM
11.A.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: New Pool Facility Naming Process

Report in Brief

PRESENTER: Katie Patterson

With the construction of the new pool facility, located at 7904 Carr Drive, the City team followed the policy regarding the naming of new facilities. The team initiated the naming process to bring forth a list of names for the Council to consider. During this workshop, the team will request the Council's feedback on the names received.

Background

With the construction of the new pool facility, the City team implemented the facility naming process. This process included:

- The partners involved in the project recommended facility names.
- The list of names was then provided to the pool user groups, who suggested additional names to be considered by the public.
- The list of names was made public, and the public could vote for their preferred option.
- The public could suggest other names.
- The list of names and public feedback will be presented to the Council during the workshop.
- The team will request the Council's feedback to narrow the list of names.
- The final list of names will then be presented to the Council at the March 18th business meeting.

Once the name is approved by the Council, the City team will work with our contractor to design and manufacture the new sign and building signage for installation prior to the pool's opening.

Strategic Alignment

Vibrant Community and Neighborhoods Strategic Result 2: Complete strategic investments and initiatives to ensure parks, trails, open space, and amenities are in alignment with our diverse, changing, and growing community.

Milestone 2E: Replace Meyer's pool with a new 50-meter natatorium.

Next Steps

1. Receive Council feedback on the names provided.
2. Return to the Council on March 18, 2024, and present the final list of names for the Council to review and to select the final name.

Prepared by:

Don Wick, Deputy City Manager

Reviewed by:

Approved by:

Jacqueline Rhoades, Public Works Director	2/20/2024
Bryan Archer, Director of Finance	2/20/2024
Tammy Hedlund, Legal Specialist	2/20/2024
Kelsy Sargent, Assistant City Attorney	2/20/2024
Rachel Morris, City Attorney	2/21/2024
Don Wick, Deputy City Manager	2/21/2024
Lorie Gillis, City Manager	2/22/2024

Enclosure, exhibits & attachments required to support the report

New pool naming process

Meyers Pool replacement project

March 4, 2024

Agenda

- New facility overview
- Process overview
- Feedback
 - Internal partners
 - Pool user groups
 - General public
- Next steps



Aerial photo taken 9/28/23

Background

- George J. Meyers Swimming Center (7900 Carr Drive) is being replaced by a new aquatics facility (7904 Carr Drive)
- Features of the new facility:
 - 50-meter Myrtha pool with competitive diving platforms
 - Additional spectator seating
 - Secondary 25-yard pool
 - Universal changing rooms for improved ADA accessibility and inclusive space
 - Expanded parking
 - Designed to LEED Silver certification
 - Advanced filtration to conserve water



Interior design renderings

Purpose of the process

- While being referred to as the “new” Meyers Pool, this will be a new facility and brings the opportunity for a new name
- Naming process goals:
 - Consider current and future community and business needs of the facility partners (City, Jeffco Schools, Apex)
 - Consider community feedback

Engagement process

- January 2024 - solicit name suggestions
 - Project partner agencies (City, Jeffco Schools, Apex)
 - Direct outreach to key pool user groups
 - Mile High Dive Club
 - North JeffCo Swim Team
 - Arvada HS swim teams
 - Meadowglen Swim Team
 - Coral Key Scuba program
 - Feedback
 - Regionally recognizable and representative of facility caliber
 - Familiarity with Meyers as facility name
 - Influence of Coach Kelley
 - Instilling sense of fun, belonging
 - List of 14 reasonable names compiled for broad feedback

"...she wishes it could be named Cloud 9 because practice is her happy place and she wanted to tell her friends she was going to 'cloud 9'"
- Mile High Dive Coach on behalf of team member

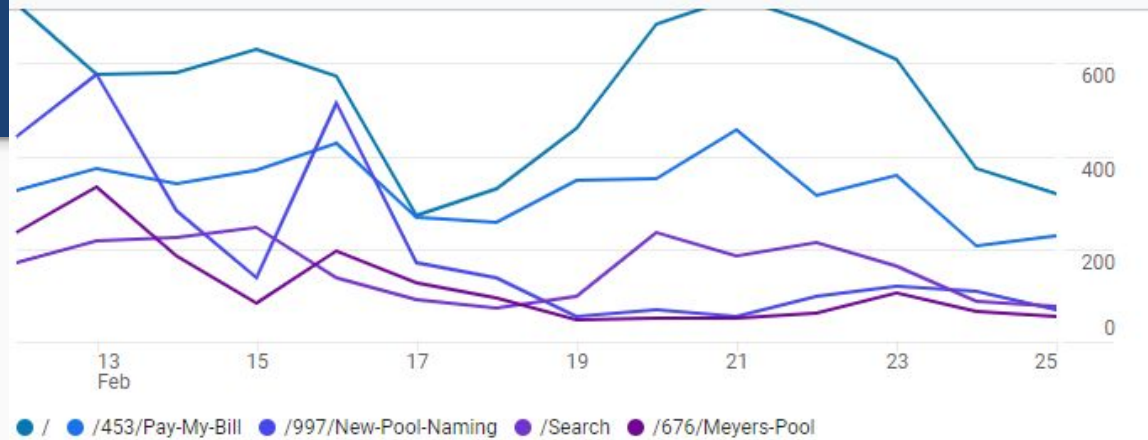
Engagement process (cont.)

- February 2024 - solicit broad community feedback on the list of potential names
 - Project webpage
 - Project email list
 - Signage at Meyers Pool
 - SpeakUp Arvada e-newsletter
 - News Flash on City website (homepage)
 - Arvada News (e-newsletter)
 - Arvada Press article
 - Social media (Facebook, X, Instagram, NextDoor) promotion across all three organizations
 - engage@arvada.org to submit other suggestions

Site traffic

During survey window Monday, Feb. 12 to Sunday, Feb. 25

- 3rd most visited page on ArvadaCO.gov
- 2,840 total page views
- 1,683 unique visitors



Search...

Page path and screen class		Views	Users	Views per user
		61,650	26,599	2.32
		100% of total	100% of total	Avg 0%
1	/	7,560	4,868	1.55
2	/453/Pay-My-Bill	4,634	3,359	1.38
3	/997/New-Pool-Naming	2,840	1,683	1.69
4	/Search	2,216	997	2.22
5	/676/Meyers-Pool	1,692	1,261	1.34

Public Feedback - 2711 submissions

- 1864 - Ken Kelley Aquatics Center
- 1506 - Meyers Aquatics Center
- 693 - Arvada Aquatics Center
- 316 - North Jeffco Aquatics Center
- 280 - Meyers-Kelley Aquatics Center
- 194 - The Water at Meyers (WAM)
- 156 - Meyers Aquatics Greater Intercommunity Center (MAGIC)
- 90 - Jefferson Aquatics at Meyers (JAM)
- 82 - Arvada Jefferson Aquatics Center (AJAC)
- 76 - Jefferson Arvada Mile-High (JAM) Aquatics Complex
- 66 - Arvada Jefferson Apex Aquatics Center (AJAAC)
- 60 - Jefferson at Meyers (JAM) Aquatics Complex
- 32 - Jefferson Aquatics Center
- 4 - Meyers Aquatics Jefferson Intercommunity Center (MAJIC)

Other submissions

- The Robert Frie Aquatics Complex
- Vakoff Aquatics Center (VAC)
- Unity Pool - Arvada Apex Jeffco Schools (AAJS)

Next steps

- Narrow list to 5 names
- Resolution on Monday, Mar. 18 to finalize name of new facility
- Timing to ensure design / construction / install stay on track



Aerial photo taken 2/22/24



REPORT TO CITY COUNCIL WORKSHOP

AGENDA ITEM
11.B.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: Speed Management

Report in Brief

Team members from the Public Works Traffic and Police Department teams will present information related to the Speed Management Program in this workshop session. Through this session, we will show multi-layered and streamlined speed management strategies that will start with a simple neighborhood outreach approach to raise speed awareness and be followed by integrated speed data collection efforts, speed data assessments to identify the appropriateness and applicability of speed management measures, determine appropriate funding and partnership with other citywide programs, implementations, proper maintenance, and operational plans.

Background

In cooperation with Arvada PD, the City of Arvada's PW department is committed to ensuring a safe and efficient transportation system for all users. The traveler's speed choice is complex in nature, and it involves multiple factors such as driver/rider characteristics, motivational and attitudinal factors, speed limits, enforcement, available technologies, and road design and infrastructure.

The City of Arvada has initiated several initiatives through policies, programs, and projects to address traveler's speed choices over the last decades. The City of Arvada's transportation system was designed following the Engineering standards, a proactive approach that aims to foster the creation of self-enforcing roadway design appropriate to the land use and user needs (function of the road) to maintain safe travel speed.

The Practical Action and Customer Service Oriented Speed Management Program is based entirely on requests and concerns voiced by local residents. Traffic speeding issues may be related to the larger neighborhood or maybe very location-specific. More localized (spot) problems include vegetation obstructing drivers' view and additions or modifications to existing signs or markings.

More complex, neighborhood-wide problems are speeding or cut-through traffic on a long stretch of street or multiple streets. Each of these concerns will be analyzed by staff to determine if quick response or speed management measures prioritization is necessary.

To address the range of concerns most effectively, without requiring that site-specific problems with fairly routine solutions go through the same process as more complex neighborhood problems, streamlined and multi-layered levels of review, risk assessments, and response and actions are included in the Speed Management Program.

Strategic Alignment

The work of this study session aligns with the following Principle within the Infrastructure Priority Area of the City Council:

Innovates safe, accessible and efficient connections to modes of transportation, including transit, streets, sidewalks, and bikeway including a focus on enhanced technology at high-priority intersections improving safety, minimizing traffic congestion and making first and last-mile connections.

Next Steps

This workshop session is part of a series of transportation system information sessions. On February 12, 2024 a study session was held to discuss several aspects of the multi-modal transportation system, including travel patterns and demand, traffic safety and operational conditions, infrastructure deficiencies, as well as the system maintenance plans underway. The team will return to present the Transportation System Plan recommendations.

Prepared by:

Jacqueline Rhoades, Public Works Director

Reviewed by:

Approved by:

Mazedur Hossain, Traffic Engineering Manager 2/13/2024

Jacqueline Rhoades, Public Works Director 2/16/2024

Bryan Archer, Director of Finance 2/20/2024

Tammy Hedlund, Legal Specialist 2/20/2024

Kelsy Sargent, Assistant City Attorney 2/20/2024

Rachel Morris, City Attorney 2/21/2024

Don Wick, Deputy City Manager 2/21/2024

Lorie Gillis, City Manager 2/22/2024

Enclosure, exhibits & attachments required to support the report

Speed Management Program

March 4 Council Workshop Session

Workshop Agenda

1. Current Practices and Conditions
2. Known Needs and Challenges
3. Continuous Improvement
4. APD Traffic Enforcement Philosophy / Strategy
5. Next Steps

Current Practices and Conditions

1. Transportation System Existing Conditions

Top Traffic Customer Concerns

1. Traffic Signal Malfunctions, Signal Timing and Phasing
2. Perceived Speeding
3. Lack of Signs and Pavement Markings

Traffic Signal Malfunctions, Signal Timing and Phasing: Key Takeaways

1. **Aging Infrastructure:** More than 50% of the City's signals are older than 10-20yrs
2. **Operational Impacts:** Over 50% of the signal equipment is technology obsolescence at various levels.
3. **ADA Compliance:** Few signals are equipped with ADA compliant push buttons.
4. **Emergency Preemption:** Many signals lack opticom devices for emergency services.
5. **Signal Connectivity:** More than $\frac{2}{3}$ of the City's signal equipment is not connected to the City's Fiber Backbone.

Known Needs and Challenges

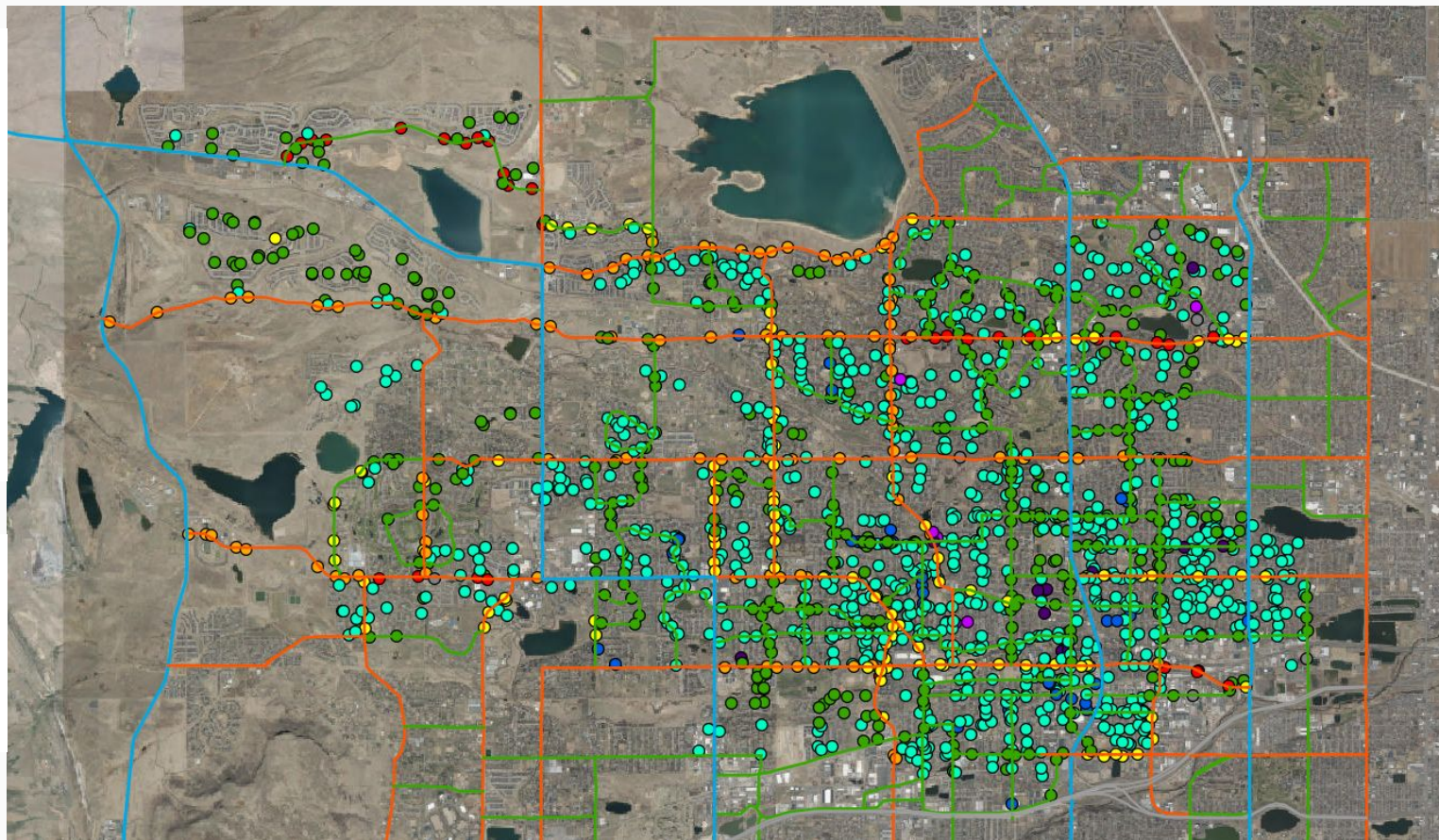
1. Inconsistent Speed Limit Signs
2. Perceived Neighborhood Speeding
3. Congested Regional Corridors
4. Lack of Self-Enforcing Road Geometry

Speed Limit Signs by Speed

- Speed Needed
- 10 MPH
- 15 MPH
- 20 MPH
- 25 MPH
- 30 MPH
- 35 MPH
- 40 MPH
- 45 MPH
- 50 MPH

Street Classifications

- State Highway
- 2 & 4 Lane Arterials
- Collectors
- County or Other Maintained



Approximately 1600 Speed Limit Signs.

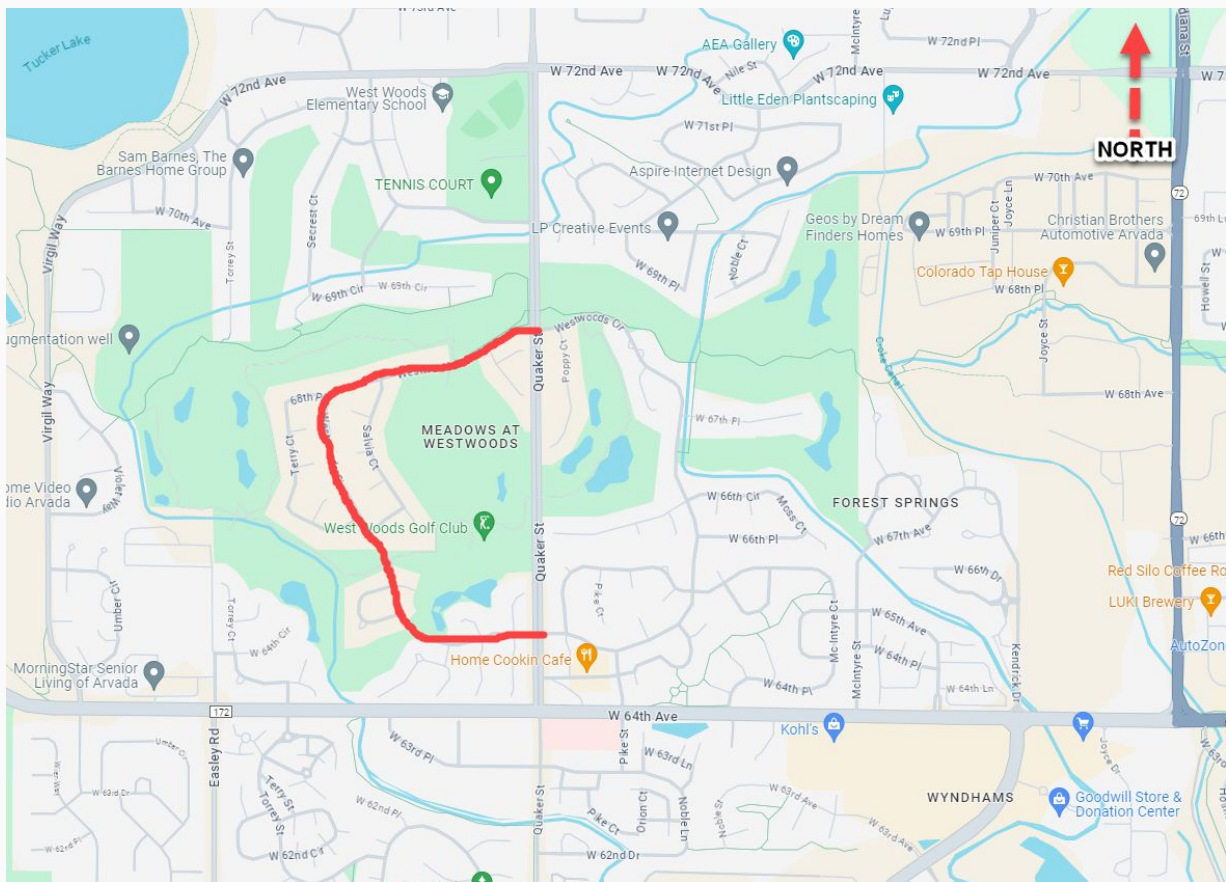
Citywide Speed Complaints – Inconsistent Speed Limit Signs

Westwood Circle

Citizen's Complaints: **"There is absolutely no reason for a 30 MPH speed limit."**

As per 42-4-1101, C.R.S., (Colorado Revised Statutes) the recommended speed limit for any residential district is 30 mph.

Roadway Geometry: The Westwoods Cir. has been designed with appropriate roadway curvature to enforce traffic to travel within the speed limit. The roadway curvature is always designed at 5 mph over the posted speed limit. The variances are considered to accommodate a diverse driver population.



Saulsbury St. (No. 1 on the Figure)

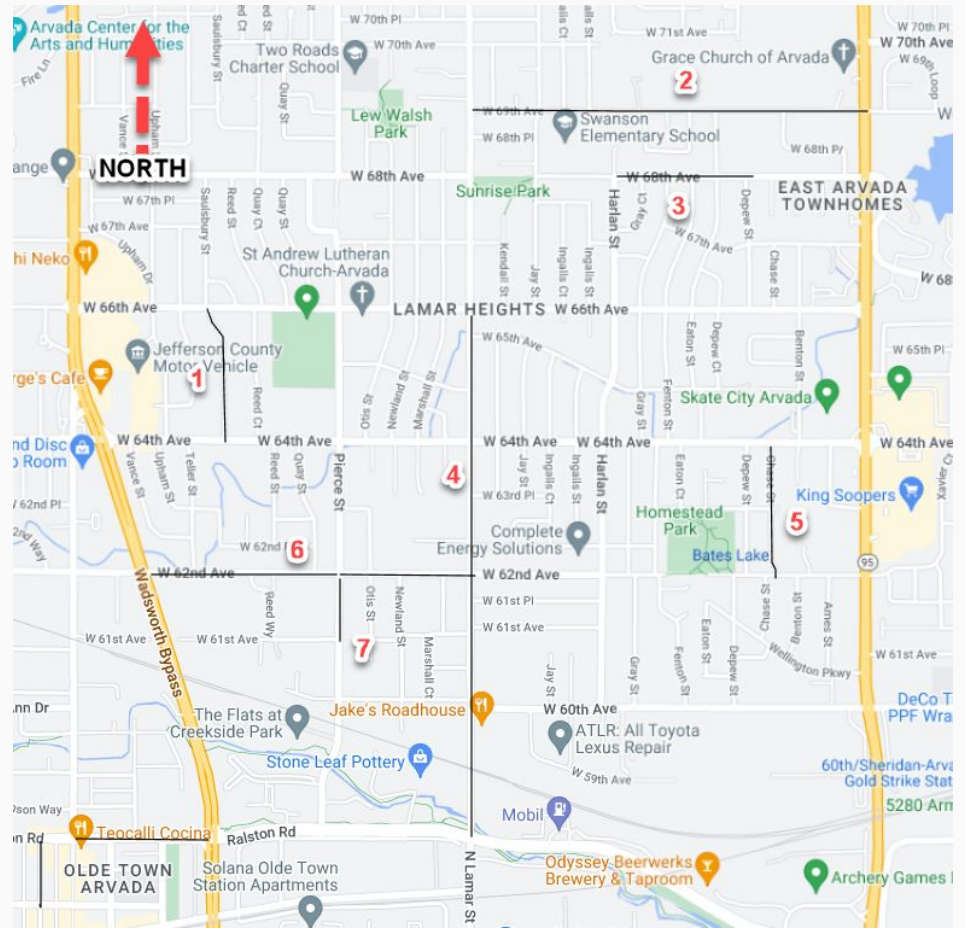
Citizen's Complaints: "Salisbury Street between 64th and 66th is the worst in the county! It happens that people **reroute** themselves to avoid the rough road. Ain't saying I'm just saying."

Lamar St. (No. 4 on the Figure)

Citizen's Complaints: "I would like to report a **speeding issue** that we have been having on Lamar. Is there something that could be done to slow these people down?"

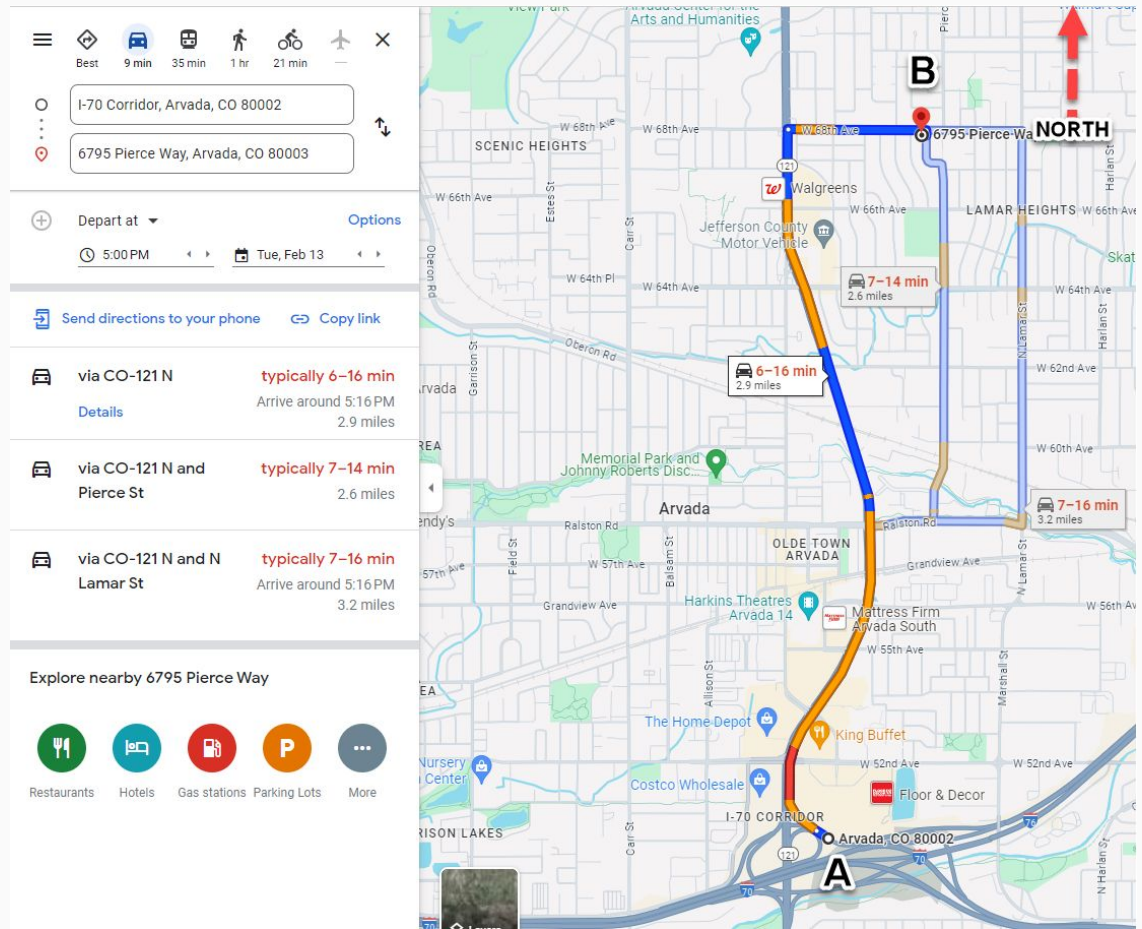
Chase St. (No. 5 on the Figure)

"I would like to bring up an issue that has been happening on W 62nd Ave. It appears that there are people that decide to **detour themselves** from 64th and Sheridan to 64th and Wadsworth using 62nd Ave"



The travel time between Point A and B
(Figure on the right):

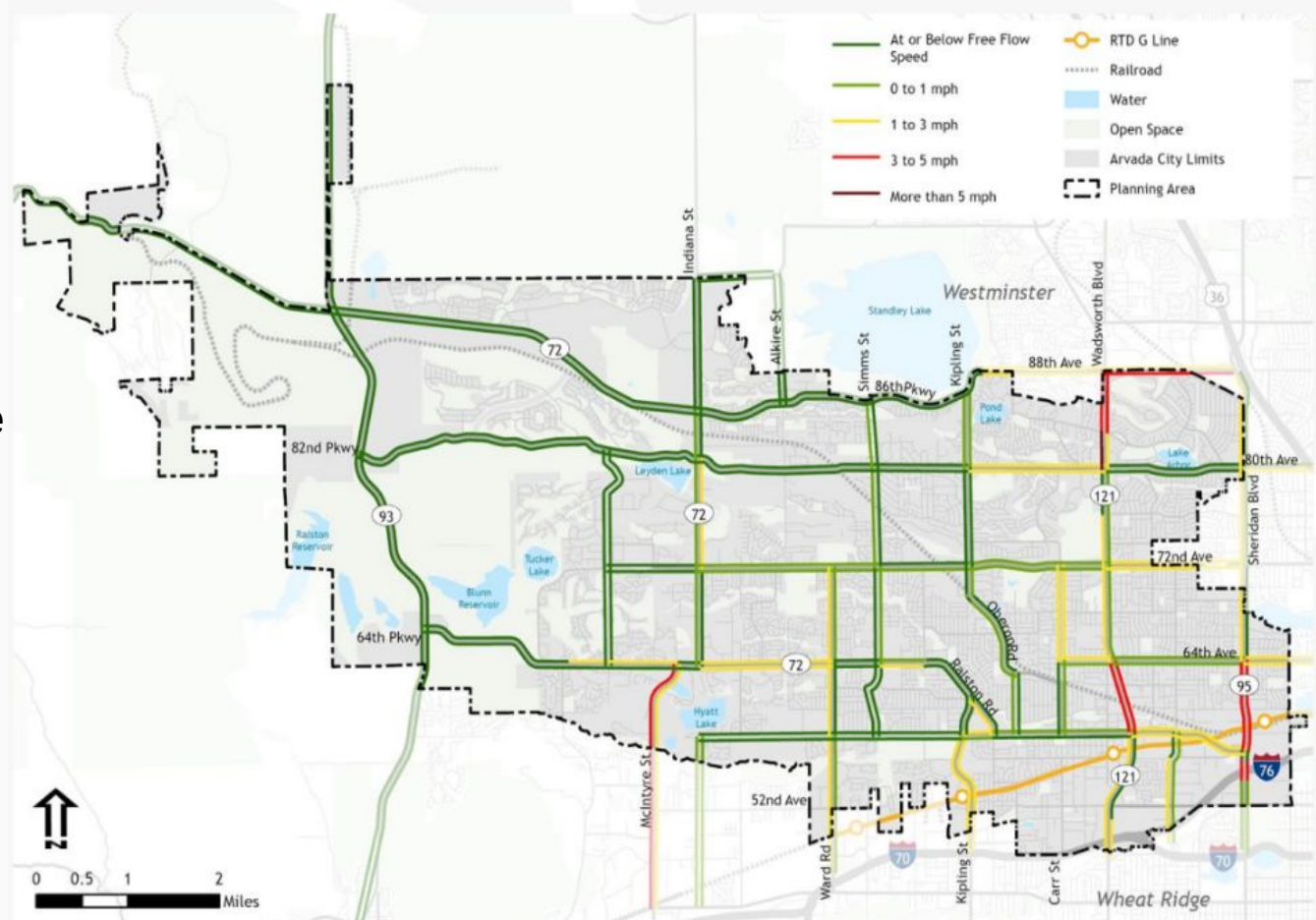
1. Regional Corridor: 6-16 min, 2.6 miles.
2. Pierce St.: 7-14 min, 2.6 miles.
3. Lamart St.: 7-16 min, 3.2 miles.



Congestion is most common in Eastern Arvada, especially near the Interstate.

Sheridan Blvd

Wadsworth Blvd

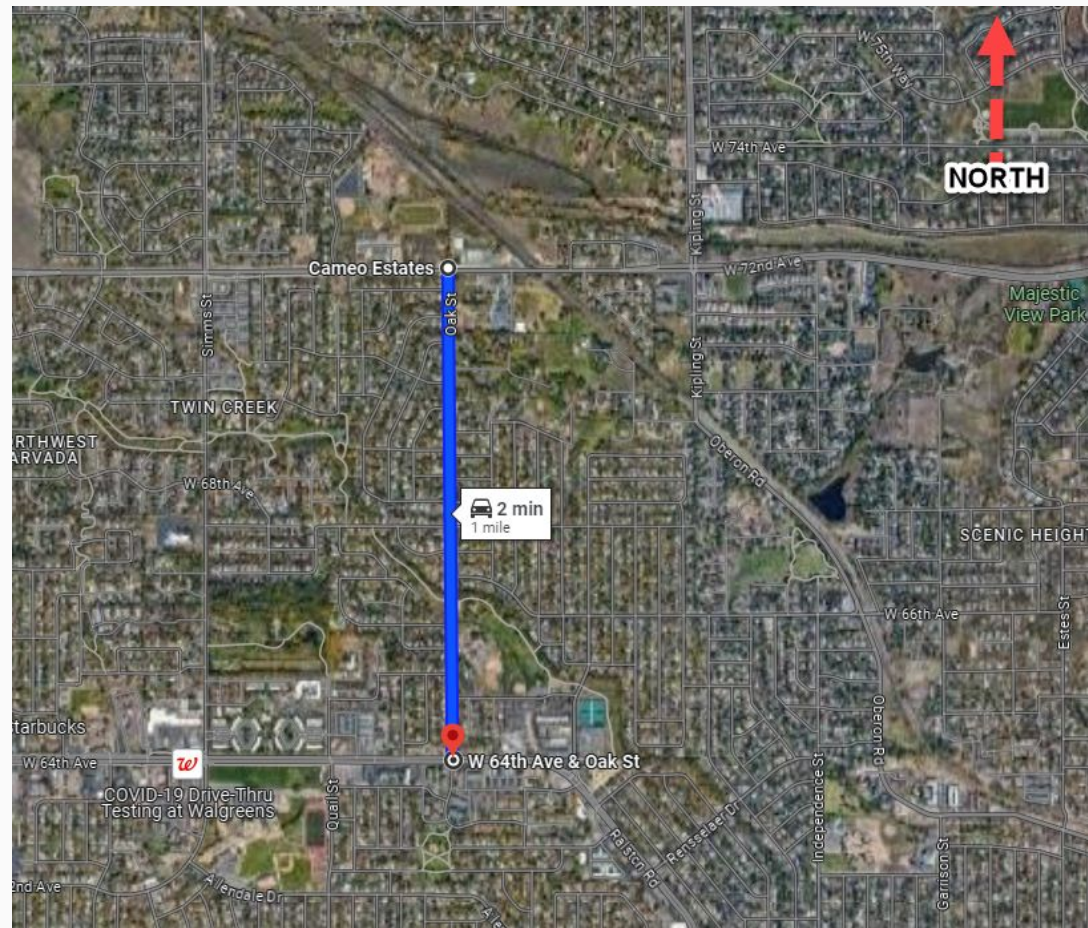


Oak St. (Between W 64th and W 72nd Ave)

Citizen's Complaints: "The speed limit is 30 MPH which is exceeded constantly; there is a long downhill section from 72nd going southbound and many vehicles exceed the speed limit by a **considerable amount on this downhill section**. A young girl on a bicycle was hit at the corner of Oak Way and Oak St. several weeks ago and in the past there have been 2 fatalities on Oak St."

Findings:

1. 85th percentile speed is considerably higher than the speed limit (30 mph).
2. Various contributing factors can influence traffic tendencies to speed here. These include the current roadway profile, width of travel lanes, and **lack of breakpoints** to slow down traffic between 64th and 72nd.



Continuous Improvement

1. Speed Management Program
2. Transportation System Plan

Basic Framework of the Speed Management Program

- Speed Data
- Safety Analysis
- Technology Application
- Enforcement
- Roadway Geometry
- Education & Communications

Speed Management Program: Workflow & Decision-Making Process

STEP 1

- Data Analysis
- Safety Review
- Risk Assessment

STEP 2

- Risk-based response

STEP 3

- Capital Project Identification and Prioritization

Step 2: Risk-Based Response

Example Responses	Acceptable Condition: Minimum to no risk	Observable Condition: Medium risk	Cautious Condition: Higher risk
Education and Awareness	✓	✓	✓
Temporary speed radar signs	✓		
Mobile speed trailers	✓		
Permanent speed radar signs		✓	
Speed safety cameras		✓	
Enforcement		✓	
Signs and Markings		✓	
Speed Management Devices/Calming Devices			✓
Capital Streetscape and Roadway Improvements			✓

These example responses are illustrative and would be applied on a case-by-case basis as warranted based on the safety analysis and risk assessment findings.

Step 3: Capital Project Identification and Prioritization

Project Planning & Prioritization Factors:

Speed
Volume
Crash history
Roadway geometry
Pedestrian generators type and number
Driveways
Building overlook
Fronting users
Engineering experience
Project funding

Low cost improvements such as signs and markings can be implemented immediately

Med - High cost improvements, including speed management devices/calming devices require community consensus and CIP process

APD Traffic Enforcement



Philosophy / Strategy

PRIORITIES

**The Traffic Unit's
deployment priorities are
as follows:**

To reduce the number and/or severity of accidents through high visibility patrol / proactive enforcement in high accident / high violation locations.

Increase safety and voluntary compliance of traffic laws in and near school zones.

Address Sector specific traffic concerns in neighborhoods / feeder streets when supported by data.

**TRAFFIC
COMPLAINT**



**REVIEW
CRASH
DATA /
AREA**

NO

**OFFICER
REVIEW**

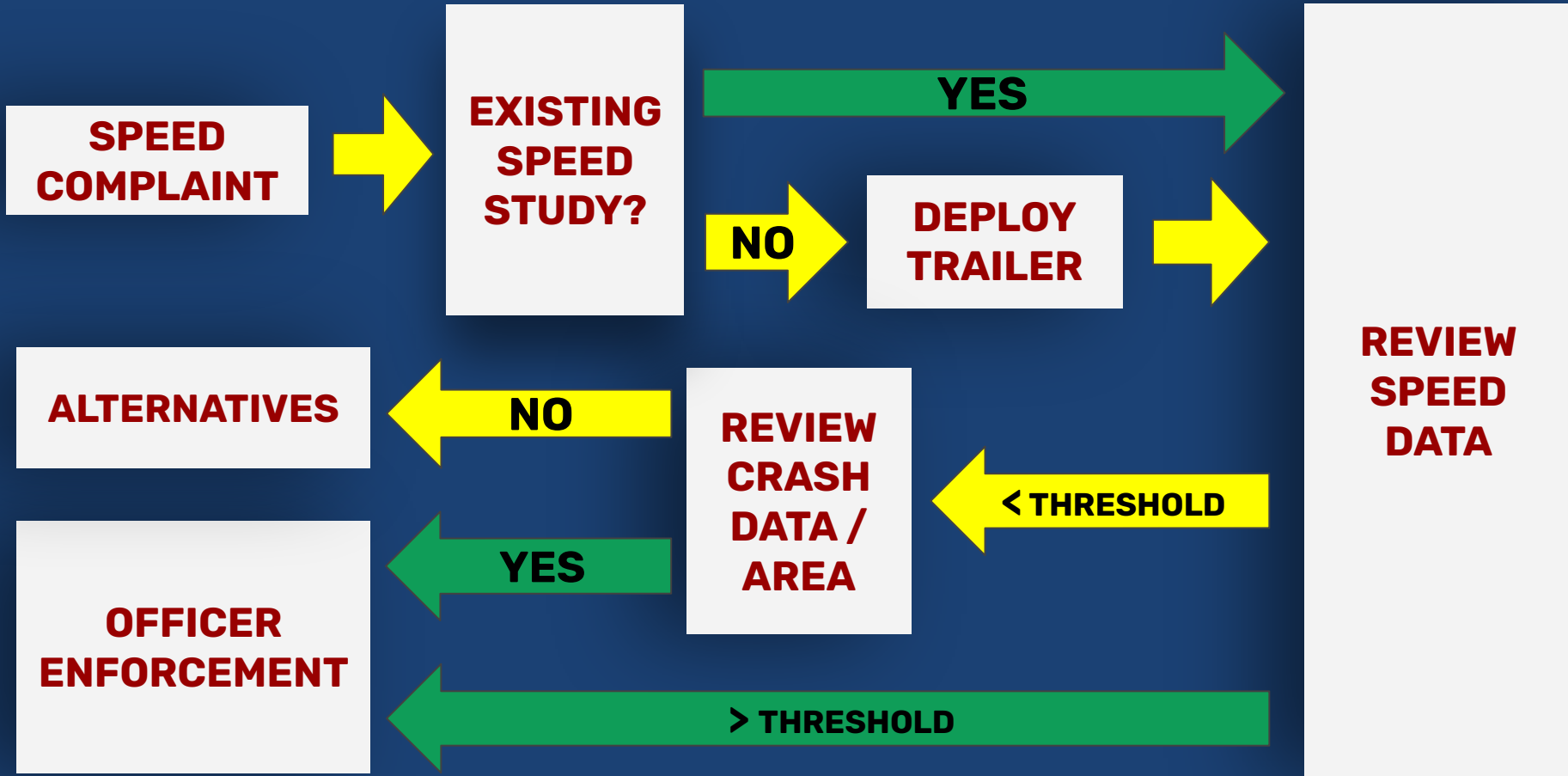
< THRESHOLD

ALTERNATIVES

> THRESHOLD

**OFFICER
ENFORCEMENT**

YES



COMPLAINTS

OCTOBER 2021 - DECEMBER 2023

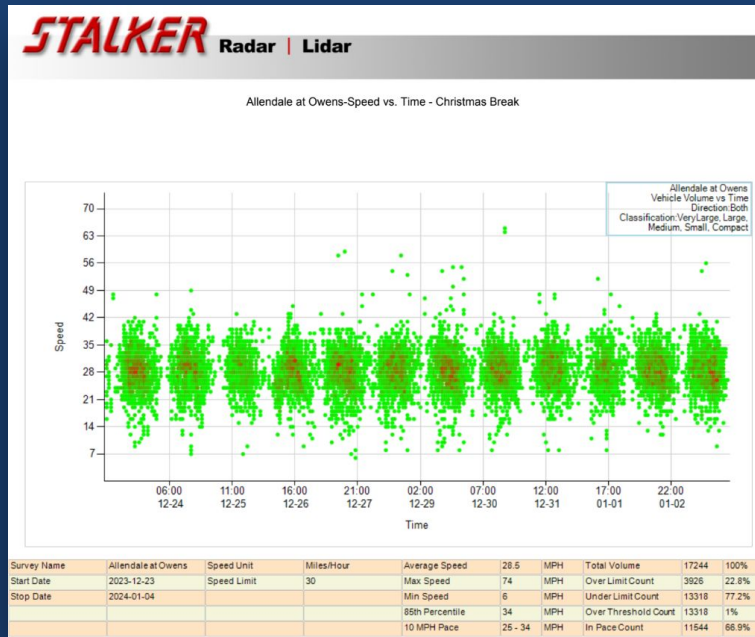
- 64 Locations - Excessive Speed
 - 9 Warranted Extra Enforcement
- 7 Locations - Other Violations
 - Stop Sign, Red Light, U-Turns, Parking
 - 2 Warranted Extra Enforcement



ENFORCEMENT

SPEED DATA -

- Speeds > 11 mph above posted speed limit per hour
- Direction of Travel
- Time of Day-Trends



Enforcement Comparison

W. 55th Ave / Quay St.

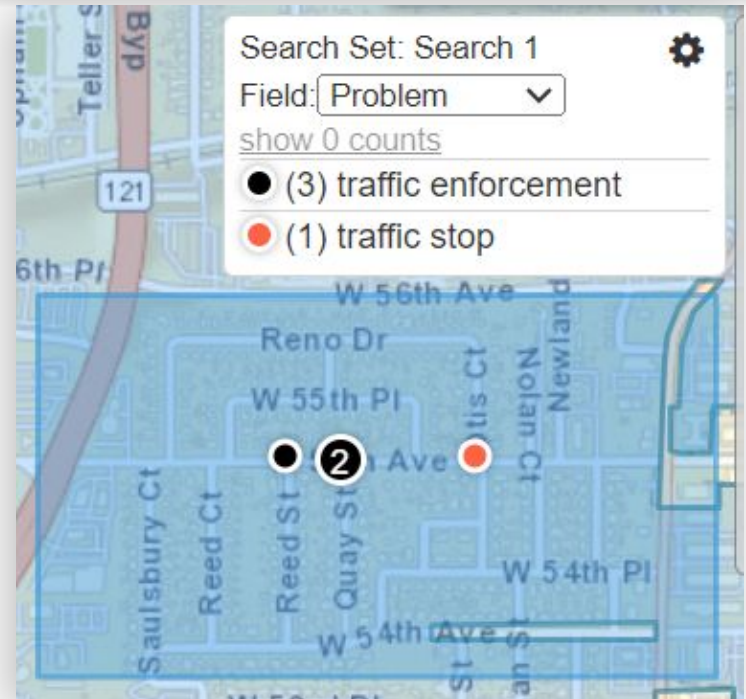
Speed Complaint

Data showed potential for enforcement

1.75 Hour enforcement over 2 days

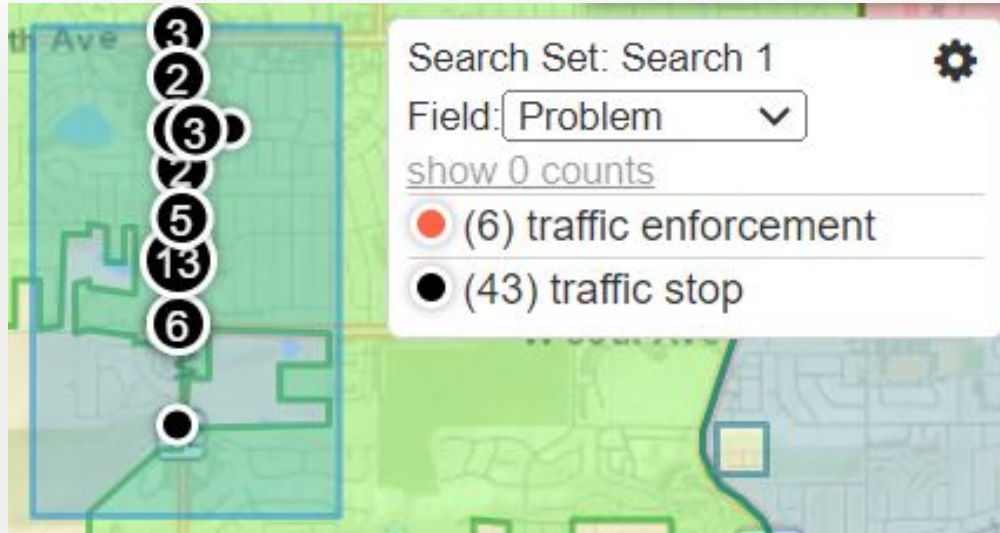
1 Traffic Stop

105 min. / stop



Enforcement Comparison

W. 58 Ave / Ward Rd.



High Crash / Violation Location

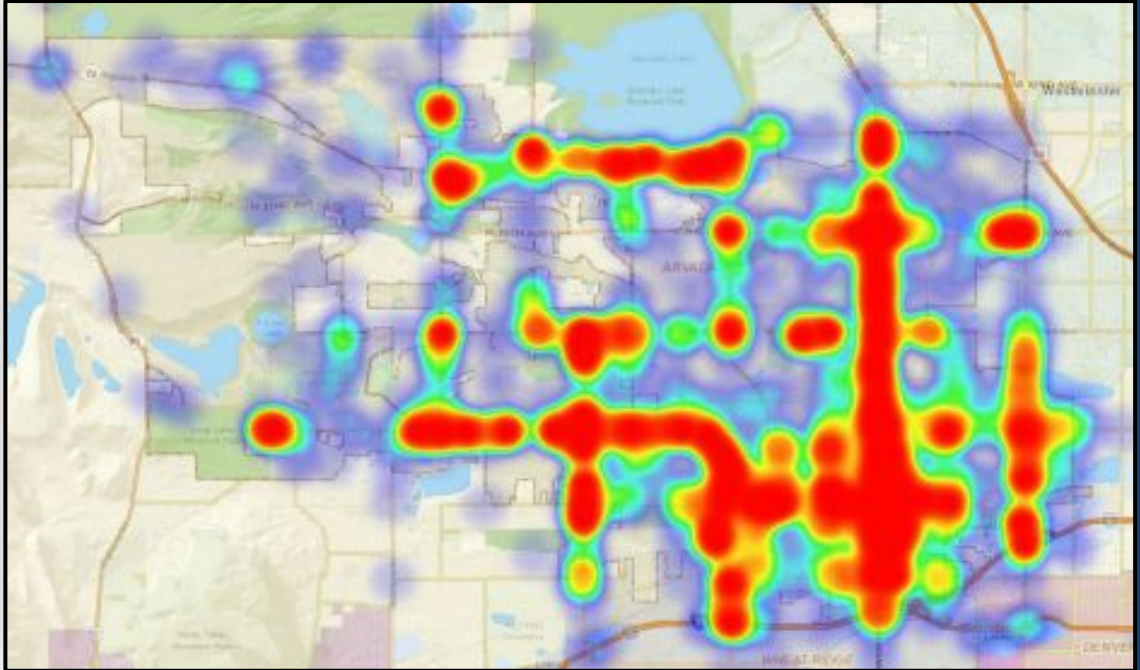
1.5 hours enforcement / unit op.

43 Traffic Stops

2 min. / stop

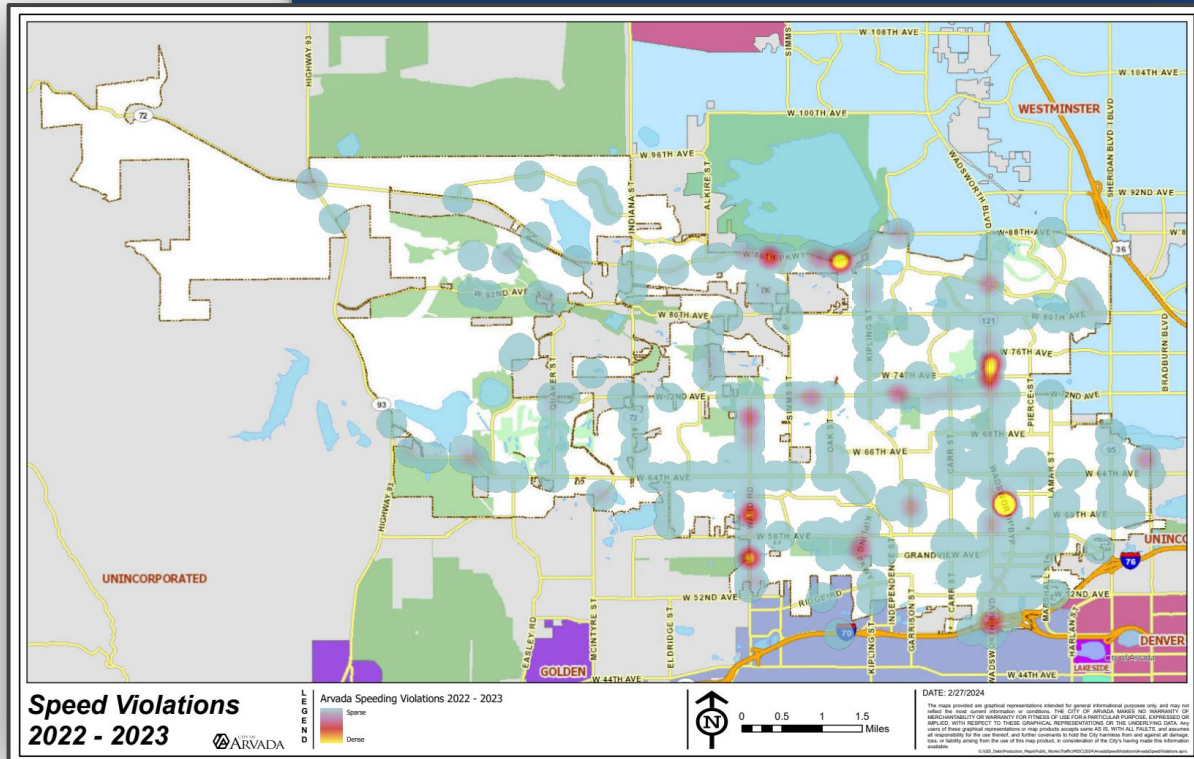
ENFORCEMENT

Traffic Stops Map (2022)



ENFORCEMENT

Speeding Ticket Map (2022-23)



Alternatives

Heads UP / Other Programs

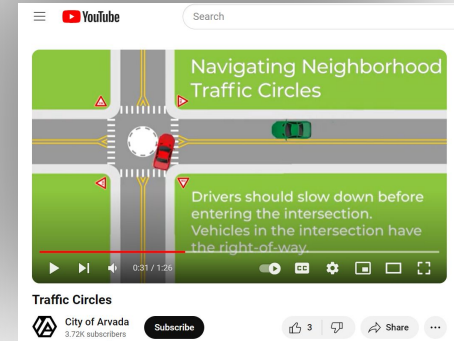
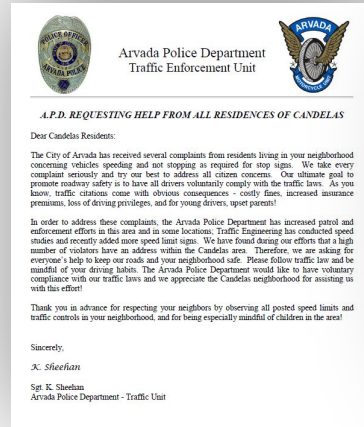
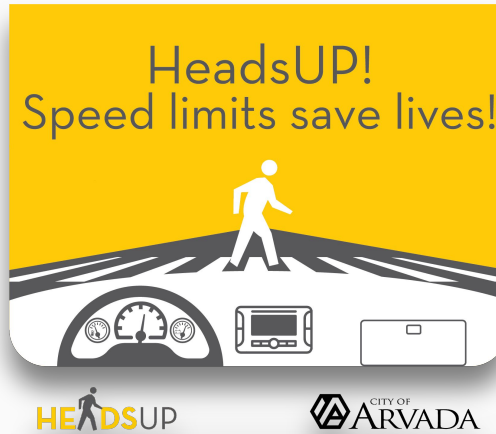
HOA / School Letters

Social Media

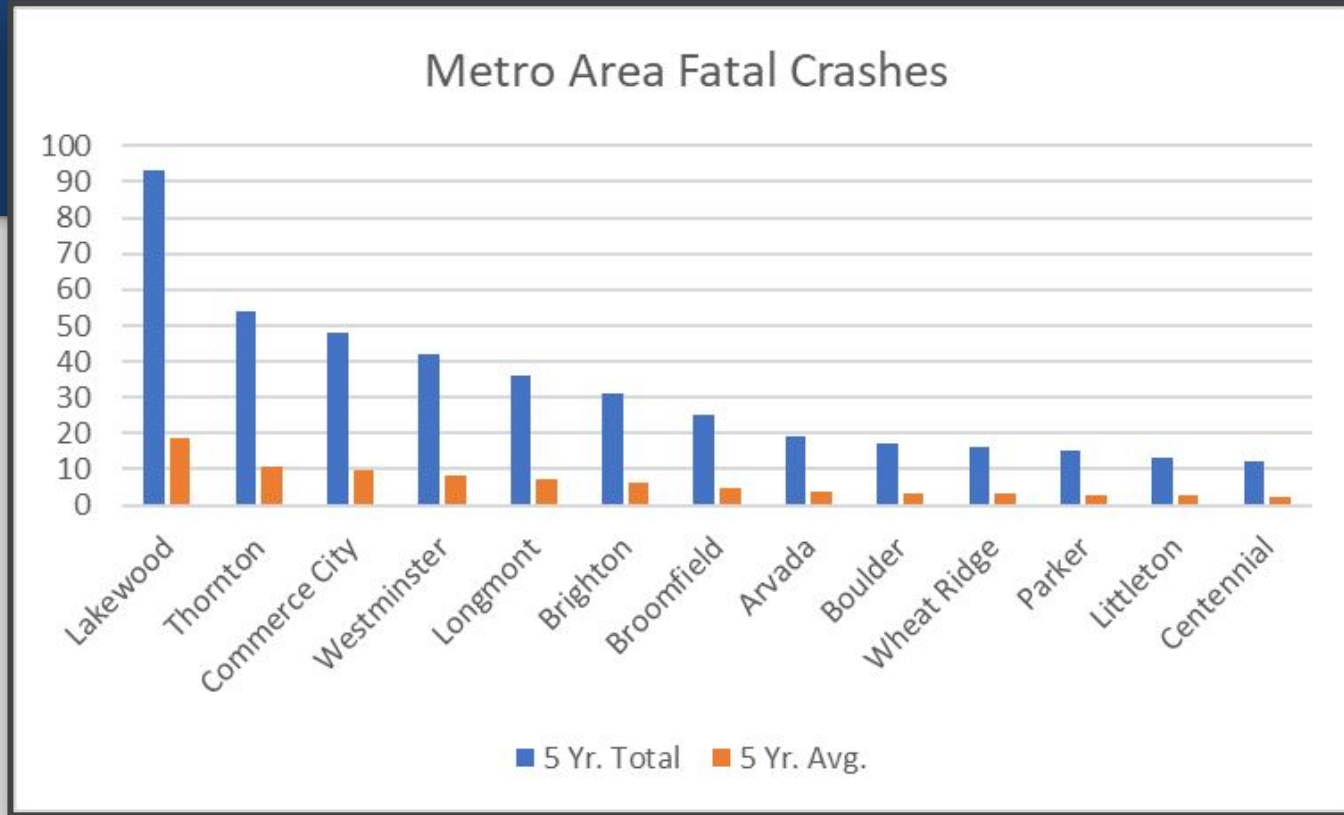
Traffic Controls

Traffic Calming

Education



CRASH DATA - 5 Yrs.



CRASH DATA - 2022

January to December, 2022	Population	*Fatalities	Population Death Rate
Boulder	111,508	1	0.8968
Centennial	110,830	1	0.9023
Fort Collins	177,556	4	2.2528
Arvada	129,793	5	3.8523
Greeley	113,460	5	4.4068
Thornton	148,797	12	8.0647
Denver	750,130	68	9.0651
Westminster	119,377	11	9.2145
Aurora	404,615	41	10.1331
Lakewood	159,884	17	10.6327
Colorado Springs	497,720	53	10.6486
Pueblo	113,460	15	13.2205
*CDOT City Fataals (number of people killed) for 2022 - website			

Traffic Crash Map (2022)



CRASH TYPE

(All Crashes)

1. Rear End
2. Broadside*
3. Sideswipe
4. Parked Car

TYPE OF ACCIDENT	2021	2022	Percent Change
Rear end	523	404	-23%
Broadside	368	347	-6%
Side to side-same dir	155	126	-19%
Parked motor vehicle	155	93	-40%
Curb	67	66	-1%
Front to front	65	66	2%
Sign	41	56	37%
Pedestrian	37	38	3%
Other fixed obj	25	27	8%
Light pole / utility pole	22	25	14%
Rear to side	24	20	-17%
Fence	31	19	-39%
Bicycle	13	12	-8%
Side to side-opp dir	11	11	0%
Tree	7	11	57%
Wall or building	14	9	-36%
Concrete highway barrier	11	9	-18%
Rear to rear	7	9	29%
Mailbox	6	9	50%
Other non-collision	15	8	-47%
Other object	15	6	-60%
Guard rail	13	7	-46%
Domestic/wild animal	8	6	-25%
Overturning/rollover	6	5	-17%
Culvert/Ditch/Ground	6	5	-17%
Delineator post	5	5	0%
Electrical/utility box	0	4	not available
Traffic signal pole	9	3	-67%
Large rocks or boulder	4	3	-25%
Embankment	4	3	-25%
Vehicle debris or cargo	5	2	-60%

5 YEAR FATAL/ SBI DATA

Top Locations & Type

SECTOR	FATAL/SERIOUS ACCIDENT LOCATIONS	COUNT
B	INTERSTATE 70/76	14
D	HWY 72 and HWY 93	8
B	W 64TH AVE and SHERIDAN BLVD	4
A	W 77TH DR and WADSWORTH BLVD	4

MOST HARMFUL EVENT	TYPE OF INJURY			TOTAL INJURY
	FATAL	FATAL/SBI	SERIOUS	
08. Front to side	3	1	28	32
05. Pedestrian	4	0	20	24
29. Curb	3	0	14	17
06. Front to front	0	1	14	15
07. Front to rear	0	0	14	14
05. All other pedestrians	4	0	8	12
15. Bicycle/motorized bicycle	0	0	8	8
11. Side to side-same direction	0	0	7	7
19. Light pole/utility pole	1	0	3	4
41. Guardrail face	1	0	3	4
22. Guard rail	1	0	2	3
21. Sign	0	1	1	2
36. Wall or building	1	0	0	1
GRAND TOTAL	18	3	148	169

5 YEAR FATAL/ SBI DATA

Driver Actions

DRIVER ACTIONS	TYPE OF INJURY			TOTAL INJURY
	FATAL	FATAL/SBI	SERIOUS	
DUI	2	3	29	34
CARELESS	1	0	21	22
PEDESTRIAN AT FAULT	5	0	14	19
AGGRESSIVE DRIVING	3	0	12	15
DISTRACTED	0	0	14	14
LOOKED/DID NOT SEE	2	0	11	13
DRIVER INEXPERIENCE	0	0	10	10
MEDICAL	1	0	6	7
NO CONTRIBUTING FACTOR	2	0	5	7
REDLIGHT VIOLATION	1	0	2	3
SPEEDING	1	0	2	3
GRAND TOTAL	18	3	148	169

RED LIGHT CRASHES (2020-2023)

Top Locations & Type

MOST HARMFUL EVENT:	MINOR	NONE	SERIOUS	TOTAL
06. Front to front	2	26	1	29
07. Front to rear	1	5	0	6
08. Front to side	20	220	5	245
09. Rear to side	0	1	0	1
11. Side to side-same direction	0	2	0	2
15. Bicycle/motorized bicycle	1	1	1	3
31. Fence	0	1	0	1
TOTAL INJURY	24	256	7	287

TOP RED LIGHT VIOLATION ACCIDENTS:	COUNT
W 52ND AVE and WADSWORTH BLVD	15
RALSTON RD and WADSWORTH BYP	15
W 80TH AVE and WADSWORTH BLVD	12
W 72ND AVE and WADSWORTH BLVD	12

Next Steps

1. Continue Speed Management Program Key Initiatives:
 - a. Continue community education and awareness
 - b. Explore mobile trailer enforcement options
 - c. Advance self-enforcing roadway assessment
 - d. Conduct project prioritization process
2. Communicate staffing and funding requirements through the budget process

Example Community Education and Awareness

- Postcard could be sent when speed data findings do not meet the threshold for police enforcement
- Messaging about community would be included, for example: Be a good neighbor, watch for pedestrians, obey traffic signs, and slow down. It saves lives. Whether biking, walking or driving, it takes all of us to keep one another safe.
- Specific follow up information about what we did and what we found in your area also included along with links to resources



Example Mobile Speed Trailer

- Guardian Pro Camera Example
- Estimated \$30,000 for initial equipment purchase
- \$250,000 on-going administrative and operating expenses and additional staff are needed
- Teams will continue to investigate options and propose staffing and funding requirements through the budget process



The advertisement features the TrafficLogix logo on the left, which consists of a stylized 'T' made of dots and the word 'TRAFFICLOGIX' below it. To the right of the logo, the text 'Municipal Warning Cameras' is displayed in a bold, sans-serif font. Below this, a paragraph of text describes the 'Enforcer' speed camera, highlighting its unique ability to issue warning letters instead of penalties. The background of the advertisement is a blue sky with white clouds and a network of glowing blue lines. On the right side of the advertisement, there is a photograph of the 'Enforcer' camera unit mounted on a black pole. The camera unit is black and rectangular, with a lens and a small display screen. Below the camera unit, there is a small rectangular sign with a grid of dots. At the bottom right of the advertisement, there is a small text label 'Available in' followed by two circular icons, one white and one black.

TRAFFICLOGIX Municipal Warning Cameras

The Enforcer speed camera is the only speed camera in the world that can be used by any city to slow speeders on any street.

Unlike penalty driven cameras which are only legal in select states, the Enforcer camera improves driver awareness without the need for penalties or ticketing. It captures images of vehicles in multiple lanes using precise OCR license plate recognition technology. Issue warning letters to speed violators including images, date, and detailed speed data to dissuade further speeding infractions. For use as standalone solution or in conjunction with radar speed display signs.

Available in

Challenges

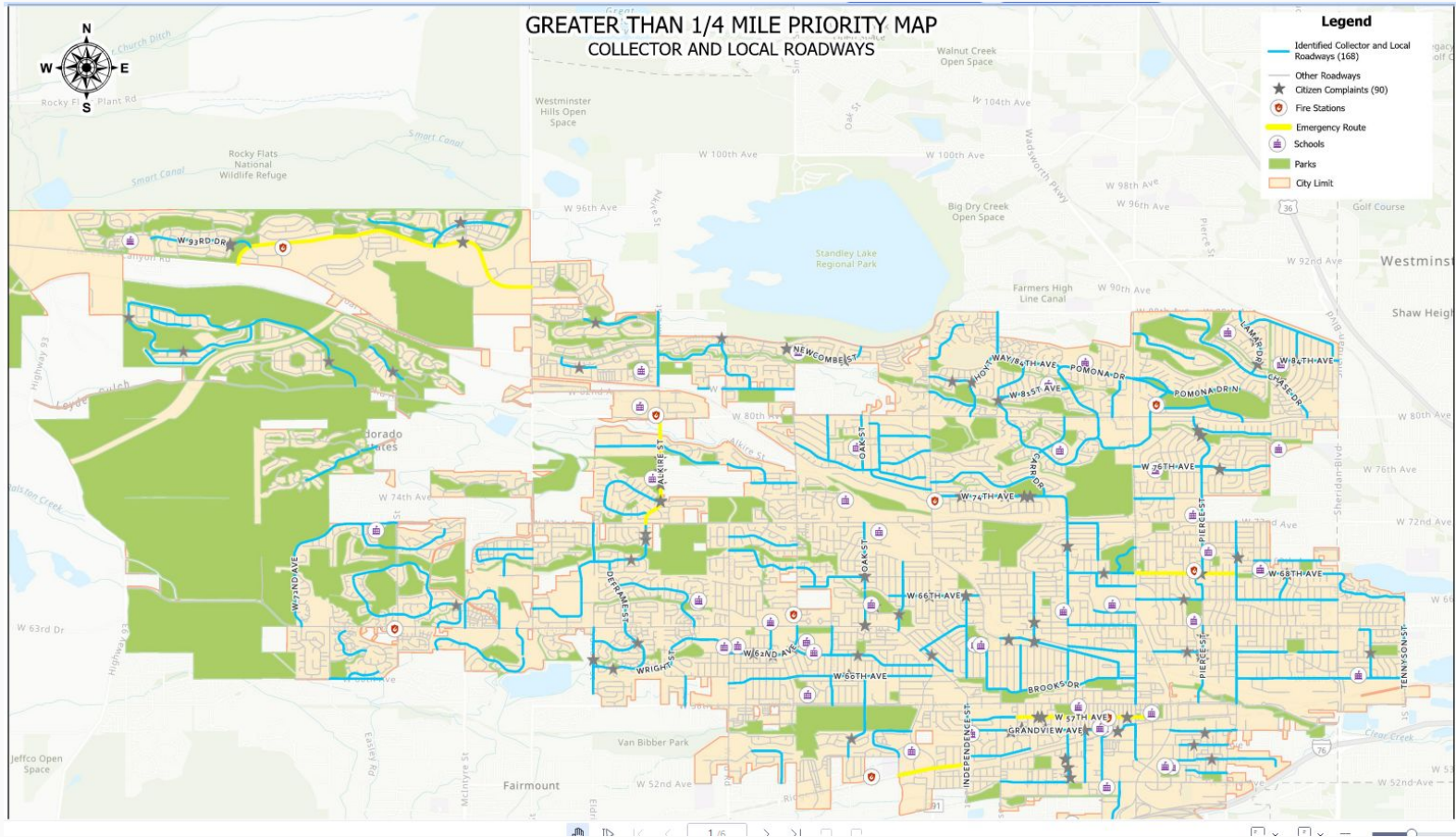
- Staff Time
- System Limitations with multi-lane corridors
- System Limitations with motorcycle detection

Opportunities:

- + Around the clock deployment
- + Added coverage
- + Added data collection

"A self-enforcing road, also called a "self-explaining roadway," is a roadway that is planned and designed to encourage drivers to **select operating speeds consistent with the posted speed limit.**"

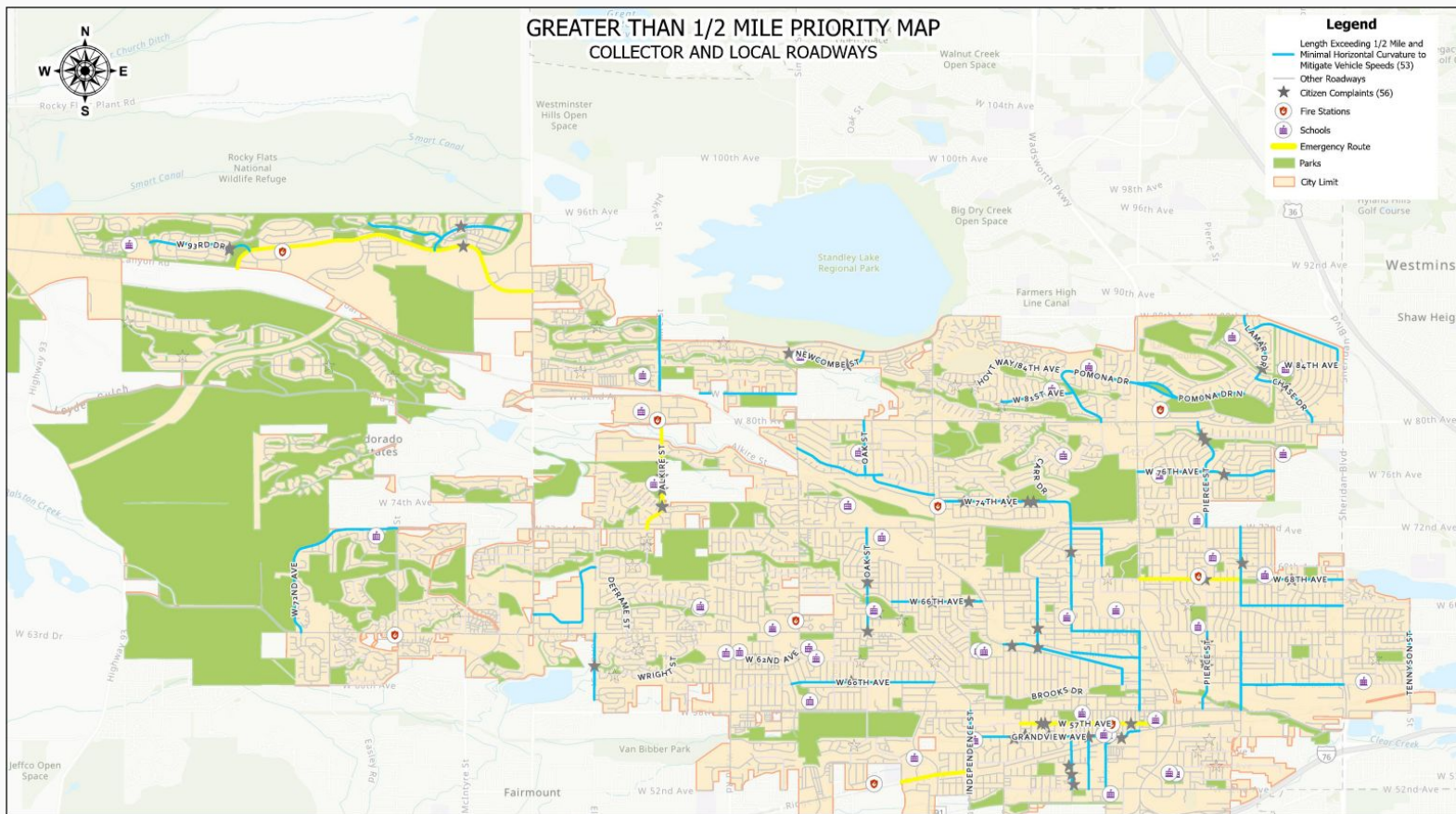
168 Roadway Segments are more than ¼ mile in length where traffic can travel at a higher speed due to a lack of self-enforcing roadway geometry.



Self-Enforcing Roadways: A Guidance Report: PUBLICATION NO. FHWA-HRT-17-098, JANUARY 2018

Key Takeaways:

53 Roadway Segments are more than 1/2 mile in length where traffic can travel at a higher speed due to a lack of self-enforcing roadway geometry.



THANK YOU!
QUESTIONS?



REPORT FROM CITY COUNCIL

AGENDA ITEM
13.A.

DATE: March 4, 2024

SUBJECT: Council Committee Reports

Report in Brief

City Council members are appointed to various committees and boards as set out on the attached listing. As meetings are held, individual council members will report back to the full City Council any relevant discussions and issues that occurred.

Prepared by:
Chris Koch, CCO Admin

Lauren Simpson	Arvada City Attorney Committee Arvada Municipal Court/Judicial Committee Arvada Urban Renewal Authority Arvada Visitors Center Committee *Metro Mayors' Caucus Urban Drainage and Flood Control District West Connect Coalition E-470 Authority (Alternate) Olde Town Business Improvement (BID) (Alternate)
Shawna Ambrose	Adams County Regional Economic Partnership (ACREP) Arvada Audit Committee Bond Oversight Committee Jefferson County R-1 Schools Coordinating Committee Arvada Visitors Center Committee (Alternate)
Sharon Davis	Apex Coordinating Committee Arvada Municipal Court/Judicial Committee Arvada Parks Advisory Committee CML Policy Committee Jefferson Economic Development Council (JDEC) Denver Regional Council of Governments (DRCOG) (Alternate) E-470 Authority (Alternate) Jeffco Transportation Action & Advisory Group (JEFFTAAG) (Alternate) Jefferson County Community Corrections Board and West Connect Coalition (Alternate)

Lisa Feret	Arvada Chamber of Commerce Government Affairs Committee Arvada Fire Protection District Coordinating Committee Denver Regional Council of Governments (DRCOG) Housing Advisory Committee Jeffco Transportation Action & Advisory Group (JEFFTAAG) Jefferson County Community Corrections Board Smart City Advisory Committee Adams County Regional Economic Partnership (ACREP) (Alternate)
Bob Fifer	Apex Coordinating Committee Arvada City Attorney Committee Arvada Fire Protection District Coordinating Committee Arvada Transportation Committee Jefferson County R-1 Schools Coordinating Committee Jefferson Parkway Public Highway Authority Smart City Advisory Committee Northwest Parkway Authority (Alternate)
John Marriott	Arvada Economic Development Association Board Bond Oversight Committee Olde Town Business Improvement (BID) Rocky Mountain Metropolitan Airport Community Noise Roundtable
Randy Moorman	Arvada Audit Committee Arvada Center for the Arts and Humanities Arvada Sustainability Committee CML Policy Committee Jefferson Parkway Public Highway Authority The Rocky Flats Stewardship Council Northwest Parkway Authority (Alternate)

*asterisked committees are not appointed by Council



REPORT TO CITY COUNCIL

AGENDA ITEM
14.A.

TO: THE HONORABLE CITY COUNCIL

DATE: March 4, 2024

SUBJECT: Review of Future Workshops and Presentations

Report in Brief

The City Manager's Office maintains a list of upcoming workshops and presentations to be scheduled for City Council meetings. During City Manager Reports, at the end of City Council business meetings, City Manager, Lorie Gillis, will review with City Council the tentative schedule and make any adjustments necessary.

Prepared by:
Chris Koch, CCO Admin

Reviewed by:

Approved by:

Rachel Morris, City Attorney 2/12/2024

Lorie Gillis, City Manager 2/22/2024

Enclosure, exhibits & attachments required to support the report

2024 CITY COUNCIL WORKSHOPS, STUDY SESSIONS, PRESENTATIONS AND RETREATS (TENTATIVE)

WORKSHOPS	Date	Lead
Traffic Speed Management @Business meeting The traffic team will present citywide speed data and discuss Arvada's speed management framework. Highlights of the framework elements including processes for data analysis, risk and safety analysis, technology assessment, enforcement, roadway design, and education/communications will be discussed.	Mar 4	PW
Pool Facility Naming @Business Meeting The Public Works team is following the City's process for naming the new pool facility (currently known as the Meyer's Pool). During the March 4 workshop, the Public Works and CMO team will present information about the naming process the team has used, and the potential names for the new pool for the Council to consider. Next Steps: On March 18, the team will take the final list of names to the Council for a vote and approval on the final name for the new facility.	Mar 4	PW
Canceled	Mar 11	
DEI @Business Meeting	Mar 18	CMO
Quarterly Bond Projects Update The Public Works engineering team will provide the City Council with an update on the bond projects for streets and utilities.	Mar 25	PW
Housing Strategic Plan	Mar 25	CED
Utilities Project Planning and Financial Strategies	Apr 8	Utilities
Waste Hauling Program Overview	Apr 8	Utilities
Public Safety/Police Department Update @Business Meeting	April 15	PD
2024-2030 City Council Strategic Plan Provide City Council with an overview of the new 2024-2030 City Council Strategic Plan. The City Team will highlight the new structure and elements and review the new results and goals.	Apr 22	CMO
Sustainability @Business meeting The Arvada Sustainability Division will provide the City Council with an overview of division projects since the inception of the program in January 2023. The workshop will highlight achievements from 2023 and provide a vision for the future of Arvada Sustainability, with a focus on upcoming city-wide sustainability and climate action planning efforts.	Apr 22	VCN
Park Maintenance Standards Arvada Parks will provide the City Council with an overview of the City's Park Maintenance Standards. The workshop will highlight community survey data, key methodologies and emerging best practices/innovations.	May 6	VCN
CDOT 101 CDOT will present "CDOT 101" to the Council. CDOT 101 is designed to provide a basic overview of CDOT, its responsibilities, and how CDOT works with local agencies.	May 13	
Waste Hauling Fees	May 13	Utilities
Quarterly Bond Projects Update The Public Works engineering team will provide the City Council with an update on the bond projects for streets and utilities.	Jun 10	PW
	July 8	
Water, Wastewater & Stormwater 2025 Rates/Fees	July 22	Utilities
	Aug 12	
Water, Wastewater & Stormwater 2025 Rates/Fees	Aug 26	Utilities
Quarterly Bond Projects Updates The Public Works engineering team will provide the City Council with an update on the bond	Sept 23	PW

projects for streets and utilities.		
Budget Workshop		
Final Water, Wastewater & Stormwater 2025 Rates/Fees	Sept 23	Utilities
Budget Workshop		
Transportation System Plan The traffic team will present the outcomes of the Transportation System plan, including future development opportunities, transportation funding and financial strategies, and a capital improvement plan.	Oct 14	PW
Updated ADA Transition Plan The draft plan will be updated in a comprehensive document that outlines strategies and actions to ensure accessibility for individuals with disabilities, addressing areas of improvement and accommodating their needs.	Oct 28	PW
	Nov 11	
	Dec 9	
PRESENTATIONS		
STUDY SESSIONS		
Transportation Systems Existing Conditions @4 The traffic team will present a summary of the existing conditions for Arvada's transportation systems. The workshop will cover a review of travel trends, evaluation of safety conditions, an assessment findings of the existing roadway, transit, and freight rail networks. The team will discuss Intelligent Transportation Systems and highlight ongoing and upcoming projects and system maintenance plans.	Feb 12	PW
BID and Chamber funding	TBD	
WORKSHOP TBD's		
Pavement Management The Pavement Management Team will provide an update on 2023 and looking ahead to 2024 pavement projects.	TBD	PW
Right of Way Acquisition	TBD	CED
Water Infrastructure for Fire Protection	TBD	Utilities
Smart Meters Update	TBD	Utilities
Capital Campaign Update and Strategy Discussion	TBD	CMO/Fin
Community Engagement	TBD	CMO
Fleet Electrification	TBD	Utilities
Pre-Sentencing/One Small Step	TBD	Courts
Meyers Pool Provide City Council an update on the VCN's SR3: By 12/2025 develop a maintenance and reinvestment plan to ensure a sustainable, resilient and beautiful community of parks, trails, open space and medians in alignment with our diverse, changing and growing community and VCN's SR3 Milestone [M3H] By 7/2024 replace Meyer's Pool with a new 50 meter natatorium.	TBD	CMO
Financial Scenarios for Street Maintenance Deficit/Options for Increasing Maintenance Funds Engage City Council in a discussion around the current street maintenance needs and how the City might fund them. This will include revenue enhancements, future allocations and expenditure realignments.	TBD	PW/Fin/ CMO
Fiber Master Plan The Fiber Master Plan which is also called Arvada Fiber Optic Network (AFON), was first presented to City Council 4/10/2017. City Councils had set a strategic goal to build a fiber network to enable high speed/real-time connectivity to city facilities and assets in order to enhance city operations. This workshop is intended to brief City Council as to the progress of the AFON build out. Updates are intended to cover conduit installation progress, fiber installation	TBD	PW

progress, current co-locate opportunities, IGA member updates, and connections to current assets (city buildings, traffic, signals, utilities, radio, etc.).		
Problem Properties	TBD	P.D.
Activation of Historical Assets	TBD	VCN
Customer Service Philosophy	TBD	CMO
Ask Arvada Update	TBD	CMO
COUNCIL JOINT MEETINGS/DINNERS:		
Denver Water Board Apex Board AURA Board Arvada Center Board—Per Coop Agreement - Annually after October 1 of each year Jefferson Parkway Meeting with Jeffco and Broomfield Council Annual Retreat		