



NOTICE OF APPARENT LOW BIDDER

Silva Construction, Inc.
154 Cisne Cir.
Brighton, CO 80601

The EXECUTIVE DIRECTOR OF PUBLIC WORKS has considered the Bids submitted on May 16, 2019, for work to be done and materials to be furnished in and for:

CONTRACT NO: 201948771, KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY

as set forth in detail in the Contract Documents for the City and County of Denver, Colorado. It appears that your Bid is fair, equitable, and to the best interest of the City and County; therefore, said Bid is hereby accepted at the bid price contained herein, subject to the approval and execution of the Contract Documents by the City in accordance with the Charter of the City and County of Denver, and to your furnishing the items specified below. The award is based on the total bid items: (201-00000 through 630: Fifty-Eight (58) total base bid items, plus the Add Alt 1 the total estimated cost thereof being: Nine Hundred and One Thousand, Two Hundred and Seventeen Dollars, and Fifty Cents (\$901,217.50).

It will be necessary for you to appear forthwith at the office of the Department of Public Works, Contract Administration, 201 W. Colfax Ave., Dept 614, Denver, Colorado 80202, to receive the said Contract Documents, execute the same and return them to the Department of Public Works, Contract Administration within the time limit set forth in the Bid Package Documents.

In accordance with the requirements set forth in the Contract Documents, you are required to furnish the following documents:

- a. Insurance Certificates: General Liability and Automotive Liability, Workman's Compensation and Employer Liability;
- b. Payment and Performance Bond along with One original Power of Attorney relative to Performance and/or Payment Bond; and,

All construction Contracts made and entered into by the City and County of Denver are subject to Affirmative Action and Equal Opportunity Rules and Regulations, as adopted by the Manager of Public Works, and each contract requiring payment by the City of one-half million dollars (\$500,000.00) or more shall first be approved by the City Council acting by ordinance and in accordance with Section 3.2.6 of the Charter of the City and County of Denver.

Prior to issuance of Notice to Proceed, all Equal Opportunity requirements must be completed. Additional information may be obtained by contacting the Director of Contract Compliance at (720-913-1700).

Denver Public Works/Office of the Executive Director
201 West Colfax Avenue, Dept 608 | Denver, CO 80202
www.denvergov.org/dpw
p. 720.865.8630 | f. 720.865.8795



NOTICE OF APPARENT LOW BIDDER

CONTRACT NO. 201948771

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The Bid Security submitted with your Bid, will be returned upon execution of the Contract and furnishing of the Performance Bond. In the event you should fail to execute the Contract and to furnish the performance Bond within the time limit specified, said Bid Security will be retained by the City and County of Denver as liquidated damages, and not as a penalty for the delay and extra work caused thereby.

Dated at Denver, Colorado this 5th day of June 2019.

CITY AND COUNTY OF DENVER

By *Eulois C. Cleckley*
Eulois Cleckley
Executive Director of Public Works

cc: (CAO), Treasury (taxauditadmin@denvergov.org), DSBO Inbox (dsbo@denvergov.org), Project Manager, Prevailing Wage(prevailingwage@denvergov.org), File.

Denver Public Works/Office of the Executive Director
201 West Colfax Avenue, Dept 608 | Denver, CO 80202
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CITY AND COUNTY OF DENVER
STATE OF COLORADO



DENVER
THE MILE HIGH CITY

DEPARTMENT OF PUBLIC WORKS

Bid Form Package

Contract Number: 201948771



**Knox Court & W. 35th Ave Neighborhood
Bikeway**

April 16, 2019

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
201948771**

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DENVER

THE MILE HIGH CITY

*This Checklist is provided solely for the assistance of the bidders, and need not be returned by Bidders with your **BID FORM PACKAGE**.*

BIDDER'S CHECKLIST

These forms comprise the Bid Form and Submittal Package. Designated forms must be completed and turned in at the time of Bid Opening. Bidders should refer to the Contract Documents, particularly the Instructions to Bidders, accompanying this package, in completing these forms.

FORM/ PAGE NO.	COMMENTS	COMPLETE
BF-4 – BF-5	a.) Legal name, address, Acknowledgment signature and attestation (if required.)	<input checked="" type="checkbox"/>
BF-6+	a.) Fill in individual bid item dollars and totals in Numerical figures only b.) Complete all blanks c.) Legal name required	<input type="checkbox"/> <input type="checkbox"/>
BF-7	a.) Write out bid total or bid totals in words and figures in the blank form space(s) provided b.) Calculate Textura® Construction Payment Management System Fee from chart on pg. BF-3 and write fee in the space provided	<input checked="" type="checkbox"/>
BF-8	a.) List all subcontractors who are performing work on this project	<input checked="" type="checkbox"/>
BF-9 – BF-10	a.) Fully complete List of Proposed Minority /Woman Business Enterprise Bidders, Subcontractors, Suppliers, Manufacturers, or Brokers – check appropriate boxes.	<input checked="" type="checkbox"/>
BF-11	a.) Complete all blanks b.) If Addenda have been issued, complete bottom section.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
BF-12	a.) Complete appropriate sections - signature(s) required. b.) If corporation, then corporate seal required.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
BF-13	a.) Fully complete Commitment to Participation	<input checked="" type="checkbox"/>
BF-16	a.) If applicable, fully complete Joint Venture Affidavit (Submit 10 days prior to Bid Opening date)	<input checked="" type="checkbox"/>
BF-17 – BF-19	a.) If applicable, fully complete Joint Venture Eligibility Form (Submit 10 days prior to Bid Opening date)	<input checked="" type="checkbox"/>
BF-20	a.) Fill in all Bid Bond blanks b.) Signatures required c.) Corporate Seal if required d.) Dated e.) Attach Surety Agents Power of Attorney or Certified or cashier's check made out to the Manager of Revenue referencing Bidder's Company and Contract Number.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
BF-21- BF-24	a.) Each bidder, as a condition of responsiveness to this solicitation, shall <u>complete and return</u> the "Diversity and Inclusiveness in City Solicitations Information Request Form" with their Bid.	<input checked="" type="checkbox"/>

Textura® Construction Payment Management System (“Textura”)

Bidder recognizes and agrees that it shall be required to use the Textura® Construction Payment Management System (“Textura”) for this Project to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura. All fees associated with Textura are to be paid by the bidder for billings for work performed. Bidders are required, when preparing a bid, to enter the price of Textura on the line provided for the service. The fee is all inclusive of all subcontractor, project and subscription fees associated with Textura. The bidder will calculate the fee based on their total bid (not including any alternates, if applicable) and the table below, and then include it on the line item provided in the bid form labeled “Textura® Construction Payment Management System Fee”. This expense becomes part of the contract and billable to the City. All costs including, but not limited to, costs associated with training, entering data, and/or utilizing Textura other than the Textura Construction Payment Management System Fee are overhead and shall not be reimbursed by the City. Bidder will be responsible for any tax on the Textura fee. As with other taxes, the City will not reimburse bidder for this cost and therefore this cost should be included in bidder’s bid. Textura will invoice the awarded bidder directly.

Project Value	Project Fee (GC + Sub Usage)
\$100,000 – 249,999.99	\$780
\$250,000 - \$499,999.99	\$1,625
\$500,000 - \$999,999.99	\$3,250
\$1,000,000 - \$2,999,999.99	\$5,850
\$3,000,000 - \$4,999,999.99	\$9,100
\$5,000,000 - \$9,999,999.99	\$12,220
\$10,000,000 - \$19,999,999.99	\$20,345
\$20,000,000 - \$49,999,999.99	\$32,500
\$50,000,000 - \$99,999,999.99	\$48,750
\$100,000,000 - \$199,999,999.99	\$69,095
\$200,000,000 - \$299,999,999.99	\$85,345
\$300,000,000 - \$399,999,999.99	\$109,720
\$400,000,000 - \$499,999,999.99	\$142,220
\$500,000,000 - \$999,999,999.99	\$162,500
\$1,000,000,000 - \$1,999,999,999.99	\$345,345
\$2,000,000,000 - \$4,999,999,999.99	\$650,000
\$5,000,000,000 - \$9,999,999,999.99	\$1,015,625
\$10,000,000,000 or greater	\$1,503,125

For more information:

<http://www.denvergov.org/content/denvergov/en/contract-administration/bidding-process.html>

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

BID FORM AND SUBMITTAL PACKAGE ACKNOWLEDGMENT

CONTRACT NO. 201948771

KNOX COURT & W. 35th AVE NEIGHBORHOOD BIKEWAY

BIDDER: Silva Construction Inc
(Legal Name per Colorado Secretary of State)

ADDRESS: 154 Cisne Cir
Brighton, CO 80601

CONTACT PERSON FOR ALL MATTERS RELATING TO THIS DOCUMENT:

NAME: Jose Silva TITLE: President
EMAIL: Silva Construction 154@gmail.com PHONE NUMBER: 303-710-0573

The undersigned bidder states that the undersigned bidder has received and had an opportunity to fully and thoroughly examine a complete set of the Contract Documents for Contract No. 201948771, KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY, made available to the undersigned bidder pursuant to Notice of Invitation for Bids dated April 16, 2019.

The undersigned bidder acknowledges that a complete and final set of the Contract Documents for the referenced Project, the components of which are identified below, are bound and maintained as the record set of Contract Documents by the Contract Administration Division of the Department of Public Works and that this Record Set is available for examination by the undersigned bidder.

The undersigned bidder, having thoroughly examined each of the components identified below and contained in Contract Documents, HEREBY SUBMITS THIS BID FORM AND SUBMITTAL PACKAGE, fully understanding that the Contract Documents, as defined in Paragraph 1 of the contract, including this executed Bid Form and Submittal Package, constitute all of the terms, conditions and requirements upon which this submission is based and further understanding that, by submission of this Bid Form and Submittal Package, the City shall rely on the representations and commitments of the undersigned bidder contained herein.

The following completed documents comprising this Bid Form and Submittal Package will be included with and, by this reference, are expressly incorporated into the Contract Documents specified at Paragraph 1 of the Contract:

- Bid Form and Submittal Package Acknowledgment Form
- Bid Form
- List of Proposed Minority/Woman Owned Business Enterprise(s)
- Commitment to Minority/Woman Owned Business Enterprise Participation
- Minority/Woman Owned Business Enterprise(s) of Intent
- Joint Venture Affidavit (if applicable)
- Joint Venture Eligibility Form (if applicable)
- Bid Bond
- Certificate of Insurance

The following designated documents constitute that portion of the Contract Documents made available by the Notice of Invitation for Bids, but not included in the Bid Form and Submittal Package:

- Notice of Invitation for Bids
- Instructions to Bidders
- Addenda (as applicable)
- Equal Employment Opportunity Provisions (Appendix A and Appendix F)
- Contract Form
- General Contract Conditions
- Special Contract Conditions
- Performance and Payment Bond
- Notice to Apparent Low Bidder
- Notice to Proceed
- Contractor's Certification of Payment Form
- Final/Partial Lien Release Form
- Final Receipt
- Change Orders (as applicable)
- Federal Requirements (as applicable)
- Prevailing Wage Rate Schedule(s)
- Technical Specifications
- Contract Drawings
- Accepted Shop Drawings

The undersigned bidder expressly assumes responsibility for the complete contents of these designated documents as bound together with the Bid Form and Submittal Package submitted herewith and designated the Contract Documents.

IN WITNESS WHEREOF, the undersigned bidder has signed personally or by duly authorized officer or agent and duly attested.

BIDDER:

Name: Jose Silva
By: Jose Silva
Title: President

ATTEST:

By:  _____

[SEAL]

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

BID FORM

**CONTRACT NO. 201948771
KNOX COURT & W. 35th AVE NEIGHBORHOOD BIKEWAY**

BIDDER Silva Construction Inc
(Legal Name per Colorado Secretary of State)

TO: The Manager of Public Works
City and County of Denver
c/o Contract Administration
201 West Colfax, Dept. 614
Denver, Colorado 80202

The Undersigned Bidder, having examined the plans, technical specifications, and remainder of the proposed Contract Documents as designated and enumerated in the General and Special Contract Conditions and any and all addenda thereto; having investigated the location of and conditions affecting the proposed Work; and being acquainted with and fully understanding the extent and character of the Work covered by this bid, and all factors and conditions affecting or which may be affected by Work, HEREBY SUBMITS THIS BID, pursuant to an advertisement of a Notice of Invitation for Bids as published on April 16, 2019, to furnish all required materials, tools, appliances, equipment and plant; to perform all necessary labor and to undertake and complete: **CONTRACT NO. 201948771, KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY**, in Denver, Colorado, in full accordance with and conformity to the Plans, Technical Specifications, and Contract Documents hereto attached or by reference made a part hereof, at and for the following price(s) set forth on this Bid Form.

The following documents, which taken as a whole constitute the Contract Documents for this Project, and which are incorporated herein, by reference, were made available to the Bidder as provided in the Advertisement of Notice of Invitation for Bids, were received by the bidder, and form the basis for this bid:

Advertisement of Notice of Invitation for Bids
Instructions to Bidders
Commitment to M/WBE Participation
Article III, Divisions 1 and 3 of Chapter 28, D.R.M.C.
Bid Bond
Addenda (as applicable)
Equal Employment Opportunity Provisions (Appendix A and Appendix F)
Bid Form
Contract Form
General Contract Conditions
Special Contract Conditions
Performance and Payment Bond
Notice to Apparent Low Bidder
Notice to Proceed
Contractor's Certification of Payment Form
Final/Partial Lien Release Form
Final Receipt
Change Orders (as applicable)
Federal Requirements (as applicable)
Prevailing Wage Rate Schedule(s)
Technical Specifications
Contract Drawing
Accepted Shop Drawings
Certificate of Insurance

Item No.	Description and Price	Estimated Quantity	Estimated Cost
201-00000	CLEARING AND GRUBBING at the unit price of \$ <u>13,000⁰⁰</u> per Lump Sum.	1 LS	\$ <u>13,000⁰⁰</u>
202-00012	REMOVAL OF TREE STUMP at the unit price of \$ <u>1,000⁰⁰</u> per Each.	1 EA	\$ <u>1,000⁰⁰</u>
202-00019	REMOVAL OF INLET at the unit price of \$ <u>1,000⁰⁰</u> per Each.	6 EA	\$ <u>6,000⁰⁰</u>
202-00035	REMOVAL OF PIPE at the unit price of \$ <u>40⁰⁰</u> per Linear Foot.	23 LF	\$ <u>920⁰⁰</u>
202-00200	REMOVAL OF SIDEWALK at the unit price of \$ <u>15⁰⁰</u> per Square Yard.	590 SY	\$ <u>8,850⁰⁰</u>
202-00201	REMOVAL OF CURB at the unit price of \$ <u>10⁰⁰</u> per Linear Foot.	95 LF	\$ <u>950⁰⁰</u>
202-00203	REMOVAL OF CURB AND GUTTER at the unit price of \$ <u>8⁰⁰</u> per Linear Foot.	1,380 LF	\$ <u>11,040⁰⁰</u>
202-00206	REMOVAL OF CONCRETE CURB RAMP at the unit price of \$ <u>25⁰⁰</u> per Square Yard.	53 SY	\$ <u>1,325⁰⁰</u>
202-00210	REMOVAL OF CONCRETE PAVEMENT at the unit price of \$ <u>30⁰⁰</u> per Square Yard.	3 SY	\$ <u>90⁰⁰</u>
202-00220	REMOVAL OF ASPHALT MAT at the unit price of \$ <u>11⁰⁰</u> per Square Yard.	1,739 SY	\$ <u>19,129⁰⁰</u>
202-00810	REMOVAL OF GROUND SIGN at the unit price of \$ <u>250⁰⁰</u> per Each.	12 EA	\$ <u>3,000⁰⁰</u>

Item No.	Description and Price	Estimated Quantity	Estimated Cost
202-04001	PLUG CULVERT at the unit price of \$ <u>800⁰⁰</u> per Each.	1 EA	\$ <u>800⁰⁰</u>
203-01598	POTHOLING at the unit price of \$ <u>450⁰⁰</u> per Each.	52 EA	\$ <u>23,400⁰⁰</u>
208	EROSION CONTROL at the unit price of \$ <u>13,000⁰⁰</u> per Lump Sum.	1 LS	\$ <u>13,000⁰⁰</u>
210-0006X	RESET MONUMENT at the unit price of \$ <u>550⁰⁰</u> per Each.	3 EA	\$ <u>1,650⁰⁰</u>
210-00750	RESET LIGHT STANDARD at the unit price of \$ <u>1,000⁰⁰</u> per Each.	2 EA	\$ <u>2,000⁰⁰</u>
210-00810	RESET GROUND SIGN at the unit price of \$ <u>320⁰⁰</u> per Each.	7 EA	\$ <u>2,240⁰⁰</u>
210-00815	RESET SIGN PANEL at the unit price of \$ <u>500⁰⁰</u> per Each.	1 EA	\$ <u>500⁰⁰</u>
210-04010	ADJUST MANHOLE at the unit price of \$ <u>500⁰⁰</u> per Each.	6 EA	\$ <u>3,000⁰⁰</u>
210-04015	MODIFY MANHOLE at the unit price of \$ <u>4,000⁰⁰</u> per Each.	1 EA	\$ <u>4,000⁰⁰</u>
210-04020	MODIFY INLET (SPECIAL) at the unit price of \$ <u>4,800⁰⁰</u> per Each.	8 EA	\$ <u>38,400⁰⁰</u>
210-04050	ADJUST VALVE BOX at the unit price of \$ <u>300⁰⁰</u> per Each.	9 EA	\$ <u>2,700⁰⁰</u>
210-04060	ADJUST WATER METER at the unit price of \$ <u>1,200⁰⁰</u> per Each.	5 EA	\$ <u>6,000⁰⁰</u>

Item No.	Description and Price	Estimated Quantity	Estimated Cost
212-00100	TREE RETENTION AND PROTECTION at the unit price of <u>\$ 5,000⁰⁰</u> per Each.	1 EA	\$ <u>5,000⁰⁰</u>
213-00067	ROCK MULCH (WEED FREE) at the unit price of <u>\$ 6⁰⁰</u> per Square Foot.	697 SF	\$ <u>4,182⁰⁰</u>
403-00720	HOT MIX ASPHALT (PATCHING) (ASPHALT) at the unit price of <u>\$ 120⁰⁰</u> per Ton.	207 TON	\$ <u>24,840⁰⁰</u>
403-0200X	HOT MIX ASPHALT at the unit price of <u>\$ 130⁰⁰</u> per Ton.	224 TON	\$ <u>29,120⁰⁰</u>
412-0019X	CONCRETE PAVEMENT at the unit price of <u>\$ 200⁰⁰</u> per Square Yard.	1 SY	\$ <u>200⁰⁰</u>
603-01125	12 INCH REINFORCED CONCRETE PIPE (CIP) at the unit price of <u>\$ 160⁰⁰</u> per Linear Foot.	45 LF	\$ <u>7,200⁰⁰</u>
603-01155	15 INCH REINFORCED CONCRETE PIPE (CIP) at the unit price of <u>\$ 250⁰⁰</u> per Linear Foot.	49 LF	\$ <u>12,250⁰⁰</u>
603-01185	18 INCH REINFORCED CONCRETE PIPE (CIP) at the unit price of <u>\$ 270⁰⁰</u> per Linear Foot.	9 LF	\$ <u>2,430⁰⁰</u>
604	CCD SINGLE NO. 16 INLET VALLEY (S-616V) at the unit price of <u>\$ 6,500⁰⁰</u> per Each.	8 EA	\$ <u>52,000⁰⁰</u>
604	CCD SINGLE NO. 14 INLET (S-620V) at the unit price of <u>\$ 7,400⁰⁰</u> per Each.	5 EA	\$ <u>37,000⁰⁰</u>
604	CCD SINGLE NO. 14 INLET L6 (SPECIAL) at the unit price of <u>\$ 10,600⁰⁰</u> per Each.	1 EA	\$ <u>10,600⁰⁰</u>

Item No.	Description and Price	Estimated Quantity	Estimated Cost
604	CCD SINGLE NO. 16 INLET (S-616.1) at the unit price of \$ <u>7,000⁰⁰</u> per Each.	1 EA	\$ <u>7,000⁰⁰</u>
607-11525	FENCE (PLASTIC) at the unit price of \$ <u>8⁰⁰</u> per Linear Foot.	160 LF	\$ <u>1,280⁰⁰</u>
608-00000	CONCRETE SIDEWALK (4 INCH) at the unit price of \$ <u>100⁰⁰</u> per Square Yard.	39 SY	\$ <u>3,900⁰⁰</u>
608-00006	CONCRETE SIDEWALK (6 INCH) at the unit price of \$ <u>85⁰⁰</u> per Square Yard.	1,122 SY	\$ <u>95,370⁰⁰</u>
608-00010	CONCRETE CURB RAMP at the unit price of \$ <u>110⁰⁰</u> per Square Yard.	288 SY	\$ <u>31,680⁰⁰</u>
609-20010	6" CURB HEAD at the unit price of \$ <u>50⁰⁰</u> per Linear Foot.	23 LF	\$ <u>1,150⁰⁰</u>
609-21010	6" CURB AND GUTTER - 1' SPILL PAN at the unit price of \$ <u>40⁰⁰</u> per Linear Foot.	282 LF	\$ <u>11,280⁰⁰</u>
609-21020	6" CURB AND GUTTER - 2' CATCH PAN at the unit price of \$ <u>35⁰⁰</u> per Linear Foot.	1,617 LF	\$ <u>56,595⁰⁰</u>
610-00024	MEDIAN COVER MATERIAL (4 INCH PATTERNED CONCRETE) at the unit price of \$ <u>15⁰⁰</u> per Square Foot.	974 SF	\$ <u>14,610⁰⁰</u>
612-00039	DELINEATOR (FLEXIBLE) (SURFACE MOUNTED) at the unit price of \$ <u>225⁰⁰</u> per Each.	36 EA	\$ <u>8,100⁰⁰</u>

Item No.	Description and Price	Estimated Quantity	Estimated Cost
614-00011	SIGN PANEL (CLASS D) at the unit price of \$ <u>40⁰⁰</u> per Square Foot.	343 SF	\$ <u>13,720⁰⁰</u>
614-00037	SIGN PANEL (SPECIAL) at the unit price of \$ <u>425⁰⁰</u> per Each.	106 EA	\$ <u>45,050⁰⁰</u>
614-00216	STEEL SIGN POST (2X2 INCH TUBING) (TELSPAR) at the unit price of \$ <u>18⁰⁰</u> per Linear Foot.	1,119 LF	\$ <u>20,142⁰⁰</u>
620-00020	SANITARY FACILITY at the unit price of \$ <u>1,000⁰⁰</u> per Each.	2 EA	\$ <u>2,000⁰⁰</u>
625-00000	CONSTRUCTION SURVEYING at the unit price of \$ <u>15,000⁰⁰</u> per Lump Sum.	1 LS	\$ <u>15,000⁰⁰</u>
626-00000	MOBILIZATION at the unit price of \$ <u>70,000⁰⁰</u> per Lump Sum.	1 LS	\$ <u>70,000⁰⁰</u>
627-00005	EPOXY PAVEMENT MARKING at the unit price of \$ <u>300⁰⁰</u> per Gallon.	34 GAL	\$ <u>10,200⁰⁰</u>
627-01010	PREFORMED PLASTIC PAVEMENT MARKING (INLAID) at the unit price of \$ <u>15⁰⁰</u> per Linear Foot.	75 LF	\$ <u>1,125⁰⁰</u>
627-30405	PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL) at the unit price of \$ <u>30⁰⁰</u> per Square Foot.	258 SF	\$ <u>7,740⁰⁰</u>
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK-STOPLINE) at the unit price of \$ <u>13.⁵⁰</u> per Square Foot.	2,027 SF	\$ <u>27,364⁵⁰</u>

Item No.	Description and Price	Estimated Quantity	Estimated Cost
630	CONSTRUCTION TRAFFIC CONTROL at the unit price of <u>\$ 50,000</u> per Lump Sum.	1 LS	\$ <u>50,000⁰⁰</u>
AW	EROSION CONTROL at the unit price of <u>\$2,500.00</u> per Force Account.	1 FA	\$ <u>2,500.00</u>
AW	ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT at the unit price of <u>\$2,000.00</u> per Force Account.	1 FA	\$ <u>2,000.00</u>
AW	LANDSCAPING at the unit price of <u>\$5,000.00</u> per Force Account.	1 FA	\$ <u>5,000.00</u>

Item No.	Description and Price	Estimated Quantity	Estimated Cost
202-00019	REMOVAL OF INLET at the unit price of \$ <u>1,200⁰⁰</u> per Each.	1 EA	\$ <u>1,200⁰⁰</u>
202-00200	REMOVAL OF SIDEWALK at the unit price of \$ <u>30⁰⁰</u> per Square Yard.	28 SY	\$ <u>840⁰⁰</u>
202-00203	REMOVAL OF CURB AND GUTTER at the unit price of \$ <u>15⁰⁰</u> per Linear Foot.	90 LF	\$ <u>1,350⁰⁰</u>
202-00206	REMOVAL OF CONCRETE CURB RAMP at the unit price of \$ <u>25⁰⁰</u> per Square Yard.	4 SY	\$ <u>100⁰⁰</u>
202-00220	REMOVAL OF ASPHALT MAT at the unit price of \$ <u>30⁰⁰</u> per Square Yard.	58 SY	\$ <u>1,740⁰⁰</u>
202-00815	REMOVAL OF SIGN (SPECIAL) at the unit price of \$ <u>500⁰⁰</u> per Each.	1 EA	\$ <u>500⁰⁰</u>
210-0006X	RESET MONUMENT at the unit price of \$ <u>1,000⁰⁰</u> per Each.	1 EA	\$ <u>1,000⁰⁰</u>
403-00720	HOT MIX ASPHALT (PATCHING) (ASPHALT) at the unit price of \$ <u>180⁰⁰</u> per Ton.	12 TON	\$ <u>2,160⁰⁰</u>
603-01185	18 INCH REINFORCED CONCRETE PIPE (CIP) at the unit price of \$ <u>300⁰⁰</u> per Linear Foot.	22 LF	\$ <u>6,600⁰⁰</u>
604	CCD SINGLE NO. 14 INLET L9 (5 FT) at the unit price of \$ <u>9,000⁰⁰</u> per Each.	1 EA	\$ <u>9,000⁰⁰</u>
604	CCD TYPE B MANHOLE (5 FT) at the unit price of \$ <u>10,000⁰⁰</u> per Each.	1 EA	\$ <u>10,000⁰⁰</u>

Item No.	Description and Price	Estimated Quantity	Estimated Cost
608-00006	CONCRETE SIDEWALK (6 INCH) at the unit price of \$ <u>130⁰⁰</u> per Square Yard.	51 SY	\$ <u>6,630⁰⁰</u>
608-00010	CONCRETE CURB RAMP at the unit price of \$ <u>130⁰⁰</u> per Square Yard.	15 SY	\$ <u>1,950⁰⁰</u>
609-21020	6" CURB AND GUTTER - 2' CATCH PAN at the unit price of \$ <u>45⁰⁰</u> per Linear Foot.	95 LF	\$ <u>4,275⁰⁰</u>

Bid Items Total Amount (201-00000 through 630 (Fifty-Eight [58]) total bid items which includes (Three [3]) Allowances)

\$ 850622⁵⁰

Textura ® Fee from table on Page BF-3 (based on Bid Items Total Amount)

\$ 3250

Bid Items Total Amount plus Textura® Fee equals Total Bid Amount

\$ 853872⁵⁰

Total Bid Amount:

Eight Hundred Fifty Three Thousand Eight Hundred Seventy Two Dollars and fifty cents

Dollars (\$ 853872⁵⁰)

Alternate Bid Items Total Amount (14 Bid Items (202-00019 through 609-21020))

\$ 47345⁰⁰

If the Manager mails a written Notice of Apparent Low Bidder, addressed to the Bidder's business address stated on this Bid Form, the Undersigned Bidder shall, in accordance with the Contract Documents, be ready to, and shall, within five (5) days after the date of the Notice: (i) execute the attached form of Contract in conformity with this bid; (ii) furnish the required proofs of insurance; and (iii) furnish the required bond or bonds in the sum of the full amount of this bid, executed by a surety company acceptable to the Manager.

The Developers Surety & Integrity a corporation of the State of CA, is hereby offered as Surety on said bond. If such surety is not approved by the Manager, another and satisfactory surety company shall be furnished.

Enclosed with this bid is a bid guarantee, as defined in the attached Instructions to Bidders, in the amount of _____. The Undersigned Bidder agrees that the entire amount of this bid guarantee is to be paid to and become the property of the City as liquidated damages, and not as a penalty, if: (i) the bid is considered to be the best by the City; (ii) the City notifies the Undersigned Bidder that it is the Apparent Low Bidder; and (iii) the Undersigned Bidder fails to execute the Contract in the form prescribed or to furnish the required bond and proofs of insurance, within five (5) days after the date of such notification.

The following persons, firms or corporations are interested with the Undersigned Bidder in this bid: N/A

Name: _____ Name: _____

Address: _____ Address: _____

If there are no such persons, firms, or corporations, please so state in the following space: N/A

The Undersigned Bidder proposes to subcontract the following Work in accordance with General Contract Conditions, Title 5, SUBCONTRACTS, and represents that, to the greatest degree practical, all subcontractors known at the time of bid submittal have been identified.

Item of Work	Percent (%) of Total Work	Proposed Subcontractor and Address
Striping & Signage Survey	10% 1%	American Striping PWSI Surveying

(Copy this page if additional room is required.)



DENVER
OFFICE OF ECONOMIC
DEVELOPMENT

**List of Proposed
MWBE
Bidders, Subcontractors,
Suppliers (Manufacturers) or
Brokers**

Office of Economic Development
Division of Small Business Opportunity
Compliance Unit
201 W. Colfax Ave. Dept. 907
Denver, CO 80202
Phone: 720-913-1999
DSBO@denvergov.org

City & County of Denver Contract No.: 201948771

The undersigned Bidder proposes to utilize all listed firms. The following MWBE(s) firms listed are CURRENTLY certified by the City and County of Denver. Only the level of MWBE participation listed at the bid opening will count toward satisfaction of the project goal. Only bona fide commissions may be counted for Brokers. MWBE prime bidders must detail their bid information below. Please copy and attach this page to list additional MWBE.

Prime Bidder

Business Name:		
Address:	Contact Person:	
Type of Service:	Dollar Amount \$:	Percent of Project:

Certified MWBE Prime Bidder

Business Name: <u>Silva Construction Inc</u>		
Address: <u>154 Ciste Cir #0601</u>	Contact Person: <u>Jose Silva</u>	
Type of Service: <u>Prime Contractor</u>	Dollar Amount \$: <u>759946.52</u>	Percent of Project: <u>891</u>

Subcontractors, Suppliers Manufacturers or Brokers (check one box)

<input checked="" type="checkbox"/> Subcontractor (v)	<input type="checkbox"/> Supplier (v)	<input type="checkbox"/> Manufacturer (v)	<input type="checkbox"/> Broker (v)
---	---------------------------------------	---	-------------------------------------

Business Name: <u>American Striping</u>		
Address: <u>3075 S. Tejon St Bldg</u>	Type of Service: <u>Signage + Striping</u>	
Contact Person: <u>Tony Ciccia</u>	Dollar Amount \$: <u>85385.00</u>	Percent of Project: <u>107</u>

<input checked="" type="checkbox"/> Subcontractor (v)	<input type="checkbox"/> Supplier (v)	<input type="checkbox"/> Manufacturer (v)	<input type="checkbox"/> Broker (v)
---	---------------------------------------	---	-------------------------------------

Business Name: <u>PWSI Survey</u>		
Address: <u>7550 W Yale Ave #0227</u>	Type of Service: <u>Survey</u>	
Contact Person: <u>Tim Vicera</u>	Dollar Amount \$: <u>8538.73</u>	Percent of Project: <u>71</u>

<input type="checkbox"/> Subcontractor (v)	<input type="checkbox"/> Supplier (v)	<input type="checkbox"/> Manufacturer (v)	<input type="checkbox"/> Broker (v)
--	---------------------------------------	---	-------------------------------------

Business Name:		
Address:	Type of Service:	
Contact Person:	Dollar Amount \$:	Percent of Project:

Rev 01/16/16

Subcontractors, Suppliers Manufacturers or Brokers (check one box)				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				
Business Name:				
Address:			Type of Service:	
Contact Person:			Dollar Amount: \$:	Percent of Project:
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				
Business Name:				
Address:			Type of Service:	
Contact Person:			Dollar Amount: \$:	Percent of Project:
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				
Business Name:				
Address:			Type of Service:	
Contact Person:			Dollar Amount: \$:	Percent of Project:
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				
Business Name:				
Address:			Type of Service:	
Contact Person:			Dollar Amount: \$:	Percent of Project:
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				
Business Name:				
Address:			Type of Service:	
Contact Person:			Dollar Amount: \$:	Percent of Project:
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				
Business Name:				
Address:			Type of Service:	
Contact Person:			Dollar Amount: \$:	Percent of Project:
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				
Business Name:				
Address:			Type of Service:	
Contact Person:			Dollar Amount: \$:	Percent of Project:
<input type="checkbox"/>	<input checked="" type="checkbox"/> Subcontractor (✓)	<input type="checkbox"/>	<input checked="" type="checkbox"/> Supplier (✓)	<input type="checkbox"/>
Manufacturer (✓)				
Broker (✓)				

Rev 031816JE

The undersigned Bidder hereby certifies that the aforementioned subcontractors and suppliers have full knowledge that their names have been offered as subcontractors and suppliers for the work, and the Bidder further certifies that the dollar amount of work to be performed by the aforementioned M/WBE(s) was furnished to the Bidder prior to the bid opening. The undersigned Bidder agrees that after the bid opening, it shall submit to the City an executed and completed W/MBE "Letter of Intent" in three working days (3) on each of its M/WBE subcontractors. The "Letter of Intent" form is contained in the Contract Documents.

The undersigned Bidder acknowledges the right of the City to reject any or all bids submitted, to waive informalities in bids and to re-advertise this Project for bids.

The undersigned certifies that it has carefully checked all works and figures and all statements made in these Bid Forms.

This bid is submitted upon the declaration that neither, I (we), nor, to the best of my (our) knowledge, none of the members of my (our) firm or company have either directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

Business Address of Bidder: 154 Ciare Cir

City, State, Zip Code: Brighton, CO 80601

Telephone Number of Bidder: 303-740-0543 Fax No. 888-689-9850

Social Security or Federal Employer ID Number of Bidder: 26-3990896

Name and location of the last work of this kind herein contemplated upon which the Bidder was engaged: City and County of Denver

For information relative thereto, please refer to:

Name: Derek Miles

Title: PM

Address: Denver Waste water building

The undersigned acknowledges receipt, understanding, and full consideration of the following addenda to the Contract Documents:

Addenda Number 1 Date 5/7/19

Addenda Number _____ Date _____

Addenda Number _____ Date _____

Dated this 16th day of May, 20 19



DENVER
OFFICE OF ECONOMIC
DEVELOPMENT

Office of Economic Development
Division of Small Business Opportunity
Compliance Unit
201 W. Colfax Ave. Dept. 907
Denver, CO 80202
Phone: 720-913-1999
DSBO@denvergov.org

COMMITMENT TO MWBE PARTICIPATION

The undersigned has satisfied the MWBE participant requirements in the following manner (Please check the appropriate box):

The Bidder/Proposer is committed to the minimum _____% MWBE utilization on the project, and will submit Letters of Intent (LOI) for each subcontractor/subconsultant listed in the Bid Forms as follows:
Hard Bids: Three (3) business days after the bid opening.
Request for Proposals/Qualifications: With the proposal when due.
Compliance Plans: With each task/work order

The Bidder/Proposer is unable to meet the project goal of _____% MWBE, but is committed to a minimum of _____% MWBE utilization on the project. The Bidder/Proposer understands that they must submit a detailed statement of their good faith effort under sealed bid procedures, as a matter of responsiveness, or with initial proposals, under contract negotiation procedures; or no later than three (3) days after bid opening as a matter of responsibility as in accordance with DRMC Section 28-62 and 28-67 of Ordinance 85 to the Division of Small Business Opportunity.

The Bidder/Proposer is a certified MWBE in good standing with the City and is committed to self-perform a minimum of 89% of the work on the contract.

Bidder/Proposer (Name of Firm): Jose Silva Construction Inc

Firm's Representative (Please print): Jose Silva

Signature (Firm's Representative):

Title: Treasurer

Address: 154 Cline Cir

City: Brighton

State: CO

Zip: 80601

Phone: 303-710-0543

Fax: 888-689-9850

Email: Silva Construction 154@comcast.com

A copy of the MWBE Certification letter must be attached to each Letter of Intent (LOI).



DENVER
OFFICE OF ECONOMIC
DEVELOPMENT

Office of Economic Development
Division of Small Business Opportunity
Compliance Unit
201 West Colfax Ave., Dept. 907
Denver, CO 80202
Phone: 720-913-1999

LETTER OF INTENT (LOI)
INSTRUCTIONS FOR COMPLETION & SUBMISSION:

- All lines must be completed or marked N/A for Not Applicable
- Certification Letter must be submitted with LOI
- Submit the attached completed checklist with this letter
- Email to glbo@denvergov.org
- FOR RFPs and RFQs: LOIs should be included with Submittal

Contract No.: 201948771		Project Name: Knox Ct + 35th Ave Bikeway	
A. The Following Section is To Be Completed by the Bidder/Consultant This Letter of Intent Must be Signed by the Bidder/Consultant and M/WBE, SBE, EBE or DBE			
Name of Bidder/Consultant: Silva Construction Inc		Self-Performing: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Phone: 320 550 8175
Contact Person: Jose Silva	Email: silvaconstruction15@gmail.com		Fax: 888 689 9850
Address: 154 Cissa Cir	City: Brighton	State: CO	Zip: 80601
B. The Following Section is To Be Completed by the M/WBE, SBE, EBE or DBE, at any Tier This Letter of Intent Must be Signed by the M/WBE, SBE, EBE or DBE and Bidder/Consultant			
Name of Certified Firm: Silva Construction Inc		Phone: 320 550 8175	
Contact Person: Jose Silva	Email: silvaconstruction15@gmail.com		Fax: 888 689 9850
Address: 154 Cissa Cir	City: Brighton	State: CO	Zip: 80601
Please check the designation which applies to the certified firm.	M/WBE <input checked="" type="checkbox"/>	SBE <input checked="" type="checkbox"/>	EBE <input checked="" type="checkbox"/> DBE <input checked="" type="checkbox"/>
Indirect Utilization: If this M/WBE, SBE, EBE or DBE is not a direct first tier subcontractor/subconsultant, supplier or broker to the Bidder/ Consultant, please indicate the name of the subcontractor/subconsultant, supplier or broker which is utilizing the participation of this firm:			
A Copy of the M/WBE, SBE, EBE or DBE Letter of Certification must be Attached			
Identify the scope of the work to be performed or supply item that will be provided by the M/WBE/SBE/DBE. <u>On unit price bids only, identify which bid line items the M/WBE/SBE/EBE/DBEs scope of work or supply corresponds to.</u>			
All except striping and signage (Prime M/WBE)			
Subcontractor/Subconsultant <input checked="" type="checkbox"/>		Supplier <input checked="" type="checkbox"/> Broker <input checked="" type="checkbox"/>	
Bidder intends to utilize the aforementioned M/WBE, SBE, EBE or DBE for the Work/Supply described above. The cost of the work and percentage of the total subcontractor M/WBE, SBE, EBE or DBE bid amount is:			
\$ 759946.52		89% %	
Consultant intends to utilize the aforementioned M/WBE, SBE, EBE or DBE for the Work/Supply described above. The percentage of the work of the total sub consultant M/WBE, SBE, EBE or DBE will perform is:			
		89% %	
If the fee amount of the work to be performed is requested, the fee amount, is:			
\$ 759946.52			
Bidder/Consultant's Signature: Jose Silva		Date: 5/16/19	
Title: President			
M/WBE, SBE, EBE or DBE or Self-Performing Firm's Signature: Jose Silva		Date: 5/16/19	
Title: President			
If the above named Bidder/Consultant is not determined to be the successful Bidder/Consultant, this Letter of Intent shall be null and void.			

Letter of Intent (LOI) Checklist

*All lines must be completed or marked N/A for Not Applicable
Submit the attached completed checklist with this letter.*

Completed ✓	
<input type="checkbox"/>	Project Number & Project Name
<input type="checkbox"/>	Section A: Name of Bidder/Consultant, Contact Person, Address, City, State, Zip, Phone, Email
<input type="checkbox"/>	Section B: Name of Certified Firm, Contact Person, Address, City, State, Zip, Phone, Email
<input type="checkbox"/>	Designation checked for MBE/WBE, SBE, EBE or DBE
<input type="checkbox"/>	Indirect Utilization: Name of subcontractor/subconsultant, supplier or broker is indicated if using the participation of a 2 nd tier subcontractor/subconsultant, supplier or broker.
<input type="checkbox"/>	Scope of work performed or item supplied by M/WBE, SBE, EBE or DBE
<input type="checkbox"/>	Line items performed, if line-item bid.
<input type="checkbox"/>	Copy of M/WBE, SBE, EBE or DBE Letter of Certification Attached
<input type="checkbox"/>	Designation checked for Subcontractor/Subconsultant, Supplier or Broker
	If project is a hard bid...
<input type="checkbox"/>	Bidder has indicated dollar amount for value of work going to Subcontractor/ Subconsultant, Supplier or Broker
<input type="checkbox"/>	Bidder has indicated percentage for value of work going to Subcontractor/ Subconsultant, Supplier or Broker
	If project is an RFP/RFQ...
<input type="checkbox"/>	Consultant has indicated percentage for value of work going to Subcontractor/ Subconsultant, Supplier or Broker Name & contact name for MWBE.
<input type="checkbox"/>	Fee amount if fee amount of work to be performed is requested.
<input type="checkbox"/>	Bidder/Consultant's Signature, Title & Date
<input type="checkbox"/>	M/WBE, SBE, EBE or DBE Firm's Signature, Title and Date

Select One ✓	SUBMITTED VIA... For Construction Hard Bids ONLY, Bidders are strongly urged to deliver the LOI via one of the methods below. (The preferred method is to scan/email completed forms to email address below. Delivery to any other point cannot be guaranteed timely delivery.)
<input type="checkbox"/>	Email to DSBO@denvergov.org

The complete and accurate information that is required for the Letter of Intent is based on the following sections of the Ordinance 85: Section 28-63 and Section 28-68. Failure to complete this information on the Letter of Intent (LOI) may automatically deem a bid or proposal non-responsive.



DENVER
OFFICE OF ECONOMIC
DEVELOPMENT

Joint Venture Affidavit

N/A

Office of Economic Development
Division of Small Business Opportunity
Compliance Unit
201 W. Colfax Ave. Dept. 907
Denver, CO 80202
Phone: 720-913-1999
DSBO@denvergov.org

The Undersigned swears that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operation of our joint venture and the intended participation by each joint venturer in the undertaking. Further, the Undersigned covenant and agree to provide the City current, complete, and accurate information regarding actual joint venture work and the payment thereof and any proposed changes in any of the joint venture arrangements and to permit the audit and examination of the books, records, and files of the joint venture, by authorized representatives of the City or Federal funding agency, if applicable. Any material misrepresentation will be grounds for terminating any contract which may be awarded and for initiating action under Federal or State laws concerning false statements.

Name of Firm:

Print Name:

Title

Signature:

Date:

Notary Public

County of

State of

My Commission Expires:

Subscribed and sworn before me this

_____ day of _____, 20_____

Notary Seal

Notary Signature: _____

Notary Commission #: _____

Address: _____

Name of Firm:

Print Name:

Title

Signature:

Date:

Notary Public

County of

State of

My Commission Expires:

Subscribed and sworn before me this

_____ day of _____, 20_____

Notary Seal

Notary Signature: _____

Notary Commission #: _____

Address: _____



DENVER
OFFICE OF ECONOMIC
DEVELOPMENT

**JOINT VENTURE
ELIGIBILITY FORM**

N/A

Office of Economic Development
Division of Small Business Opportunity
Compliance Unit
201 W. Colfax Ave Dept. 907
Denver, CO 80202
Phone: 720-913-1099
DSBO@denvergov.org

Joint Venture means an association of two (2) or more business enterprises to constitute a single business enterprise to perform a City construction or professional design and construction services contract for which purpose they combine their property, capital, efforts, skills and knowledge, and in which each joint venturer is responsible for a distinct, clearly defined portion of the work of the contract, performs a commercially useful function, and whose share in the capital contribution, control, management responsibilities, risks and profits of the joint venture are equal to its ownership interest. Joint ventures must have an agreement in writing specifying the terms and conditions of the relationships between the joint venturers and their relationship and responsibility to the contract.

The Division of Small Business Opportunity (DSBO) requires the following information be provided from participants of a prospective joint venture, to assist DSBO in evaluating the proposed joint venture. This Joint Venture Eligibility form and the Joint Venture Affidavit apply if SBEs, EBEs, MBEs, WBEs or DBEs participate in this joint venture.

Please return this form, the Joint Venture Affidavit, and a copy of your Joint Venture Agreement to: Division of Small Business Opportunity, 201 West Colfax Avenue, Denver, CO 80202, at least ten (10) working days prior to bid opening or proposal.

If you have questions regarding this process, please contact DSBO at 720-913-1099.

Joint Venture Information

Name:		Contact Person:	
Address:			
City:	State:	Zip:	Phone:

Joint Venture Participants

Name:		Contact Person:	
Address:			
City:	State:	Zip:	Phone:
% Ownership:	Certifying Entity:	Type Certification & Date: (S/E/M/W or DBE)	

Type of Work for which Certification was granted:

Name:		Contact Person:	
Address:			
City:	State:	Zip:	Phone:
% Ownership:	Certifying Entity:	Type Certification & Date: (S/E/M/W or DBE)	

Type of Work for which Certification was granted:

General Information

SBE/EBE/MBE/WBE/DBE Initial Capital Contributions: \$ _____ %

Future capital contributions (explain requirements) (attach additional sheets if necessary)

Source of Funds for the SBE/EBE/MBE/WBE/DBE Capital Contributions:

Describe the portion of the work or elements of the business controlled by the SBE/EBE/MBE/WBE or DBE: (attach additional sheets if necessary)

N/A

Describe the portion of the work or elements of the business controlled by non-SBE/EBE/MBE/WBE or DBE. (attach additional sheets if necessary)

JOINT VENTURE ELIGIBILITY FORM

General Information

Describe the SBE/EBE/MBE/WBE or DBE's involvement in the overall management of the joint venture (e.g., participation on a management committee or managing board voting rights, etc.) (attach additional sheets if necessary)

Describe the SBE/EBE/MBE/WBE or DBE's share in the profits of the joint venture.

Describe the SBE/EBE/MBE/WBE or DBE's share in the risks of the joint venture:

Describe the roles and responsibilities of each joint venture participant with respect to managing the joint venture (use additional sheets if necessary):

a. SBE/EBE/MBE/WBE or DBE joint venture participant:

b. Non- SBE/EBE/MBE/WBE or DBE joint venture participant:

Describe the roles and responsibilities of each joint venture participant with respect to operation of the joint venture (use additional sheets if necessary):

a. SBE/EBE/MBE/WBE or DBE joint venture participant.

b. Non- SBE/EBE/MBE/WBE or DBE joint venture participant:

N/14

Which firm will be responsible for accounting functions relative to the joint venture's business?

Explain what authority each party will have to commit or obligate the other to insurance and bonding companies, financing institutions, suppliers, subcontractors, and/or other parties?

Please provide information relating to the approximate number of management, administrative, support and non-management employees that will be required to operate the business and indicate whether they will be employees of the S/E/MWBE/DBE, non-S/E/MWBE/DBE or joint venture.

	Non- SBE/EBE/MWBE/DBE	SBE/EBE/MWBE/DBE	Joint Venture
Management			
Administrative			
Support			
Hourly Employees			

JOINT VENTURE ELIGIBILITY FORM

General information

Please provide the name of the person who will be responsible for hiring employees for the joint venture

Who will they be employed by?

Are any of the proposed joint venture employees currently employees of any of the joint venture partners?

	Yes ()		No ()
--	------------	--	-----------

If yes, please list the number and positions and indicate which firm currently employs the individual(s). (use additional sheets if necessary)

Number of employees	Position	Employed By

Attach a copy of the proposed joint venture agreement, promissory note or loan agreement (if applicable), and any and all written agreements between the joint venture partners.

List all other business relationships between the joint venture participants, including other joint venture agreements in which the parties are jointly involved.

If there are any significant changes in or pertaining to this submittal, the joint venture members must immediately notify the Division of Small Business Opportunity.

COMP-FRM-015

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

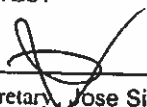
THAT Silva Construction, Inc. as Principal, and Developers Surety and Indemnity Company, a corporation organized and existing under and by virtue of the laws of the State of Colorado, and authorized to do business within the State of Colorado, as Surety, are held and firmly bound unto the City and County of Denver, Colorado, as Obligee, in full and just sum of Five Percent (5%) of the Total Bid Amount Dollars, (\$ 5% of Bid Amount), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents:

WHEREAS, the said Principal is herewith submitting its bid, dated May 16th, 2019, for the construction of: Contract No. 201948771, KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY, as set forth in detail in the Contract Documents for the City and County of Denver, Colorado, and said Obligee has required as a condition for receiving said bid that the Principal deposit specified bid security in the amount of not less than five percent (5%) of the amount of said bid, as it relates to work to be performed for the City, conditioned that in event of failure of the Principal to execute the Contract, for such construction and furnish required Performance and Payment Bond if the contract is offered him that said sum be paid immediately to the Obligee as liquidated damages, and not as a penalty, for the Principal's failure to perform.


The condition of this obligation is such that if the aforesaid Principal shall, within the period specified therefore, on the prescribed form presented to him for signature, enter into a written contract with the Obligee in accordance with his bid as accepted and give Performance and Payment Bond with good and sufficient surety or sureties, upon the form prescribed by the Obligee, for the faithful performance and the proper fulfillment of said Contract, or in the event of withdrawal of said bid within the time specified, or upon the payment to the Obligee of the sum determined upon herein, as liquidated damages and not as penalty, in the event the Principal fails to enter into said contract and give such Performance and Payment Bond within the time specified, then this Obligation shall be null and void, otherwise to remain in full force and effect.

Signed, sealed and delivered this 16th day of May, 2019.

ATTEST


Secretary, Jose Silva Jr.

Silva Construction, Inc.
Principal
By Jose Silva
Title Jose Silva, President

Developers Surety and Indemnity Company
Surety
By 
Tim Mitchell, Attorney-in-Fact

Seal if Bidder is Corporation
(Attach Power-of-Authority)

[SEAL]

POWER OF ATTORNEY FOR
DEVELOPERS SURETY AND INDEMNITY COMPANY
PO Box 19725, IRVINE, CA 92623 (949) 263-3300

KNOW ALL BY THESE PRESENTS that except as expressly limited, DEVELOPERS SURETY AND INDEMNITY COMPANY, does hereby make, constitute and appoint:
Scott Metzger, Scott White, Tim Mitchell, Ann Ritacco, Christine Crowder, jointly or severally

as its true and lawful Attorney(s)-in-Fact, to make, execute, deliver and acknowledge, for and on behalf of said corporation, as surety, bonds, undertakings and contracts of suretyship giving and granting unto said Attorney(s)-in-Fact full power and authority to do and to perform every act necessary, requisite or proper to be done in connection therewith as each of said corporation could do, but reserving to each of said corporation full power of substitution and revocation, and all of the acts of said Attorney(s)-in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This Power of Attorney is granted and is signed by facsimile under and by authority of the following resolution adopted by the Board of Directors of DEVELOPERS SURETY AND INDEMNITY COMPANY, effective as of January 1st, 2008.

RESOLVED, that a combination of any two of the Chairman of the Board, the President, any Executive Vice-President, Senior Vice-President or Vice-President of the corporation be, and that each of them hereby is, authorized to execute this Power of Attorney, qualifying the attorney(s) named in the Power of Attorney to execute, on behalf of the corporation, bonds, undertakings and contracts of suretyship; and that the Secretary or any Assistant Secretary of the corporation be, and each of them hereby is, authorized to attest the execution of any such Power of Attorney;

RESOLVED, FURTHER, that the signatures of such officers may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures shall be valid and binding upon the corporation when so affixed and in the future with respect to any bond, undertaking or contract of suretyship to which it is attached.

IN WITNESS WHEREOF, DEVELOPERS SURETY AND INDEMNITY COMPANY has caused these presents to be signed by its officers and attested by its Secretary or Assistant Secretary this 6th day of February, 2017.

By: *Daniel Young*
Daniel Young, Senior Vice-President

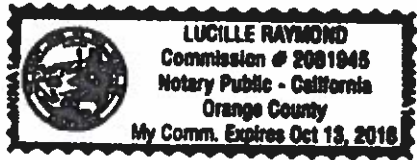
By: *Mark Lansdon*
Mark Lansdon, Vice-President



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Orange

On February 6, 2017 before me, Lucille Raymond, Notary Public
Date Here Insert Name and Title of the Officer
personally appeared Daniel Young and Mark Lansdon
Name(s) of Signer(s)



Place Notary Seal Above

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.
Signature *Lucille Raymond*
Lucille Raymond, Notary Public

CERTIFICATE

The undersigned, as Secretary or Assistant Secretary of DEVELOPERS SURETY AND INDEMNITY COMPANY or INDEMNITY COMPANY OF CALIFORNIA, does hereby certify that the foregoing Power of Attorney remains in full force and has not been revoked and, furthermore, that the provisions of the resolutions of the respective Boards of Directors of said corporations set forth in the Power of Attorney are in force as of the date of this Certificate.

This Certificate is executed in the City of Irvine, California, this 16th day of May, 2019.

By: *Cassie J. Bernisford*
Cassie J. Bernisford, Assistant Secretary





Office of Economic Development
 Division of Small Business Opportunity
 201 W. Colfax Ave, Dept. 907
 Denver, CO 80202
 p: 720.913.1909
 f: 720.913.1800
www.denvergov.org/dsbo

Diversity and Inclusiveness * in City Solicitations Information Request Form

Type in your response, print out, sign and date; or print out and complete manually. Please print legibly.

Denver Executive Order No. 101 establishes strategies between the City and private industry to use diversity and inclusiveness to promote economic development in the City and County of Denver and to encourage more businesses to compete for City contracts and procurements. The Executive Order requires, among other things, the collection of certain information regarding the practices of the City's contractors and consultants toward diversity and inclusiveness and encourages/requires City agencies to include diversity and inclusiveness policies in selection criteria where legally permitted in solicitations for City services or goods.

Answer each question below. Missing or incomplete responses will be recorded as "no", "not applicable", or "none". A proposal or response to a solicitation by a contractor/consultant that does not include this completed form shall be deemed non-responsive and rejected.

Business Email Address: Silva Construction / 54@gmail.com

Please include the Email address of the contact person facilitating this solicitation for the City and County of Denver: _____

Agency Name:

- | | | |
|---|---|--|
| <input type="checkbox"/> Arts and Venue | <input type="checkbox"/> Purchasing Division | <input type="checkbox"/> Sheriff Department |
| <input type="checkbox"/> Auditor Office | <input type="checkbox"/> Human Services | <input type="checkbox"/> Technology Services |
| <input type="checkbox"/> Community Planning | <input type="checkbox"/> Economic Development | <input type="checkbox"/> Other |
| <input type="checkbox"/> Denver International Airport | <input type="checkbox"/> Parks and Recreation | |
| <input type="checkbox"/> Environmental Health | <input checked="" type="checkbox"/> Police Department | |
| <input type="checkbox"/> Fire Department | <input checked="" type="checkbox"/> Public Works | |

Project Name: Knox Ct & 35th Ave Bikeway

BID / RFP No.: 2019 48771

Name of Contractor/Consultant: Silva Construction Inc

What industry is your business? Concrete

Address: 154 Cassie Cir
Brighton, CO 80601

Business Phone No.: 720-550-8175

Business Facsimile No.: 888-689-9850

OED - Executive Order No. 101
 Diversity and Inclusiveness in City Solicitations Information Request Form
 Rev. 12/29/2015

1. How many employees does your company employ?

- 1-10 51-100
 11-50 over 100

1.1. How many of your company's employees are:

Full-time 60% Part-Time _____

2. Do you have a Diversity and Inclusiveness Program? Yes No

If No, and your company size is less than 10 employees continue to question 1.1. Complete and sign the form.

If Yes, does it address:

- 2.1 Employment and retention? Yes No
2.2 Procurement and supply chain activities? Yes No
2.3 Customer service? Yes No

3. Provide a detailed narrative of your company's diversity and inclusiveness principles and programs. This may include, for example, (i) diversity and inclusiveness employee training programs, equal opportunity policies, and the budget amount spent on an annual basis for workplace diversity; or (ii) diversity and inclusiveness training and information to improve customer service.

N/A

4. Does your company regularly communicate its diversity and inclusiveness policies to employees?

If Yes, how does your company regularly communicate its diversity and inclusiveness policies to employees? (select all that apply)

- Employee Training
 Pamphlets
 Public EEO postings
 Other
 Not Applicable

5. If you responded that you do not have a diversity and inclusiveness program, describe any plans your company may have to adopt such a program.

Do not know what it consists of

6. How often do you provide training in diversity and inclusiveness principles?

- Monthly Annually
 Quarterly Not Applicable Other _____

6.1 What percentage of the total number of employees generally participate?

- 0 - 25% 51 - 75%
 26 - 50% 76 - 100% Not Applicable

7. State how you achieve diversity and inclusiveness in supply and procurement activities. This may include, for example, narratives of training programs, equal opportunity policies, diversity or inclusiveness partnership programs, mentoring and outreach programs, and the amount and description of budget spent on an annual basis for procurement and supplier diversity and inclusiveness.

n/a

8. Do you have a diversity and inclusiveness committee? Yes No

8.1 If Yes, how often does it meet?

- Monthly Annually No Committee
 Quarterly Other n/a

8.2 If you responded that you do not have a diversity and inclusiveness committee, describe any plans your company may have to establish such a committee.

Don't have program

9. Do you have a budget for diversity and inclusiveness efforts? Yes No
10. Does your company integrate diversity and inclusion competencies into executive/manager performance evaluation plans? Yes No
11. Would you like information detailing how to implement a Diversity and Inclusiveness program? Yes No

If yes, please email XO101@denvergov.org.

I attest that the information represented herein is true, correct and complete, to the best of my knowledge.


Signature of Person Completing Form

5/16/19
Date

Jose Silva
Printed Name of Person Completing Form

NOTE: Attach additional sheets or documentation as necessary for a complete response.

****Diversity and inclusiveness program* means a program that invites values, perspectives and contributions of people from diverse backgrounds, and integrates diversity into its hiring and retention policies, training opportunities, and business development methods to provide an equal opportunity for each person to participate, contribute, and succeed within the organization's workplace. "Diversity" encompasses a wide variety of human differences, including differences such as race, age, gender, gender identity, sexual orientation, ethnicity, physical disabilities, appearance, historically underutilized and disadvantaged persons, as well as social identities such as religion, marital status, socio-economic status, lifestyle, education, parental status, geographic background, language ability, and veteran status."**

CITY AND COUNTY OF DENVER
STATE OF COLORADO



DENVER
THE MILE HIGH CITY

DEPARTMENT OF PUBLIC WORKS

Bid Documents Package

Contract Number: 201948771



**Knox Court & W. 35th Ave Neighborhood
Bikeway**

April 16, 2019

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

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Commitment to Minority and Woman Business Enterprise Participation	BF-13
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DENVER
THE MILE HIGH CITY
CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

STATEMENT OF QUANTITIES

Item No.	Description	Estimated	Quantity
201-00000	CLEARING AND GRUBBING	1	LS
202-00012	REMOVAL OF TREE STUMP	1	EA
202-00019	REMOVAL OF INLET	6	EA
202-00035	REMOVAL OF PIPE	23	LF
202-00200	REMOVAL OF SIDEWALK	590	SY
202-00201	REMOVAL OF CURB	95	LF
202-00203	REMOVAL OF CURB AND GUTTER	1,380	LF
202-00206	REMOVAL OF CONCRETE CURB RAMP	53	SY
202-00210	REMOVAL OF CONCRETE PAVEMENT	3	SY
202-00220	REMOVAL OF ASPHALT MAT	1,739	SY
202-00810	REMOVAL OF GROUND SIGN	12	EA
202-04001	PLUG CULVERT	1	EA
203-01598	POTHOLING	52	EA
208	EROSION CONTROL	1	LS
210-0006X	RESET MONUMENT	3	EA
210-00750	RESET LIGHT STANDARD	2	EA
210-00810	RESET GROUND SIGN	7	EA
210-00815	RESET SIGN PANEL	1	EA
210-04010	ADJUST MANHOLE	6	EA



DENVER
THE MILE HIGH CITY
CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

STATEMENT OF QUANTITIES

<u>Item No.</u>	<u>Description</u>	<u>Estimated</u>	<u>Quantity</u>
210-04015	MODIFY MANHOLE	1	EA
210-04020	MODIFY INLET (SPECIAL)	8	EA
210-04050	ADJUST VALVE BOX	9	EA
210-04060	ADJUST WATER METER	5	EA
212-00100	TREE RETENTION AND PROTECTION	1	EA
213-00067	ROCK MULCH (WEED FREE)	697	SF
403-00720	HOT MIX ASPHALT (PATCHING) (ASPHALT)	207	TON
403-0200X	HOT MIX ASPHALT	224	TON
412-0019X	CONCRETE PAVEMENT	1	SY
603-01125	12 INCH REINFORCED CONCRETE PIPE (CIP)	45	LF
603-01155	15 INCH REINFORCED CONCRETE PIPE (CIP)	49	LF
603-01185	18 INCH REINFORCED CONCRETE PIPE (CIP)	9	LF
604	CCD SINGLE NO. 16 INLET VALLEY (S-616V)	8	EA
604	CCD SINGLE NO. 14 INLET (S-620V)	5	EA
604	CCD SINGLE NO. 14 INLET L6 (SPECIAL)	1	EA
604	CCD SINGLE NO. 16 INLET (S-616.1)	1	EA
607-11525	FENCE (PLASTIC)	160	LF
608-00000	CONCRETE SIDEWALK (4 INCH)	39	SY
608-00006	CONCRETE SIDEWALK (6 INCH)	1,122	SY



DENVER
THE MILE HIGH CITY
CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

STATEMENT OF QUANTITIES

<u>Item No.</u>	<u>Description</u>	<u>Estimated</u>	<u>Quantity</u>
608-00010	CONCRETE CURB RAMP	288	SY
609-20010	6" CURB HEAD	23	LF
609-21010	6" CURB AND GUTTER - 1' SPILL PAN	282	LF
609-21020	6" CURB AND GUTTER - 2' CATCH PAN	1,617	LF
610-00024	MEDIAN COVER MATERIAL (4 INCH PATTERNED CONCRETE)	974	SF
612-00039	DELINEATOR (FLEXIBLE) (SURFACE MOUNTED)	36	EA
614-00011	SIGN PANEL (CLASS I)	343	SF
614-00037	SIGN PANEL (SPECIAL)	106	EA
614-00216	STEEL SIGN POST (2X2 INCH TUBING) (TELSPAR)	1,119	LF
620-00020	SANITARY FACILITY	2	EA
625-00000	CONSTRUCTION SURVEYING	1	LS
626-00000	MOBILIZATION	1	LS
627-00005	EPOXY PAVEMENT MARKING	34	GAL
627-01010	PREFORMED PLASTIC PAVEMENT MARKING (INLAID)	75	LF
627-30405	PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL)	258	SF
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK-STOPLINE)	2,027	SF



DENVER
THE MILE HIGH CITY
CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

STATEMENT OF QUANTITIES

<u>Item No.</u>	<u>Description</u>	<u>Estimated</u>	<u>Quantity</u>
630	CONSTRUCTION TRAFFIC CONTROL	1	LS
AW	EROSION CONTROL	1	FA
AW	ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT	1	FA
AW	LANDSCAPING	1	FA



DENVER
THE MILE HIGH CITY
CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

STATEMENT OF QUANTITIES

<u>Item No.</u>	<u>Description</u>	<u>Estimated</u>	<u>Quantity</u>
202-00019	REMOVAL OF INLET	1	EA
202-00200	REMOVAL OF SIDEWALK	28	SY
202-00203	REMOVAL OF CURB AND GUTTER	90	LF
202-00206	REMOVAL OF CONCRETE CURB RAMP	4	SY
202-00220	REMOVAL OF ASPHALT MAT	58	SY
202-00815	REMOVAL OF SIGN (SPECIAL)	1	EA
210-0006X	RESET MONUMENT	1	EA
403-00720	HOT MIX ASPHALT (PATCHING) (ASPHALT)	12	TON
603-01185	18 INCH REINFORCED CONCRETE PIPE (CIP)	22	LF
604	CCD SINGLE NO. 14 INLET L9 (5 FT)	1	EA
604	CCD TYPE B MANHOLE (5 FT)	1	EA
608-00006	CONCRETE SIDEWALK (6 INCH)	51	SY
608-00010	CONCRETE CURB RAMP	15	SY
609-21020	6" CURB AND GUTTER - 2' CATCH PAN	95	LF

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

**NOTICE FOR INVITATION FOR BIDS
FOR CONTRACT NO. 201948771**

KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY

**BID SCHEDULE:
11:00 a.m., Local Time
MAY 16, 2019**

Sealed bids will be received in Room 6.G.7, 201 W. Colfax Ave., Denver, CO 80202, beginning at 10:30 a.m., no later than 11:00 a.m., on bid day. All properly delivered bids will then be publicly opened and read aloud.

Bids submitted prior to 10:30 a.m. on the specified bid opening date/time shall be presented at the Office of Contract Administration, Attention: Public Works Contract Administration, 201 W. Colfax Ave., Department 614, Denver, CO 80202.

Prior to submitting a bid, the bidder shall consult the Contractor's Bulletin Board located at 201 W. Colfax Ave., 2nd Floor, Denver, CO 80202 and/or www.work4denver.com.

GENERAL STATEMENT OF WORK:

Construction of the Knox Ct Neighborhood Bikeway northbound ("NB") from Kentucky to Nevada Place, and W. 35th NB from Sheridan to Jason St. at Inca Trail. Construction includes bumpouts at 4 intersections (Knox), and bumpouts at 3 intersections (35th). Construction shall also include median refuges at 2 intersections (35th), bike boxes (35th), sharrows, with NB branding signage, and bicycle wayfinding signs. Contract plans include a bid alternate for construction of a bumpout at Morrison Rd. & Walsh Place.

ESTIMATED CONSTRUCTION COST:

The estimated cost of construction for this project is between \$705,000 and \$860,000.

TEXTURA CONSTRUCTION PAYMENT MANAGEMENT:

Bidders are required, when preparing a bid, to agree it shall use the Textura® Construction Payment Management System ("Textura") to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura. All fees associated with Textura are to be paid by the awarded Contractor. Bidders shall use the pricing scale provided in Instructions to Bidders to price the Textura service appropriately. For details on the company and service, contact the Textura® Corporation at 866-TEXTURA or www.texturacorp.com.

DOCUMENTS AND BID INFORMATION AVAILABLE:

Contract Documents complete with Technical Specifications and, if applicable, construction drawings will be available on the first day of publication at: www.work4denver.com. To download digital Contract Documents at a cost of \$15 per download, reference eBid Document Number #6267754. Contact QuestCDN at 952-233-1632 or info@questcdn.com for assistance.

PRE-BID CONFERENCE:

A pre-bid conference will be held for this Project at 9:00 a.m., local time, on April 25, 2019. This meeting will take place at: WEBB Building, 201 W Colfax Ave, 4th floor conference room 4.I.4., Denver Colorado 80202.

DEADLINE TO SUBMIT QUESTIONS: May 2, 2019 by 10:00 a.m., local time.

PREQUALIFICATION REQUIREMENTS:

None

MINORITY AND WOMAN BUSINESS ENTERPRISE PARTICIPATION:

Construction, reconstruction and remodeling contracts made and entered into by the City and County of Denver are subject to Article III, Divisions 1 and 3 of Chapter 28 of the Denver Revised Municipal Code, (Sections 28-31 to 28-36 and 28-52 to 28-90 D.R.M.C) and all Minority and Woman Business Enterprise and Equal Employment Opportunity Rules and Regulations adopted by the Director of the Division of Small Business Opportunity.

Article III, Division 3 of Chapter 28 of the D.R.M.C. directs the Director of the Division of Small Business Opportunity to establish a project goal for expenditures on construction, reconstruction, and remodeling work contracted by the City and County of Denver. The specific goal for this project is:

14% Minority and Woman Business Enterprise (M/WBE) Participation

Project goals must be met with certified participants as set forth in Section 28-60, D.R.M.C. or through the demonstration of a sufficient good faith effort under Section 28-62 D.R.M.C. For compliance with good faith requirements under Section 28-62(b), the M/WBE percentage solicitation level required for this project is 100%.

The Director of the Division of Small Business Opportunity urges all participants in City construction, reconstruction and remodeling projects to assist in achieving these goals.

MISCELLANEOUS:

Contracts for construction, reconstruction, and remodeling are subject to the City prevailing wage rate requirements established pursuant to Section 20-76, D.R.M.C.

City contracts are subject to payment of City Minimum Wage established pursuant to Section 20-82 through 20-84 D.R.M.C.

As its best interest may appear, the City and County of Denver reserves the right to reject any or all bids and to waive informalities in bids.

A modified version of this Notice of Invitation for Bids and the project's Statement of Quantities is available on the City and County of Denver's website at: www.work4denver.com.

Publication Dates: April 16, 17, 18, 2019
Published In: The Daily Journal

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

INSTRUCTIONS TO BIDDERS

IB-1 INSTRUCTION TO BIDDERS

These Instructions to Bidders are a part of the Contract Documents and are intended to serve as a guide to bidders. They are general in nature and may be amended or supplemented as needed to support any one specific invitation to bid. Each bidder shall prepare its bid in strict compliance with all requirements of the Contract Documents and by careful application of these instructions.

IB-2 BIDDING

The copy of the Contract Documents contains the Bid Form and Submittal Package for this Project, which must be used to submit a bid hereunder. The bidder must fully complete, execute and submit this Bid Form and Submittal Package, along with any other specified components of the Contract Documents, as its bid for the referenced Project.

A bidder is not required to submit as part of its bid the entire set of Contract Documents distributed by the City pursuant to the Notice of Invitation for Bids, if the bidder executes and submits the Bidder Acknowledgment Form included with the Bid Form and Submittal Package as part of its bid. However, each bidder, by submitting its bid, shall be conclusively presumed to have received and reviewed all of the information contained in the Contract Documents as this term is further defined herein.

Each bid must be enclosed in a sealed envelope, must be addressed to the Manager and must show on the face of the envelope the full name of the bidder, the City Project number, and descriptive title of the Project for which the bid is made.

The advertisement for Notice of Invitation for Bids will identify where and when the bid must be delivered.

IB-3 CONTRACT DOCUMENTS AS PUBLISHED BY CITY

Each bidder shall be responsible for, and shall be deemed to have received, all the information contained in the Contract Documents as distributed by the City pursuant to the Notice of Invitation for Bids, including addenda, whether or not such bidder has reviewed all or part of the Contract Documents in either its hard copy form or in any other format. If organizations or companies other than the City or its design professional distribute the City's Contract Documents for review by prospective bidders, whether in hard copy or via electronic or other media, neither the City nor its design professional shall be responsible for the content, completeness or accuracy of any information distributed or transmitted by any such organization or company.

IB-4 COMPLETING AND SIGNING THE BID FORMS

The bidder must complete the Bid Form by legibly writing or printing in ink, in words and figures as required, all the bidder's prices offered for the Work to be performed. All blank spaces, which require a response of the bidder, must be properly completed in full. If in the process of evaluating a bid, words and figures, as written on the Bid Form by the bidder, do not agree, the written words will govern.

For Bid Forms requiring unit price bids, the bidder shall write in the Bid Form spaces provided a unit price for each item for which a quantity is given and shall also write the product of each unit price and the quantity specified in the "Amount" or "Total" space provided.

Each bidder must sign the Bid Form and give the bidder's current business address. If an individual, the signature must be of the individual offering the bid; if a partnership, the signature must be that of a general partner; and if a corporation, both the president and the secretary must sign and the seal of the corporation must be affixed. Signatures of other persons may be acceptable if the bid contains sufficient evidence, satisfactory to the City in its sole discretion, to indicate that the other persons are authorized to bind the bidder.

IB-5 UNACCEPTABLE BIDS

The City will not accept bids from Bidders not prequalified with the Department of Public Works (if prequalification is required for this project), in arrears to the City upon debt or contract, or which are defaulters (as surety or otherwise) upon any obligation to the City.

IB-6 INFORMAL AND UNBALANCED BIDS

Any alteration, interlineations, erasure, omission, deletion or addition by the bidder to the Bid Form and Submittal Package or other parts of the Contract Documents submitted with the Bid Form and Submittal Package, as originally issued to the bidder, shall render the accompanying bid informal and may constitute cause for rejection.

Any unauthorized addition, conditional or alternate bids, failure to provide a unit price, lump sum amount or authorized alternate item specified or other irregularities of any kind which tend to render the bid incomplete, indefinite or ambiguous shall render the bid informal and may constitute cause for rejection.

Bids that are unbalanced so that each item does not reasonably carry its own proportion of cost or that contain inadequate or unreasonable prices for any item may be rejected. Bids, which have not acknowledged all addenda to the Contract Documents issued for this bid, may also be rejected.

The right is reserved by the City to reject any or all bids and to waive any informalities where it is deemed by the City to be in the best interests of the City to do so.

IB-7 ONLY ONE BID ACCEPTED

The City will accept only one bid for the same work from any one bidder. This includes bids that may be submitted under different names by one business enterprise.

IB-8 BID GUARANTEE

As a guarantee of good faith on the part of the bidder, each bid must be accompanied by a bid guarantee, consisting of either a certified or cashier's check made payable without condition to the order of the City and County of Denver or a bid bond written by an approved corporate surety in favor of the City and County of Denver. If the bid of a bidder is acceptable and the bidder is notified by the Manager that it is considered to be the Apparent Low Bidder and said bidder fails to execute a contract in the form prescribed or to furnish a performance and payment bond with a legally responsible and approved surety or to furnish the required evidence of insurance or satisfy all conditions precedent to contract execution within five (5) days after such notice is made by the City, said bid guarantee shall be forfeited to the City as liquidated damages and not as a penalty.

The bid guarantee shall be in the amount of five percent (5%) of the total bid unless otherwise specified in the Notice of Invitation for Bids and on the form appearing in the Contract Documents in the Bid Form and Submittal Package. Failure to submit a properly executed bid guarantee, on the form provided herein may, in the City's sole discretion, constitute cause for rejection.

Following award and execution of the Contract by the Apparent Low Bidder, or earlier in the sole discretion of the City, bid guarantees of all but the Apparent Low Bidder will be returned. When the Apparent Low Bidder executes the Contract and delivers to the City satisfactory performance and payment bonds, required insurance documentation, and has satisfied all conditions precedent to contract execution by the City, and after approval, if any, by the Council of the City of the proposed Contract with the Apparent Low Bidder, the bid guarantee of the Apparent Low Bidder shall be returned. Such return shall be made within one hundred twenty (120) days from date bids are opened unless otherwise specified in the Special Contract Conditions.

IB-9 SITE INSPECTION AND INVESTIGATIONS

Prior to submitting a bid, the bidder is invited to inspect the work site and its surroundings. Although the bidder is not required to make such an inspection before bidding, for purposes of the Contract it shall be conclusively presumed that by failing to make such an inspection, the bidder has waived the right to later claim additional compensation or time extensions for conditions which would have been evident had the site been inspected.

Drawings and Technical Specifications, defining the Work to be done, were prepared on the basis of interpretation by the design professionals of information derived from investigations of the work site. Such information and data are subject to sampling errors, and the interpretation of the information and data depends to a degree on the judgment of the design professional. In view of this, the bidder is invited to make such additional investigations as the bidder's judgment dictates the need for such investigations. Information about the degree of difficulty of the Work to be done cannot totally be derived from either the Drawings or Technical Specifications or from the Manager or his representatives.

Since the bid information cannot be guaranteed, the Contractor shall have assumed the risks attendant to successful performance of the Work and shall never make claim for additional compensation or time extensions on the grounds that the nature or amount of work to be done was not understood by the bidder at the time of the bidding.

IB-10 INCONSISTENCIES

Any seeming inconsistencies or ambiguities between different provisions of the Contract Documents or any point which the bidder believes requires a decision or interpretation by the City must be inquired into by the bidder by addressing a formal written communication to the Manager of Public Works and sending or delivering it to the offices of the Division of Public Works advertising this Project for bid at least forty-eight (48) hours, excluding Saturdays, Sundays, and holidays, before the time set for the opening of bids

Information about the decision or interpretation made in response to any inquiry will be posted on the Contractor's Bulletin Board (refer to IB-12 CONTRACTOR'S BULLETIN BOARD, for the location of the Contractor's Bulletin Board). If the matter raised requires, in the sole discretion of the Manager, that an addendum to the bid documents be issued, such addendum will be published and each bidder shall be required to acknowledge the addendum by signing and identifying it in the Bid Form when submitting the bid.

After bids are opened, all bidders must abide by the formal response of the Manager, as to any interpretation. The City shall not be bound and the bidder shall not rely on any oral communication, interpretation clarification or determination of the Contract Documents prior to bid opening.

IB-11 WITHDRAWAL OF BID

A bidder may withdraw its bid at any time prior to the time for receipt of bids set forth in the Notice of Invitation for Bids by making written request upon the Manager of Public Works. After such time, no bid may be withdrawn or modified.

Such request must be signed by the persons authorized to bind the bidder as defined in IB-3, COMPLETING AND SIGNING BID FORMS.

IB-12 CONTRACTOR'S BULLETIN BOARD

It shall be conclusively presumed that the bidder has, before submitting any bid, read and shall take full responsibility for all addenda, posted decisions, and other information relevant to the bid posted by the City on the Contractor's Bulletin Board. The Contractor's Bulletin Board is located at 201 W. Colfax, 2nd Floor, Denver, CO 80202, in the Wellington E. Webb Municipal Office Building.

IB-13 PRE-BID MEETING

Bidders are urged to attend the pre-bid meeting(s) scheduled for this Project. Attendance is not mandatory; however, bidders will be held responsible for all information presented at such meeting(s).

IB-14 ADDENDA

As its best interests may require, the City may issue addenda to the Contract Documents. Such addenda shall be posted on the Contractor's Bulletin Board and made available to all persons having purchased a set of Contract Documents as set forth in the Notice of Invitation for Bids contained herein. All bidders must acknowledge receipt of all addenda on the Bid Form at the time of submission of the bid.

IB-15 BID OPENING

Bidders are invited to be present at the bid opening. Unless otherwise suspended, delayed or canceled by posted notice from the Manager, bid opening will occur at the time and place designated in the Notice of Invitation for Bid.

IB-16 EVALUATION OF BIDS AND BASIS OF BID SELECTION

Bids will be evaluated after being read in open meeting at the place designated for such bid opening. All low bidders' bids will be reviewed for responsiveness to the requirements of the Contract Documents and whether or not the bids contain irregularities which could give any bidder an unfair advantage.

Selection will be made on the basis of the lowest, total, responsive, qualified bid, which bid shall include the total base bid set forth on the Bid Form, plus the total of any alternates set forth on the Bid Form and selected by the City during evaluation. Alternates, if any are included in the bid, will be selected in the priority shown on the Bid Form, subject to the limits of available funds. Bid selection will be subject to all requirements and special bidder qualifications contained herein and subject to approval of such resulting Contract in accordance with the Charter and Revised Municipal Code of the City and County of Denver. In addition to all other specified requirements, the City will correct arithmetical errors in all bids and corrected totals only will be considered as the basis of selection.

Upon concluding that the bid is, in fact, the lowest, total, responsive bid to the bidding conditions and that of a responsible, qualified bidder, the City will notify the Apparent Low Bidder.

As its best interests may appear, the City and County of Denver reserves the right to waive informalities in bids, to reject any and all bids and to rebid the Project.

IB-17 NOTICE TO APPARENT LOW BIDDER

The Notice to Apparent Low Bidder, a form of which is included in the Contract Special Conditions Section of the Contract Documents, is issued by the City directly to the selected bidder and informs the bidder that the Manager intends to seek approval of the execution of the Contract by the City in accordance with the Charter and Revised Municipal Code of the City and County of Denver. Specifically, it informs the bidder of its obligations with respect to execution of the Contract and instructs the bidder on how to proceed toward execution of the Contract. The City reserves the right to notify the Apparent Low Bidder, at any time within one hundred twenty (120) days from the date of the opening of the bids, that approval to contract with the Apparent Low Bidder shall be sought in accordance with the Charter and Revised Municipal Code of the City and County of Denver.

In accordance with the terms and conditions contained in the Bid Form and Submittal Package and any additional requirements set forth in the Notice to Apparent Low Bidder or elsewhere in the Contract Documents, the Apparent Low Bidder shall execute the Contract Form contained in the Contract Documents made available by the City for execution in the appropriate number of counterparts. The Apparent Low Bidder shall return the fully executed Contract Document sets, along with any supplemental documents required herein, to the City and shall comply with all other conditions precedent to Contract execution within five (5) days of the date of issuance of the Notice to Apparent Low Bidder by the City. Failure to comply with each of these requirements within five (5) days of the date of issuance of the Notice to Apparent Low Bidder by the City shall render the bid nonresponsive and may constitute cause for rejection.

Issuance of such Notice shall not, however, constitute a commitment on the part of the City or create any rights in the Apparent Low Bidder to any contract with the City.

IB-18 EXECUTION OF CONTRACT

The process of executing a contract requires action by both the apparent low bidder and the City. After it notifies the Apparent Low Bidder, the City will prepare the Contract Documents by incorporating all of the documents submitted by the Apparent Low Bidder into one or more executable copies. Upon notification that contracts documents are ready for execution the Apparent Low Bidder shall execute the contract documents. At this time, the successful bidder shall also provide certain supplemental documents for incorporation into the Contract Documents. These supplemental documents shall include: the properly executed Certificate of Insurance Forms evidencing the apparent low bidder's satisfactory compliance with the insurance requirements set forth in the Contract Documents; a properly executed Payment and Performance Bond Form and appropriate Power of Attorney evidencing the Apparent Low Bidder's satisfactory compliance with the bonding requirements set forth in the Contract Documents; and documentation of compliance with any other conditions precedent to execution of the Contract by the City set forth in the Contract Documents. The insurance and bond forms contained in the Contract Special

Conditions Section of the Contract Documents must be used in satisfying these supplemental document requirements.

These documents are then delivered to the City within the prescribed time period for examination of the documents to determine whether or not the Contractor has correctly executed the Contract and has correctly provided the required supplemental documents and that these documents are satisfactorily and properly completed. From here, all of the documents are forwarded to the City Attorney who will, if the insurance and bonding offered is acceptable and if all other elements of the Contract Documents are in order, recommend that the Manager and the Mayor approve the documents and, when required by the City Charter, prepare an ordinance for submittal to City Council authorizing the execution of the Contract. The City Attorney shall in all applicable instances submit the proposed contract and ordinance to City Council. After City Council approval, the Contract shall be reviewed by the City Attorney and routed for execution by the Mayor, the Clerk for attestation and the Auditor for countersignature and registration. When the total process of contract execution is complete, a Notice to Proceed will be issued and a single executed copy of the Contract will be delivered to the Contractor. Any work performed or a material purchased prior to the issuance of Notice to Proceed is at the Contractor's risk.

IB-19 BONDING REQUIREMENTS

In accordance with the provisions of General Contract Conditions, Title 15, PERFORMANCE AND PAYMENT BONDS, the minimum bonding requirements for this Contract are set forth in the form **CITY AND COUNTY OF DENVER PERFORMANCE AND PAYMENT BOND** contained in the Special Conditions Section of the Contract Documents. Upon receipt of Notice to Apparent Low Bidder, the apparent low bidder must cause this form bond to be purchased, executed and furnished, along with appropriate Powers of Attorney and a surety authorization letter (in form similar to the one attached), to the City in accordance with the instructions contained herein.

IB-20 INSURANCE REQUIREMENTS

The minimum insurance requirements for this Contract are set forth in the Special Conditions Section of the Contract Documents. Bidders are urged to consider, in preparing a bid hereunder, that each condition, requirement or specification set forth in the form certificate must be complied with by the Contractor and all subcontractors performing Work on the Project, unless such requirements are specifically accepted in writing by the City's Risk Management Office. The Contractor must either include all subcontractors performing work hereunder as insureds under each required policy or furnish a separate certificate for each subcontractor. In either case, the Contractor shall insure that each subcontractor complies with all of the coverage requirements.

IB-21 PERMITS AND LICENSES

All permits, licenses and approvals required in the prosecution of the work shall be obtained and paid for by the Contractor.

IB-22 PREVAILING WAGE REQUIREMENTS

Contractor shall comply with, and agrees to be bound by, all requirements, conditions and City determinations regarding the Payment of Prevailing Wages Ordinance, Sections 20-76 through 20-79, D.R.M.C. including, but not limited to, the requirement that every covered worker working on a City owned or leased building or on City-owned land shall be paid no less than the prevailing wages and fringe benefits in effect on the date the bid or request for proposal was advertised. In the event a request for bids, or a request for proposal, was not advertised, Contractor shall pay every covered worker no less than the prevailing wages and fringe benefits in effect on the date funds for the contract were encumbered.

Date bid or request for qualifications/proposals was advertised: April 16, 2019.

Prevailing wage and fringe rates will adjust on, and only on, the anniversary of the date the Contract was fully executed. Unless expressly provided for in this Agreement, Contractor will receive no additional compensation for increases in prevailing wages or fringe benefits.

Contractor shall provide the Auditor with a list of all subcontractors providing any services under the contract.

Contractor shall provide the Auditor with electronically-certified payroll records for all covered workers employed under the contract.

Contractor shall prominently post at the work site the current prevailing wage and fringe benefit rates. The posting must inform workers that any complaints regarding the payment of prevailing wages or fringe benefits may be submitted to the Denver Auditor by calling 720-913-5000 or emailing auditor@denvergov.org.

If Contractor fails to pay workers as required by the Prevailing Wage Ordinance, Contractor will not be paid until documentation of payment satisfactory to the Auditor has been provided. The City may, by written notice, suspend or terminate work if Contractor fails to pay required wages and fringe benefits.

IB-23 PAYMENT OF CITY MINIMUM WAGE

Contractor shall comply with, and agrees to be bound by, all requirements, conditions, and City determinations regarding the City's Minimum Wage Ordinance, Sections 20-82 through 20-84 D.R.M.C., including, but not limited to, the requirement that every covered worker shall be paid no less than the City Minimum Wage in accordance with the foregoing D.R.M.C. Sections.

Instances in which a worker is covered by both Prevailing Wage rate requirements and City Minimum Wage rate requirements, Contractor shall pay every covered worker the greater of the two.

The services being requested in this solicitation may involve services that are covered pursuant to Division 3.75 of Article IV of Chapter 20 of the Denver Revised Municipal Code ("D.R.M.C."), which is designed to address the issue of wage equity and cost of living affordability in the City & County of Denver. Contractor agrees that any contract with the City shall include a requirement that Contractor will comply with the provisions of D.R.M.C. §§20-82 through 20-84, including, but not limited to, paying all covered workers no less than the City Minimum Wage for all covered services rendered in connection with the Contract. Additionally, Contractor agrees that the contract shall require compliance with all current and future federal and state laws and City ordinances.

IB-24 TAX REQUIREMENTS

General. Bidders are referred to the General Contract Condition 323, TAXES, as to taxes to which they may be subject in performing the Work under this Contract, including but not limited to sales and use taxes and the Denver Occupational Privilege Tax. The following instructions are to be considered along with the General Contract Conditions and not in lieu of them.

Sales and Use Tax. Construction and building materials sold to contractors and subcontractors for use on structures, roads, streets, highways, and other public works owned by the City and County of Denver are exempt from state, RTD, and Cultural Facilities District sales and use taxes. However, such materials will be subject to sales and use taxes imposed by the City and County of Denver.

It is the responsibility of the Contractor and its subcontractors to apply to the Colorado Department of Revenue ("CDOR") for a certificate, or certificates, of exemption indicating that their purchase of construction or building materials is for a public project, and to deliver to the City copies of such applications as soon as possible after approval by the CDOR. Bidders shall not include in their bid amounts the exempt state, RTD, and Cultural Facilities District Sales and Use Taxes.

Denver Occupational Privilege Tax. Any employee working for a contractor, or a subcontractor, who earns over \$500 working in Denver during a calendar month, is subject to the payment of the Employee Occupational Privilege Tax. The Contractor and any subcontractor must pay the Business Occupational Privilege Tax for each of its employees who are subject to such tax.

IB-25 DIVERSITY AND INCLUSIVENESS IN CITY SOLICITATIONS

Each bidder shall, as a condition of responsiveness to this solicitation, complete and return the "Diversity and Inclusiveness in City Solicitations Information Request Form" with their Bid.

Using the "Diversity and Inclusiveness in City Solicitations Information Request Form" provided, please state whether you have a diversity and inclusiveness program for employment and retention, procurement

and supply chain activities, or customer service and provide the additional information requested on the form. The information provided on the "Diversity and Inclusiveness in City Solicitations Information Request Form" will provide an opportunity for City contractors to describe their own diversity and inclusiveness practices. Contractors are not expected to conduct intrusive examinations of its employees, managers, or business partners in order to describe diversity and inclusiveness measures. Rather, the City simply seeks a description of the contractor's current practices, if any.

Diversity and Inclusiveness information provided by City contractors in response to City solicitations for services or goods will be collated, analyzed, and made available in reports consistent with City Executive Order No. 101. However, no personally identifiable provided by or obtained from contractor's will be in such reports.

IB-26 MINORITY AND WOMAN BUSINESS ENTERPRISE (M/WBE) REQUIREMENTS

Article III, Divisions 1 and 3 of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 – 28-36 and 28-52 – 28-90 D.R.M.C. and referred to in these Bid Documents as the "M/WBE Ordinance" and any Rules or Regulations promulgated pursuant thereto apply to this Project and are incorporated into these Bid Documents by reference. Generally, the M/WBE Ordinance provides for the adoption of a good faith goals program, to be administered by the Division of Small Business Opportunity (DSBO), devised to provide increased bidding opportunities for Minority and Woman Business Enterprises (M/WBEs). As such, each bidder must comply with the terms and conditions of the M/WBE Ordinance in making its bid and, if awarded the Contract, in performing all Work thereunder. A bidder's failure to comply with the M/WBE Ordinance, any Rules or Regulations promulgated pursuant thereto, or any additional requirement contained herein shall render the bid non-responsive and shall constitute cause for rejection. Failure by the contractor awarded the contract to comply with M/WBE Ordinance requirements during the performance of the contract is a material breach of the contract, which may result in the in the imposition of sanctions on the Contractor, as deemed appropriate by DSBO. Copies of the M/WBE Ordinance and its accompanying Rules and Regulations are available for the use and review of bidders from DSBO. In order to comply with the bid requirements of the M/WBE Ordinance, a bidder shall either meet the established project goal or, in the alternative, demonstrate that the bidder has made sufficient good faith efforts to meet the goal in accordance with the M/WBE Ordinance.

Meeting Established Goal

In preparing a bid to meet the established Project goal, bidders should consider the following instructions relating to compliance with the M/WBE Ordinance:

1. Under the M/WBE Ordinance, the Director of DSBO ("Director") is directed to establish project goals for expenditures on construction, reconstruction, and remodeling work performed for the City and County of Denver. The specific goal for this project is stated in the Notice of Invitation for Bids bound herein.
2. In preparing its bid, each bidder shall list on the Bid Form pages entitled "List of Proposed MWBE Bidders, Subcontractors, Suppliers, Manufacturers, Manufacturers' Representatives or Brokers" the name, address, work description/supply, committed level of participation and other required information for each M/WBE of any tier which the bidder intends to use in performing the work on this Project. **Only the M/WBEs identified and the precise levels of participation listed for each on the Bid Form page, at the time of bid opening, will be considered in determining whether the bidder has met the designated participation goal. Additional, revised or corrected participation submitted after bid opening will not be considered.** M/WBE bidders may count self-performance or joint venture activity in meeting the M/WBE project goal, but only for the scope of work performed as a commercially useful function and at a percentage level the M/WBE will be performing itself.
3. Any agreement between a bidder or proposer and an MBE or WBE in which the bidder or proposer requires that the MBE or WBE not provide subcontracting quotations to other bidders or proposers is prohibited and shall render a bidder's bid or proposer's proposal nonresponsive. D.R.M.C. 28-63(f)
4. If a bidder/proposer is participating in a joint venture with a certified M/WBE firm, complete the Joint Venture Eligibility Form and Joint Venture Affidavit contained in this bid document/RFP.

Submit the aforementioned forms with the firm's Joint Venture Agreement, to the DSBO Director, **at least 10 working days prior to the proposal submittal**. The Joint Venture must be approved prior to the bid opening or proposal submittal by the DSBO Director. Approval by the DSBO Director includes determining the amount the Joint Venture will count towards meeting the project goal.

5. All M/WBEs listed on the Bid Form must be properly certified by the City on or before the date bids are opened in order to count towards meeting the designated goal. DSBO maintains an M/WBE Directory ("Directory"), which is a current listing of M/WBEs that have been certified by the City. A copy of the DSBO Directory is located at DSBO web site at <https://www.denvergov.org/dsbo>. Bidders are encouraged to use the Directory to assist in locating M/WBEs for the work and supplies required on the Project. Bidders are reminded that changes may be made to the Directory at anytime in accordance with the City's M/WBE Ordinance and procedures established to administer this program and a current copy of the Directory must always be used in preparing a bid. M/WBE certification or listing in the Directory is not a representation or warranty by the City as to the qualifications of any listed M/WBE.
6. In accordance with the provisions of the M/WBE Ordinance, DSBO will evaluate each bid to determine the responsiveness of the bid to the requirements of the M/WBE Ordinance. In determining whether a bidder's committed level of participation meets or exceeds the stated M/WBE goal, DSBO shall base its calculation of applicable amounts and percentages on the total base bid amount, not including any listed alternates, of each bid as follows:
 - a. The bid information provided by the agency will be used to determine the total base bid amount of each bid. Each bidder's total base bid amount will be multiplied by the M/WBE percentage established for the project to determine the exact dollar amount of required M/WBE participation for the Project. This amount will then be compared against the exact dollar amounts for the M/WBE committed for participation by the bidder. If the total dollar amount of participation listed meets or exceeds the established M/WBE dollar amount goal listed, then DSBO will determine that the goal has been met.
 - b. In addition, DSBO will determine the exact commitment percentage for each listed M/WBE by dividing the dollar amount listed for each M/WBE by the total base bid dollar amount submitted by the bidder. These individual percentages, when totaled for all listed M/WBE, will establish the total committed percentage level of M/WBE participation that the bidder must comply with during the life of the contract. In all cases, the committed percentage level of M/WBE participation must equal or exceed the assigned M/WBE goal for the Project.
 - c. In providing the exact dollar amount of participation for each listed M/WBE, a bidder should take care never to round up in determining whether or not the total of these amounts meets or exceeds the established percentage goal. The goal must be met or exceeded by dollar amounts and percentages in order for DSBO to determine that the bidder has met or exceeded the applicable M/WBE goal.
 - d. As previously mentioned, compliance with the M/WBE goal will be determined on the base bid alone. If a bid contains alternates, participation contained in any alternate will not count towards satisfaction of the Project goal. However, should any designated alternate be selected by the City for inclusion in the contract ultimately awarded, the M/WBE goal percentage level submitted at bid time, on the base bid, will also apply to the selected alternates and must be maintained for the life of the contract on the total contract amount, including any alternate work. Thus, even though such participation will not be considered in evaluating bids, bidders are urged to consider participation in preparing bids for designated alternates.
 - e. On projects where force account or allowance bid items have been included, bidders must meet the M/WBE goal percentage based upon the total base bid, including all such items that are submitted to the City. However, when a force account or allowance is designated

by the City to be either performed or purchased from a specific company, the bidder may back out the dollar amount of the force account or allowance from the total base bid and meet the M/WBE goal on the remaining reduced amount.

- f. On bids which, at the time of bid opening, are equal to or exceed Five Million Dollars (\$5,000,000.00), including any alternates which may be selected, only sixty percent (60%) of the value of the commercially useful function performed by M/WBE suppliers shall count toward satisfaction of the Project goal. On Projects under Five Million (\$5,000,000.00) the value of the commercially useful function of M/WBE supplier(s) will count at a one hundred percent (100%) level. Manufacturer's representatives and packagers shall be counted in the same manner as brokers.
 - g. In utilizing the M/WBE participation of a Broker only the bona fide commissions earned by such Broker for its performance of a commercially useful function will count toward meeting the Project goals. The bidder must separate the bona fide brokerage commissions from the actual cost of the supplies or materials provided to determine the actual dollar amount of participation that can be counted towards meeting the goal.
7. On or before the third (3rd) working day after bid opening, all of the Bidders are required to submit an executed "Letter of Intent" for each M/WBE listed on the Bid Form as a joint venture member, subcontractor, supplier, manufacturer, manufacturers' representative or broker of any tier. **An MBE or WBE Prime Bidder needs to submit a Letter of Intent for itself for self performed work**, and must identify their level of participation on the designated M/WBE participation page bound herein. A Letter of Intent shall be submitted only for the M/WBEs listed at the time of bid opening, since this is the only participation that will be counted toward satisfaction of the project goal. A form for the M/WBE Letter of Intent is included with the Bid Form. The M/WBE Letter of Intent is a written communication from the Bidder to the City evidencing an understanding that the Bidder has or will enter into a contractual relationship with the M/WBE or that its subcontractor(s) and supplier(s), manufacturer(s), manufacturers' representative(s) and broker(s) will do so. Each M/WBE Letter of Intent shall be accompanied by a copy of the City and County of Denver's M/WBE certification letter for each proposed M/WBE identified at bid time. Bidders are urged to carefully review these Letters before submission to the City to ensure that they are properly completed and executed by the appropriate parties.

Good Faith Effort.

In preparing a bid to demonstrate a good faith effort, bidders should consider the following instructions relating to compliance with the M/WBE Ordinance:

1. If the bidder or proposer has not fully met the project goal as provided in section 28-60, then it shall demonstrate that it has made good faith efforts to meet such goal. The bidder or proposer shall furnish to the director, within three (3) working days after bid opening by the City or on or before the time of the final project-specific proposal submitted to and authorized by the City pursuant to a competitive selection process, or bid selection by a private owner, a detailed statement of its good faith efforts to meet the project goal set by the director. This statement shall address each of the items in subsection (b) and any additional criteria that the director may establish by rule or regulation consistent with the purposes of this division 3. Good faith efforts must be demonstrated to be meaningful and not merely for formalistic compliance with this Division 3. The scope and intensity of the efforts will be considered in determining whether the bidder or proposer has achieved a good faith effort.
2. The statement of good faith efforts shall include a specific response and verification with respect to each of the following good faith effort categories, which may be further defined by rule or regulation. A bidder or proposer may include any additional information it believes may be relevant. Failure of a bidder or proposer to show good faith efforts as to any one (1) of the following categories shall render its overall good faith effort showing insufficient and its bid or proposal non-responsive:
 - a. If prebid or preselection meetings are scheduled by the City at which MBEs and WBEs may be informed of subcontracting or joint venture opportunities under a proposed contract to be bid, or procured pursuant to the competitive selection

process, attendance at such prebid or preselection meetings is not mandatory; however, bidders and proposers are responsible for the information provided at these meetings.

- b. The bidder or proposer must solicit through all reasonable and available means, the interest of all MBEs and WBEs certified in the scopes of work of the contract. The bidder or proposer must solicit the interest of such MBEs and WBEs within sufficient time, prior to the bid opening or date of final project-specific proposal in the case of a competitive selection process, to allow such MBEs and WBEs to respond to the solicitation. The bidder or proposer must determine with certainty if the MBEs and WBEs are interested by demonstrating appropriate steps to follow up initial solicitations.
 - c. The bidder or proposer must select portions of the work of the contract to be performed by MBEs and WBEs in order to increase the likelihood that the project goal will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MBE and WBE participation as subcontractors or joint venturers, and for bidder or proposer self-performed work, as suppliers, manufacturers, manufacturer's representatives and brokers, all reasonably consistent with industry practice, even when the bidder or proposer would otherwise prefer to perform these work items with its own forces. The bidder or proposer must identify what portions of the contract will be self-performed and what portions of the contract will be opened to solicitation of bids, proposals and quotes from MBE and WBEs. All portions of the contract not self-performed must be solicited for MBE and WBE participation. The ability or desire of a bidder or proposer to perform the work of a contract with its own forces does not relieve the bidder or proposer of the responsibility to meet the project goal or demonstrate good faith efforts to do so.
 - d. The bidder or proposer, consistent with industry practice, must provide MBEs and WBEs at a clearly stated location with timely, adequate access to and information about the plans, specifications, and requirements of the contract, including bonding and insurance requirements, if any, to assist them in responding to a solicitation.
 - e. The bidder or proposer must negotiate in good faith with interested MBEs and WBEs and provide written documentation of such negotiation with each such MBE or WBE.
 - f. For each MBE or WBE which contacted the bidder or proposer or which the bidder or proposer contacted or attempted to subcontract or joint venture with, consistent with industry practice, the bidder or proposer must supply a statement giving the reasons why the bidder or proposer and the MBE or WBE did not succeed in negotiating a subcontracting, supplier, manufacturer, manufacturer's representative, broker or joint venture agreement, as applicable.
3. The bidder or proposer must provide verification that it rejected each non-utilized MBE and WBE because the MBE or WBE did not submit the lowest bid or it was not qualified. Such verification shall include a verified statement of the amounts of all bids received from potential or utilized subcontractors, suppliers, manufacturers, manufacturer's representatives, brokers or joint venturers on the contract, whether or not they are MBEs or WBEs. In making such a determination of not being qualified, the bidder or proposer shall be guided by the definition of qualified in section 28-54(42), but evidence of lack of qualification must be based on factors other than solely the amount of the MBE's or WBE's bid. For each MBE or WBE found not to be qualified by the bidder or proposer, the verification shall include a statement giving the bidder's or proposer's reasons for its conclusion. A bidder's or proposer's industry standing, or group memberships may not be the cause of rejection of an MBE or WBE. A bidder or proposer may not reject an MBE or WBE as being unqualified without sound reasons based on a reasonably thorough investigation and assessment of the MBE's or WBE's capabilities and expertise.
4. If requested by a solicited MBE or WBE, the bidder or proposer must make reasonable efforts to assist interested MBEs and WBEs in obtaining bonding, lines of credit, or insurance as required by

the City or by the bidder or proposer, provided that the bidder or proposer need not provide financial assistance toward this effort.

5. If requested by a solicited MBE or WBE, the bidder or proposer must make reasonable efforts to assist interested MBEs and WBEs in obtaining necessary and competitively priced equipment, supplies, materials, or related assistance or services for performance under the contract, provided that the bidder or proposer need not provide financial assistance toward this effort.
6. The bidder or proposer must use the DSBO MBE/WBE directories to identify, recruit, and place MBEs and WBEs.
7. In determining whether a bidder or proposer has satisfied good faith efforts as to a project goal, the success or failure of other bidders or proposers on the contract in meeting such project goal may be considered.

Continuing Commitments.

In accordance with the provisions of the M/WBE Ordinance, the bidder agrees that it is committed to meeting either the M/WBE participation goal or the M/WBE participation set forth in its statement of good faith. This commitment must be expressly indicated on the "Commitment to MWBE SBE Participation" form included with the Bid Form. This commitment includes the following understandings:

1. The bidder understands it must maintain M/WBE goals throughout the performance of the Contract pursuant to the requirements set out in D.R.M.C. 28-72.
2. The bidder understands that it must establish and maintain records and submit regular reports, as required, which will allow the City to assess progress in achieving the M/WBE participation goal.
3. The bidder understands that if change orders or any other contract modifications are issued under the contract, the bidder shall have a continuing obligation to immediately inform DSBO in writing of any agreed upon increase or decrease in the scope of work of such contract, upon any of the bases discussed in Section 28-73 of the M/WBE Ordinance, regardless of whether such increase or decrease in scope of work has been reduced to writing at the time of notification.
4. The bidder understands that if change orders or other contract modifications are issued under the contract, that include an increase in scope of work of a contract for construction, reconstruction, or remodeling, whether by amendment, change order, force account or otherwise which increases the dollar value of the contract, whether or not such change is within the scope of work designated for performance by an M/WBE at the time of contract award, such change orders or contract modification shall be immediately submitted to DSBO for notification purposes. Those amendments, change orders, force accounts or other contract modifications that involve a changed scope of work that cannot be performed by existing project subcontractors or by the contractor shall be subject to a goal for M/WBEs equal to the original goal on the contract which was included in the bid. The contractor shall satisfy such goal with respect to such changed scope of work by soliciting new M/WBEs in accordance with Section 28-73 of the M/WBE Ordinance as applicable, or the contractor must show each element of modified good faith set out in Section 28-75(c) of the M/WBE Ordinance. The contractor shall supply to the director the documentation described in Section 28-75(c) of the M/WBE Ordinance with respect to the increased dollar value of the contract.

All bidders are charged with knowledge of and are solely responsible for complying with each and every provision of the M/WBE Ordinance in making a bid and, if awarded, in performing the work described in the Contract Documents. Failure to comply with these provisions could constitute cause for rejection of a bid or subject the selected contractor to sanctions set forth in the M/WBE Ordinance. These instructions are intended only to generally assist the bidder in preparing and submitting a compliant bid. Should any questions arise regarding specific circumstances, bidders must consult the M/WBE Ordinance or contact the Project's designated DSBO representative at (720) 913-1999.

IB- 27 DISCLOSURE OF INFORMATION

All submissions and other materials provided or produced pursuant to this Invitation for Bids may be subject to the Colorado Open Records Law, C.R.S. 24-72-201, et seq. As such, bidders are urged to review these

disclosure requirements and any exceptions to disclosure of information furnished by another party and, prior to submission of a bid to the City, appropriately identify materials that are not subject to disclosure. In the event of a request to the City for disclosure of such information, the City shall advise the bidder of such request to give the bidder an opportunity to object to the disclosure of designated confidential materials furnished to the City. In the event of the filing of a lawsuit to compel such disclosure, the City will tender all such material to the court for judicial determination of the issue of disclosure and each bidder agrees to intervene in such lawsuit to protect and assert its claims of privilege against disclosure of such material. Each bidder further agrees to defend, indemnify and save and hold harmless the City, its officers, agents and employees, from any claim, damages, expense, loss or costs arising out of the bidder's intervention to protect and assert its claims of privilege against disclosure under the Open Records Law including, but not limited to, prompt reimbursement to the City of all reasonable attorney fees, costs and damages that the City may incur directly or may be ordered to pay by such court.

IB-28 GENERAL BIDDING INFORMATION

Bidders are instructed to contact the Contract Administrator designated below for this Project for pre-bid, post-bid and general City bidding information. Bidders can also visit www.work4denver.com for information, both general and project specific. The Contract Administrator assigned to this project is David Relaford who can be reached via email at pw.procurement@denvergov.org.

IB-29 PAYMENT PROCEDURE REQUIREMENTS

Bidder recognizes and agrees that it shall be required to use the Textura® Construction Payment Management System ("Textura") for this Project to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura. All fees associated with Textura are to be paid by the bidder for billings for work performed. Bidders are required, when preparing a bid, to enter the price of Textura on the line provided for the service. The fee is all inclusive of all subcontractor, project and subscription fees associated with Textura. The bidder will calculate the fee based on their total bid (not including any alternates, if applicable) and the table below, and then include it on the line item provided in the bid form labeled "Textura® Construction Payment Management System Fee". This expense becomes part of the contract and billable to the City. All costs including, but not limited to, costs associated with training, entering data, and/or utilizing Textura other than the Textura Construction Payment Management System Fee are overhead and shall not be reimbursed by the City. Bidder will be responsible for any tax on the Textura fee. As with other taxes, the City will not reimburse bidder for this cost and therefore this cost should be included in bidder's bid. Textura will invoice the awarded bidder directly.

Project Value	Project Fee (GC + Sub Usage)
\$100,000 - 249,999.99	\$780
\$250,000 - 499,999.99	\$1,625
\$500,000 - 999,999.99	\$3,250
\$1,000,000 - 2,999,999.99	\$5,850
\$3,000,000 - 4,999,999.99	\$9,100
\$5,000,000 - 9,999,999.99	\$12,220
\$10,000,000 - 19,999,999.99	\$20,345
\$20,000,000 - 49,999,999.99	\$32,500
\$50,000,000 - 99,999,999.99	\$48,750
\$100,000,000 - 199,999,999.99	\$69,095
\$200,000,000 - 299,999,999.99	\$85,345
\$300,000,000 - 399,999,999.99	\$109,720
\$400,000,000 - 499,999,999.99	\$142,220
\$500,000,000 - 999,999,999.99	\$162,500
\$1,000,000,000 - 1,999,999,999.99	\$345,345
\$2,000,000,000 - 4,999,999,999.99	\$650,000
\$5,000,000,000 - 9,999,999,999.99	\$1,015,625
\$10,000,000,000 or greater	\$1,503,125

**RULES AND REGULATIONS
REGARDING
EQUAL EMPLOYMENT OPPORTUNITY**

Promulgated and adopted by the Manager of Public Works pursuant to and by authority of Article III, Division 2, Chapter 28 of the Revised Municipal Code of the City and County of Denver, and for the purpose of insuring that contractors, subcontractors and suppliers soliciting and receiving compensation for contract work from or through the City and County of Denver provide equal opportunity in employment without regard to race, color, creed, sex, national origin, age, religion, marital status, political opinion or affiliation or mental or physical handicap and meet certain requirements for the hiring, training, promotion, and treatment during employment of members of ethnic groups subject to differential treatment, including persons of African descent (Black), Spanish-surnamed (Hispanic), Asian-American and American Indian Groups.

RULE I - DEFINITIONS

- A. "City" means the City and County of Denver.
- B. "Manager" shall mean the Manager of Public Works for the City and County of Denver.
- C. "Contract" means a contract entered into with the City and County of Denver, financed in whole or in part by local resources or funds of the City and County of Denver, for the construction of any public building or prosecution or completion of any public work.
- D. "Contractor" means the original party to a contract with the City and County of Denver, also referred to as the "general" or "prime" contractor.
- E. "Director" means the Director of the Division of Small Business Opportunity.
- F. "Subcontractor" means any person, company, association, partnership, corporation, or other entity, which assumes by subordinate agreement some or all of the obligations of the general or prime contractor.
- G. The phrase "Bidding Specifications" as used in Article III, Division 2 of Chapter 28 of the Revised Municipal Code shall include BID CONDITION, INVITATION TO BID, and NOTICE OF PROPOSAL.
- H. "Affirmative Action Program" means a set of specific and result-oriented procedures or steps to which a contractor commits himself to apply every good faith effort to employ members of ethnic minority groups, to include persons of African descent (Black), Spanish surnamed (Hispanic), Asian-American, American Indians, and persons with mental or physical handicap.
- I. "Division of Small Business Opportunity" means the City agency established pursuant to Article III, Division 1 of Chapter 28 of the Denver Revised Municipal Code.

RULE II - NOTICE OF HEARING

When results of conciliation efforts are unsatisfactory to the Manager and he is informed in accordance with Article III, Division 2 of Chapter 28 of the Revised Municipal code that a contractor or subcontractor has apparently failed to meet affirmative action and equal employment opportunity requirements after a reasonable period of notice to correct deficiencies, the Manager will, prior to imposition of any sanctions, afford the general contractor a hearing in order to

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determine whether the contractor or his subcontractors have failed to comply with the affirmative action and equal employment opportunity requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code or of the contract. Written notice of such hearing shall be delivered personally or sent by certified mail, return receipt requested, to the contractor and to any subcontractor involved, at least ten (10) days prior to the date scheduled for the hearing.

RULE III - HEARING

- A. Contractors will appear at hearings and may be represented by counsel, and may present testimony orally and other evidence.
- B. Hearings shall be conducted by one or more hearing examiners designated as such by the Manager.
- C. The Director of the Division of Small Business Opportunity may participate in hearings as a witness.
- D. Hearings shall be held at the place specified in the notice of hearing.
- E. All oral testimony shall be given under oath or affirmation and a record of such proceedings shall be made.
- F. All hearings shall be open to the public.
- G. The hearing officer shall make recommendations to the Manager who shall make a final decision.

REGULATIONS

REGULATION NO. 1 - ORDINANCE:

The Rules and Regulations of the Manager shall be inserted in the bidding specifications for every contract for which bidding is required.

REGULATION NO. 2 - EXEMPTIONS:

Each contract and subcontract, regardless of the dollar amount, shall be subject to affirmative action requirements unless specifically exempted in writing individually by the Manager. Exemptions apply only to "affirmative action" in equal employment opportunity, and are not to be construed as condonation in any manner of "discrimination" or "discriminatory practices" in employment because of race, color, creed, sex, age, national origin, religion, marital status, political opinion or mental or physical handicap.

REGULATION NO. 3 - DIRECTOR OF CONTRACT COMPLIANCE:

The Director of the Division of Small Business Opportunity shall perform the duties assigned to such official by Article III, Division 2 Chapter 28 of the Revised Municipal Code and by the Manager. (1) The Director of the Division of Small Business Opportunity or designated representatives shall inform bidders and contractors of affirmative action procedures, programs, and goals in accordance with the Ordinance at pre-bid and pre-construction conference; (2) make regular on-site inspections; (3) supply contractors and subcontractors with report forms to be completed by them when requested, and furnished to the Director of the Division of Small Business Opportunity; and (4) review payroll records, employment records and practices of general contractors and their subcontractors and suppliers during the performance of any contract. The Director of the Division of Small Business Opportunity shall promptly report apparent affirmative action deficiencies to the Manager.

REGULATION NO. 4 - GOALS AND TIMETABLES:

In general, goals and timetables should take into account anticipated vacancies and the availability of skills in the market place from which employees should be drawn. In addition, where discrimination in employment by a general contractor or any of his subcontractors is indicated, a corrective action program will take into account the need by the general contractor and his subcontractors to correct past discriminatory practices and reach goals of minority manpower utilization on a timely basis through such recruiting and advertising efforts as are necessary and appropriate.

REGULATION NO. 5 - AWARD OF CONTRACTS:

It shall be the responsibility of the Director of the Division of Small Business Opportunity to determine the affirmative action capability of bidders, contractors and subcontractors and to recommend to the Manager the award of contracts to those bidders, contractors and subcontractors and suppliers who demonstrate the ability and willingness to comply with the terms of their contract.

REGULATION NO. 6 - PUBLICATION AND DUPLICATION:

Copies of these Rules and Regulations as amended by the Manager from time to time, shall as soon as practicable and after Notice being published will be made a part of all City Contracts.

REGULATION NO. 7 - NOTICE TO PROCEED:

Prior to issuance of the Notice to Proceed, a sign-off will be required of the Director of the Division of Small Business Opportunity or his designee.

REGULATION NO. 8 - CONTRACTS WITH SUBCONTRACTORS:

To the greatest extent possible, the contractor shall make a good faith effort to contract with minority contractors, subcontractors and suppliers for services and supplies by taking affirmative actions, which include but are not limited to the following:

1. Advertise invitations for subcontractor bids in minority community news media.
2. Contact minority contractor organizations for referral of prospective subcontractors.
3. Purchase materials and supplies from minority material suppliers.

REGULATION NO. 9 - AGENCY REFERRALS:

It shall be no excuse that the union with which the contractor or subcontractor has an agreement providing for referral, exclusive or otherwise, failed to refer minority employees.

REGULATION NO. 10 - CLAUSES:

The Manager shall include the appropriate clauses in every contract and the contractor shall cause to be inserted in every subcontract the appropriate clauses:

1. APPENDIX A: City and County of Denver Equal Opportunity Clause - ALL CONTRACTS funded only with City and County of Denver monies.
2. APPENDIX B: Equal Opportunity Clause (11246) - ALL FEDERAL ASSISTED.
3. APPENDIX C: Section 3 - Assurance of Compliance - HUD ASSISTED PROJECTS.
4. APPENDIX D: Section 3 - Clause - HUD ASSISTED PROJECTS.

All amendments to the appendices shall be included by reference.

REGULATION NO. 11 - SHOW CAUSE NOTICES:

When the Manager has reasonable cause to believe that a contractor has violated Article III, Division 2 of Chapter 28 of the Denver Revised Municipal Code, he may issue a notice requiring the contractor to show cause, within fifteen (15) days why enforcement procedures, or other appropriate action to insure compliance, should not be instituted.

REGULATION NO. 12 - BID CONDITIONS - AFFIRMATIVE ACTION REQUIREMENTS - EQUAL EMPLOYMENT OPPORTUNITY:

1. APPENDIX E: The Bid Conditions - Affirmative Action Requirements - Equal Employment Opportunity as amended and published by the U.S. Department of Labor Employment Standards Administration, Office of Federal Contract Compliance, shall be inserted verbatim for bidding specification for every non-exempt contract involving the use of Federal funds.
2. APPENDIX F: The Bid Conditions - Affirmative Action Requirements - Equal Employment Opportunity as published by the Department of Public Works, City and County of Denver, shall be inserted verbatim as bidding specifications for every non-exempt contract using City funds.

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

APPENDIX A

**CITY AND COUNTY OF DENVER EQUAL OPPORTUNITY CLAUSE -
ALL CONTRACTS**

1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap.
3. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided, advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. Each Contractor will comply with all provisions of Article III, Division 2 of Chapter 28 of the Revised Municipal Code, and the rules, regulations, and relevant orders of the Manager and the Director.
5. The Contractor will furnish all information and reports required by Article III, Division 2 of Chapter 28 of the Revised Municipal Code, and by rules, regulations and orders of the Manager and Director or pursuant thereto, and will permit access to his books, records, and accounts by the Manager, Director, or their designee for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further City contracts in accordance with procedures authorized in Article III, Division 2, Chapter 28 of the Revised Municipal Code, or by rules, regulations, or order of the Manager.
7. The Contractor will include Regulation 12, Paragraph 2 and the provisions of paragraphs (1) through (6) in every subcontract of purchase order unless exempted by rules, regulations, or orders of the Manager issued pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, so that such provisions will be binding on each subcontractor or supplier. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

The applicant further agrees to be bound by the above equal opportunity clauses with respect to its own employment practices when it participates in City contracts. The Contractor agrees to assist and cooperate actively with the Manager and the Director in obtaining compliance of subcontractors and suppliers with the equal opportunity clause and the rules, regulations and relevant orders of the Manager, and will furnish the Manager and the Director such information as they may require for the supervision of compliance, and will otherwise assist the Manager and Director in the discharge of the City's primary responsibility for securing

compliance. The Contractor further agrees to refrain from entering into any contract or contract modification subject to Article III, Division 2 of Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who has not demonstrated eligibility for, City contracts.

The Contractor will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the Manager and Director. In addition, the Contractor agrees that failure or refusal to comply with these undertakings the Manager may take any or all of the following actions:

- A. Cancellation, termination, or suspension in whole or in part of this contract.
- B. Refrain from extending any further assistance to the applicant under the program with respect to which the failure occurred until satisfactory assurance of future compliance has been received from such applicant.
- C. Refer the case to the City Attorney for appropriate legal proceedings.

SUBCONTRACTS: Each prime Contractor or Subcontractor shall include the equal opportunity clause in each of its subcontracts.

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

APPENDIX F

AFFIRMATIVE ACTION REQUIREMENTS

EQUAL EMPLOYMENT OPPORTUNITY

For All Non-Exempt Construction Contracts to Be Awarded by the
City and County of Denver, Department of Public Works.

NOTICE

EACH BIDDER, CONTRACTOR OR SUBCONTRACTOR (HEREINAFTER THE CONTRACTOR) MUST FULLY COMPLY WITH THE REQUIREMENTS OF THESE BID CONDITIONS AS TO EACH CONSTRUCTION TRADE IT INTENDS TO USE ON THIS CONSTRUCTION CONTRACT, AND ALL OTHER CONSTRUCTION WORK (BOTH CITY AND NON-CITY) IN THE DENVER AREA DURING THE PERFORMANCE OF THIS CONTRACT OR SUBCONTRACT. THE CONTRACTOR COMMITS ITSELF TO THE GOALS FOR MINORITY MANPOWER UTILIZATION, AS APPLICABLE, AND ALL OTHER REQUIREMENTS, TERMS AND CONDITION OF THESE BID CONDITIONS BY SUBMITTING A PROPERLY SIGNED BID.

THE CONTRACTOR SHALL APPOINT A COMPANY EXECUTIVE TO ASSUME THE RESPONSIBILITY FOR THE IMPLEMENTATION OF THE REQUIREMENTS, TERMS AND CONDITIONS OF THESE BID CONDITIONS.

/s/ _____

Manager of Public Works
City and County of Denver

A. REQUIREMENTS - AN AFFIRMATIVE ACTION PLAN:

Contractors shall be subject to the provisions and requirements of these bid conditions including the goals and timetables for minority* and female utilization, and specific affirmative action steps set forth by the Division of Small Business Opportunity (DSBO). The contractor's commitment to the goals for minority, and female utilization as required constitutes a commitment that it will make every good faith effort to meet such goals.

1. GOALS AND TIMETABLES:

The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade are as follows:

GOALS FOR MINORITY PARTICIPATION FOR EACH TRADE	GOALS FOR FEMALE PARTICIPATION FOR EACH TRADE
From January 1, 1982 to Until Further Notice	From January 1, 1982 to Until Further Notice
21.7% - 23.5%	6.9%

The goals for minority and female utilization above are expressed in terms of hours of training and employment as a proportion of the total number of hours to be worked by the contractor's aggregate workforce, which includes all supervisory personnel, in each trade, on all projects for the City and County of Denver during the performance of its contract (i.e., The period beginning with the first day of work on the City and County of Denver funded construction contract and ending with the last day of work).

The hours of minority and female employment and training must be substantially uniform throughout the length of the contract in each trade and minorities and females must be employed evenly on each of a contractor's projects. Therefore, the transfer of minority or female employees from contractor to contractor or from project to project for the purpose of meeting the contractor's goals shall be a violation of these Bid Conditions.

If the Contractor counts the nonworking hours of apprentices they must be employed by the Contractor during the training period; the Contractor must have made a commitment to employ apprentices at the completion of their training subject to the availability of employment opportunities; and the apprentices must be trained pursuant to training programs approved by the Bureau of Apprenticeship and Training.

* "Minority" is defined as including, Blacks, Spanish Surname Americans, Asian Americans, and American Indians, and includes both men and minority women.

2. SPECIFIC AFFIRMATIVE ACTION STEPS:

No contractor shall be found to be in noncompliance solely on account of its failure to meet its goals, but will be given an opportunity to demonstrate that the contractor has instituted all the specific affirmative action steps specified and has made every good faith effort to make these steps work toward the attainment of its goals within the timetables, all to the purpose of expanding minority and female utilization in its aggregate workforce. A contractor, who fails to comply with its obligation under the Equal Opportunity Clause of its contract and fails to achieve its commitments to the goals for minority and female utilization has the burden of proving that it has engaged in an Affirmative Action Program directed at increasing minority and female utilization and that such efforts were at least as extensive and as specific as the following:

- a. The Contractor should have notified minority and female organizations when employment opportunities were available and should have maintained records of the organization's response.

- b. The Contractor should have maintained a file of the names and addresses of each minority and female referred to it by any individual or organization and what action was taken with respect to each such referred individual, and if the individual was not employed by the Contractor, the reasons. If such individual was sent to the union hiring hall for referral and not referred back by the union or if referred, not employed by the Contractor, the file should have documented this and their reasons.
- c. The Contractor should have promptly notified the Department of Public Works, and the Division of Small Business Opportunity when the union or unions with which the Contractor has collective bargaining agreements did not refer to the contractor a minority or female sent by the contractor, or when the Contractor has other information that the union referral process has impeded efforts to meet its goals.
- d. The Contractor should have disseminated its EEO policy within its organization by including it in any employee handbook or policy manual; by publicizing it in company newspapers and annual reports and by advertising such policy at reasonable intervals in union publications. The EEO policy should be further disseminated by conducting staff meetings to explain and discuss the policy; by posting of the policy; and by review of the policy with minority and female employees.
- e. The Contractor should have disseminated its EEO policy externally by informing and discussing it with all recruitment sources; by advertising in news media, specifically including minority and female news media; and by notifying and discussing it with all subcontractors.
- f. The Contractor should have made both specific and reasonably recurrent written and oral recruitment efforts. Such efforts should have been directed at minority and female organizations, schools with substantial minority and female enrollment, and minority and female recruitment and training organizations within the Contractor's recruitment area.
- g. The Contractor should have evidence available for inspection that all tests and other selection techniques used to select from among candidates for hire, transfer, promotion, training, or retention are being used in a manner that does not violate the OFCCP Testing Guidelines in 41 CFR Part 60-3.
- h. The Contractor should have made sure that seniority practices and job classifications do not have a discriminatory effect.
- i. The Contractor should have made certain that all facilities are not segregated by race.
- j. The Contractor should have continually monitored all personnel activities to ensure that its EEO policy was being carried out including the evaluation of minority and female employees for promotional opportunities on a quarterly basis and the encouragement of such employees to seek those opportunities.
- k. The Contractor should have solicited bids for subcontracts from available minority and female subcontractors engaged in the trades covered by these Bid Conditions, including circulation of minority and female contractor associations.

NOTE:

The Director and the Division of Small Business Opportunity will provide technical assistance on questions pertaining to minority and female recruitment sources, minority and female community organizations, and minority and female news media upon receipt of a request for assistance from a contractor.

3. **NON - DISCRIMINATION:**

In no event may a contractor utilize the goals and affirmative action steps required in such a manner as to cause or result in discrimination against any person on account of race, color, religion, sex, marital status, national origin, age, mental or physical handicap, political opinion or affiliation.

4. **COMPLIANCE AND ENFORCEMENT:**

In all cases, the compliance of a contractor will be determined in accordance with its obligations under the terms of these Bid Conditions. All contractors performing or to perform work on projects subject to these Bid Conditions hereby agree to inform their subcontractors in writing of their respective obligations under the terms and requirements of these Bid Conditions, including the provisions relating to goals of minority and female employment and training.

B. CONTRACTORS SUBJECT TO THESE BID CONDITIONS:

In regard to these Bid Conditions, if the Contractor meets the goals set forth therein or can demonstrate that it has made every good faith effort to meet these goals, the Contractor shall be presumed to be in compliance with Article III, Division 2 of Chapter 28 of the Revised Municipal Code, the implementing regulations and its obligations under these Bid Conditions. In the event, no formal sanctions or proceedings leading toward sanctions shall be instituted unless the contracting or administering agency otherwise determines that the contractor is violating the Equal Opportunity Clause.

1. Where the Office of Contract Compliance finds that a contractor failed to comply with the requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code or the implementing regulations and the obligations under these Bid Conditions, and so informs the Manager, the Manager shall take such action and impose such sanctions, which include suspension, termination, cancellation, and debarment, as may be appropriate under the Ordinance and its regulations. When the Manager proceeds with such formal action it has the burden of proving that the Contractor has not met the goals contained in these Bid Conditions. The Contractor's failure to meet its goals shall shift to it the requirement to come forward with evidence to show that it has met the good faith requirements of these Bid Conditions.
2. The pendency of such proceedings shall be taken into consideration by the Department of Public Works in determining whether such contractor can comply with the requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code, and is therefore a "responsible prospective contractor".
3. The Division of Small Business Opportunity shall review the Contractor's employment practices during the performance of the contract. If the Division of Small Business Opportunity determines that the Contractor's Affirmative Action Plan is no longer an acceptable program, the Director shall notify the Manager.

C. OBLIGATIONS APPLICABLE TO CONTRACTORS:

It shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority or female employees. Discrimination in referral for employment, even if pursuant to provisions of a collective bargaining agreement, is prohibited by the National Labor Relations Act, as amended, Title VI of the Civil Rights Act of 1964, as amended, and Article III, Division 2 of Chapter 28 of the Revised Municipal Code. It is the policy of the Department of Public Works that contractors have a responsibility to provide equal employment opportunity, if they wish to participate in City and County of Denver contracts. To the extent they have delegated the responsibility for some of their employment practices to a labor organization and, as a result, are prevented from meeting their obligations pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, such Contractors cannot be considered to be in compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, or its implementing rules and regulations.

D. GENERAL REQUIREMENTS:

Contractors are responsible for informing their subcontractors in writing regardless of tier, as to their respective obligations. Whenever a Contractor subcontracts a portion of work in any trade covered by these Bid Conditions, **it shall include these Bid Conditions in such subcontracts and each subcontractor shall be bound by these Bid Conditions to the full extent as if it were the prime contractor.** The Contractor

shall not, however, be held accountable for the failure of its subcontractors to fulfill their obligations under these Bid Conditions. However, the prime contractor shall give notice to the Director of any refusal or failure of any subcontractor to fulfill the obligations under these Bid Conditions. A subcontractor's failure to comply will be treated in the same manner as such failure by a prime contractor.

1. Contractors hereby agree to refrain from entering into any contract or contract modification subject to Article III, Division 2, Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who is determined not to be a "responsive" bidder for the City and County of Denver contracts pursuant to the Ordinance.
2. The Contractor shall carry out such sanctions and penalties for violation of these Bid Conditions and the Equal Opportunity Clause including suspension, termination and cancellation of existing subcontracts and debarment from future contracts as may be ordered by the Manager pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code and its implementing regulations.
3. Nothing herein is intended to relieve any contractor during the term of its contract from compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, and the Equal Opportunity Clause of its contract with respect to matters not covered in these Bid Conditions.
4. Contractors must keep such records and file such reports relating to the provisions of these Bid Conditions as shall be required by the Office of Contract Compliance.
5. Requests for exemptions from these Bid Conditions must be made in writing, with justification, to the Manager of Public Works, 201 W. Colfax, Dept. 608, Denver, Colorado 80202, and shall be forwarded through and with the endorsement of the Director.

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

CONTRACT NO. 201948771

KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY

CONTRACT

THIS CONTRACT AND AGREEMENT, made and entered into by and between the City and County of Denver, a municipal corporation of the State of Colorado, hereinafter referred to as the "City," party of the first part, and , hereinafter referred to as the "Contractor," party of the second part,

**Silva Construction, Inc.
154 Cisne Circle
Brighton, CO 80601**

WITNESSETH, commencing on **April 16, 2019**, and for at least three (3) days the City advertised that sealed bids would be received for furnishing all labor, tools, supplies, equipment, materials, and everything necessary and required for the following:

**CONTRACT NO. 201948771
KNOX COURT & W. 35TH AVE NEIGHBORHOOD
BIKEWAY**

WHEREAS, bids pursuant to said advertisement have been received by the Manager of Public Works, who has recommended that a Contract for said work be made and entered into with the above named Contractor who was the lowest, responsive, qualified bidder therefore, and

WHEREAS, said Contractor is now willing and able to perform all of said work in accordance with said advertisement and its bid.

NOW THEREFORE, in consideration of the compensation to be paid the Contractor, the mutual agreements hereinafter contained, and subject to the terms hereinafter stated, it is mutually agreed as follows:

1. CONTRACT DOCUMENTS

It is agreed by the parties hereto that the following list of documents, instruments, technical specifications, plans, drawings and other materials which are attached hereto and bound herewith, incorporated herein by reference or otherwise referenced in these documents constitute and shall be referred to either as the "Contract Documents" or the "Contract," and all of said documents, instruments, technical specifications, Plans, Drawings and other materials taken together as a whole constitute the Contract between the parties hereto, and they are as fully a part of this agreement as if they were set out verbatim and in full herein:

*Advertisement of Notice of Invitation for Bids
Instructions to Bidders
Commitment to M/WBE Participation
Article III, Divisions 1, 2, and 3 of Chapter 28, D.R.M.C.
Bid Bond
Addenda (as applicable)*

Equal Employment Opportunity Provisions (Appendix A and Appendix F)
Bid Form
Contract Form
General Contract Conditions
Special Contract Conditions
Performance and Payment Bond
Notice to Apparent Low Bidder
Notice to Proceed
Contractor's Certification of Payment Form
Final/Partial Lien Release Form
Certificate of Contract Release
Change Orders (as applicable)
Federal Requirements (as applicable)
Prevailing Wage Rate Schedule(s)
Technical Specifications
Contract Drawings
Accepted Shop Drawings

2. SCOPE OF WORK

The Contractor agrees to and shall furnish all labor, tools, supplies, equipment, materials and everything necessary for and required to do, perform and complete all of the Work described, drawn, set forth, shown and included in said Contract Documents.

3. TERMS OF PERFORMANCE

The Contractor agrees to undertake the performance of the Work under this Contract within ten (10) days after being notified to commence work by issuance of a Notice to Proceed in substantially the form contained herein from the Manager and agrees to fully complete said Work within 180 (One Hundred Eighty) consecutive calendar days from the effective date of said Notice, plus such extension or extensions of time as may be granted in accordance with the provisions of the General Contract Conditions and any applicable Special Contract Conditions.

4. TERMS OF PAYMENT

The City agrees to pay the Contractor for the performance of all of the Work required under this Contract, and the Contractor agrees to accept as the Contractor's full and only compensation therefore, such sum or sums of money as may be proper in accordance with the price or prices set forth in the Contractor's Bid Form hereto attached and made a part hereof for bid item numbers 201-00000 through 630 (Fifty-Eight [58]) total bid items which includes (Three [3]) Allowances, plus the Add Alt 1, the total estimated cost thereof being: Nine Hundred and One Thousand, Two Hundred and Seventeen Dollars and Fifty Cents (\$901,217.50). Adjustments to said Contract Amount and payment of amounts due hereunder shall be made in accordance with the provisions of the General Contract Conditions and any applicable Special Contract Conditions.

5. NO DISCRIMINATION IN EMPLOYMENT

In connection with the performance of work under this contract, the Contractor may not refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender identity or gender expression, marital status, or physical or mental disability. The Contractor shall insert the foregoing provision in all subcontracts.

6. COMPLIANCE WITH M/WBE REQUIREMENT

This Contract is subject to all applicable provisions of Divisions 1 and 3 of Article III, of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 – 28-36 and 28-52 – 28-90 D.R.M.C. and referred to in this Contract as the "M/WBE Ordinance". Without limiting the general applicability of the foregoing, the Contractor acknowledges its continuing duty, pursuant to Sections 28-72, 28-73 and 28-75 of the D.R.M.C., to maintain throughout the duration of this Contract, compliance with the level of minority and Woman business enterprise participation, upon which the City approved the award of this Contract to the Contractor and the Contractor further acknowledges that failure to maintain such participation commitments or otherwise comply with the requirements of the M/WBE Ordinance shall subject the

provision or in the M/WBE Ordinance shall negate the City's right to prior approval of subcontractors, or substitutes therefore, under this Contract

7. WAGE RATE REQUIREMENTS

In performance of all Work hereunder, the Contractor agrees to comply with and be bound by all requirements and conditions of the City's Payment of Prevailing Wages Ordinance, Sections 20-76 through 20-79, D.R.M.C. and any determinations made by the City pursuant thereto as well as the City's Minimum Wage Protections Sections 20-82 through 20-84 D.R.M.C. and any determinations made by the City pursuant thereto. In the event a covered worker falls under both ordinances, Contractor shall pay the greater of the two rates.

8. APPLICABILITY OF LAWS

The Agreement between the Contractor and the City shall be deemed to have been made in the City and County of Denver, State of Colorado and shall be subject to, governed by, and interpreted and construed by or in accordance with the laws of the State of Colorado and the Charter, Revised Municipal Code, Rules, Regulations, Executive Orders and fiscal rules of the City. As such, the Contractor shall at all times comply with the provisions of the Charter, Revised Municipal Code, Rules, Regulations, Executive Orders and fiscal rules of the City, and those State of Colorado and Federal Laws, Rules and Regulations, which in any manner limit, control or apply to the actions or operations of the Contractor, any subcontractors, employees, agents or servants of the Contractor engaged in the Work or affecting the materials and equipment used in the performance of the Work, as the same may be, from time to time, promulgated, revised or amended. The Charter and Revised Municipal Code of the City and County of Denver, as the same may be amended from time to time, are hereby expressly incorporated into this Agreement as if fully set out herein by this reference.

9. APPROPRIATION

The amount of money, which has been appropriated and encumbered for the purpose of this contract, to date, is equal to or in excess of the Contract Amount. The Manager, upon reasonable written request, will advise the Contractor in writing of the total amount of appropriated and encumbered funds, which remain available for payment for all Work under the Contract.

The issuance of any change order or other form or order or directive by the City which would cause the aggregate payable under the contract to exceed the amount appropriated for the contract is expressly prohibited. In no event shall the issuance of any change order or other form of order or directive by the City be considered valid or binding if it requires additional compensable work to be performed, which work will cause the aggregate amount available under the Contract to exceed the amount appropriated and encumbered for this Contract, unless and until such time as the Contractor has been advised in writing by the Manager that a lawful appropriation, sufficient to cover the entire cost of such additional work, has been made.

It shall be the responsibility of the Contractor to verify that the amounts already appropriated for this Contract are sufficient to cover the entire cost of such work, and any work undertaken or performed in excess of the amount appropriated is undertaken or performed in violation of the terms of this contract, without the proper authorization for such work, and at the Contractor's own risk.

10. APPROVALS

In the event this Contract calls for the payment by the City of five hundred thousand dollars (\$500,000.00) or more, approval by the Board of Councilmen of the City and County of Denver, acting by ordinance, in accordance with Section 3.2.6 of the Charter of the City and County of Denver, is and shall be an express condition precedent to the lawful and binding execution and effect and performance of this contract.

11. ASSIGNMENT

The Contractor shall not assign any of its rights, benefits, obligations or duties under this Contract except upon the prior written consent and approval of the Manager to such assignment.

12. DISPUTES RESOLUTION PROCESS

It is the express intention of the parties to this Contract that all disputes of any nature whatsoever regarding the Contract including, but not limited to, any claims for compensation or damages arising out of breach or default under this Contract, shall be resolved by administrative hearing pursuant to the provisions of Section 56-106, D.R.M.C., or, as applicable, Section 28-33 D.R.M.C. for Minority and Woman Business Enterprise

disputes. The Contractor expressly agrees that this dispute resolution process is the only dispute resolution mechanism that will be recognized by the parties for any claims put forward by the Contractor, notwithstanding any other claimed theory of entitlement on the part of the Contractor or its subcontractors or suppliers.

13. CONTRACT BINDING

It is agreed that this Contract shall be binding on and inure to the benefit of the parties hereto, their heirs, executors, administrators, assigns and successors.

14. PARAGRAPH HEADINGS

The captions and headings set forth herein are for convenience of reference only and shall not be construed so as to define or limit the terms and provisions hereof.

15. SEVERABILITY

It is understood and agreed by the parties hereto that, if any part, term, or provision of this Contract, except for the provisions of this Contract requiring prior appropriation and limiting the total amount to be paid by the City, is by the courts held to be illegal or in conflict with any law of the State of Colorado, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular part, term or provision held to be invalid.

16. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS:

Contractor consents to the use of electronic signatures by the City. The Agreement, and any other documents requiring a signature hereunder, may be signed electronically by the City in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Agreement solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Agreement in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

Contract Control Number: PWADM-201948771-00

Vendor Name: Silva Construction, Inc.

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

Attorney for the City and County of
Denver

By _____

By _____

By _____



Contract Control Number: PWADM-201948771-00

Contractor Name: Silva Construction, Inc.

By: Jose Silva

Name: Jose Silva
(please print)

Title: President
(please print)

ATTEST: [if required]

By: [Signature]

Name: Jose Luis Silva Villalobos
(please print)

Title: Secretary
(please print)



**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

General Contract Conditions

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**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

SPECIAL CONTRACT CONDITIONS

SC-1 CONSTRUCTION SPECIFICATIONS

Except as amended herein or in the attached Technical Specifications, all Work performed under the terms of this Contract shall be governed by the applicable provisions of the following latest editions:

City and County of Denver:

Standard Specifications for Construction, GENERAL CONTRACT CONDITIONS, 2011 Edition.

Transportation Standards and Details for the Engineering Division

City and County of Denver Traffic Standard Drawings

Wastewater Management Division

- Standard Detail Drawings

- Public Works Wastewater Capital Projects Management Standard Construction Specifications

Colorado Department of Transportation:

*Standard Specifications for Road and Bridge Construction
(Sections 200 through 700 of the 2011 Edition)*

Federal Highway Administration:

Manual on Uniform Traffic Control Devices for Streets & Highways (MUTCD)

Building & Fire Codes:

Building Code of the City and County of Denver

(International Building Code 2015 Series, City and County of Denver Amendments 2016)

National Fire Protection Association Standards

(As referenced in the Building Code of the City and County of Denver)

The aforementioned City and County of Denver documents are available for review at the Capital Projects Management Office, 201 W. Colfax Ave., Dept. 506, (5th floor), Denver, CO 80202. The *Standard Specifications for Construction, GENERAL CONTRACT CONDITIONS* is available at: <https://www.denvergov.org/content/denvergov/en/contract-administration/contractor-resources.html>. *Transportation Standards and Details for the Engineering Division* and the *Wastewater Management Division - Standard Detail Drawings*, are available at <http://www.denvergov.org>.

The "*Colorado Department of Transportation Standard Specifications for Road and Bridge Construction*" is available for review on CDOT's website at <http://www.coloradodot.info/> and can be purchased from the Colorado Department of Transportation.

The *Manual on Uniform Traffic Control Devices for Streets & Highways* is available for review at the Federal Highway Administration Website at: www.fhwa.dot.gov, The FHWA website also contains purchasing information.

SC-2 DEPUTY MANAGER / CITY ENGINEER

General condition 109 DEPUTY MANAGER is hereby deleted in its entirety and replaced with the following:

The "Deputy Manager" means the official who reports directly to the Manager and exercises supervisory responsibility in the City agency defined in Title 2 herein that is responsible for the Project. The Manager hereby designates the City Engineer as the Deputy Manager for purposes of this Contract. The City Engineer shall have responsibility for this Project and shall undertake all duties, responsibilities, rights and authority, including specific actions and decisions, delegated to the Deputy Manager under the various terms and conditions of this Contract.

SC-3 ENGINEERING DIVISION / CITY ENGINEER

The Engineering Division is a unit of the Department of Public Works and is supervised by the City Engineer, who is subordinate to the Manager of Public Works. This Division is responsible for the planning, design, construction, operation and maintenance of all of the City's transportation facilities and the planning, design and construction of all of the City's wastewater facilities, except for the City's Municipal Airport System. All other references to the Transportation Division or the Deputy Manager of Public Works for Transportation are deleted and replaced with references to the Engineering Division and City Engineer, respectively.

SC-4 WASTEWATER MANAGEMENT DIVISION

The Wastewater Management Division is a unit of the Department of Public Works and is supervised by the Deputy Manager of Public Works for Wastewater Management, who is subordinate to the Manager of Public Works. This Division is responsible for the operation and maintenance of the City's wastewater facilities.

SC-5 CITY DELEGATION OF AUTHORITY

With reference to General Contract Condition 109, DEPUTY MANAGER and General Contract Condition 212, CITY'S CONTRACT ADMINISTRATION LINE OF AUTHORITY, the Manager hereby designates the City Engineer as the City official responsible for those certain actions and decisions designated as the responsibility of the Deputy Manager under the General Conditions and delegates to the City Engineer the authority necessary to undertake those responsibilities under this Contract. The Director shall have supervisory responsibility over the Project Manager. Additionally, Contractor questions concerning the Plans and Technical Specifications shall be directed to:

Denver Department of Public Works

Project Manager
Mat Flores

Telephone
(720) 865-3158

Consultant
FHU
AECOM

Consultant Contact
Larry Lang
Steve McQuilkin

Telephone
(303) 721-1440
(303) 843-2127

SC-6 LIQUIDATED DAMAGES

Should the Contractor fail to complete all Work within the Contract Time allocated under the Contract Form at Paragraph 3, TERMS OF PERFORMANCE, the Contractor shall become liable to the City and County of Denver for liquidated damages, and not as a penalty, at the rate of \$500 for each Day that the Contractor exceeds the time limits herein specified, all in accordance with provisions of General Contract Condition 602, LIQUIDATED DAMAGES; ADMINISTRATIVE COSTS; ACTUAL DAMAGES.

Representative hourly rates for the City administrative costs described in General Contract Condition 602.2 shall be as follows for this Project:

Project Manager	\$69 per hour
Project Engineer	\$63 per hour
Inspector	\$49 per hour
Surveying, if necessary	\$100 per hour

SC-7 SUBCONTRACTS

In accordance with General Contract Condition 501, SUBCONTRACTS, no limit shall apply to that percentage of the Work, which may be sublet providing that the subcontractors receive prior approval in accordance with General Contract Condition 502, SUBCONTRACTOR ACCEPTANCE.

SC-8 RESERVED

SC-9 PAYMENTS TO CONTRACTORS

The application for payment shall be submitted through Textura® Corporations Construction Management Website. Contractor recognizes and agrees that it shall be required to use the Textura Construction Payment Management System for this Project to request payment from the City and to pay subcontractors. All certified subcontractors or suppliers who are listed for participation towards any assigned program goal must be paid via Textura®. Contractor further agrees that, to the fullest extent possible within Textura, the City shall be entitled to all non-Confidential records, reports, data and other information related to the project that are available to Contractor through Textura, including, but not limited to, information related to Contractor and subcontractor billings. To that end, Contractor agrees it will activate any available settings within Textura necessary to grant the City access to such non-Confidential information related to the contract and the project. Applications for payment shall be based on the Contract Unit Prices or the approved Schedule of Values described in GC 903.1

In accordance with General Contract Condition 902, PAYMENT PROCEDURE, the party(ies) responsible for review of all Pay Applications shall be:

<u>Agency/Firm</u>	<u>Name</u>	<u>Telephone</u>
Public Works	Mat Flores	(303) 865-3158

In accordance with General Contract Condition 906, APPLICATIONS FOR PAYMENT, each Application submitted shall include the following:

1. The estimate of Work completed shall be based on the approved schedule of values or unit prices, as applicable, and the percent of the Work complete.
2. Each Application for Payment shall include each and every independent subcontractor's payroll information including pay dates and pay amounts.
3. The Contractor shall also submit to the Auditor and other appropriate officials of the City in a timely fashion, information required by General Contract Condition 1004, REPORTING WAGES PAID.
4. Applications for Payment must be accompanied by completed Partial or Final Claim Release Form, as appropriate, from EACH subcontractor and supplier, **AND** the Contractors' Certification of Payment Form (CCP), unless an exception is approved pursuant to General contract condition 907.

The forms, Final/Partial Release and Certificate of Payment (Subcontractor/Supplier) and the Contractor's Certification of Payment (CCP), both of which must be used are attached below. If subcontractor or supplier payments are disbursed via Textura® CPM, those systems generated Release and CCP forms are acceptable.

DEPARTMENT OF PUBLIC WORKS

FINAL/PARTIAL RELEASE AND CERTIFICATE OF PAYMENT
(SUBCONTRACTOR/SUPPLIER)

(PROJECT NO. and NAME)

Date: _____, 20__.

(NAME OF CONTRACTOR)

Subcontract #: _____

(NAME OF SUBCONTRACTOR/SUPPLIER)

Subcontract Value: \$ _____

Last Progress Payment: \$ _____

Date: _____

Check Applicable Box:

MBE WBE

Total Paid to Date: \$ _____

Date of Last Work: _____

The Undersigned hereby certifies that all costs, charges or expenses incurred by the undersigned or on behalf of the undersigned for any work, labor or services performed and for any materials, supplies or equipment provided on the above referenced Project or used in connection with the above referenced Subcontract (the "Work Effort") have been duly paid in full.

The Undersigned further certifies that each of the undersigned's subcontractors and suppliers that incurred or caused to be incurred, on their behalf, costs, charges or expenses in connection with the undersigned's Work Effort on the above referenced Project have been duly paid in full.

In consideration of \$_____ representing the Last Progress Payment referenced above and in further consideration of the Total Paid to Date, also referenced above, and other good and valuable consideration received and accepted by the undersigned this _____ day of _____, 20__, the Undersigned hereby releases and discharges the City and County of Denver (the "City"), the above referenced City Project, the City's premises and property and the above referenced Contractor from all claims, liens, rights, liabilities, demands and obligations, whether known or unknown, of every nature arising out of or in connection with the performance of the work effort.

As additional consideration for the payments referenced above, the undersigned agrees to defend, indemnify and save and hold harmless the City, its officers, employees, agents and assigns and the above-referenced Contractor from and against all costs, losses, damages, causes of action, judgments under the subcontract and expenses arising out of or in connection with any claim or claims against the City or the Contractor which arise out of the Undersigned's performance of the Work Effort and which may be asserted by the Undersigned or any of its suppliers or subcontractors of any tier or any of their representatives, officers, agents, or employees.

It is acknowledged that this release is for the benefit of and may be relied upon by the City and the referenced Contractor.

The foregoing shall not relieve the undersigned of any obligation under the provisions of the Undersigned's subcontract, as the subcontract may have been amended, which by their nature survive completion of the Undersigned's work effort including, without limitation, warranties, guarantees, insurance requirements and indemnities.

STATE OF COLORADO) ss
CITY OF _____)

(Name of Subcontractor)

Signed and sworn before me this
day of _____, 20__.

By: _____

Notary Public/Commissioner of Oaths
My Commission Expires

Title: _____



DENVER
OFFICE OF ECONOMIC
DEVELOPMENT

**Instructions for Completing
the
Contractor/Consultant
Certification of Payment
Form**

Office of Economic Development
Division of Small Business Opportunity
Compliance Unit
201 W. Colfax Ave. Dept 807
Denver, CO 80202
Phone: 720-913-1999
DSBO@denvergov.org

Note: The attached Contractor/Consultant Certification of Payment form must be completed by the Contractor/ Subconsultant and all subcontractors/subconsultant or suppliers used on the project at any tier and submitted with each pay application. The Contractor/Consultant is responsible for the accuracy of all information provided and is required to have each subcontractor/subconsultant or supplier fill out the appropriate forms. Please be sure to complete all information requested at the top of the form, including the name of the person who prepared this form.

If you reproduce this form, you must continue to list each of the originally listed firms, as well as any additional firms used during the performance period of the contract. Please complete an additional CCP if there is second tier-ing involved.

If you have any questions, please call the Compliance Unit of DSBO at 720 913.1999.

Instructions for Completing the Contractor/Consultant Certification of Payment Form, per Column

Contractor/Subcontractor or Subconsultant/Supplier Name: In the space provided, list all subcontractors/ subconsultants and suppliers used on the project. For all M/W/S/E/DBEs use the exact name listed in the DSBO Directory.

M/W/S/E/DBE/NON: For each name listed, indicate whether the entity is a certified M/W/S/E/DBE.

Column A: Provide the contract amount, as listed at bid time, for the Contractor/Consultant and each subcontractor/subconsultant or supplier.

Column B: Provide the percentage portion of each listed subcontractor/subconsultant or supplier contract amount (Column A) compared to the total original contract amount in (I).

Column C: Provide the original contract amount (Column A) for each subcontractor/subconsultant or supplier plus any awarded alternate and/or change order amounts applicable. If an alternate/change order does not apply to the listed firm, re-enter the original contract amount (Column A).

Column D: Provide the percent portion of each listed subcontractor/subconsultant or supplier contract amount (Column C) compare to the current total contract amount in (II).

Column E: Provide the amount requested for work performed or materials supplied by each listed subcontractor/subconsultant or supplier for this pay application. The sum of the items in this column should equal the estimated amount requested for this pay application.

Column F: Provide the amount paid to each subcontractor/subconsultant or supplier on the previous pay application. Enter the previous pay application number in the column heading. The sum of the items listed in this column should equal the warrant amount paid to the Contractor/Consultant on the previous pay application. The amounts paid to the subcontractor/subcontractor or suppliers should be the actual amount of each check issued.

Column G: Provide the net paid to date for the Contractor/Subconsultant and each listed subcontractor/subconsultant or supplier.

Column H: Provide the percent portion of the net paid to date (Column G) for the Contractor/Subconsultant and each listed subcontractor/subconsultant or supplier of the current total contract amount in (II).

Rev: 031816

SC-10 CONTRACT FORMS

In accordance with the terms and conditions of the Contract Documents, the City requires the use of certain form documents in complying with or satisfying various obligations, notifications and conditions in contracting with the City or performing Work hereunder. These form documents are referenced by title throughout the Contract Documents for mandatory use as directed. The following are the forms that shall be detached and utilized in accordance with the Contract Documents:

1. Performance and Payment Bond
2. Performance and Payment Bond Surety Authorization Letter (Sample)
3. Final/Partial Lien Release.

The following are forms that will be issued by the City during construction:

1. Notice to Apparent Low Bidder (Sample)
2. Notice to Proceed (Sample)
3. Certificate of Contract Release (Sample)

SC-11 CONSTRUCTION INSPECTION BY THE CITY

General Condition 1701, CONSTRUCTION INSPECTION BY THE CITY, is modified as follows:

.1 Persons who are employees of the City or who are under contract to the City or the City as lessee will be assigned to inspect and test the Work. These persons may perform any tests and observe the Work to determine whether or not designs, materials used, manufacturing and construction processes and methods applied, and equipment installed satisfy the requirements of the drawings and specifications, accepted Shop Drawings, Product Data and Samples, and the General Contractor's warranties and guarantees. The General Contractor shall permit these inspectors unlimited access to the Work and provide means of safe access to the Work, which cost shall be included as a Cost of the Work without any increase to the Guaranteed Maximum Price. In addition, General Contractor shall provide whatever access and means of access are needed to off-site facilities used to store or manufacture materials and equipment to be incorporated into the Work and shall respond to any other reasonable request to further the inspector's ability to observe or complete any tests. Such inspections shall not relieve the General Contractor of any of its quality control responsibilities or any other obligations under the Contract. All inspections and all tests conducted by the City are for the convenience and benefit of the City. These inspections and tests do not constitute acceptance of the materials or Work tested or inspected, and the City may reject or accept any Work or materials at any time prior to the inspections pursuant to G.C. 2002, whether or not previous inspections or tests were conducted by the inspector or a City representative.

.2 Building Inspection will perform building code compliance inspections for structures designed for human occupancy. It is the General Contractor's responsibility to schedule and obtain these inspections. If a code compliance inspection results in identification of a condition which will be at variance to the Contract Documents, the General Contractor shall immediately notify the Project Manager and confirm such notification with formal correspondence no later than forty-eight (48) hours after the occurrence.

.3 When any unit of government or political subdivision, utility or Railroad Corporation is to pay a portion of the cost of the Work, its respective representatives shall have the right to inspect the Work. This inspection shall not make any unit of government or political subdivision, utility or Railroad Corporation a party to the Contract, and shall not interfere with the rights of either party.

SC-12 DISPOSAL OF NON-HAZARDOUS WASTE AT DADS

In accordance with the Landfill Agreement made between the City and Waste Management of Colorado, Inc., bidders will be required to haul dedicated loads (non-hazardous entire loads of waste) to the Denver-Arapahoe Disposal Site ("DADS") for disposal. DADS is located at Highway 30 and Hampden Avenue in Arapahoe County, Colorado. The City will pay all fees associated with such disposal but the bidder shall be responsible for the costs of transporting the loads. Non-hazardous waste is defined as those substances and materials not defined or classified as hazardous by the Colorado Hazardous Waste Commission pursuant to C.R.S. §25-15-101(6), as amended from time to time, and includes construction debris, soil and asbestos. Bidders shall not use Gun Club Road between I-70 and Mississippi Avenue as a means of access to DADS.

SC-13 PROHIBITION ON USE OF CCA-TREATED WOOD PRODUCTS

The use of any wood products pressure-treated with chromated copper arsenate (CCA) is prohibited. Examples of CCA-treated wood products include wood used in play structures, decks, picnic tables, landscaping timbers, fencing, patios, walkways and boardwalks.

SC-14 WAIVER OF: PART 8 OF ARTICLE 20 OF TITLE 13, COLORADO REVISED STATUTES.

The Contractor specifically waives all the provisions of Part 8 of Article 20 of Title 13, Colorado Revised Statutes regarding defects in the Work under this Construction Contract.

SC-15 ATTORNEY'S FEES

Colorado Revised Statute 38-26-107 requires that in the event any person or company files a verified statement of amounts due and unpaid in connection with a claim for labor and materials supplied on this project, the City shall withhold from payments to the Contractor sufficient funds to insure the payment of any such claims. Should the City and County of Denver be made a party to any lawsuit to enforce such unpaid claims or any lawsuit arising out of or relating to such withheld funds, the Contractor agrees to pay to the City its costs and a reasonable attorney's fee which cost shall be included as a Cost of the Work.

Because the City Attorney Staff does not bill the City for legal services on an hourly basis, the Contractor agrees a reasonable fee shall be computed at the rate of one hundred dollars per hour of City Attorney time.

SC-16 INSURANCE

General Condition 1601 is hereby deleted in its entirety and replaced with the following:

(1) **General Conditions:** Contractor agrees to secure, at or before the time of execution of this Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Contractor shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof, during any warranty period, and for eight (8) years after termination of the Agreement. The required insurance shall be underwritten by an insurer licensed or authorized to do business in Colorado and rated by A.M. Best Company as "A-"VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies be canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, contractor shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section by certified mail, return receipt requested within three (3) business days of such notice by its insurer(s) and referencing the City's contract number. If any policy is in excess of a deductible or self-insured retention, the City must be notified by the Contractor. Contractor shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this Agreement are the minimum requirements, and these requirements do not lessen or limit the liability of the Contractor. The Contractor shall maintain, at its own expense, any additional kinds or amounts of insurance that it may deem necessary to cover its obligations and liabilities under this Agreement.

(2) **Proof of Insurance:** Contractor shall provide a copy of this Agreement to its insurance agent or broker. Contractor may not commence services or work relating to the Agreement prior to placement of coverage. Contractor certifies that the certificate of insurance attached as part of the Contract Documents, preferably an ACORD certificate, complies with all insurance requirements of this Agreement. The City requests that the City's contract number be referenced on the Certificate. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of the City's rights or remedies under this Agreement. The City's Risk Management Office may require additional proof of insurance, including but not limited to policies and endorsements.

(3) **Additional Insureds:** For Commercial General Liability and Auto Liability, Contractor and subcontractor's insurer(s) shall name the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.

(4) **Waiver of Subrogation:** For all coverages, Contractor's insurer shall waive subrogation rights against the City.

(5) **Subcontractors and Subconsultants:** All subcontractors and subconsultants (including independent contractors, suppliers or other entities providing goods or services required by this Agreement) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of the Contractor. Contractor shall include all such subcontractors as additional insured under its policies (with the exception of

Workers' Compensation) or shall ensure that all such subcontractors and subconsultants maintain the required coverages. Contractor agrees to provide proof of insurance for all such subcontractors and subconsultants upon request by the City.

(6) **Workers' Compensation/Employer's Liability Insurance:** Contractor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Contractor expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement, that none of the Contractor's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Contractor executes this Agreement.

(7) **Commercial General Liability:** Contractor shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.

(8) **Business Automobile Liability:** Contractor shall maintain Business Automobile Liability with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-owned vehicles used in performing services under this Agreement

(9) **Additional Provisions:**

- (a) For Commercial General Liability, the policies must provide the following:
 - (i) That this Agreement is an Insured Contract under the policy;
 - (ii) Defense costs in excess of policy limits;
 - (iii) A severability of interests or separation of insureds provision (no insured vs. insured exclusion); and
 - (iv) A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by the City.
- (b) For claims-made coverage:
 - (i) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier
- (c) Contractor shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

SC-17 GREENPRINT DENVER REQUIREMENTS

In accordance with the City and County of Denver Executive Order 123: Greenprint Denver Office and Sustainability Policy, as amended, Contractor shall adhere to sections of Executive Order 123 pertinent to the construction of the built environment. This includes but is not limited to: all construction and renovation of buildings shall follow instructions and memorandum for high performance buildings; horizontal projects shall include the use of fly ash concrete and recycled aggregate where possible; and, all projects shall recycle construction and demolition waste, and install materials that contain recycled content whenever possible using the U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) as guidance. Non-hazardous solid waste that is eligible for reuse or recycling is not subject to the DADS disposal requirement defined in SC-12.

A completed "Greenprint Denver Closeout Form for Construction Projects" shall be delivered to the Project Manager as a submittal requirement of Final Acceptance.

<http://www.denvergov.org/constructioncontracts/Home/ContractorResources/tabid/443154/Default.aspx>

**CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS**

Bond #779710P

PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned Silva Construction, Inc.
421 W 70th Place, Denver, CO 80221

a corporation organized and existing under and by virtue of the laws of the State of Colorado,
hereafter referred to as the "Contractor", and Developers Surety and Indemnity Company

a corporation organized and existing under and by virtue of the laws of the State of California
and authorized to transact business in the State of Colorado, as Surety, are held and firmly bound unto the CITY AND
COUNTY OF DENVER, a municipal corporation of the State of Colorado, hereinafter referred to as the "City", in the
penal sum of Nine Hundred One Thousand Two Hundred Seventeen Dollars and Fifty Cents

Dollars (\$ 901,217.50),

lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves
and our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents;

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH THAT:

WHEREAS, the above bounden Contractor has entered into a written contract with the aforesaid City for furnishing all
labor and tools, supplies, equipment, superintendence, materials and everything necessary for and required to do, perform
and complete the construction of **CONTRACT NO. 201948771, KNOX COURT & W. 35TH AVE
NEIGHBORHOOD BIKEWAY**, Denver, Colorado, and has bound itself to complete the project within the time or times
specified or pay liquidated damages, all as designated, defined and described in the said Contract and Conditions thereof,
and in accordance with the Plans and Technical Specifications therefore, a copy of said Contract being made a part hereof;

NOW, THEREFORE, if the said Contractor shall and will, in all particulars well and truly and faithfully observe, perform
and abide by each and every Covenant, Condition and part of said Contract, and the Conditions, Technical Specifications,
Plans, and other Contract Documents thereto attached, or by reference made a part thereof and any alterations in and
additions thereto, according to the true intent and meaning in such case, then this obligation shall be and become null and
void; otherwise, it shall remain in full force and effect;

PROVIDED FURTHER, that if the said Contractor shall satisfy all claims and demands incurred by the Contractor in the
performance of said Contract, and shall fully indemnify and save harmless the City from all damages, claims, demands,
expense and charge of every kind (including claims of patent infringement) arising from any act, omission, or neglect of
said Contractor, its agents, or employees with relation to said work; and shall fully reimburse and repay to the City all
costs, damages, and expenses which it may incur in making good any default based upon the failure of the Contractor to
fulfill its obligation to furnish maintenance, repairs or replacements for the full guarantee period provided in the Contract
Documents, then this obligation shall be null and void; otherwise it shall remain in full force and effect;

PROVIDED FURTHER, that if said Contractor shall at all times promptly make payments of all amounts lawfully due to
all persons supplying or furnishing it or its subcontractors with labor and materials, rental machinery, tools or equipment
used or performed in the prosecution of work provided for in the above Contract and that if the Contractor will indemnify
and save harmless the City for the extent of any and all payments in connection with the carrying out of such Contract,
then this obligation shall be null and void; otherwise it shall remain in full force and effect;


PROVIDED FURTHER, that if the said Contractor fails to duly pay for any labor, materials, team hire, sustenance,
provisions, provender, gasoline, lubricating oils, fuel oils, grease, coal, or any other supplies or materials used or consumed
by said Contractor or its subcontractors in performance of the work contracted to be done, or fails to pay any person who
supplies rental machinery, tools or equipment, all amounts due as the result of the use of such machinery, tools or
equipment in the prosecution of the work, the Surety will pay the same in any amount not exceeding the amount of this
obligation, together with interest as provided by law;

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 contracts with others in connection with this project, or the work to be performed thereunder, or the Technical Specifications and Plans accompanying the same, shall in any way affect its obligation on this bond and it does hereby waive notice of any change, extension of time, alteration or addition to the terms of the Contract, or contracts, or to the work, or to the Technical Specifications and Plans.

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this 14 day of June, 2019.

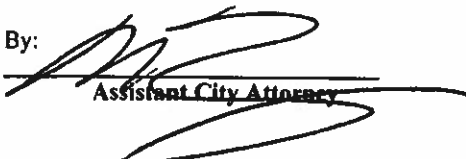
Attest

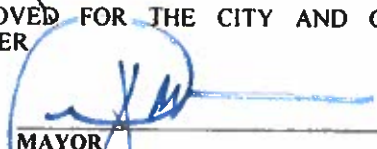

Secretary Jose Silva, Jr

Silva Construction, Inc.
Contractor
By: 
President Jose Silva

Developers Surety and Indemnity Company
Surety
By: 
Attorney-In-Fact Christine Crowder

(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond).

APPROVED AS TO FORM:
Attorney for the City and County of
Denver
By: 
Assistant City Attorney

APPROVED FOR THE CITY AND COUNTY OF
DENVER
By: 
MAYOR
By: 
EXECUTIVE DIRECTOR OF PUBLIC WORKS
4

POWER OF ATTORNEY FOR
DEVELOPERS SURETY AND INDEMNITY COMPANY
PO Box 19725, IRVINE, CA 92623 (949) 263-3300

KNOW ALL BY THESE PRESENTS that except as expressly limited, DEVELOPERS SURETY AND INDEMNITY COMPANY, does hereby make, constitute and appoint:

Scott Metzger, Scott White, Tim Mitchell, Ann Ritacco, Christine Crowder, jointly or severally

as its true and lawful Attorney(s)-in-Fact, to make, execute, deliver and acknowledge, for and on behalf of said corporation, as surety, bonds, undertakings and contracts of suretyship giving and granting unto said Attorney(s)-in-Fact full power and authority to do and to perform every act necessary, requisite or proper to be done in connection therewith as each of said corporation could do, but reserving to each of said corporation full power of substitution and revocation, and all of the acts of said Attorney(s)-in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This Power of Attorney is granted and is signed by facsimile under and by authority of the following resolution adopted by the Board of Directors of DEVELOPERS SURETY AND INDEMNITY COMPANY, effective as of January 1st, 2008.

RESOLVED, that a combination of any two of the Chairman of the Board, the President, any Executive Vice-President, Senior Vice-President or Vice-President of the corporation be, and that each of them hereby is, authorized to execute this Power of Attorney, qualifying the attorney(s) named in the Power of Attorney to execute, on behalf of the corporation, bonds, undertakings and contracts of suretyship; and that the Secretary or any Assistant Secretary of the corporation be, and each of them hereby is, authorized to attest the execution of any such Power of Attorney;

RESOLVED, FURTHER, that the signatures of such officers may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures shall be valid and binding upon the corporation when so affixed and in the future with respect to any bond, undertaking or contract of suretyship to which it is attached.

IN WITNESS WHEREOF, DEVELOPERS SURETY AND INDEMNITY COMPANY has caused these presents to be signed by its officers and attested by its Secretary or Assistant Secretary this 6th day of February, 2017.

By: *Daniel Young*
Daniel Young, Senior Vice-President

By: *Mark Lansdon*
Mark Lansdon, Vice-President



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Orange

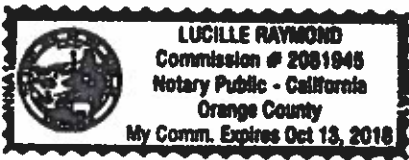
On February 6, 2017 before me, Lucille Raymond, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Daniel Young and Mark Lansdon
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.
Signature *Lucille Raymond*
Lucille Raymond, Notary Public



Place Notary Seal Above

CERTIFICATE

The undersigned, as Secretary or Assistant Secretary of DEVELOPERS SURETY AND INDEMNITY COMPANY or INDEMNITY COMPANY OF CALIFORNIA, does hereby certify that the foregoing Power of Attorney remains in full force and has not been revoked and, furthermore, that the provisions of the resolutions of the respective Boards of Directors of said corporations set forth in the Power of Attorney are in force as of the date of this Certificate.

This Certificate is executed in the City of Irvine, California, this 14 day of June 2017.

By: *Cassie J. Burisford*
Cassie J. Burisford, Assistant Secretary





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/13/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Commercial Risk Solutions 6600 E Hampden Ave Ste 200 Denver CO	CONTACT NAME: Scott Anderson, CIC	
	PHONE (A/C, No, Ext): 303-996-7833	FAX (A/C, No): 303-757-7719
E-MAIL ADDRESS: sanderson@crsdenver.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Pinnacle Assurance		41190
INSURER B: Selective Ins. Co. of America		12572
INSURER C: Travelers Prop Casualty of AM		25674
INSURER D:		
INSURER E:		
INSURER F:		

INSURED SILVA-1
 Silva Construction, Inc.
 Avis Equipment, LLC
 421 W. 70th Place
 Denver CO 80221

COVERAGES **CERTIFICATE NUMBER:** 94764533 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WSD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER	Y	Y	S230522400	6/1/2019	6/1/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 3,000,000 PRODUCTS - COMP/OP AGG \$ 3,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY	Y	Y	S230522400	6/1/2019	6/1/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0	Y	Y	S230522400	6/1/2019	6/1/2020	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	4130080	3/1/2019	3/1/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Inland Marine ACV/Special Form Equipment			6606J776725	6/1/2019	6/1/2020	Leased/Rented Deductible 250,000 Theft Ded 1,000 2,500

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 As required by written contract, The City and County of Denver, its elected and appointed Officials, Employees and Volunteers are included as additional insured for ongoing and completed operations on the General Liability and included as additional insured on the Auto Liability with respect to operations of the named Insured for the certificate holder as required by written contract. All policy terms, conditions and exclusions apply.

CERTIFICATE HOLDER **CANCELLATION**

City and County of Denver 201 W. Colfax, Dept. 205 Denver CO 80202	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
--	---



**PERFORMANCE AND PAYMENT BOND
SURETY AUTHORIZATION
(SAMPLE)**

FAX NUMBER: 720-913-3183
TELEPHONE NUMBER: 720-913-3267

Assistant City Attorney
201 W. Colfax Ave. Dept. 1207
Denver, Colorado 80202

RE: (Company name)

Contract No: 201948771
Project Name: Knox Court & W. 35th Ave Neighborhood Bikeway
Contract Amount:
Performance and Payment Bond No.:

Dear Assistant City Attorney,

The Performance and Payment Bonds covering the above captioned project were executed by this agency, through _____ insurance company, on _____, 20__.

We hereby authorize the City and County of Denver, Department of Public Works, to date all bonds and powers of attorney to coincide with the date of the contract.

If you should have any additional questions or concerns, please don't hesitate to give me a call at _____.

Thank you.

Sincerely,

Denver Public Works/Office of the Executive Director
201 West Colfax Avenue, Dept 608 | Denver, CO 80202
www.denvergov.org/dpw
p. 720.865.8630 | f. 720.865.8795

311 | POCKETGOV.COM | DENVERGOV.ORG | DENVER 8 TV



NOTICE OF APPARENT LOW BIDDER
(SAMPLE)

Current Date

To:

Gentlemen:

The MANAGER OF PUBLIC WORKS has considered the Bids submitted on May 16, 2019 for work to be done and materials to be furnished in and for:

PROJECT No. 201948771 KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY

as set forth in detail in the Contract Documents for the City and County of Denver, Colorado. It appears that your Bid is fair, equitable, and to the best interest of the City and County; therefore, said Bid is hereby accepted at the bid price contained herein, subject to execution of the Contract Documents and your furnishing the items specified below, the total cost thereof (Contract Amount Written), (Contract Amount Numeric).

It will be necessary for you to appear forthwith at the office of the Department of Public Works, Finance and Administration, 201 W. Colfax Ave. Dept 614, Denver, Colorado 80202, to receive the said Contract Documents, execute the same and return them to the Department of Public Works, Finance and Administration, within the time limit set forth in the Bid Proposal.

In accordance with the requirements set forth in the Contract Documents, you are required to furnish the following documents:

- a. Insurance Certificates: General Liability and Automotive Liability, Workman's Compensation and Employer Liability; or any other coverage required by the contract; and
- b. One original plus four copies of the Power of Attorney relative to Performance and/or Payment Bond;

All construction Contracts made and entered into by the City and County of Denver are subject to Affirmative Action and Equal Opportunity Rules and Regulations, as adopted by the Manager of Public Works, and each contract requiring payment by the City of one-half million dollars (\$500,000.00) or more shall first be approved by the City Council acting by ordinance and in accordance with Section 3.2.6 of the Charter of the City and County of Denver.

Prior to issuance of Notice to Proceed, all Equal Opportunity requirements must be completed. Additional information may be obtained by contacting the Director of Contract Compliance at (720-913-1700).

**NOTICE OF APPARENT LOW BIDDER
(SAMPLE)**

PROJECT NO. 201948771
Page 2

The Bid Security submitted with your Bid, will be returned upon execution of the Contract and furnishing of the Performance Bond. In the event you should fail to execute the Contract and to furnish the performance Bond within the time limit specified, said Bid Security will be retained by the City and County of Denver as liquidated damages, and not as a penalty for the delay and extra work caused thereby.

Dated at Denver, Colorado this _____ day of _____ 20__.

CITY AND COUNTY OF DENVER

By _____
Manager of Public Works

Denver Public Works/Office of the Executive Director
201 West Colfax Avenue, Dept 608 | Denver, CO 80202
www.denvergov.org/dpw
p. 720.865.8630 | f. 720.865.8795

311 | POCKETGOV.COM | DENVERGOV.ORG | DENVER 8 TV



Current Date

**NOTICE TO PROCEED
(SAMPLE)**

Name
Company
Street
City/State/Zip

**CONTRACT NO. 201948771, KNOX COURT & W. 35TH AVE NEIGHBORHOOD
BIKEWAY**

In accordance with General Contract Condition 302 of the Standard Specifications for Construction, General Contract Conditions, 2011 Edition, you are hereby authorized and directed to proceed on _____ with the work of constructing contract number 201948771, as set forth in detail in the contract documents for the City and County of Denver.

With a contract time of _____ calendar days, the project must be complete on or before _____.

If you have not already done so, you must submit your construction schedule, in accordance with General Contract Condition 306.2.B, to the Project Manager within 10 days. Additionally, you must submit your tax exempt certificate, and copies of your subcontractors' certificates, in accordance with General Contract Condition 323.5, to the Project Manager as soon as possible. Failure to submit these certificates will delay processing of payment applications.

Sincerely,

Lesley B. Thomas
City Engineer

cc:

Denver Public Works/Office of the Executive Director
201 West Colfax Avenue, Dept 608 | Denver, CO 80202
www.denvergov.org/dpw
p. 720.865.8630 | f. 720.865.8795

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Contract No. 201948771
K35

BDP - 51

April 16, 2019



Certificate of Contract Release

(SAMPLE)

Date

Name
Company
Street
City/State/Zip

RE: Certificate of Contract Release for
201948771, KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY

Received this date of the City and County of Denver, as full and final payment of the cost of the improvements provided for in the foregoing contract, _____ dollars and _____ cents (\$ _____), in cash, being the remainder of the full amount accruing to the undersigned by virtue of said contract; said cash also covering and including full payment for the cost of all extra work and material furnished by the undersigned in the construction of said improvements, and all incidentals thereto, and the undersigned hereby releases said City and County of Denver from any and all claims or demands whatsoever, regardless of how denominated, growing out of said contract.

And these presents are to certify that all persons performing work upon or furnishing materials for said improvements under the foregoing contract have been paid in full and this payment to be made is the last or final payment.

Contractor's Signature

Date Signed

If there are any questions, please contact me by telephone at (720) 913-XXXX. Please return this document via facsimile at (720) 913-1805 and mail to original to the above address.

Denver Public Works/Office of the Executive Director
201 West Colfax Avenue, Dept 608 | Denver, CO 80202
www.denvergov.org/dpw
p. 720.865.8630 | f. 720.865.8795

311 | POCKETGOV.COM | DENVERGOV.ORG | DENVER 8 TV

CITY AND COUNTY OF DENVER
STATE OF COLORADO



DENVER
THE MILE HIGH CITY

DEPARTMENT OF PUBLIC WORKS

Prevailing Wage Rates

Contract Number: 201948771



**Knox Court & W. 35th Ave Neighborhood
Bikeway**

April 16, 2019



TO: All Users of the City and County of Denver Prevailing Wage Schedules
FROM: Susan Keller, HR Technician II, Classification & Compensation
DATE: January 7, 2019
SUBJECT: Latest Change to Prevailing Wage Schedules

Please be advised prevailing wage rates for some building, heavy, highway, and residential construction trades have not been updated by the United States Department of Labor (DOL) since March 1, 2002. The Career Service Board, in their meeting held on April 21, 2011, approved the use of the attached supplemental wage rates until prevailing wage rates for these classifications of work are again published by the United States Department of Labor in accordance with the Davis-Bacon Act.

The effective date for this publication will be **Friday, January 4, 2019** and applies to the City and County of Denver for **HIGHWAY CONSTRUCTION PROJECTS** in accordance with the Denver Revised Municipal Code, Section 20-76(c).

General Wage Decision No. CO190009
Superseded General Decision No. CO20180019
Modification No. 0
Publication Date: 01/04/2019
(7 pages)

Unless otherwise specified in this document, apprentices shall be permitted only if they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor (DOL). The employer and the individual apprentice must be registered in a program which has received prior approval by the DOL. Any employer who employs an apprentice and is found to be in violation of this provision shall be required to pay said apprentice the full journeyman scale.

Attachments as listed above.

Office of Human Resources
201 W. Colfax Ave. Dept. 412 | Denver, CO 80202
p: 720.913.5751 | f: 720.913.5720
www.denvergov.org/humanresources

General Decision Number: CO190009 01/04/2019 CO9

Superseded General Decision Number: CO20180019

State: Colorado

Construction Type: Highway

Counties: Denver and Douglas Counties in Colorado.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019

* CARP9901-008 05/01/2018

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 25.50	9.47

ELEC0068-016 03/01/2011		

	Rates	Fringes
TRAFFIC SIGNALIZATION:		
Traffic Signal Installation		
Zone 1.....	\$ 26.42	4.75%+8.68
Zone 2.....	\$ 29.42	4.75%+8.68

TRAFFIC SIGNAL INSTALLER ZONE DEFINITIONS

Zone 1 shall be a 35 mile radius, measured from the following addresses in each of the following cities:

- Colorado Springs - Nevada & Bijou
- Denver - Ellsworth Avenue & Broadway
- Ft. Collins - Prospect & College
- Grand Junction - 12th & North Avenue
- Pueblo - I-25 & Highway 50

All work outside of these areas shall be paid Zone 2 rates.

 ENGI0009-008 05/01/2017

	Rates	Fringes
POWER EQUIPMENT OPERATOR:		
(3)-Hydraulic Backhoe (Wheel Mounted, under 3/4 yds), Hydraulic Backhoe (Backhoe/Loader combination), Drill Rig Caisson (smaller than Watson 2500 and similar), Loader (up to and including 6 cu. yd.).....	\$ 27.60	10.10
(3)-Loader (under 6 cu. yd.) Denver County.....	\$ 27.60	10.10
(3)-Motor Grader (blade- rough) Douglas County.....	\$ 27.60	10.10
(4)-Crane (50 tons and under), Scraper (single bowl, under 40 cu. yd).....	\$ 27.75	10.10
(4)-Loader (over 6 cu. yd) Denver County.....	\$ 27.75	10.10
(5)-Drill Rig Caisson (Watson 2500 similar or larger), Crane (51-90 tons), Scraper (40 cu.yd and over),.....	\$ 27.92	10.10
(5)-Motor Grader (blade- finish) Douglas County.....	\$ 27.92	10.10
(6)-Crane (91-140 tons).....	\$ 28.55	10.10

 SUCO2011-004 09/15/2011

	Rates	Fringes
CARPENTER (Excludes Form Work)...	\$ 19.27	5.08
CEMENT MASON/CONCRETE FINISHER		
Denver.....	\$ 20.18	5.75
Douglas.....	\$ 18.75	3.00

ELECTRICIAN (Excludes Traffic Signal Installation).....	\$ 35.13	6.83
FENCE ERECTOR (Excludes Link/Cyclone Fence Erection).....	\$ 13.02	3.20
GUARDRAIL INSTALLER.....	\$ 12.89	3.20
HIGHWAY/PARKING LOT STRIPING;Painter		
Denver.....	\$ 12.62	3.21
Douglas.....	\$ 13.89	3.21
IRONWORKER, REINFORCING (Excludes Guardrail Installation).....		
	\$ 16.69	5.45
IRONWORKER, STRUCTURAL (Includes Link/Cyclone Fence Erection, Excludes Guardrail Installation).....		
	\$ 18.22	6.01
LABORER		
Asphalt Raker.....	\$ 16.29	4.25
Asphalt Shoveler.....	\$ 21.21	4.25
Asphalt Spreader.....	\$ 18.58	4.65
Common or General		
Denver.....	\$ 16.76	6.77
Douglas.....	\$ 16.29	4.25
Concrete Saw (Hand Held)....	\$ 16.29	6.14
Landscape and Irrigation....	\$ 12.26	3.16
Mason Tender-		
Cement/Concrete		
Denver.....	\$ 16.96	4.04
Douglas.....	\$ 16.29	4.25
Pipelayer		
Denver.....	\$ 13.55	2.41
Douglas.....	\$ 16.30	2.18
Traffic Control (Flagger)...	\$ 9.55	3.05
Traffic Control (Sets Up/Moves Barrels, Cones, Install Signs, Arrow Boards and Place Stationary Flags) (Excludes Flaggers).....		
	\$ 12.43	3.22
PAINTER (Spray Only).....	\$ 16.99	2.87
POWER EQUIPMENT OPERATOR:		
Asphalt Laydown		
Denver.....	\$ 22.67	8.72
Douglas.....	\$ 23.67	8.47
Asphalt Paver		
Denver.....	\$ 24.97	6.13
Douglas.....	\$ 25.44	3.50
Asphalt Roller		

Denver.....	\$ 23.13	7.55
Douglas.....	\$ 23.63	6.43
Asphalt Spreader.....	\$ 22.67	8.72
Backhoe/Trackhoe		
Douglas.....	\$ 23.82	6.00
Bobcat/Skid Loader.....	\$ 15.37	4.28
Boom.....	\$ 22.67	8.72
Broom/Sweeper		
Denver.....	\$ 22.47	8.72
Douglas.....	\$ 22.96	8.22
Bulldozer.....	\$ 26.90	5.59
Concrete Pump.....	\$ 21.60	5.21
Drill		
Denver.....	\$ 20.48	4.71
Douglas.....	\$ 20.71	2.66
Forklift.....	\$ 15.91	4.68
Grader/Blade		
Denver.....	\$ 22.67	8.72
Guardrail/Post Driver.....	\$ 16.07	4.41
Loader (Front End)		
Douglas.....	\$ 21.67	8.22
Mechanic		
Denver.....	\$ 22.89	8.72
Douglas.....	\$ 23.88	8.22
Oiler		
Denver.....	\$ 23.73	8.41
Douglas.....	\$ 24.90	7.67
Roller/Compactor (Dirt and Grade Compaction)		
Denver.....	\$ 20.30	5.51
Douglas.....	\$ 22.78	4.86
Rotomill.....	\$ 16.22	4.41
Screed		
Denver.....	\$ 22.67	8.38
Douglas.....	\$ 29.99	1.40
Tractor.....	\$ 13.13	2.95

TRAFFIC SIGNALIZATION:

Groundsman

Denver.....	\$ 17.90	3.41
Douglas.....	\$ 18.67	7.17

TRUCK DRIVER

Distributor		
Denver.....	\$ 17.81	5.82
Douglas.....	\$ 16.98	5.27
Dump Truck		
Denver.....	\$ 15.27	5.27
Douglas.....	\$ 16.39	5.27
Lowboy Truck.....	\$ 17.25	5.27
Mechanic.....	\$ 26.48	3.50
Multi-Purpose Specialty & Hoisting Truck		
Denver.....	\$ 17.49	3.17
Douglas.....	\$ 20.05	2.88
Pickup and Pilot Car		
Denver.....	\$ 14.24	3.77

Douglas.....	\$ 16.43	3.68
Semi/Trailer Truck.....	\$ 18.39	4.13
Truck Mounted Attenuator....	\$ 12.43	3.22
Water Truck		
Denver.....	\$ 26.27	5.27
Douglas.....	\$ 19.46	2.58

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

**Office of Human Resources
Supplemental Rtes
(Specific to the Denver Projects)
Revised 4/11/2017)**

Classification		Base	Fringe
Ironworker (Ornamental)		\$26.05	\$12.00
Laborer	Removal of Asbestos	\$21.03	\$8.55
Line Construction	Lineman, Gas Fitter/Welder	\$36.88	\$9.55
	Line Eq Operator/Line Truck Crew	\$25.74	\$8.09
Millwright		\$28.00	\$10.00
Pipefitter		\$30.45	\$12.85
Plumber		\$30.19	\$13.55
Power Equipment Operator (Tunnels Above and Below Ground, shafts and raises):	Group 1	\$25.12	\$10.81
	Group 2	\$25.47	\$10.85
	Group 3	\$25.57	\$10.86
	Group 4	\$25.82	\$10.88
	Group 5	\$25.97	\$10.90
	Group 6	\$26.12	\$10.91
	Group 7	\$26.37	\$10.94
Power Equipment Operator	Group 1	\$22.97	\$10.60
	Group 2	\$23.32	\$10.63
	Group 3	\$23.67	\$10.67
	Group 4	\$23.82	\$10.68
	Group 5	\$23.97	\$10.70
	Group 6	\$24.12	\$10.71
	Group 7	\$24.88	\$10.79
Truck Driver	Group 1	\$18.42	\$10.00
	Group 2	\$19.14	\$10.07
	Group 3	\$19.48	\$10.11
	Group 4	\$20.01	\$10.16
	Group 5	\$20.66	\$10.23
	Group 6	\$21.46	\$10.31

Go to <http://www.denvergov.org/Auditor> to view the Prevailing Wage Clarification Document for a list of complete classifications used.

CITY AND COUNTY OF DENVER
STATE OF COLORADO



DENVER
THE MILE HIGH CITY

DEPARTMENT OF PUBLIC WORKS

Addenda

Contract Number: 201948771



**Knox Court & W. 35th Ave Neighborhood
Bikeway**

April 16, 2019

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS

CONTRACT NO: 201948771
PROJECT NAME: KNOX COURT & W. 35TH AVE NEIGHBORHOOD BIKEWAY

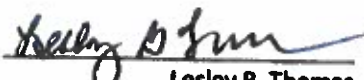
ADDENDUM NO. 1 TO CONTRACT DOCUMENTS

Bidders are hereby instructed that the drawings, specifications, and other contract documents are modified, corrected, supplemented and/or superseded for the above-mentioned project as hereinafter described in the following attachments:

This ADDENDUM shall be attached to, become a part of, and be returned with the Bid Proposal.

QUESTIONS AND ANSWERS:

- Q1. Provide clarification and additional details with respect to what "Reset light standard" refers to in the bid package. Also, provide additional details as to what it all entails?
- A1. Refer to pages 17 and 18 of the project plans. The project plans show where the two existing light standards are being reset from and to. The light standards are the property of Xcel Energy. The Contractor shall coordinate w/ Xcel Energy to reset the light standards during construction. The bid item will compensate the Contractor for the coordination effort w/ Xcel Energy.
- Q2. What are the work hours available for this project?
- A2. Please refer to all work time restrictions listed in Project Special Provision TRAFFIC CONTROL PLAN – GENERAL.


Lesley B. Thomas
City Engineer

5.7.19
Date

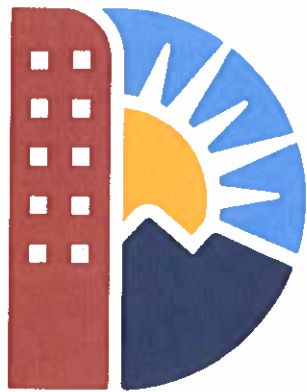
The undersigned bidder acknowledges receipt of this Addendum. The Proposal submitted herewith is in accordance with the stipulations set forth herein.

Silva Construction Inc
Contractor

5/10/19
Date

ADDENDUM NO. 1

CITY AND COUNTY OF DENVER
STATE OF COLORADO



DENVER[®]
THE MILE HIGH CITY

DEPARTMENT OF PUBLIC WORKS / PROJECT ENGINEERING DIVISION

TECHNICAL SPECIFICATIONS

City Project Master Nos. 2015-PROJMSTR-0000657
and 2015-PROJMSTR-0000094

Knox Court & W. 35th Ave Neighborhood Bikeway

April 15, 2019

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
PROJECT ENGINEERING DIVISION

35TH AVENUE AND KNOX COURT NEIGHBORHOOD BIKEWAY IMPROVEMENT PROJECTS

General Contract Conditions shall be the City and County of Denver (CCD), Department of Public Works, "Standard Specifications for Construction General Contract Conditions", current edition and hereinafter modified shall be used for this project.

STANDARD SPECIFICATIONS FOR CONSTRUCTION

The Standard Specifications for Construction used for this Project shall be the Colorado Department of Transportation "Standard Specifications for Road and Bridge Construction," adopted in 2017 and as hereinafter modified.

The City and County of Denver, Department of Public Works, "Standard Specifications for Construction General Contract Conditions", 2011 edition shall prevail over any conflicting subsections of this document. Supplements or amendments to the Standard Specifications for Construction, General Contract Conditions are listed in the Special Contract Conditions.

DETAILED CONSTRUCTION SPECIFICATIONS

The Detailed Specifications for this project are defined in the City of Denver Contract Requirements and Contract Documents.

STANDARD CONSTRUCTION DETAILS

Applicable City and County of Denver details are required to be used by the Contractor including the "City and County of Denver Public Works Department Transportation Standards and Details for the Project Engineering Division" and "City and County of Denver Traffic Project Engineering Services Traffic Signal Standards and Sign & Markings Standards." For other applicable details, except as modified or altered by the general notes on the Contract Drawings to be approved or by the revisions to Technical Specifications and Contract Documents, it is the intent of the City to use the Colorado Department of Transportation M & S Standards, most recent edition.

Drainage and Sanitary related appurtenances shall be constructed as specified in the most recent edition of the City and County of Denver, Department of Public Works documents titled:

- Sanitary Sewer Design Technical Criteria Manual
- Storm Drainage Design and Technical Criteria
- Wastewater Capital Projects Management Standard Construction Specifications
- Wastewater Management Division Standard Details
- Denver Parks and Recreation Planning, Design and Construction Standards and Technical Specifications

The applicable CCD documents can be found at www.denvergov.org and/or the following web addresses:

- [https://www.denvergov.org/content/denvergov/en/right-of-way-services/Project Engineering-regulatory-analytics/Project Engineering-plan-review/manuals-regulations.html](https://www.denvergov.org/content/denvergov/en/right-of-way-services/Project%20Engineering-regulatory-analytics/Project%20Engineering-plan-review/manuals-regulations.html)
- <https://www.denvergov.org/content/denvergov/en/denver-department-of-public-works/documents/standards-details-manuals.html>
- [https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits.html)
- <https://www.denvergov.org/content/denvergov/en/denver-parks-and-recreation/planning/planning-resources.html>

SUBMITTALS

All submittals required for this project shall be a minimum of four copies.

The 2017 Colorado Department of Transportation 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.

PROJECT SPECIAL PROVISIONS

	<u>Date</u>	<u>Page</u>
Index Pages	AD Date, 2018	4-5
Construction Limits	AD Date, 2018	6
Page Intentionally Left Blank	AD Date, 2018	7
Commencement and Completion of Work (Working Hours, Schedule)	AD Date, 2018	8-9
Revision of Section 101 – Definition and Terms	AD Date, 2018	10
Revision of Section 102 – Project Plans and Other Data	AD Date, 2018	11
Revision of Section 105 – Control of Work	AD Date, 2018	12
Revision of Section 107 – Protection of Existing Vegetation	AD Date, 2018	13-15
Revision of Section 201 – Clearing and Grubbing	AD Date, 2018	16
Revision of Section 202 – Removal of Structures and Obstructions	AD Date, 2018	17-18
Revision of Section 202 – Removal of Asphalt Mat	AD Date, 2018	19
Revision of Section 202 – Removal of Pavement Markings	AD Date, 2018	20
Revision of Section 203 – Potholing	AD Date, 2018	21
Revision of Section 206 – Structure Excavation and Backfill for Sanitary and Storm Sewers	AD Date, 2018	22
Revision of Section 208 – Erosion Control	AD Date, 2018	23
Revision of Section 209 – Watering and Dust Palliatives	AD Date, 2018	24
Revision of Section 210 – Valve Box, Water Meter and Manhole Adjustments	AD Date, 2018	25-26
Revision of Section 212 – Seeding, Fertilizer, and Sodding	AD Date, 2018	27
Revision of Section 603 – Culverts and Sewers	AD Date, 2018	28
Revision of Section 604 – Manholes and Inlets	AD Date, 2018	29
Revision of Section 608 – Sidewalks and Curb Ramps	AD Date, 2018	30-32
Revision of Section 609 – Curb and Gutter	AD Date, 2018	33-34
Revision of Section 610 – Median Cover Material	AD Date, 2018	35
Revision of Section 625 – Construction Surveying	AD Date, 2018	36-38
Revision of Section 626 – Mobilization	AD Date, 2018	39
Revision of Section 630 – Portable Message Sign Panel	AD Date, 2018	40-41
Revision of Section 630 – Construction Zone Traffic Control	AD Date, 2018	42-46
Allowance Items	AD Date, 2018	47
Add Alternate	AD Date, 2018	48
Utilities	AD Date, 2018	49-51
Traffic Control Plan General	AD Date, 2018	52-55

STANDARD SPECIAL PROVISIONS

	<u>Date</u>	<u>No. of Pages</u>
Revision of Section 103 – Consideration of Proposals	(July 3, 2017)	1
Revision of Section 106 – Buy America Requirements	(July 3, 2017)	1
Revision of Section 106 – Supplier List	(July 3, 2017)	1
Revision of Section 107 – Laws to be Observed	(October 12, 2017)	1
Revision of Section 107 – Water Quality Control (Contractor Obtained Stormwater Permit)	(March 29, 2016)	6
Revision of Sections 107 and 208 – Water Quality Control, Under One Acre of Disturbance	(November 2, 2017)	4
Revision of Section 108 – Liquidated Damages	(July 20, 2017)	1
Revision of Section 108 – Subletting of Contract	(October 12, 2017)	1
Revision of Section 108 – Payment Schedule (Single Fiscal Year)	(July 3, 2017)	1
Revision of Section 109 – Prompt Payment	(July 3, 2017)	2
Revision of Section 206 – Removability Modulus	(October 12, 2017)	1
Revision of Section 250 – Environmental, Health and Safety Management	(July 3, 2017)	3
Revision of Section 612 – Flexible Delineators	(July 3, 2017)	1
Revision of Section 614 – Accessible Pedestrian Signal	(July 3, 2017)	3
Revision of Section 703 – Classification for Aggregate Base Course	(October 12, 2017)	1
Affirmative Action Requirements – Equal Employment Opportunity	(July 3, 2017)	10
Partnering Program	(July 3, 2017)	1

CONSTRUCTION LIMITS

The construction limits for the two sites are defined as follows:

- 35th Avenue, Sheridan Blvd. to Jason Street – limits of Neighborhood Bikeway improvements (bikeway signing, pavement markings and wayfinding only); Physical improvements at Lowell, Irving and Tejon Streets only.
- Knox Court, Alameda Ave. to Kentucky Ave. - limits of Neighborhood Bikeway improvements (bikeway signing, pavement markings and wayfinding only); Physical improvements at Kentucky, Exposition, Custer and Virginia Avenues only.
- Add Alternate; Morrison Rd at Walsh Place – Physical improvements at south corner.

Furthermore, the construction limits include the placement of traffic signs and traffic control devices along City Streets to be used for construction traffic control and detours.

All Work shall be fully within existing City & County of Denver Right-of-Way.

Impacts to existing landscaping, concrete, sidewalk, structures, sprinklers, curbs, gutters, etc. that occur beyond the right-of-way shall be repaired by the Contractor at their own expense. Impacts to existing landscaping, concrete, sidewalk, structures, sprinklers, curbs, gutters, etc. that occur within the right-of-way, but are not specifically designated to be removed by the Contract Drawings or by the Project Engineer, shall be repaired by the Contractor at their own expense.

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**COMMENCEMENT AND COMPLETION OF WORK
(WORKING HOURS, SCHEDULE)**

The Contractor shall commence work under the Contract per the City General Contract Conditions. The Contractor shall complete all work within 120 calendar days in accordance with the "Notice to Proceed."

Salient features to be shown on the Contractor's Progress Schedule are:

1. Notice to Proceed
2. Mobilization(s)
3. Construction Traffic Control and Pedestrian Detours
4. Best Management Practices/Erosion Control
5. Clearing and Grubbing
6. Removal of Pavement
7. Removal of Sidewalks
8. Removal of Curb & Gutter
9. Storm Sewer Modifications
10. Asphalt Paving
11. Curb and Gutter, Curb Ramps
12. Sidewalk
13. Final Signing
14. Final Striping
15. Median and Amenity Zone Concrete Cover Material
16. Landscape Restoration
17. Anticipated Substantial Completion and Opening to Traffic
18. Anticipated Substantial Completion of Landscape Restoration
19. Anticipated Final Completion
20. Project Cleanup

Contractor Schedule

The Contractor's progress schedule shall be a Critical Path Method Schedule. The schedule shall include 15 days of down time (float) for utility conflicts and delays.

The Contractor will not be compensated for administrative or management costs incurred during down time due to utility or other delays.

No additional payment will be made of out of sequence work.

**COMMENCEMENT AND COMPLETION OF WORK
(WORKING HOURS, SCHEDULE, AND CITY FURLOUGH DAYS)**

Work Restrictions Nights and Weekends

No work shall be conducted on weekends without prior written approval of the Project Engineer.

No work shall be conducted on weekdays from 6:00 pm to 7:00 am without written approval of the Project Engineer.

Work Restrictions for City Holidays

Work shall not occur on holidays listed below. Work shall cease at 12:00 p.m. (noon) the day before the holiday or on the Friday before a Monday holiday. Work may resume at 9:00 a.m. the first weekday after the holiday. All travel ways shall be open to the public and clear of obstructions during the holiday non-working periods listed above.

Holidays:

- New Years Day
- Martin Luther King Day
- President's Day
- Cesar Chavez Day
- Memorial Day
- Independence Day
- Labor Day
- Veteran's Day
- Thanksgiving Day
- Christmas Day

Work Restrictions for City sponsored or sanctioned events

Work may be restricted by City sponsored or sanctioned events. The Project Engineer will inform the Contractor of such events a minimum of two weeks prior to said event.

Work Restrictions for City Noise Ordinance and Street Occupancy Permit

Work shall be in conformance with the City's Noise Ordinance and the Contractor's street occupancy permit.

Substantial Completion

Substantial completion has two components:

1. Substantial completion of facilities open to the Public.
2. Substantial completion of landscape restoration

Each component will be approved separately by the Project Engineer.

**REVISION OF SECTION 101
DEFINITION AND TERMS**

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

Technical Specifications related to construction materials and methods for the Work under this Contract shall consist of the State Department of Highways, Division of Highways, State of Colorado, Standard Specifications for Road and Bridge Construction dated 2017.

Certain terms utilized in the Specifications referred to in the paragraph above shall be interpreted to have different meaning within the scope of this Contract. The following subsections shall be replaced with the following:

101.28 Department or Department of Transportation. The City & County of Denver's Department of Public Works

101.29 Engineer. The designated Project Engineer with the City & County of Denver Department of Public Works, who is responsible for Project Engineering and administrative supervision of the project.

101.51 Project Engineer. The City & County of Denver's duly authorized representative who is in direct charge of the work and is responsible for the administration and satisfactory completion of the project under contract. The Project Engineer or Manager for this project will be an employee with the City's Public Works Department.

101.76 State. The City and County of Denver, Colorado (where applicable).

Subsection 101.96 shall be added as follows:

101.96 Project Manager. References to the "Project Manager" within the Project Special Provision and Plans will refer to the City and County of Denver Project Manager.

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

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

Subsection 102.05 shall include the following:

The following information will be available for review at the City & County of Denver, Department of Public Works – Project Engineering Division, 201 West Colfax Avenue, Dept. 508, Denver, CO 80202, until the date set for the opening of bids:

1. Construction Plans and Specifications: 35th Avenue Neighborhood Bikeway Improvements prepared by AECOM
2. Construction Plans and Specifications: Know Court Neighborhood Bikeway Improvements prepared by FHU

**REVISION OF SECTION 105
CONTROL OF WORK**

Subsection 105.12 shall include the following:

The Contractor shall coordinate with the City and County of Denver to identify any ongoing or proposed construction activity in the vicinity of the project. The Contractor shall coordinate and cooperate fully with any and all other Contractors doing construction work within the limits of the project.

The Contractor shall coordinate construction activities, detours, traffic control and lane closures so as to not adversely impact that Contractor's operations or the traveling public.

**REVISION OF SECTION 107
PROTECTION OF EXISTING VEGETATION**

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

Subsection 107.12 shall include the following:

The Contractor shall save all existing vegetation (including trees, shrubs, ground covers, grasses, wetlands & riparian) in this area, except for that vegetation, which must be removed to accommodate construction of the project, per the plans. 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 stockpile material within 15 feet of existing trees to remain.

The Contractor shall perform all 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 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, 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 use the International Society of Arboriculture, Guide for Plant Appraisals. The Contractor shall pay any fines or jail time should a wetland be damaged, at no cost to the project.

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

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

A consulting Arborist retained by the City 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 City's Landscape Architect or Wetland Specialist. Contact Jim Myer at CCD Forestry Department.

- Jim Myer - Arborist, phone - 720-913-0681, email - james.myer@denvergov.org

If the fence is knocked down or destroyed by the Contractor, the Project Engineer will suspend the work, wholly or in part, until the fence is repaired to the Project Engineer'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
PROTECTION OF EXISTING VEGETATION**

The City of Denver Parks & Recreation requires compliance with the following when work is required around trees in the public right of way. Trenching techniques shall comply with:

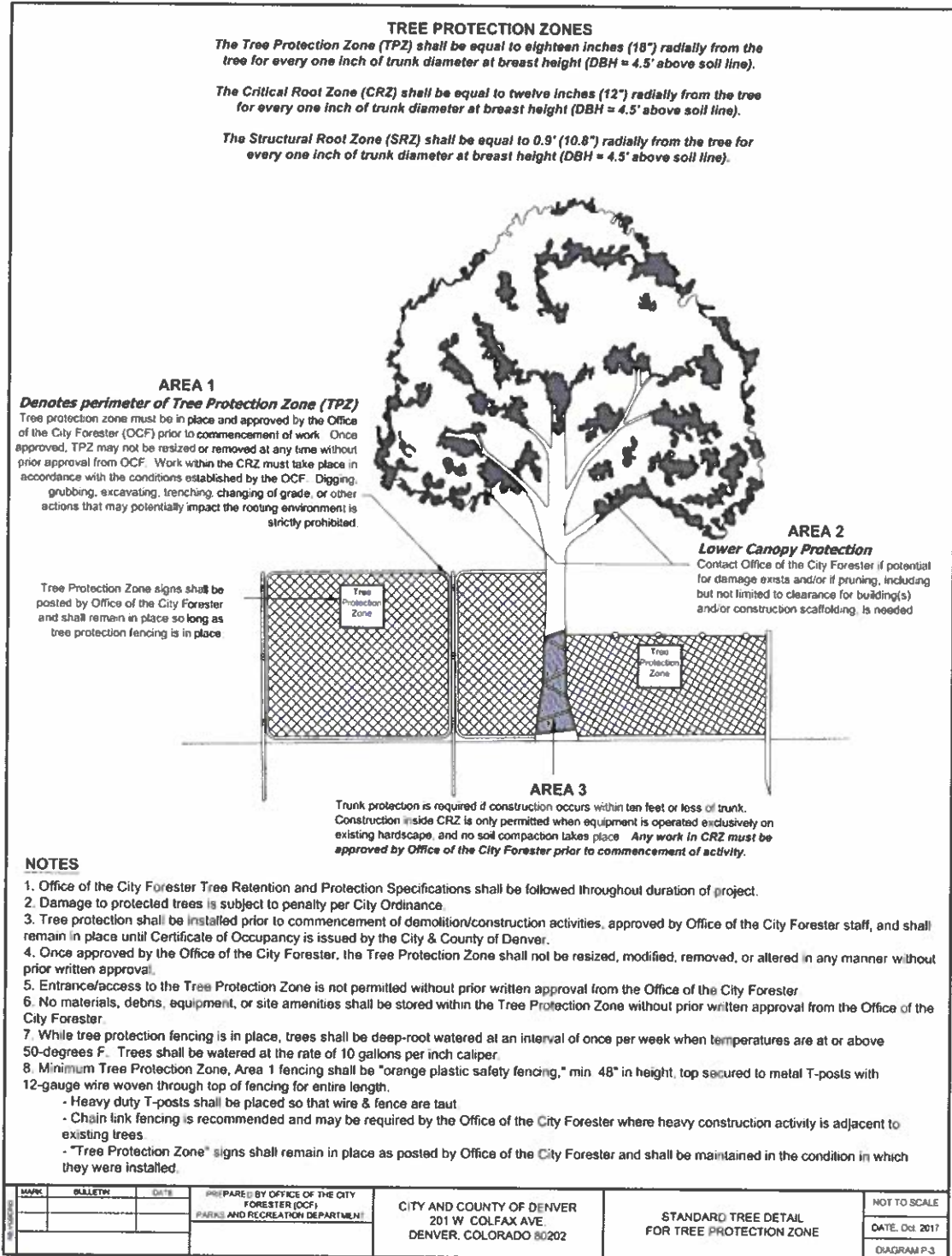
- 1) Trenching shall be no closer to the tree than the drip line (the area under the tree branches);
- 2) Adjust the route to avoid roots as much as possible;
- 3) Store soil opposite the tree side of the trench;
- 4) Backfill quickly and cleanly, and water roots deeply;
- 5) Tunneling/boring shall be at least 4 feet below ground;
- 6) No excavation or equipment storage shall occur in the critical root zone (see Standard Tree Detail for Tree Protection Area to calculate critical root zone area);
- 7) All pit locations shall be staked and approved prior to an excavation;
- 8) No root 2 inches or larger shall be cut;
- 9) Minimize the work pit to no wider than the trench;
- 10) Where equipment is working near trees, protective fencing shall be erected at or just outside the drip line (see Standard Tree Detail for Tree Protection Area);
- 11) Prevent soil compaction by adding six to twelve inches of wood chips;
- 12) A licensed tree company shall be retained to prune broken branches as well as compensatory pruning if necessary to help the tree recover from root loss;
- 13) The City & County of Denver *Tree Retention and Protection Specifications* must be followed. For a copy of the Tree Protection Specifications, please contact the Forestry Office of Denver Parks and Recreation at 720-913-0651.

Payment will be made under:

Pay Item	Pay Unit
Tree Protection and Retention	Lump Sum

Payment shall be full compensation for all labor, materials and equipment necessary to complete the item.

REVISION OF SECTION 107 PROTECTION OF EXISTING VEGETATION



**REVISION OF SECTION 201
CLEARING AND GRUBBING**

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

Subsection 201.02 shall include the following:

Clearing and grubbing shall include the removal of landscape, decorative rock, miscellaneous landscaping materials (including rock mulch, organic mulch, and rip rap rock), metal landscape border, shrubs, plant materials, and other materials within the work area not otherwise listed as a pay item.

Work involving trees to remain shall conform to applicable provisions of Sections 107 and 212..

Trees to remain shall be protected during clearing and grubbing operations, as well as for the duration of construction.

No removals shall take place until marked by Contractor and approved by the Project Engineer.

In Subsection 201.02, delete the second paragraph and replace with the following:

Clearing and grubbing shall be within the limits of the construction, as identified in the plans. All other areas of clearing and grubbing shall be as directed by the Project Manager.

In Subsection 201.02, delete the sixth paragraph and replace with the following:

No material or debris shall be disposed of within the project limits; and shall be legally disposed of off-site or preferably to a recycling center. The Contractor shall make all arrangements to obtain written permission from property owners for disposal locations outside the limits of the project. Copies of this written agreement shall be furnished to the Project Manager before the disposal area is used.

Existing trees, shrubs, bushes or grass, outside the designated work areas but inside the project limits that are damaged due to the Contractor's operations shall be replaced in kind at the Contractor's expense.

In sub section 201.02, delete the eighth paragraph and replace with the following:

Locate and suitably identify shrubs and improvements indicated to remain. No shrubs shall be removed until marked and approved by the Project Engineer. Branches of trees extending over the roadbed shall be trimmed to give a clear height of 16 feet above the roadbed surface. All trimming will be done in accordance with good tree surgery practices by a qualified tree service company licensed by the City and County of Denver through the Forester's office.

Subsection 201.04 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Clearing and Grubbing	Lump Sum

**REVISION OF SECTION 202
REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

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

Subsection 202.01 shall include the following:

Removal of Structures and Obstructions shall include protection of utilities including water meters and valves, fire hydrants, traffic control boxes and pull boxes, monitoring wells, RTD stop assemblies, mailboxes and survey documentation.

Subsection 202.02 shall include the following:

After removal, the exposed subgrade surface shall be finished to a smooth and uniform surface conforming to required subgrade elevations.

The Contractor shall mark the limits of removals in the field and shall arrange for those proposed limits to be verified by the Project Engineer.

Removals in the vicinity of trees to remain shall conform to applicable provisions of Sections 107 and 212.

No payment will be made for sprinkler or utility relocation beyond the project limits.

Subsection 202.07 shall include the following:

All concrete pavement, sidewalks, structures, curbs, gutters, asphalt pavement, etc. designated for removal shall be broken into pieces and disposed of outside the Project Limits.

Old concrete construction which abuts new concrete construction, edges of pavement, sidewalks, curbs, etc., to be left in place shall be saw-cut to a true line with a vertical face.

Subsection 202.11 shall include the following:

Protection of utilities to remain or be removed and reset including but not limited to water meters and valves, fire hydrants, traffic control boxes and pull boxes, monitoring wells, RTD stop assemblies, mailboxes and survey documentation will not be measured and paid for but shall be included in the work.

**REVISION OF SECTION 202
REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

Subsection 202.12 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Removal of Tree Stump	Each
Removal of Inlet	Each
Removal of Pipe	Linear Foot
Removal of Sidewalk	Square Yard
Removal of Curb and Gutter	Linear Foot
Removal of Curb	Linear Foot
Removal of Concrete Curb Ramp	Square Yard
Removal of Concrete Pavement	Square Yard

The square yard price bid for removal of concrete sidewalk and establishment of required finished subgrade elevations shall include all the Contractor's costs of labor, materials, and machinery. The bid price shall include excavation, over-excavation to remove unsuitable material, the removal and partial removal and disposal of existing materials including earth backfill and gravel.

**REVISION OF SECTION 202
REMOVAL OF ASPHALT MAT**

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

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.

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 underlying materials with the removed mat. The removed mat shall become the property of the Contractor and shall be either disposed of outside the project site, or used in one or more of the following ways:

1. Used in embankment construction in accordance with subsection 203.06.
2. Placed in bottom of fills as approved by the Project Engineer.
3. Placed in the subgrade soft spots outside of the roadway prism as directed by the Project Engineer.

Irregularities and distresses on the unfinished surface, such as, but not limited to, delamination, raveling, and potholes that are identified by the Project Engineer shall be repaired as soon as possible. All unfinished surfaces shall be covered with new asphalt within 3 calendar days.

The roadway shall be left in a safe and usable condition at the end of each work day. The Contractor shall take appropriate measures to ensure that the surface does not trap or hold water. All required pavement markings removed shall be restored before the roadway is opened to traffic.

METHOD OF MEASUREMENT

Subsection 202.11 shall include the following:

The removal of the existing asphalt mat will be measured by the area in 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:

Pay Item	Pay Unit
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 PAVEMENT MARKINGS**

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

In subsection 202.11, delete the second paragraph and add the following:

Removal of pavement marking will not be measured but shall be included in the work. Sandblasting of pavement that is to be covered with pavement marking material will not be measured and paid for separately but shall be included in the cost of the work.

**REVISION OF SECTION 203
POTHOLING**

Section 203.05(g) of the Standard Specifications shall be modified to include the following:

All surface material disturbed by potholing shall be fully restored in kind, in accordance with the provisions of the *Standards and Details for the City and County of Denver* (April 2017).

- All potholes must be core drilled.
- All potholes must be backfilled using only one of the following methods:
 - Wet Sand
 - Flowfill
 - Flashfill
 - The Contractor may submit a written request to use a material not specified above (squeegee, pea gravel, and native material will not be allowed)
- Potholes in an asphalt street must be patched back using hot bituminous asphalt, minimum 9-inch in depth.
- Potholes in a concrete street must be patched back with fast curing high strength concrete no less than 8000 psi in 28 days and a 3000 psi in 60 minutes.
- Full concrete panel replacement is required when a third pothole is core drilled in the same panel. The Contractor that cut the last pothole (i.e. 3rd) will be required to replace the panel.
- Any pothole in a sidewalk will require a full panel replacement.
- Any pothole in the curb and gutter or any drainage way will require at a minimum, a half panel replacement.

METHOD OF MEASUREMENT

Delete Subsection 203.11(e) and replace with the following:

(e) Potholing. Potholing will be measured by Each. All other related work, including removal of existing pavement, backfilling dumping fees, shoring and labor will not be measured and paid for separately, but shall be included in the work. All surface material disturbed by potholing shall be restored in kind in accordance with the provisions of the *Standards and Details for the City and County of Denver* (Latest Revision). FOR CCD Streets (all) – related work also includes permanent backfill with CLSM (flow fill or flashfill), permanent asphalt patches in asphalt street, and new concrete panel for sidewalk if one pothole in sidewalk, new street concrete panel if 3 or more potholes result after work is done. Follow CCD TS&D for restoration.

BASIS OF PAYMENT

Subsection 203.12 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Potholing	Each

**REVISION OF SECTION 206
STRUCTURE EXCAVATION AND BACKFILL
FOR SANITARY AND STORM SEWERS**

Section 206 of the Standard Specifications is hereby revised for this project as follows:

DESCRIPTION

Subsection 206.01 shall include the following:

For construction of Storm and Sanitary Sewer structures, Subsections 206.01 through 206.05 shall be replaced with the most recent edition of the City and County of Denver, Department of Public Works, Wastewater Management Division "Wastewater Capital Projects Management Standard Construction Specifications" and "Wastewater Capital Project Management Special Provisions Standard Concrete Construction Details and Technical Specifications" at the time of Project advertisement, hereby incorporated into this Section by reference. All references in the replacement Technical Specifications to measurement and payment and item numbers referencing Standard Construction Specifications shall be deleted.

The referenced documents can be found at the following websites:

[https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits.html)

[https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html)

Compaction Method B shall be used.

The upper two feet of trench that will support roadway and sidewalks shall be per Section 203.

METHOD OF MEASUREMENT

Subsection 206.06 shall include the following:

Structure Excavation, Structure Backfill, Bed Course Material and Filter Material will not be measured.

BASIS OF PAYMENT

Subsection 206.07 shall include the following:

Structure Excavation, Structure Backfill, Bed Course Material and Filter Material will not be paid for separately. Payment for these items shall be included in the unit cost bid for the structure or pipe requiring the excavation, backfill, bed course material or filter material.

**REVISION OF SECTION 208
EROSION CONTROL**

Section 208 of the Standard Construction Specifications is hereby removed in its entirety and replaced with "Revision of Section 208 – Erosion Control" of the most recent edition of the City and County of Denver, Department of Public Works, Wastewater Management Division "Wastewater Capital Project Management Special Provisions Standard Concrete Construction Details and Technical Specifications" at the time of Project advertisement, hereby incorporated into this Section by reference.

The referenced documents can be found at www.denvergov.org and/or at the following web address:

[https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html)

Payment will be made under:

Pay Item	Pay Unit
Erosion Control	Lump Sum

Payment will be full compensation for all labor, materials and equipment necessary to complete the work.

**REVISION OF SECTION 209
WATERING AND DUST PALLIATIVES**

Section 209 of the Standard Specifications is hereby revised for this project as follows:

Subsection 209.07 paragraph 1 shall be deleted and replaced with the following:

Water for moisture-density control, landscaping, pre-wetting, and for dust palliatives will not be measured and paid for separately but shall be included in the cost of the work.

**REVISION OF SECTION 210
VALVE BOX, WATER METER AND MANHOLE ADJUSTMENTS**

Section 210 of the Standard Specifications is hereby revised for this project as follows:

Subsection 210.10 shall include the following:

The Contractor shall notify each utility company (Owner) prior to any construction that will involve the adjustment of its valve boxes, water meter pits or manholes.

Each Owner will mark all of its valve boxes, water meters and manholes that will be involved in the specified construction area.

Prior to commencing construction, the Contractor shall coordinate and conduct, with the Project Engineer and each Owner, an inspection of all impacted valve boxes, water meter pits and manholes. The purpose of this inspection will be to account for all valve boxes, meter pits and manholes involved in the construction and determine their accessibility and condition. The Contractor shall provide traffic control for this inspection and for the final inspection. The Contractor shall coordinate construction with the Owner to allow sufficient time for the Owner to make all necessary repairs to valve boxes, meter pits and manholes before construction begins in the area of the valve boxes, meter pits and manholes. All parties shall agree on the condition of each valve box, meter pits and manhole prior to construction.

The Contractor shall replace all valve box sections damaged or misplaced during construction with new valve box sections complying with the requirements of the Owner's specifications. The Contractor shall set each valve box to be adjusted so that it is $\frac{1}{4}$ inch to $\frac{1}{2}$ inch below the final grade of the paved surface, or to the satisfaction of the Owner, and so that it is plumb over the operating nut of the valve.

The Contractor shall adjust all water meter pits and manholes that require adjustment with materials conforming to the Owner's specifications. Some adjustments may require the addition, removal, or replacement of a manhole or cone section. If manhole adjustment requires a manhole cone or barrel section to be added, removed, or replaced, this work will not be considered as "Adjust Manhole", but shall be performed in accordance with the Section 210 requirements for the item "Modify Manhole".

The Contractor shall prevent tools, concrete, dirt, or debris of any kind from falling into the channel of the existing manhole. The Contractor shall clean or remove debris from downstream sewer that enters as a result of the Contractor's work.

The Contractor shall prevent tools, concrete, dirt, or debris of any kind from falling into the existing meter pit.

When the project includes planing prior to resurfacing, the Contractor shall first lower all valve boxes and manholes below the surface to be planed and then adjust them up to final grade after the paving operation is complete.

Prior to the final inspection, the Contractor shall thoroughly clean all valve boxes designated for cleaning. This work shall be performed in accordance with the Section 202 requirements for the item "Clean Valve Box".

VALVE BOX, WATER METER AND MANHOLE ADJUSTMENTS

The Contractor shall coordinate and conduct, with the Project Engineer and each Owner, a final inspection upon completion of construction. This inspection shall assure that all valve boxes, water meter pits and manholes are in compliance with these requirements. The Project Engineer will obtain the Owner's written approval before accepting the work.

Subsection 210.12 shall include the following:

The Contractor will be paid separately for each valve box, water meter or manhole adjustment completed down and for each adjustment completed up.

Subsection 210.13 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Adjust Manhole	Each
Modify Inlet (Special)	Each
Adjust Valve Box	Each
Adjust Water Meter	Each

Adjustments that include adding, removing, or replacing a manhole cone or barrel section will be paid for under the Section 210 pay item, Modify Manhole.

Cleaning designated valve boxes will be paid for under the Section 202 pay item, Clean Valve Box.

**REVISION OF SECTION 212
SEEDING, FERTILIZER AND SODDING**

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

Sections 212 shall be revised per the most recent edition of the City and County of Denver, Department of Public Works, Wastewater Management Division “Wastewater Capital Project Management Special Provisions Standard Concrete Construction Details and Technical Specifications” at the time of Project advertisement, hereby incorporated into this Section by reference.

The referenced documents can be found at www.denvergov.org and/or at the following web address:

[https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html)

Seeding, Fertilizer, and Sodding (including related sections) within City Park shall be completed per “Denver Parks Recreation Planning, Design Construction Standards” and “Technical Specifications” as applicable at the time of Project advertisement, hereby incorporated into this Section by reference.

The referenced documents can be found at the following website:

<https://www.denvergov.org/content/denvergov/en/denver-parks-and-recreation/planning/planning-resources.html>

**REVISION OF SECTION 603
CULVERTS AND SEWERS**

Section 603 of the Standard Specifications is hereby revised for this project as follows:

CONSTRUCTION REQUIREMENTS

Subsections 603.02 through 603.11 are hereby deleted and shall be replaced with:

The City and County of Denver, Department of Public Works, Wastewater Management Division “Storm Drainage and Sanitary Sewer Construction Detail and Technical Specifications”, hereby incorporated into this Section by reference. All references in the replacement specifications to measurement and payment and item numbers referencing Standard Construction Specifications shall be deleted.

The referenced documents can be found at the following website links:

[https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits.html)

<https://www.denvergov.org/content/dam/denvergov/Portals/711/documents/StormMasterPlan/StormDrainageDesignTechnicalCriteria.pdf>

Compaction Method B as defined in the above replacement specifications shall be used.

Class B bedding shall be used unless specified otherwise on the Drawings or elsewhere in the Contract Documents, or directed otherwise by the Project Manager.

BASIS OF PAYMENT

Delete the second paragraph in Subsection 603.13 and replace with the following:

Structural excavation, bedding, and structural backfill will not be measured and paid for separately but shall be included in the related work.

Payment will be made under:

Pay Item	Pay Unit
12 Inch Reinforced Concrete Pipe (Complete In Place)	Linear Foot
15 Inch Reinforced Concrete Pipe (Complete In Place)	Linear Foot
18 Inch Reinforced Concrete Pipe (Complete In Place)	Linear Foot

All items and work necessary and incidental to the construction of the drainage pipe will not be measured and paid for separately but shall be included in the work.

**REVISION OF SECTION 604
MANHOLES AND INLETS**

Section 604 of the Standard Specifications is hereby revised for this project as follows:

Subsections 604.02 through 604.07 are hereby deleted and shall be replaced with:

The City and County of Denver, Department of Public Works, Wastewater Management Division "Storm Drainage and Sanitary Sewer Construction Detail and Technical Specifications", hereby incorporated into this Section by reference. All references in the replacement specifications to measurement and payment and item numbers referencing Standard Construction Specifications shall be deleted.

For construction of Storm and Sanitary Sewer structures, Sections 604 shall be revised per the most recent edition of the City and County of Denver, Department of Public Works, Wastewater Management Division "Wastewater Capital Projects Management Standard Construction Specifications" and "Wastewater Capital Project Management Special Provisions Standard Concrete Construction Details and Technical Specifications" at the time of Project advertisement, hereby incorporated into this Section by reference.

The referenced documents can be found at the following website:

[https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits.html)

[https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html](https://www.denvergov.org/content/denvergov/en/wastewater-management/capital-projects-management/Project%20Engineering-and-permits/wastewater-cap-projects-standard-construct-specs.html)

Compaction Method B as defined in the above replacement specifications shall be used.

Class B bedding shall be used unless specified otherwise on the Drawings or elsewhere in the Contract Documents, or directed otherwise by the Project Construction Project Engineer.

BASIS OF PAYMENT

Subsection 604.07 shall include the following:

Denver Triple No. 16 Inlet shall be paid for as Inlet Type 16, Each
Denver Type C Manholes shall be paid for as Manhole Special (10 Foot), Each.

Subsection 604.07 shall include:

Pay Item	Pay Unit
CCD Single No. 16 Inlet Valley (S-616V)	Each
CCD Single No. 14 Inlet (S-620V)	Each
CCD Single No. 14 Inlet L6 (Special)	Each
CCD Single No. 16 Inlet (S-616.1)	Each

**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 be revised to include the following:

This work consists of the construction of concrete sidewalks and curb ramps in accordance with these specifications and in conformity with the lines and grades shown on the plans or established.

Concrete Curb Ramp construction shall conform to the requirements of the City and County of Denver's Standard Details for Curb Ramps (Details 7.0 through 7.8)

MATERIALS

Delete Subsection 608.02 and replace with the following:

Materials shall meet the requirements specified in the following subsections:

- Concrete shall be Class B Subsections 601.02 and 601.03.
- Joint Fillers Subsection 705.01
- Joint Sealants Subsection 705.01

All concrete used for sidewalks, bikeways, and curb ramps shall be reinforced with polypropylene fibers. Polypropylene fibers shall be FIBERMESH or FORTA FIBRE. Length of fibers shall be as recommended by the manufacturer. Add 1.5 pounds FIBERMESH or FORTA FIBRE per cubic yard of concrete.

ASTM C-1315 cure+seal shall be applied to all paving and flatwork placed September 1 through April 1 to minimize damage from de-icing chemicals. Cure and seal should only be placed after contractor has waited for all bleed water to be removed. If contractor does not wait, apply cure the first day, then cure and seal the next day after required blanketing is removed.

For detectable warnings, the Contractor shall submit a sample of the product, the name of the selected supplier, and documentation that the product meets all contrast requirements and will be fully compatible with the curb ramp surface to the Project Engineer for approval prior to the start of work.

CONSTRUCTION REQUIREMENTS

Subsection 608.03 shall include the following:

Detectable warnings on curb ramps shall be installed in strict accordance with the manufacturer's recommendations.

In Subsection 608.03(a) delete the third sentence and replace with the following:

Where excavation to the finished grade elevation results in a sub grade of unsuitable soil, the Project Engineer may designate the unsuitable material to be removed and replaced with approved material. Removal of unsuitable material shall be paid for as Muck Excavation in accordance with Revision of Section 203.05(c), and backfilled with Aggregate Base Course (Class 6), or other material approved by the Project Engineer.

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

Contractor shall provide a Jointing Layout Plan for review with the Project Engineer two weeks prior to concrete installation. Joints have typically been called out on drawings and should be used as a starting point for this Jointing Layout Plan. Additional jointing will be necessary for Best Practices of concrete installation and unforeseen field conditions. Contractor shall accommodate this as necessary.

Subsection 608.03(d) shall include the following:

Finishing shall occur only after the disappearance of bleed water. The addition of superficial water to the surface of the concrete to assist in finishing operations will not be permitted. Sprinkling of pigment onto the fresh surface will not be permitted.

The Contractor shall insure that new concrete items built under this contract drain properly and, as such, there are no areas of standing water on new concrete items.

Subsection 608.03 (g) Protection of New Concrete shall be added as follows:

(g) Protection of New Concrete. The Contractor shall protect all new concrete items built under this Contract against defacement, or other injury, from any cause. If said damage cannot be adequately repaired to the satisfaction of the Project Engineer, the Contractor shall remove and replace the unacceptable items at Contractor's expense.

BASIS OF PAYMENT

Subsection 608.06 shall be revised to include the following:

Excavation to proposed sub grade elevation will not be paid for separately but shall be included in the Sidewalk and Concrete Curb Ramp pay items.

Detectable warnings on new curb ramps, including all work and materials necessary for fabrication, transport and installation will not be measured and paid for separately, but shall be included in the work. Truncated Dome Panels will not be paid for separately but shall be included in Concrete Curb Ramp.

All work necessary and incidental to the construction of Concrete Curb Ramp including bed course material, will not be measured and paid for separately but shall be included in the work.

Payment shall be full compensation for prep work, furnishing, and placing all materials, including detectable warnings, necessary to complete the work to the dimensions shown on plans.

Reconditioning, forms, finishing, jointing, backfill and curing, will be in accordance with the plans and specifications and will not be paid for separately.

ASTM C-1315 cure + seal will not be paid for separately but included in the work.

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

Subsection 608.06 shall include the following:

Pay Item	Pay Unit
Concrete Sidewalk (4 Inch)	Square Yard
Concrete Sidewalk (6 Inch)	Square Yard
Concrete Curb Ramp	Square Yard

**REVISION OF SECTION 609
CURB AND GUTTER**

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

MATERIALS

Subsection 609.02 shall include the following:

In the first paragraph, reference to Section 703.07, Bed Course Material, shall be deleted.

Subsection 609.02, Paragraph 2 shall be deleted and replaced with the following:

Concrete shall conform to the requirements for Class P concrete, with 4500 psi at 28 days, as specified in subsections 601.02 and 601.03. AASHTO M 43 Size 57 or 67 aggregate shall be used, and a maximum slump of 4" will be permitted.

CONSTRUCTION REQUIREMENTS

Subsection 609.03(a) is revised to include:

Excavation shall conform to the requirements of the revisions to Subsection 608.03(a)- Sidewalk and Bikeways.

Subsection 609.03(b) is revised to include:

The Contractor shall construct the work in strict conformity to line and grade stakes. Deviations in excess of 1/2" Horizontal and/or 1/4" Vertical shall be grounds for the Project Engineer to reject the work. Rejected work will be replaced or corrected by the Contractor at no expense to the City. The Project Engineer will have complete authority in determining whether the work is to be corrected or replaced. If the Contractor cannot adequately correct any rejected work, the Contractor shall replace the work at no expense to the City.

Subsection 609.03(c) shall be revised to include the following:

The Contractor shall protect all new concrete items built under this Contract against defacement, or other injury, from any cause. If said damage cannot be adequately repaired to the satisfaction of the Project Engineer, the Contractor shall remove and replace the unacceptable items at Contractor's expense.

Subsection 609.03(d) shall include the following:

For construction of curb and gutter adjacent to existing concrete pavement, the joint pattern shall match that of the concrete pavement. The joint pattern shall be approved by the Project Engineer prior to construction.

Subsection 609.03(i) shall include the following:

The Contractor shall insure that new concrete items built under this contract drain properly and, as such, there are no areas of standing water on new concrete items. Any low spots in the new concrete items in excess of 1/4" will require removal and replacement of such items at the Contractor's expense.

**REVISION OF SECTION 609
CURB AND GUTTER**

Subsection 609.03(j) Protection of New Concrete shall be added as follows:

- (j) *Protection of New Concrete.* The Contractor shall protect all new concrete items built under this Contract against defacement, or other injury, from any cause. If said damage cannot be adequately repaired to the satisfaction of the Project Engineer, the Contractor shall remove and replace the unacceptable items at Contractor's expense.

Subsection 609.04 shall be added as follows:

ASTM C-1315 cure+seal shall be applied to all paving and flatwork concrete placed Sept 1 thru April 1st to minimize damage from deicer chemicals. Cure and seal should only be placed after contractor has waited for all bleed water to be removed. If contractor does not wait, apply cure the first day, then cure and seal the next day after required blanketing is removed.

Subsection 609.06 shall include the following:

ASTM C-1315 cure+seal will not be paid for separately but included in the work.

Subsection 609.07 shall include the following:

Pay Item	Pay Unit
6 Inch Curb Head	Linear Foot
6 Inch Curb and Gutter -1' Spill Pan	Linear Foot
6 Inch Curb and Gutter -2' Catch Pan	Linear Foot

**REVISION OF SECTION 610
MEDIAN COVER MATERIAL**

Section 610 of the Standard Specifications shall be revised for this project as follows:

Subsection 610.02 shall include the following:

Aggregate for concrete median cover material shall be #67 or #57.

Subsection 610.03 shall include the following:

Landscape weed barrier fabric shall be installed in accordance with Subsection 420.08.

Subsection 610.05 shall include the following:

The accepted quantities will be paid for at the contract unit price for each of the pay items listed below.

Payment will be made under:

Pay Item	Pay Unit
Median Cover Material (4" Patterned Concrete)	Square Foot

Landscape weed barrier fabric will not be measured and paid for separately but shall be included in the work.

**REVISION OF SECTION 625
CONSTRUCTION SURVEYING**

Section 625 of the standard specifications is hereby revised as follows:

Delete section 625 and replace with the following:

DESCRIPTION

625.01 This work consists of the construction surveying, calculating, and staking necessary for the construction of all elements of the project. The work shall be done under the supervision of a Professional Land Surveyor (PLS) who is licensed in the State of Colorado.

Locating, preserving, referencing, installing and restoring land monuments such as Primary Control monuments from which the Right of Way or any land boundary will be calculated, described or monumented, Public Land Survey System (PLSS) monuments, General Land Office (GLO) monuments, Bureau of Land Management (BLM) monuments, Mineral Survey (MS) monuments, Right of Way (ROW) monuments, property boundary monuments and offsets, range points, benchmarks, easement monuments, and other monuments that are required by law or regulation to be established by a PLS, and the determination of any land boundary, shall be done under the supervision of a Professional Land Surveyor (PLS) who is licensed in the State of Colorado.

MATERIALS AND EQUIPMENT

625.02 The Contractor shall furnish all personnel, survey equipment, safety equipment, materials, and traffic control necessary to perform the required construction surveying and staking. All surveying equipment, including Electronic Distance Meters (EDM), total stations, theodolites, levels, rods, tapes, tripods, tribrachs, and Global Positioning System (GPS) receivers and equipment.

If any survey equipment is found to be functioning outside the manufacturer's specified tolerance, certification from an approved repair facility showing that the instruments have been repaired, properly adjusted, or both if necessary shall be included in the survey records and submitted to the City Surveyor's Office before being used.

CONSTRUCTION REQUIREMENTS

625.03 A Construction Survey Conference shall be held with the City Surveyor's Office prior to performing any surveying work under this section. The Contractor's Surveyor (PLS) and Party Chief shall attend. A Construction Survey Checklist shall be completed and signed by the City Surveyor's Office and the Contractor.

The Contractor shall check and verify all established Primary horizontal and vertical control points.

**REVISION OF SECTION 625
CONSTRUCTION SURVEYING**

All survey records generated shall be the property of the City and shall be available to the City Surveyor's Office for inspection or reproduction at all times. All survey records shall be transmitted to the City Surveyor's Office for inclusion into the project records before final project acceptance.

Electronic formats may be acceptable, please coordinate with the City Surveyor's Office.

Copies of any new Monument Records filed by the PLS with the State Board of Registration shall be submitted to the City Surveyor prior to filing.

- 625.04 Contractor Surveying.** The Contractor's PLS shall perform all construction surveying and staking that is necessary for construction of the project.
- 625.05 Staking.** It is the responsibility of the Contractor's PLS to adhere to industry standards and acceptable practices in regards to staking. Any restaking will be the responsibility of the Contractor's PLS at no cost to the City.
- 625.06 Accuracy and Tolerances.** It is the responsibility of the Contractor's PLS to adhere to industry standards and applicable standards with regard to horizontal and vertical accuracy tolerances.
- 625.07 Responsibility and Inspection.** Supervision and coordination of construction surveying and staking is the Contractor's responsibility. The City Surveyor's Office or Project Engineer may inspect the Contractor's surveying; however such inspection will not relieve the Contractor of any responsibility for accuracy or completeness of work. All Contractor surveying inaccuracies, errors, or omissions shall be corrected at the Contractor's expense.
- 625.08 Reset Monuments and Stakes.** Survey monuments, benchmarks, and other significant stakes that are damaged, destroyed, or made inaccessible by the progress of construction shall be replaced, transferred or reestablished at the Contractor's expense.
- Locating, preserving, referencing, installing and restoring land monuments as described in 625.01, shall be done in accordance with Section 629, under the supervision of a PLS who is experienced and competent in Right of Way and boundary surveying and licensed in the State of Colorado.
- 625.09 Changes.** All changes in lines and grades required by field conditions and all discrepancies in grades, alignment, location or dimensions detected by the Contractor shall be immediately submitted to the Project Engineer in writing. No changes in given data or plans will be allowed unless approved by the Project Engineer in writing. All changes shall be documented by the Contractor.
- 625.10 Pay Quantities Measurements.** The Project Engineer will perform all interim and final measurements deemed necessary by the City to determine contract pay quantities. The Contractor shall establish and maintain Control points and stationing as required for these measurements.

**REVISION OF SECTION 625
CONSTRUCTION SURVEYING**

METHOD OF MEASUREMENT

625.11 Survey Records. Survey records shall be completed as the work is done. Field survey notes for construction surveying and checking by the Contractor shall be recorded in survey records in conformance with industry standards and acceptable practices.

All survey records generated shall be the property of the City and shall be available to the City Surveyor's Office or the Project Engineer for inspection or reproduction at all times. All survey records shall be transmitted to the City Surveyor's Office for inclusion into the project records before final project acceptance. All survey records shall be stamped with the seal of, and signed by, the responsible PLS.

Electronic submittal of survey records may be acceptable, please coordinate with the City Surveyor's Office.

625.12 Construction surveying will not be measured, but will be paid for on a lump sum basis

BASIS OF PAYMENT

625.13 Payment for construction surveying will be the contract lump sum bid and will be full compensation for all surveying work necessary to complete the project to include all resetting of stakes, marks, monuments and preparing survey documentation as required.

Partial payment for construction surveying, as determined by the Project Manager, will be made as the work progresses. The Contractor shall submit a schedule of estimated contractor construction surveying time as required on the Survey Tabulation Sheet before the first partial payment is made. Copies of the Survey Records for all completed survey work shall be submitted to the Project Manager prior to payment of the monthly estimate.

Before final payment is made, the following two items shall be completed, bear the seal and signature of the responsible PLS identified in Section 625.01, and have copies submitted to the Project Manager for review:

1. All Survey Records
2. Supplemental or amended Project Control Diagram (a copy of which shall be submitted to the Project Manager)

Payment will be made under:

Pay Item	Pay Unit
Construction Surveying	Lump Sum

Traffic control for Construction Surveying will be measured and paid for in accordance with Section 630.

**REVISION OF SECTION 626
MOBILIZATION**

Section 626 of the Standard Specifications is hereby revised to include:

Subsection 626.01 is hereby revised to include:

This item also includes demobilization of equipment and supplies from this project site.

Subsection 626.02 is hereby deleted and replaced by the following:

Two payments will be made for the mobilization item. 50% of the amount bid for mobilization will be paid at the completion of mobilization. The remaining 50% of the amount bid for mobilization will be paid at the completion of the project when the equipment has been demobilized.

Payment will be made under:

Pay Item	Pay Unit
Mobilization	Lump Sum

**REVISION OF SECTION 630
PORTABLE MESSAGE SIGN PANEL**

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

DESCRIPTION

Subsection 630.01 shall include the following:

This work consists of furnishing, operating, and maintaining a portable message sign panel.

MATERIALS

Subsection 630.09 shall include the following:

Portable Message Sign Panel. Portable message sign panel shall be furnished as a device fully self-contained on a portable trailer, capable of being licensed for normal highway travel, and shall include leveling and stabilization jacks. The portable message sign panel shall be stable in winds up to 80 MPH. The panel shall display a minimum of three eight-character lines. The panel shall be a dot matrix type with either fluorescent yellow flip disks legend and/or LED legend on a flat black background. LED signs shall have a pre-default message that activates before a power failure. The sign shall have its own separate solar or diesel engine power source with independent back up battery powered source. The sign shall be capable of 360 degrees rotation and be able to be elevated to a height of at least five feet above the ground to the bottom of the sign. Lifting of the sign shall be accomplished by electric/hydraulic methods. The sign shall be visible from one half mile under both day and night conditions. The message shall be legible from a minimum of 650 feet. The sign shall automatically adjust its light source to meet the legibility requirements during the hours of darkness. The sign enclosure shall be weather tight and provide a clear polycarbonate front cover.

Solar powered message signs shall be capable of operating continuously for 10 days without any sun. Message signs that are diesel generator powered shall be provided with a 20-gallon minimum capacity fuel tank. All instrumentation and controls shall be contained in a lockable enclosure.

The sign shall include and be operated and programmed through a laptop computer or microprocessor capable of changing and displaying sign messages and other sign features such as flash rates, moving arrows, etc.

Each sign shall also conform to the following:

1. Flip-disks legend signs shall have fluorescent ultraviolet blacklight bulbs.
2. In addition to the onboard power source with battery backup, each sign shall be capable of operating on a hard wire, 100 110 VAC, external power source.
3. Each sign shall be furnished with an operating and parts manual, wiring diagrams, and troubleshooting guide.
4. The portable message sign shall be capable of maintaining all required operations under Colorado mountain winter weather conditions.
5. Each sign shall be furnished with an attached license plate and mounting bracket.

**REVISION OF SECTION 630
PORTABLE MESSAGE SIGN PANEL**

6. Each sign shall be wired with a 7 prong male electric plug for the brake light wiring system.
7. All communications hardware for remote programming, including, cellular phone, laptop computer, computer hardware and software, on trailer electrical wiring connectors, and switch controls necessary to allow all sign functions required by the specification shall be provided with each sign.
8. Each sign shall also be provided with all necessary equipment so that it can be switched to remote programming, using either hard wire dedicated telephone line, or remote dial-up via cellular telephone.
9. The supplier shall demonstrate the capabilities of the sign, and provide 2 days of training for operation and maintenance of the sign.)

Prior to obtaining this item, the Contractor shall submit the trade name, model number and specifications of the portable message sign panel he intends to use, to the Project Manager, for approval. ADDCO Manufacturing Co. Inc., American Signal Company, Winko Matic Signal Company, Precision Solar Controls Inc. and National Signal Company are known to produce a suitable portable message sign panel. The Project Manager's decision concerning acceptability of this item shall be Final.

CONSTRUCTION REQUIREMENTS

Subsection 630.13 shall include the following:

The portable message sign panel shall be available on the project site at least ten working days prior to the start of active roadway construction. Maintenance, storage, operation, relocation to different sites during the project, and all repairs of portable message sign panels shall be the responsibility of the Contractor.

METHOD OF MEASUREMENT

Subsection 630.17 shall include the following:

Portable message sign panels will not be measured separately but shall be included in item 630 Construction Traffic Control (Lump Sum).

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

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

Subsection 630.01 shall be revised to include the following:

The Contractor shall submit, in writing, the proposed Method of Handling Traffic (MHT) for review and approval of the Project Engineer. The MHT shall be developed according to this section and the construction plans.

Subsection 630.05 Traffic Cones shall include the following:

Steel drum channelizing devices shall not be used for traffic control

Subsection 630.06 shall include the following:

Non-metallic drums or tubular markers may be substituted for vertical panel channelizing devices.

Subsection 630.09 shall include the following:

The flagger's STOP/SLOW sign paddle shall be 18 inches with letters six inches high.

Subsection 630.10 shall include the following:

When a different MHT is required for a subsequent construction phase, it must be submitted at least two weeks prior to starting that phase. All proposed methods of handling traffic shall be approved, in writing, by the Project Engineer following approval of the Transportation and Mobility Department.

Approval of the proposed MHT 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.

The Contractor shall notify the Project Engineer by Thursday at 3:00 P.M. which streets they intend to work on the following week. This notification will be made for all phases of construction.

Subsection 630.10 shall be added as follows:

The key elements of the Contractor's method of handling traffic (MHT) are outlined in subsection 630.09.

The components of the Traffic Control Plan (TCP) for this project are included in the following:

- Subsection 104.04 and Section 630 of the Standard Specifications.
- Tabulation of Traffic Project Engineering Items included in the plans for this project.
- Latest revised Standard Plan S-630-1 (06/24/2009), Traffic Controls for Highway Construction and Standard Plan S-630-2.

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

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

1. During the construction of this project, traffic shall use the present traveled roadway.
2. Work that interferes with traffic on 35th Avenue or Knox Court will only be permitted during the following hours:
 - The Contractor shall perform all the work on the roadway between the hours of 8:30 AM and 3:30 PM or as approved by the Project Engineer. Weekend and nighttime work will be allowed with the prior written approval of the Project Engineer. During this time, only one lane can be closed on each approach.
 - Work will not be permitted that directly or indirectly interferes with the flow of traffic between the hours of 5:30 AM and 8:30 AM Monday through Friday; between the hours of 3:30 PM to 6:30 PM Monday through Thursday; and after 2:00 PM on Fridays unless otherwise authorized by the Project Engineer.
 - No work on Holidays
 - Contractor shall not close lanes during special events.
 - Contractor shall coordinate lane closures with adjacent projects.
 - Contractor shall maintain business access during business hours.
 - The Contractor shall coordinate all of the work on the roadway during any special event with the City and County of Denver.
3. The Contractor shall install construction traffic control devices where they do not block or impede other existing traffic control devices or sidewalks for pedestrians, disabled persons or bicyclists. The Contractor is restricted from storing any materials, construction traffic control devices, signs, etc. in any median area or park area.
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 6:1 or flatter slope, and delineated at 35 foot intervals immediately after removal operations to safeguard the traveling public.
5. Construction equipment used on this project shall meet the same minimum exhaust requirements as those specified by the manufacturer of the equipment.
6. The Contractor and subcontractors shall equip their construction vehicles with flashing amber lights. Equipment to be used at night shall also be equipped with flashing amber lights. Flashing amber lights on vehicles and equipment shall be visible from all directions.
7. The Contractor shall maintain access to all roadways, side streets, walkways, alleyways, driveways, and hike/bike paths at all times unless otherwise directed by the Project Engineer. 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 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 Project Engineer for approval prior to 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 commencing any work which affects access to a property, the Access Maintenance Plan for that property must be submitted and approved by the Project Engineer.

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

8. The Access Maintenance Plan shall be coordinated with all affected owners and tenants. The Access Maintenance Plan shall include documentation of this coordination, including the approval signature of each affected owner or tenant. Should the Contractor be unable to obtain approval and signatures, documentation of the efforts made to obtain said approval and signatures must be submitted. All access shall be maintained on surfaces equal to or better than those existing at the time the access is first disturbed. For short periods of time only as allowed by the Project Engineer, access may be maintained on an aggregate base course surfaces.
9. 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. Delineation of pedestrian access through the work area shall be accomplished using temporary plastic fencing.
10. The costs of maintaining access will not be paid for separately, unless otherwise provided, 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.
11. During non-construction periods (evenings, weekends, holidays, etc.) all work shall be adequately protected to insure 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.
12. Whenever the Contractor removes, obliterates, or overlays any pavement markings, he /she shall replace them on a daily basis prior to opening the affected areas to traffic. All temporary pavement markings shall fully comply with the Standard Specifications and Special Provisions.
13. The Contractor shall not have construction equipment or materials in the lanes open to traffic any time unless directed by the Project Engineer.
14. All personal vehicle and construction equipment parking is prohibited where it conflicts with safety, access, or the flow of traffic. Landscaped areas, public park areas, and roadway shoulders shall be kept clear of parking and storage of all personal and construction equipment except where approved by the Project Engineer.
15. The Contractor shall not place tack coat on any surface to be paved where traffic will be forced to travel upon fresh bituminous materials.
16. The Contractor shall be required to make arrangements with the Regional Transportation district (RTD) prior to closing any existing bus stops within the project limits. Temporary stops will be required as directed by the Project Engineer and as required by RTD. For bus stop/route conflicts Regional Transportation District, RTD / 1560 Broadway, Suite 700, Denver, CO 80202 shall be contacted two business days prior to start of construction.

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

17. The Contractor shall be required to maintain temporary drives at any existing establishment that has singular access off of the roadways, unless otherwise approved in writing by the property owner.
18. No work that interferes with traffic will be allowed on holidays or any day of a three-day or four-day weekend that includes a holiday. Holidays on which this restriction applies consist of those holidays recognized by the State of Colorado as listed in subsection 101.33
19. All lane closures shall be subject to the approval of the Project Engineer. Request for each closure shall be made at least 24 hours in advance of the time the lane closure is to be implemented. Lane closures will not be allowed to remain unless being utilized in continuum for the intended purpose for which they were set up.
20. During no-working hours, the roadways shall be restored to a safe travel conditions for the free flow of traffic. Any maintenance required restoring the roadways to this condition, including the pavement patching and grading, shall be done prior to opening the areas to traffic or completing work for the day.
21. The Contractor shall clean the roadway of all construction debris before opening it to traffic.
22. All flagging stations used at night shall be illuminated with floodlights. Street, highway lights and "high mast lighting" may be used for flagging station illumination when approved by the Project Engineer. Floodlights shall be located and directed so as not to interfere with the sight of any motorists, and the cost to be included in the work.
23. Prior to removal and resetting of any sign the Contractor and Project Engineer shall prepare an inventory. Any signs damaged due to the Contractor's operations shall be replaced in kind or repaired by the Contractor at no additional cost to the project.
24. 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.

Subsection 630.09 (9) shall be added as follows:

Number of hours for uniformed traffic control shall be tabulated for submittal.

Subsection 630.09 (10) shall be added as follows:

Contractor shall obtain all required access and construction permits from the City & County of Denver prior to initiating work along City right of way.

All lane closures require an arrow board to be installed.

All streets that will be reduced in the number of travel lanes should have variable message boards installed for a minimum of 3 days after the striping change to inform drivers of the lane reduction.

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

Subsection 630.14 shall include the following:

The Contractor shall furnish all personnel and material necessary to perform the Construction Zone Traffic Control as required and these quantities will not be measured.

The flagger's STOP/SLOW sign paddle shall be 18 inches with letters six inches high.

METHOD OF MEASUREMENT

Subsection 630.17 is hereby revised to include the following:

No separate measurement and payment will be made for, but not limited to, the following: Construction traffic signs and posts, access roads, radios, mobile phones, telephones, Traffic Control Supervisor, Uniformed Traffic Control, variable message signs, shoring, temporary concrete barrier, temporary pavement markings, removal of temporary pavement markings, vertical panels, batteries for flashers, drums, cones, delineators, barricades, supervision, flagging, pilot cars, detour roads, detour signs and posts, temporary culverts, additional earthwork for detours, and all other miscellaneous labor, equipment and materials required to complete the project.

Construction traffic control (including all costs associated with providing detours), will not be individually measured but shall be paid for at the lump sum bid price and shall be full compensation for fulfilling the obligation and responsibility of the Contractor to provide traffic control during this project.

All traffic control signage shall be mounted on its own post per CDOT *M & S Standards*. All cost for this work and material shall be included in the Construction Traffic Control lump sum item.

The City of Denver reserves the right to add additional traffic control requirements if conditions warrant.

BASIS OF PAYMENT

Subsection 630.18 is hereby revised as follows:

Payment will be made under:

Pay Item	Pay Unit
Construction Traffic Control	Lump Sum

ALLOWANCES

DESCRIPTION

This special provision contains the estimate for allowances included in the Contract. Such estimated amounts will be included in the total bid to determine the project commitment amount and the amount of performance and payment bonds. Allowance work shall be performed as directed by the Project Engineer or Project Engineer’s designee.

BASIS OF PAYMENT

Payment will be made in accordance with General Contract Condition Title 1104. Payment will constitute full compensation for all work necessary to complete the item.

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

<u>Allowance Item</u>	<u>Estimated Quantity</u>	<u>Amount</u>
AW 01 Minor Contract Revisions	AW	\$ 25,000.00
AW 02 Erosion Control	AW	\$ 2,500.00
AW 03 Environmental Health & Safety Management	AW	\$ 2,000.00
AW 04 Landscaping	AW	\$ 5,000.00

Allowance Descriptions:

- AW 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.
- AW 02 Erosion Control – This Force Account is to pay for any other erosion control items the ECS will need during the duration of this project. All items shall be pre-approved by the Project Engineer prior to installation or they will be at no cost to the project.
- AW 03 Environmental Health and Safety Management – This work is to pay for implementing procedures outlined in Section 250 of the CDOT Standard Specifications for Road and Bridge Construction, in the event that contaminated or suspect material is encountered during construction.
- AW 04 Landscaping – This work is for restoring existing landscape including match existing xeriscaping where the pedestrian ramp is being permanently removed including topsoil sod, plants, mulch, landscape materials, and irrigation systems back to preconstruction condition.

ADD ALTERNATE

DESCRIPTION

This special provision describes the location and scope of the Add Alternate for this project. Such work if accepted will be bid at contract pricing of the main project. Work will be included in the total bid to determine the project commitment amount and the amount of performance and payment bonds. Add Alternate work shall be performed as directed by the Project Engineer or Project Engineer's designee.

Add Alternate work located at Morrison Rd at Walsh Place – Physical improvements at south corner. See Knox Court Neighborhood Bikeway plan sheets 69 – 73.

UTILITIES

Known utilities within the limits of this project are:

Utility	Contact	Phone
<p>Denver Traffic Signals 5440 Roslyn Street, Bldg E Denver, CO 80216</p>	<p>Chris Lillie Chris.Lillie@denvergov.org</p>	<p>(720) 865-4066</p>
<p>Denver Wastewater Project Engineering 2000 W. 3rd Ave. Denver, CO 80223</p>	<p>Steven Forvilly Steven.forvilly@denvergov.org</p>	<p>(720) 913-4533</p>
<p>Denver Water 1600 West 12th Avenue Denver, CO 80223</p>	<p>Ray Batts Raphcal.Batts@denverwater.org</p>	<p>(303) 628-6682</p>
<p>Xcel Energy – Electric/Gas 1123 West 3rd Avenue Denver, CO 80223</p>	<p>Marisa Montoya Marisa.L.Montoya@xcelenergy.com</p>	<p>(303) 571-3110</p>
<p>Century Link 7759 S. Wheeling Court Englewood, CO 80112</p>	<p>Brandyn Wiedrich (Knox Court) brandyn.wiedrich@centurylink.com</p> <p>Andy Devine (35th Avenue) Andy.devine@centurylink.com</p>	<p>(720) 578-3724 (720) 245-0029 (mobile)</p>
<p>Comcast Cable 1601 Mile High Stadium Circle Denver, CO 80204</p>	<p>Eric Carroll Eric.carroll@cable.comcast.com</p>	<p>(303) 603-2680</p>

-2-
Utilities

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

Part 1 – Contractor shall perform the work listed below:

Project Limits – All Utility Owners:

Prior to excavating, the Contractor shall positively locate all potential conflicts with existing underground utilities and proposed construction, as determined by the Contractor according to proposed methods and schedule of construction. 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.

The Contractor will contact each utility company a minimum of 2 business days, unless otherwise noted, prior to working in the utility companies 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. Contractor shall provide the appropriate utility company ample notice, but not less than two (2) working days, prior to commencing activities in the vicinity of their facilities. Any additional work performed by the Contractor on behalf of the impacted utility company shall not be paid for by the City and County of Denver, but shall be paid by the utility company requiring the work, unless otherwise agreed to in writing by the Project Engineer.

Denver Traffic Operations

No utility work anticipated.

Denver Wastewater Management Division

The Contractor shall remove and replace the existing inlets and manholes at the 35th Avenue/ Lowell intersection; and at the Knox Court intersections with Exposition, Custer and Virginia as shown in the drainage plans.

The Contractor shall coordinate inspections with Denver Wastewater. The Contractor shall provide the utility owner written notice 5 days immediately prior to required inspections.

Denver Water

No utility work anticipated.

Xcel Energy – Lighting / Traffic

No utility work anticipated

-3-
Utilities

Xcel Energy – Gas

No utility work anticipated

F/O Utilities

No utility work anticipated

Part 2 – Utility Owners shall perform the work listed below:

Denver Traffic Operations

No utility work anticipated

Denver Wastewater Management Division

Denver Wastewater shall inspect utility work performed by the Contractor listed in Part 1 above. The Contractor shall provide the utility owner written notice 5 days immediately prior to each required inspection.

Denver Water

No utility work anticipated

Xcel Energy – Lighting / Traffic

No utility work anticipated

General:

The Contractor shall comply with Article 1.5 of Title 9, CRS (“Excavation Requirements”) when excavating 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 actual day of notice, prior to commencing such operations. The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at phone no. 811 to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective owner. Utility service laterals shall also be located prior to beginning excavation or grading.

The locations of utility facilities, as shown on the plan sheets and herein described, were obtained from the best available information.

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

TRAFFIC CONTROL PLAN – GENERAL

The key elements of the Contractor's method of handling traffic (MHT) are outlined in subsection 630.10(a).

The components of the Traffic Control Plan (TCP) for this project are included in the following:

- a) Subsection 104.04 and Section 630 of the Standard Specifications.
- b) Schedule of Construction Traffic Control Devices.
- c) Tabulation of Traffic Engineering Items included in the plans for this project.
- d) Construction Traffic Control details or notes included in the plans for this project.
- e) Latest revision of CDOT Standard Plan No. S-630-1 (Traffic Controls for Highway Construction) and Standard Plan No. S-630-2 (Barricades, Drums, Concrete Barriers (Temp) & Vertical Panels).

Unless otherwise approved by the Project Engineer, 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.

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

- a) This project includes restrictions to work times and days that affect traffic during peak traffic times and days, holidays, holiday eves (all day), holiday weekends, special events, and other circumstances as described later in this special provision. Wherever other laws, ordinances, regulations or orders are more restrictive, they shall take precedence over these requirements.
- b) All lane closures are subject to the approval of the Project Engineer. The Contractor shall submit a plan for any lane closure to the City for review and approval at least 72 hours in advance of the time the lane closure is to be implemented. Lane closures will not be allowed to remain unless being used continuously for the purpose for which they were set up.
- c) The Contractor shall coordinate and cooperate fully with the CDOT, RTD, utility owners, and other Contractors, to assure adequate and proper traffic control is provided.
- d) 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 Traffic Control Plan.

RESTRICTED WORK TIMES FOR PEAK TRAFFIC

Work performed and material placed that interferes with traffic during the times and in locations that the roadway is specified to remain open will not be paid for unless the work is directed by the Project Engineer to be done during those times.

Following are allowed work times for night time closures:

- No evening or nighttime work, or roadway closures, will be allowed for this project

Following are allowed work times for day time closures:

- No daytime roadway closures will be allowed for this project.

TRAFFIC CONTROL PLAN – GENERAL

GENERAL TIME RESTRICTIONS

Work will not be permitted that directly or indirectly interferes with the flow of traffic between the hours of 5:30 am and 8:30 am Monday through Friday; between the hours of 3:00 pm to 6:30 pm Monday through Thursday; and after 2:00 PM on Fridays unless otherwise authorized by the Project Engineer.

Work shall NOT be performed on Saturdays or Sundays except where noted elsewhere in the Traffic Control Plan and other special circumstances when approved in advance by the Project Engineer.

No work that interferes with traffic will be allowed on holidays or any day of a three-day or four-day weekend that includes a holiday. Holidays on which this restriction applies consist of those holidays recognized by the State of Colorado as listed in Subsection 101.36.

RESTRICTED WORK TIMES FOR SPECIAL EVENTS

Per the Project Engineer's discretion, contract time may be extended in accordance with the City's Contract Conditions on days during which special events interfere with the Contractor's normally scheduled activities, such that the resulting delay affects the ultimate completion of the project.

ACCESS MAINTENANCE

Unless otherwise included in the plans or directed by the Project Engineer, the Contractor shall maintain access to all roadways, side streets, alleyways, driveways (residential and commercial), pedestrian walkways and other pathways at all times.

The Contractor shall avoid impacting any Bus Stop locations. The Contractor shall contact the Project Engineer and RTD regarding any unavoidable work that will impact pedestrian or vehicular access to a bus stop location at least 48 hours in advance of such work.

PEDESTRIAN AND BICYCLE SAFETY

The Contractor shall cover and fence any open excavation, trenches, manholes, inlets, etc. during non-construction work hours to protect the public.

The Contractor shall install construction traffic control devices where they do not block or impede other existing traffic control devices or sidewalks for pedestrians, disabled persons or bicyclists. The Contractor is restricted from storing any materials, construction traffic control devices, signs, etc. in any median or parkway areas.

NOISE CONTROL

Exempted hours for construction in the City & County of Denver are from 7:00 a.m. to 9:00 p.m., Monday through Friday and 8:00 a.m. to 5:00 p.m. on Saturdays and Sundays per Sections 36-6.(B)(7) and 36-7.(5)A., B. and C. of Denver's Noise Ordinance, Chapter 36 "Noise Control", Denver Revised Municipal Code (DRMC).

TRAFFIC CONTROL PLAN – GENERAL

If there is an anticipated need to work outside of the exempted hours of Construction:

1. The Contractor will need to make a request for a nighttime noise variance as allowed for in Section 36-7.(5)C. of the DRMC, and
2. The variance process needs to be started a minimum of two to three month prior to the desired start date of any work needing to occur outside the exempted hours.

Any noise variance questions should be directed to Paul Riedesel, Department of Environmental Health, Denver Community Noise Program, (Phone: 720-865-5410; FAX: 720-865-5532) a minimum of three months prior to the start of the project.

MISCELLANEOUS

The Contractor shall obtain street Occupancy Permit from the City and County of Denver Right-of-Way Construction Engineering Unit (Michael Holm 303-446-3639) for construction activities.

Contractor may close no more than one lane at a given time.

Two-way traffic shall be maintained on all streets at all times, via flagging if necessary for any approved closures of less than one day.

Traffic shall be carried on a paved surface at all times except as otherwise provided or approved by the Engineer.

During non-construction periods (evenings, weekends, holidays, etc.) all work shall be adequately protected to insure 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. All maintenance required to restore the roadways to this condition, including pavement patching, grading, and sweeping shall be done prior to opening the areas to traffic or completing work for the day.

Workers shall not access the work areas by crossing roadways unless proper traffic control or other necessary precautions are provided. Suitable transportation to the work site for personnel whose vehicles are parked off site shall be provided by the Contractor.

The Contractor shall not have construction equipment or material in the lanes open to traffic at any time, unless approved by the Engineer.

All personal vehicle and construction equipment parking is prohibited where it conflicts with safety, access, or the flow of traffic. Landscaped areas and roadway shoulders shall be kept clear of parking and storage of all personal and construction equipment.

The Contractor shall provide traffic control devices that are in good working order and clean condition.

TRAFFIC CONTROL PLAN – GENERAL

Construction equipment used on this project shall meet the same minimum exhaust requirements as those specified by the manufacturer of the equipment. The 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.

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 or away from the project.

CITY AND COUNTY OF DENVER
STATE OF COLORADO



DENVER
THE MILE HIGH CITY

DEPARTMENT OF PUBLIC WORKS

Plans/Drawings

Contract Number: 201948771



**Knox Court & W. 35th Ave Neighborhood
Bikeway**

April 16, 2019

Construction Plan Set 07a

CITY & COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION

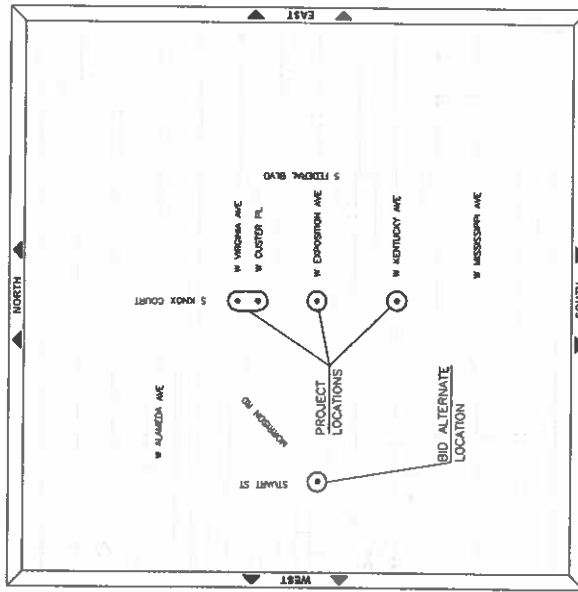
PLANS OF PROPOSED

FHU PROJECT NO. 112197-27, 112397-15 / 112397-03
DENVER CONTRACT NO. PWTES2014-013
CITY PROJECT MASTER NO. 2015-PROJMSTR-0000094

KNOX COURT NEIGHBORHOOD BIKEWAY

SCALE OF ORIGINAL DRAWINGS

ON PLAN 1" = 20'
ON PROFILE 1" = 30' HORIZONTAL
1" = 3' VERTICAL



Signature Block

Executive Director of Public Works

City Engineer

Director of Capital Projects

City Traffic Engineer

SHEET NO.	SUBSET SHEETS	DESCRIPTION
1	T-1	TITLE SHEET
2	SP-1	STANDARD PLANS LIST
3-5	GN-1 TO GN-3	GENERAL NOTES
6	SO-1	SUMMARY OF APPROXIMATE QUANTITIES
7	-	SURVEY CONTROL DIAGRAM
8-11	GM-1 TO GM-4	GEOMETRIC LAYOUTS
12	TD-1	TREE PROTECTION DETAIL
13	RD-1	ROADWAY DETAILS
14-15	DA-1 TO DA-2	POINT DATA
16	RM-1	REMOVAL AND RESET PLANS:
17	RM-2	KENTUCKY / KNOX
18	RM-3	EXPOSITION / KNOX
19	RM-4	CUSTER / KNOX
20	RP-1	VIRGINIA / KNOX
21	RP-2	KENTUCKY / KNOX
22	RP-3	EXPOSITION / KNOX
23	RP-4	CUSTER / KNOX
24	CR-1	VIRGINIA / KNOX
25-26	CR-2 TO CR-3	ROADWAY PLANS:
27-28	CR-4 TO CR-5	KENTUCKY / KNOX
29-30	CR-6 TO CR-7	EXPOSITION / KNOX
31-33	CD-1 TO CD-3	CUSTER / KNOX
34-37	CD-4 TO CD-7	VIRGINIA / KNOX
38-41	CD-8 TO CD-11	KENTUCKY / KNOX
42-45	CD-12 TO CD-15	EXPOSITION / KNOX
46	DP-1	CUSTER / KNOX
47	DP-2	VIRGINIA / KNOX
48	DP-3	KENTUCKY / KNOX
49	DD-1	EXPOSITION / KNOX
50-52	PR-1 TO PR-3	BIKEWAY BRANDING (SIGNING) PLANS
53-55	PR-4 TO PR-6	BID ALTERNATE PLANS - MORRISON/WALSH
56-58	PR-7 TO PR-10	BA-1 SUMMARY OF APPROXIMATE QUANTITIES
60-68	1 TO 9	BA-2 SURVEY CONTROL DIAGRAM
		BA-3 POINT DATA
		BA-4 REMOVAL AND RESET PLAN
		BA-5 ROADWAY PLAN

Print Date: 6/6/2018 10:54:21 AM File Name: BA-A112397-15T101.dwg Horizontal Scale: NTS Vertical Scale: KTS 4300 South Synovus Way, Suite 600 Centennial, CO 80111 Phone: 303.721.1400 www.fhdsv.com	Sheet Revisions <table border="1"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Date	Comments	Initials													As Constructed No Revisions: Revised: Void:	KNOX COURT NEIGHBORHOOD BIKEWAY TITLE SHEET	Project No./Code Designer: Detailer: Subject: Title Sheets: 7-1 of 1 Sheet Number: 1
Date	Comments	Initials																	



TRANSPORTATION ENGINEERING STANDARD DRAWINGS

NO.	TITLE
<input type="checkbox"/>	5.0 INDEX OF STANDARD DRAWINGS
<input type="checkbox"/>	5.1 LEGEND
<input type="checkbox"/>	5.2a-b CURB & GUTTER AND SIDEWALK
<input type="checkbox"/>	5.3a-b TYPICAL CURB SECTIONS
<input type="checkbox"/>	5.4 CURB & GUTTER AND SIDEWALK JOINT DETAILS
<input type="checkbox"/>	5.5 CONCRETE GUTTER OVERLAY
<input type="checkbox"/>	6.0 STANDARD RESIDENTIAL CURB CUT
<input type="checkbox"/>	6.1 STANDARD COMMERCIAL & MULTI-FAMILY CURB CUT
<input type="checkbox"/>	6.2 CURB CUT CROSS-SECTIONS
<input type="checkbox"/>	6.3 CORNER CLEARANCES & MINIMUM DISTANCES BETWEEN ACCESS POINTS
<input type="checkbox"/>	6.4 CURB RAMP NOTES & TYPICAL SECTIONS
<input type="checkbox"/>	7.0 CURB RAMP TYPE 1
<input type="checkbox"/>	7.1 CURB RAMP TYPE 2
<input type="checkbox"/>	7.2 CURB RAMP TYPE 3
<input type="checkbox"/>	7.3 CURB RAMP TYPE 4
<input type="checkbox"/>	7.4 DOWNTOWN SIGNALIZED CORNER BLENDED TRANSITION
<input type="checkbox"/>	7.5 CURB RAMP TRUNCATED DOMES
<input type="checkbox"/>	7.6a-b TYPICAL SIDEWALK TRANSITION TO DIRECTIONAL CURB RAMP
<input type="checkbox"/>	7.7 SIGNAL EQUIPMENT CLEAR ZONE
<input type="checkbox"/>	7.8 INTERSECTION VALLEY CUTTER
<input type="checkbox"/>	8.0 SIDEWALK CHASE DRAIN AND TREAD PLATE
<input type="checkbox"/>	9.0 TYPICAL CONCRETE BUS PULLOUT AND BUS PAD
<input type="checkbox"/>	9.1a-b TYPICAL ALLEY LAYOUT
<input type="checkbox"/>	10.0 ALLEY CUT (WITH ATTACHED SIDEWALK)
<input type="checkbox"/>	10.1 ALLEY CUT (WITH DETACHED SIDEWALK)
<input type="checkbox"/>	10.2a ALLEY CUT (WITH DETACHED SIDEWALK) HISTORIC DISTRICT
<input type="checkbox"/>	10.2b TYPICAL ALLEY CROSS-SECTION
<input type="checkbox"/>	10.3 ALLEY CURB HEAD
<input type="checkbox"/>	10.4 TYPICAL CONCRETE PAVEMENT JOINT LAYOUT
<input type="checkbox"/>	11.0 GENERAL NOTES FOR CONCRETE PAVEMENT AND PAVEMENT JOINTS
<input type="checkbox"/>	11.1a-b CONCRETE EXPANSION AND SAWED TRANSVERSE CONTRACTION PAVEMENT JOINTS
<input type="checkbox"/>	11.2 CONCRETE PAVEMENT JOINT SEALANT
<input type="checkbox"/>	11.3 CONCRETE PAVEMENT MISCELLANEOUS DETAILS
<input type="checkbox"/>	11.4 CONCRETE PAVEMENT JOINTING AT NEW MANHOLES AND ALL INLETS
<input type="checkbox"/>	11.5a CONCRETE PAVEMENT JOINTING AT EXISTING MANHOLES
<input type="checkbox"/>	11.5b ASPHALT PATCH
<input type="checkbox"/>	12.0 TRENCH PATCH (ASPHALT/MISC. MATERIALS)
<input type="checkbox"/>	12.1 TRENCH PATCH (CONCRETE)
<input type="checkbox"/>	12.2 TRENCH PATCH (CONCRETE)
<input type="checkbox"/>	12.3 CONCRETE PANEL REPLACEMENT AT TRENCH OR STREET
<input type="checkbox"/>	12.3b TRENCH MATERIAL REQUIREMENTS
<input type="checkbox"/>	12.4 TYPICAL ASPHALT DETAIL
<input type="checkbox"/>	12.5a TYPICAL ASPHALT DETAIL LIFT THICKNESS CRITERIA
<input type="checkbox"/>	12.5b TYPICAL ASPHALT DETAIL LIFT MIX DESIGN CRITERIA
<input type="checkbox"/>	12.6 TREE GRATE
<input type="checkbox"/>	13.0 STANDARD CUL-DE-SAC
<input type="checkbox"/>	14.0

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 Centennial, CO 80111
 Phone: 303.721.1440
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Sheet Revisions	
Date	Comments

DATE: 1/13

WASTEWATER STANDARD DETAILS

NO.	TITLE
<input type="checkbox"/>	S-301.1 TRENCHING AND BEDDING - PART 1
<input type="checkbox"/>	S-301.2 TRENCHING AND BEDDING - PART 11
<input type="checkbox"/>	S-350 ENCASUREMENT OF SANITARY SEWERS
<input type="checkbox"/>	S-401 SHIP LAP JOINTS/TYPE R JOINTS
<input type="checkbox"/>	S-450 INLET CONNECTIONS AND PIPELINE CLOSURES
<input type="checkbox"/>	S-501.1 PRECAST MANHOLE BARRELS AND TOP SECTIONS
<input type="checkbox"/>	S-502 MANHOLE BASE CONSTRUCTION- TYPE A/C
<input type="checkbox"/>	S-503 TYPE B MANHOLE
<input type="checkbox"/>	S-504.1 TYPE P MANHOLE
<input type="checkbox"/>	S-504.2 TYPE P MANHOLE BASE SECTIONS
<input type="checkbox"/>	S-520 TYPICAL MANHOLE BASE CHANNELIZATION
<input type="checkbox"/>	S-530 MANHOLE OUTSIDE DROP
<input type="checkbox"/>	S-550 WATER STOP GASKET
<input type="checkbox"/>	S-616.1 SINGLE NO. 16 INLET
<input type="checkbox"/>	S-616.2 DOUBLE NO. 16 INLET
<input type="checkbox"/>	S-616.3 TRIPLE NO. 16 INLET
<input type="checkbox"/>	S-606V SINGLE, DOUBLE, TRIPLE VALLEY INLET
<input type="checkbox"/>	S-620.1 NO. 14 INLET (SHEET 1)
<input type="checkbox"/>	S-620.2 NO. 14 INLET (SHEET 2)
<input type="checkbox"/>	S-701 24" DIAMETER RING & COVER
<input type="checkbox"/>	S-716 GRATE & FRAME, ADJUSTABLE CURB BOX
<input type="checkbox"/>	S-750 MANHOLE STEPS

NOTE: THE MOST CURRENT CITY AND COUNTY OF DENVER STANDARDS AND DETAILS TO BE USED FOR THE DESIGN AND CONSTRUCTION OF EACH PHASE OF THE PROJECT.

THE STANDARD DRAWINGS/DETAILS INDICATED HEREON BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

ALL OF THE STANDARD DRAWINGS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

TRAFFIC STANDARD DRAWINGS

NO.	TITLE
<input type="checkbox"/>	16.1.1 TRAFFIC SIGNAL NOTES
<input type="checkbox"/>	16.1.2 LEGEND/KEY NOTES
<input type="checkbox"/>	16.1.3 SPAN WIRE SIGNAL DESIGN
<input type="checkbox"/>	16.1.4 MOUNTING HARDWARE
<input type="checkbox"/>	16.1.5 LOOP DETECTION
<input type="checkbox"/>	16.1.6 CONDUIT DETAILS
<input type="checkbox"/>	16.1.7 PULL BOXES
<input type="checkbox"/>	16.1.8 SIGNAL POLE FOUNDATION
<input type="checkbox"/>	16.1.9 MAST ARM POLE LOADS
<input type="checkbox"/>	16.1.10 MOUNTING DETAILS
<input type="checkbox"/>	16.1.11 TABLE DATA
<input type="checkbox"/>	16.1.12 LUMINAIRE DETAILS
<input type="checkbox"/>	16.1.13 PEDESTAL POLE DETAILS
<input type="checkbox"/>	16.1.14 POLE FOUNDATION DETAILS
<input type="checkbox"/>	16.1.15 FOUNDATION FOR XCEL FACILITIES
<input type="checkbox"/>	16.1.16 "P" CABINET BASE
<input type="checkbox"/>	16.1.17 "P" CABINET & BASE
<input type="checkbox"/>	16.1.18 "M" CABINET BASE
<input type="checkbox"/>	16.1.19 METER PEDESTAL CABINET DETAILS
<input type="checkbox"/>	16.1.20 METER PEDESTAL CABINET FOUNDATION AND BASE
<input type="checkbox"/>	16.1.21 FLASHING BEACON DETAILS
<input type="checkbox"/>	16.1.22 DRIVER'S FEEDBACK SIGN DETAILS
<input type="checkbox"/>	16.1.23 FLASHING BEACON & SIGN SHEET 1
<input type="checkbox"/>	16.1.24 FLASHING BEACON & SIGN SHEET 2
<input type="checkbox"/>	16.2.1 CROSSWALK LAYOUT DETAILS
<input type="checkbox"/>	16.2.2 PAVEMENT MARKING DETAILS SHEET 1
<input type="checkbox"/>	16.2.3 PAVEMENT MARKING DETAILS SHEET 2
<input type="checkbox"/>	16.2.4 BIKE LANE TYPICAL MARKING DETAILS
<input type="checkbox"/>	16.2.5 CENTRAL BUSINESS DISTRICT PAVEMENT MARKING DETAILS
<input type="checkbox"/>	16.2.6 SINGLE SIGN POST MOUNTING DETAILS
<input type="checkbox"/>	16.2.7 MULTIPLE SIGN POST MOUNTING DETAILS
<input type="checkbox"/>	16.2.8 ONE-WAY SIGN PLACEMENT DETAILS
<input type="checkbox"/>	16.2.9 TRAFFIC SIGN UTILITY POLE MOUNTING DETAIL
<input type="checkbox"/>	16.2.10 GROUND MOUNT STREET NAME SIGN INSTALLATION DETAIL
<input type="checkbox"/>	16.2.11 GROUND MOUNT STREET NAME SIGN DETAIL
<input type="checkbox"/>	16.2.12 OVERHEAD STREET NAME SIGNS
<input type="checkbox"/>	16.2.13 PARKING METER POST INSTALLATION
<input type="checkbox"/>	16.2.14 BARRICADE DETAILS

CITY AND COUNTY OF DENVER
 STANDARD DRAWINGS LIST

DENVER
 THE MILE HIGH CITY

As Constructed
 No Revisions: _____
 Revised: _____
 Void: _____

KNOX COURT NEIGHBORHOOD BIKEWAY
 STANDARD PLANS LIST

Project No./Code: _____

Designer: _____
 Detailer: _____
 General Sheets: _____ of _____
 Sheet Number: 2

GENERAL NOTES (SHEET 1 OF 3)

GENERAL

1. PROPOSED FINISHED GROUND ELEVATIONS FOR ITEMS TO BE ADJUSTED, RESET, OR MODIFIED SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CITY ENGINEER A TRAFFIC CONTROL PLAN WHICH SHALL INCLUDE THE CONTRACTOR'S ANTICIPATED METHOD OF HANDLING TRAFFIC FOR THE DURATION OF THE PROJECT. THE COST TO PREPARE THE TRAFFIC CONTROL PLAN SHALL BE INCIDENTAL TO THE PROJECT. SEE TRAFFIC SECTION FOR ADDITIONAL TRAFFIC CONTROL NOTES.
4. THE CONTRACTOR SHOULD REMOVE MATERIALS AND EQUIPMENT FROM THE ROADWAY RIGHT OF WAY (ROW) AT THE CLOSE OF DAILY OPERATIONS. THE TRAFFIC CONTROL PLAN (TCP) MUST INCLUDE PROTECTIVE MEASURES WHERE MATERIALS AND EQUIPMENT MAY BE STORED IN THE ROW, BUT ENSURE FIVE FEET OF PEDESTRIAN CLEARANCE ON SIDEWALKS. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL IN THE CLEAR ZONE OF THE TRAVELED WAY.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PROJECT PERMITS ASSOCIATED WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR BEING AWARE OF, NOTIFYING, COORDINATING AND SCHEDULING ALL INSPECTIONS REQUIRED FOR FINAL PERMITS AND PROJECT ACCEPTANCE. ALL WORK, INCLUDING CORRECTION WORK, IS SUBJECT TO NOTIFICATION AND INSPECTION REQUIREMENTS.
6. IF ANY OF THE CONTRACTOR'S OPERATIONS DESTROY OR DAMAGE ANY PROPERTY, PUBLIC OR PRIVATE, THE CONTRACTOR SHALL PROMPTLY REPAIR OR REPLACE SUCH PROPERTY. TO THE SATISFACTION OF THE PROJECT MANAGER. THE CONTRACTOR SHALL ACCEPT OR PAY FOR THE WORK PERFORMED UNDER THE CONTRACT IF THE CONTRACTOR FAILS TO REPAIR OR REPLACE SUCH PROPERTY. THE CITY, AT THE SOLE DISCRETION OF THE MANAGER, MAY UNDERTAKE SUCH REPAIR OR REPLACEMENT AND DEDUCT THE COST OF THE SAME FROM AMOUNTS PAYABLE TO THE CONTRACTOR UNDER THE CONTRACT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE PROJECT. THE CONTRACTOR SHALL BE AVAILABLE TO THE CITY INSPECTOR AT ALL TIMES UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS IN A CITY APPROVED, COMPATIBLE FORMAT TO THE CITY. THE PRODUCTION OF THESE DOCUMENTS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
9. ALL WORK SHALL CONFORM TO CURRENT CITY AND COUNTY OF DENVER STANDARDS AND SPECIFICATIONS. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE LATEST EDITION OF THE CITY STANDARDS AND SPECIFICATIONS, OR HALT CONSTRUCTION UNTIL THE CONFLICT IS RESOLVED.
10. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL STORM DRAIN INLETS, LATERALS, MAINS AND OTHER STORM RUNOFF APPLURTEMANCES, WITHIN THE PROJECT RIGHT OF WAY, SHALL BE CLEARED OF SEDIMENT AND DEBRIS IN ACCORDANCE WITH DENVER WASTEWATER MANAGEMENT DIVISION STANDARDS. AFTER CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR DEBRIS FROM THE STORM SEWER SYSTEM AT NO COST TO THE CITY.
11. PRIOR TO FINAL ACCEPTANCE, ALL DISTURBED PORTIONS OF ROADWAY ROW SHALL BE CLEANED UP AND RESTORED TO THEIR ORIGINAL CONDITION, SUBJECT TO CITY APPROVAL.
12. NO WORK SHALL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PRIOR AUTHORIZATION OR UNLESS OTHERWISE SPECIFIED. THE CITY MAY RESTRICT WORK IN THE ROW DURING ADVERSE WEATHER CONDITIONS OR DURING PERIODS OF HIGH TRAFFIC VOLUME.
13. NO CLEARED OR TRACKED EQUIPMENT MAY WORK IN OR MOVE OVER PAVED SURFACES WITHOUT MATS.
14. WHERE ROW FENCES MUST BE REMOVED OR CUT TO FACILITATE CONSTRUCTION, APPROVAL MUST FIRST BE GIVEN BY THE CITY. EXISTING ROW/FENCE LINE MUST BE ESTABLISHED BY GOOD SURVEY PRACTICES. FENCES WILL BE REPLACED IN KIND ACCORDING TO CITY FENCING STANDARDS.
15. PROTECTION AND REPLACEMENT OF STREET IMPROVEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THESE IMPROVEMENTS ARE FULLY COMPLETED AND ACCEPTED BY THE CITY.

PROJECT PLANS, SPECIFICATIONS, PERMITS

1. ALL MATERIAL, EQUIPMENT, INSTALLATION AND CONSTRUCTION WITHIN THE ROW SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING STANDARD REFERENCES AS APPLICABLE:
 - a. CITY OF DENVER, STANDARDS AND DETAILS FOR ENGINEERING DIVISION
 - b. STORM DRAINAGE AND SEWERAGE DESIGN DETAIL AND TECHNICAL SPECIFICATIONS
 - c. DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTION GENERAL CONTRACT CONDITIONS
 - d. WASTEWATER MANAGEMENT DIVISION STANDARD DETAILS
 - e. TRAFFIC STANDARD DRAWINGS AND TRAFFIC ENGINEERING SERVICES PROJECT SPECIALS
 - f. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD PLANS. (M&S STANDARDS)
 - g. FEDERAL HIGHWAY ADMINISTRATION (FHWA), MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS AND THE COLORADO SUPPLEMENT THERETO
 - h. AMERICAN ASSOCIATION OF STATE AND HIGHWAY TRANSPORTATION OFFICIALS (AASHTO) ROADSIDE DESIGN GUIDE
2. THE CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES, ONE COPY OF THE APPROVED PLANS, ONE COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND COPIES OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB.
3. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED ON THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE PROJECT MANAGER IMMEDIATELY.

UTILITIES

1. THE TYPE, SIZE, LOCATION AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS, UNLESS OTHERWISE NOTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE RESPONSIBILITIES FOR THE RELOCATION OF ANY UTILITY LINES ARE AS NOTED IN THE PROJECT SPECIAL PROVISIONS. THE CONTRACTOR SHALL COOPERATE WITH COMPANIES TRYING TO COORDINATE THE RELOCATION EFFORT. LINES NOT RELOCATED SHALL BE PROTECTED BY THE CONTRACTOR IN PLACE. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNICC) AT 1-800-922-1987, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING EXCAVATION OR GRADING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITIES DURING CONSTRUCTION AND SHALL HOLD THE CITY AND ITS ENGINEERS HARMLESS FOR DAMAGES ARISING FROM THE CONTRACTOR'S FAILURE TO ADEQUATELY PROTECT EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE REPAIRED BY AND AT THE EXPENSE OF THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED TO RESET, ADJUST OR REPLACE ANY UTILITIES THAT ARE IMPACTED BY CONSTRUCTION AND ARE DESIGNED TO REMAIN WITHIN THE PROJECT LIMITS.
4. LOCATIONS FOR POTHOLING SHALL BE AS APPROVED BY THE PROJECT MANAGER.

REMOVALS, EXISTING ITEMS, SAW CUTTING

1. ALL ITEMS TO BE REMOVED AND NOT RESET SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
2. SIGNS AND/OR SIGNAL EQUIPMENT DESIGNATED AS REMOVAL ITEMS SHALL BE CAREFULLY REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY YARD AT 5440 ROSLYN STREET, BUILDING E. ANY MATERIAL DESIGNATED FOR SALVAGE THAT IS DAMAGED AFTER REMOVAL SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR LOADING, HAULING, UNLOADING, OR PLACING SALVAGED MATERIALS IN THE CITY YARD.
3. WHERE IT IS REQUIRED TO REMOVE EXISTING CONCRETE OR ASPHALT, CUTTING SHALL BE DONE TO A NEAT WORK LINE TO FULL DEPTH USING A SAW CUTTING WHEEL OR OTHER METHOD APPROVED BY THE PROJECT MANAGER. THIS WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
4. REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, DRIVEWAYS, CURB CUTS, AND OTHER CONCRETE ITEMS THAT ARE ATTACHED OR ADJACENT TO OTHER CONCRETE ITEMS SHALL BE REMOVED TO THE NEAREST JOINT, AS NEEDED TO AVOID DAMAGING THE REMAINING CONCRETE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT SIDEWALK DURING CURB AND GUTTER REMOVAL AND SHALL REPLACE DAMAGED SECTIONS AT NO ADDITIONAL COST TO THE PROJECT.
5. THE CONTRACTOR IS REQUIRED TO RESET, ADJUST OR REPLACE ANY UTILITIES, LANDSCAPING, SPRINKLER SYSTEMS, SIGNS, SIDEWALKS, ETC. THAT ARE IMPACTED BY CONSTRUCTION AND ARE NOT DESIGNATED TO BE REMOVED.
6. THE CONTRACTOR SHALL USE AGGREGATE BASE COURSE OR ASPHALT MILLINGS TO FILL AREA LEFT BY REMOVAL OF DRIVEWAY OR CURB RAMP PRIOR TO PLACEMENT OF NEW SIDEWALK, DRIVEWAY OR CURB RAMP.

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Sheet Revisions	
Date	Comments
05-03	Initials



As Constructed	GENERAL NOTES			Project No./Code
No Revisions	Designer:	K/JH	Structure	
Revised:	Detailer:	K/JH	Numbers	
Void	Subject:		General	
			Sheets:	CH-1 of 3
				Sheet Number
				3

GENERAL NOTES (SHEET 2 OF 3)

SURVEYING

1. PRIOR TO BEGINNING WORK ON THE PROJECT, THE CONTRACTOR'S SURVEYOR SHALL PERFORM A SURVEY TO VERIFY ALL SURVEY CONTROL POINTS, CITY OF DENVER RANGE POINTS, SECTION CORNERS, AND MONUMENTS AS SHOWN ON THE SURVEY CONTROL DIAGRAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL LOST SURVEY CONTROL POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NEGLIGENCE ON THE PART OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO FOLLOW COLORADO STATE LAW REGARDING SURVEY MONUMENTS. THE CONTRACTOR SHALL RETAIN A COLORADO LICENSED PROFESSIONAL LAND SURVEYOR TO RESET ANY AFFECTED SURVEY MONUMENTS. THIS WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK UNLESS SPECIFIED OTHERWISE IN SECTION 629. FOR FURTHER INFORMATION CONTACT:
PUBLIC WORKS - SURVEY DEPARTMENT
ATTN: CITY SURVEYOR
201 W. COLFAX AVE.
DENVER, CO 80202
720-865-3121

2. AFTER COMPLETION OF THE PAVING OPERATIONS, THE CONTRACTOR SHALL UPGRADE TEMPORARY RANGE POINTS WITH PERMANENT RANGE POINT MONUMENTS AT THE LOCATIONS AS INDICATED ON THE LAND SURVEY CONTROL DIAGRAM. MONUMENTS SHALL MEET CURRENT CITY AND COUNTY OF DENVER STANDARDS. SEE SECTION 629 OF THE SPECIAL PROVISIONS FOR MORE INFORMATION.

3. A SURVEY SHALL BE DEPOSITED WITH THE CITY AND COUNTY OF DENVER PER STATE STATUTE. CITY MONUMENT RECORDS SHALL BE PREPARED FOR ALL RANGE POINTS WITHIN THE PROJECT AND DEPOSITED WITH THE CITY SURVEYOR.
4. ANY PERSON WHO KNOWINGLY REMOVES, ALTERS, OR DEFACTS ANY PUBLIC LAND SURVEY MONUMENT AND/OR BOUNDARY MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE C.R.S. SECTION 18-4-508.

5. ALL STATIONS AND OFFSETS SHOWN ON THE PLANS ARE TO THE CONTROL LINES UNLESS OTHERWISE NOTED. THE USE OF CONTROL MONUMENTS FOR CONSTRUCTION STAKING OTHER THAN THOSE SHOWN ON THE PLANS OR APPROVED BY THE PW DEPT IS PROHIBITED, AND USE OF SUCH MONUMENTS IS AT THE CONTRACTOR'S SOLE RISK.
6. PROPOSED FINISHED GROUND ELEVATIONS FOR ITEMS TO BE ADJUSTED, RESET OR MODIFIED SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

EARTHWORK AND EXCAVATIONS

1. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTION. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS AT THE EXPENSE OF THE CONTRACTOR.
2. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. COST FOR DUST PALLIATIVE SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
3. THE DEPTH OF RECONDITIONING AND FOR THE BASES OF CUTS AND FILLS SHALL BE 6 INCHES. THE PROJECT SPECIFIED MOISTURE DENSITY CONTROL SHALL BE APPLIED FOR THE SPECIFIED DEPTH. THE EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
4. MOISTURE DENSITY CONTROL SHALL BE APPLIED FULL DEPTH FOR ALL EMBANKMENTS.
5. DURING EACH PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL SHAPE TO DRAIN AND COMPACT THE WORK AREA TO A UNIFORM CROSS-SECTION. ELIMINATE ALL RUTS AND LOW SPOTS THAT COULD HOLD WATER. AREAS AND FILL AREAS SHALL BE SUBJECT TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DE-WATERED AND RESTORED AT NO ADDITIONAL COST TO THE CITY.
6. ALL WORK SHALL BE PROPERLY BACKFILLED PRIOR TO THE END OF THE WORKDAY. NO OPEN HOLES ARE ALLOWED OVERTNIGHT.
7. WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES.
8. MATERIAL REMOVED FROM ANY PORTION OF THE ROADWAY PRISM MUST BE REPLACED IN LIKE KIND WITH EQUAL OR BETTER COMPACTION. NO SEGREGATION OF MATERIALS WILL BE PERMITTED.
9. NO SEPARATE PAYMENT WILL BE MADE FOR EARTHWORK NECESSARY FOR THE CONSTRUCTION OF ROADWAY PAVEMENT, CURB AND GUTTER, SIDEWALK, AND OTHER ITEMS IDENTIFIED ON THE PLANS, BUT TO BE INCLUDED IN THE COST OF THE WORK, INCLUDING PROVIDING AND PLACING ANY REQUIRED EMBANKMENT MATERIAL (FILL) AND REMOVING ANY EXCESS MATERIAL (CUT).

CONCRETE

1. IF CONCRETE REPLACEMENT IS NECESSARY, THE ENTIRE AFFECTED SLAB OR PANEL MUST BE REPLACED.
2. THE CONTRACTOR SHALL SELECT AND USE A BOXOUT AT CATCH BASINS, MANHOLES, AND OTHER ROADWAY APPURTENANCES OF SIMILAR AND LARGER SIZE. SEE CCD STANDARD DRAWING NO. 1113.
3. SIDEWALK SHALL BE CLASS B CONCRETE, OR USE CLASS P WITH 4500 PSI AT 28 DAYS FOR PAVEMENT, CURB & GUTTER, AND DRAIN PANS. THE USE OF 3/4 IN (#67) TOP SIZE AGGREGATE IS ALLOWED. ALL CONCRETE EXPOSED TO AIR SHALL MEET COOT 601.04 AS CLASS 2 SULFATE MITIGATION.
4. BENDER BOARDS (TWO INCH MINIMUM THICKNESS) SHALL BE USED ON ALL CURVES OF LESS THAN 75 FOOT RADIUS.
5. CURB AND GUTTER ANGLE BREAKS SHALL BE SMOOTHED WITH A 2 FT RADIUS UNLESS OTHERWISE SHOWN ON THE PLANS.
6. PROVIDE A 2 FOOT CURB AND GUTTER TRANSITION AT EACH END OF INLETS.
7. THE CONTRACTOR SHALL INSTALL 1/2 IN EXPANSION JOINT MATERIAL BETWEEN THE CURB, CURB AND GUTTER AND THE SIDEWALK, AND AROUND INLET STRUCTURES OR BLOCKOUTS OR AS DIRECTED BY THE PROJECT MANAGER.
8. CURB RAMPS SHALL BE CONSTRUCTED USING TRUNCATED DOMES AS SHOWN IN THE CITY AND COUNTY OF DENVER STANDARD DETAILS. TRUNCATED DOMES AND GROOVES SHALL NOT BE PAID SEPARATELY, BUT INCLUDED IN THE COST OF THE CONCRETE CURB RAMP.

PAVEMENT

1. ASPHALT TO BE 5K-75 FOR TOP LIFTS AND 5-75 FOR BOTTOM LIFTS.
2. A TACK COAT IS REQUIRED PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS OF HMA.
3. WHERE NEW CONSTRUCTION IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE TO CREATE A CLEAN CONSTRUCTION JOINT.
4. ASPHALT PATCHING SHALL BE 9" THICK (MULTIPLE LIFTS) OR MATCH SURROUNDING CONDITIONS, WHICHEVER IS GREATER. ADDITIONALLY, PATCHING SHOULD BE 2' WIDE MINIMUM TO ACHIEVE PROPER COMPACTION. REFER TO CCD STANDARD DRAWING 120.
5. WHEN AN EXISTING ASPHALT STREET IS CUT, THE STREET MUST BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. THE EXISTING STREET CONDITION SHALL BE DOCUMENTED BEFORE ANY CUTS ARE MADE. PATCHING SHALL BE DONE IN CONFORMANCE WITH THE PROJECT STANDARDS. THE FINISHED PATCH SHALL BLEND SMOOTHLY INTO THE EXISTING SURFACE. ALL LARGE PATCHES SHALL BE PAVED WITH AN ASPHALT LAY-DOWN MACHINE.
6. THE THICKNESS OF THE CONCRETE PAVEMENT AND THE AGGREGATE BASE COURSE TO BE DETERMINED BY THE CITY ENGINEER. FOR ESTIMATING, IT IS ANTICIPATED THAT THE THICKNESS OF CONCRETE PAVEMENT WILL BE 10 INCHES, AND THE DEPTH OF AGGREGATE BASE COURSE WILL BE 6 INCHES.
7. THE CONTRACTOR SHALL PROVIDE A CONCRETE PAVEMENT JOINT PLAN TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PLACEMENT OF THE CONCRETE PAVEMENT. ALL CONCRETE JOINTS TO BE CONSTRUCTED PER THE CITY OF DENVER AND COOT STANDARDS. THE CONCRETE JOINT PLAN AND CONCRETE JOINTS WILL NOT BE PAID FOR SEPARATELY, BUT TO BE INCLUDED IN THE COST OF THE CONCRETE PAVEMENT.
8. THE CURB AND GUTTER TO BE POURED MONOLITHIC WITH THE CONCRETE PAVEMENT. THE GUTTER THICKNESS TO BE THE SAME AS THE ABUTTING CONCRETE PAVEMENT.

LANDSCAPING

1. THE CONTRACTOR SHALL NOT SPRAY, CUT OR TRIM TREES OR OTHER LANDSCAPING WITHIN THE ROW UNLESS SUCH WORK IS OTHERWISE SPECIFIED IN THIS PERMIT OR CLEARLY INDICATED ON THE APPROVED PLANS.
2. THE LOCATION, TYPE AND SIZE OF THE PLANTER BOXES TO BE AS DIRECTED BY THE CITY ENGINEER.
3. SEEDING, SODDING AND PLANTING IN THE ROW SHALL BE AS SPECIFIED OR OTHERWISE APPROVED BY THE CITY. CONSTRUCTION, MAINTENANCE AND WATERING REQUIREMENTS SHALL CONFORM TO CITY STANDARD SPECIFICATIONS.
4. UNLESS STREETScape HAS BEEN APPROVED, THE CONTRACTOR SHALL LANDSCAPE ALL ROW WITH SOD AND TREES. ALL LANDSCAPING WITHIN THE ROW SHALL BE IN CONFORMANCE WITH THE LATEST STREETScape DESIGN MANUAL. NO LOOSE MATERIAL (I.E. ROCK, BARK, GRAVEL, ETC.) SHALL BE ALLOWED. DECORATIVE CONCRETE OR LOW GROWING PLANT MATERIAL MAY BE USED ONLY WITH THE SPECIFIC APPROVAL OF THE CITY. TREES SHALL BE PRE-APPROVED BY THE DEPARTMENT OF PARKS AND RECREATION. OFFICE. AND SHALL BE A MINIMUM OF 20'-FEET FROM PROPERTY CORNERS AT INTERSECTIONS, 25'-FEET FROM STREET LIGHTS AND 10'-FEET FROM EDGE OF DRIVEWAYS.

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Sheet Revisions	
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As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY		Project No./Code
No Revisions:	GENERAL NOTES		-
Revised:	Designer:	K/JH Structure	-
	Detailer:	K/JH Numbers	-
	Subst:	General	GN-2 of 3
			Sheet Number
			4

GENERAL NOTES (SHEET 3 OF 3)

DRAINAGE

1. ALL SEWER PIPES SHALL BE INSTALLED WITH CLASS B BEDDING AS A MINIMUM.
2. SANITARY SEWER PIPES SHALL BE PVC AND CONFORM TO: ASTM D3034 SDR 35 FOR SIZES 8 INCHES TO 15 INCHES IN DIAMETER (SOLID WALL), ASTM F789 FOR 18 INCHES (SOLID WALL), ASTM F679 FOR SIZES 18 TO 36 INCHES (SOLID WALL), ASTM F349 FOR SIZES 8 TO 36 INCHES (PVC PROFILE WALL), ASTM F794 FOR SIZES 8 TO 48 INCHES (PROFILE WALL), OR ASTM F1803 FOR SIZES 18 TO 60 INCHES (CLOSED PROFILE GRAVITY PIPE).
3. THE CONTRACTOR PERFORMING WORK ON ANY PUBLIC OR PRIVATE STORM SEWER FACILITY OR APPURTENANCE MUST BE A LICENSED TRADE LICENSED AS A COMPANY AND HAVE A LICENSED PLUMBER OR CERTIFIED JOURNEYPERMAN DRAINLAYER ON SITE DURING THE WORK.
4. ACCESS MUST BE MAINTAINED FOR ALL SEWER MANHOLES DURING CONSTRUCTION. MINIMUM ACCESS TO EACH MANHOLE IS A 20 FOOT WIDE LANE FROM THE NEAREST PUBLIC RIGHT OF WAY, CENTERED AT THE MANHOLE INCLUDING A 10 FOOT RADIUS AROUND THE MANHOLE AND 22.0 FEET OF VERTICAL CLEARANCE.
5. ALL DROP STRUCTURES SHALL BE INSPECTED BY CCD MANLINE INSPECTIONS. THE CONTRACTOR MUST CALL MANLINE INSPECTIONS @ (303)446-3722, A MINIMUM OF 24 HOURS PRIOR TO THE PRECONSTRUCTION MEETING AND PRIOR STARTING ANY WORK.

TRAFFIC

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE TRAFFIC CONTROL THROUGHOUT THE PROJECT. INCLUDING TRAFFIC CONTROL DEVICES AND PERSONNEL. A TRAFFIC CONTROL PLAN (TCP) IS SUBJECT TO CITY APPROVAL PRIOR TO COMMENCING WORK. ROADWAY ROW A COPY OF APPROVED TCP'S MUST BE AVAILABLE ON SITE DURING WORK. TRAFFIC CONTROL IS TO BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL PAVEMENT MARKINGS MUST BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
3. COORDINATE ALL TRAFFIC SIGNAL EQUIPMENT RELOCATIONS WITH PUBLIC WORKS TRAFFIC ENGINEERING SERVICES (TES).

ENVIRONMENTAL

1. ANY FILL MATERIAL OR SOILS TO BE MOVED TO AND PLACED ON CDD-OWNED PROPERTY OR PLACED ON REAL PROPERTY TO BE TRANSFERRED TO THE CDD MUST BE FREE OF KNOWN CONTAMINATION (OBSERVED OR PREVIOUSLY DOCUMENTED) AND BE ACCEPTABLE FOR UNRESTRICTED RESIDENTIAL USE. CONTACT DAVE ERICKSON, DENVER ENVIRONMENTAL HEALTH (720-865-5433) FOR CLARIFICATION, IF NEEDED, REGARDING THIS CDD REQUIREMENT.
2. IF UNKNOWN/UNIDENTIFIED UNDERGROUND STORAGE TANKS, DRUMS, ODOROUS SOIL, STAINED SOIL, ASBESTOS-CEMENT PIPE, TRANSITE, BUILDING DEBRIS OR WASTE MATERIALS ARE ENCOUNTERED DURING THE PROJECT, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA OF THE DISCOVERY UNTIL DENVER ENVIRONMENTAL HEALTH (DEH) MAKES A DETERMINATION OF HOW TO PROCEED. CONTRACTOR SHALL IMMEDIATELY NOTIFY DEH OF THE DISCOVERY VIA THE PHONE NUMBER 720-460-1706.
3. THE CONTRACTOR SHALL DIRECT NON-RECYCLABLE, NON-HAZARDOUS WASTES FROM CDD-OWNED OR CONTROLLED PROPERTY OR FACILITIES TO THE DENVER ARAPAHOE DISPOSAL SITE (DAOS) LANDFILL FOR DISPOSAL, FOLLOWING THE REQUIREMENT AND PROCEDURAL GUIDANCE OUTLINED IN CDD'S EXECUTIVE ORDER 116.
4. NOISE CONTROL. EXEMPTED HOURS FOR CONSTRUCTION IN THE CITY AND COUNTY OF DENVER ARE FROM 7 A.M. TO 9 P.M. MONDAY THROUGH FRIDAY AND 8 A.M. TO 5 P.M. ON SATURDAYS AND SUNDAYS PER SECTIONS 36-6(B)(7) AND 36-7(5)(A, B AND C) OF DENVER'S NOISE ORDINANCE, CHAPTER 36 'NOISE CONTROL'. DENVER REVISED MUNICIPAL CODE (DRMC) IF THERE IS AN ANTICIPATED NEED TO WORK OUTSIDE OF THE EXEMPTED HOURS FOR CONSTRUCTION. 1) THE CONTRACTOR WILL NEED TO MAKE A REQUEST FOR A NIGHTTIME NOISE VARIANCE AS ALLOWED FOR IN SECTION 36-7(5)(C) OF THE DRMC AND 2) THE VARIANCE PROCESS NEEDS TO BE STARTED A MINIMUM OF TWO TO THREE MONTHS PRIOR TO THE DESIRED START DATE OF ANY WORK NEEDING TO OCCUR OUTSIDE OF EXEMPTED HOURS. ANY NOISE VARIANCE QUESTIONS SHOULD BE DIRECTED TO PAUL REDESEL, DEPARTMENT OF ENVIRONMENTAL HEALTH, DENVER COMMUNITY NOISE PROGRAM, (PHONE 720-865-5410; FAX 720-865-5532) A MINIMUM OF THREE MONTHS PRIOR TO THE START OF THE PROJECT.
5. CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE AND TO PREVENT THE VISIBLE DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY. THE CONTRACTOR SHALL ALSO PREVENT THE VISIBLE DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY. THE MEASURES TAKEN MUST BE EFFECTIVE IN THE CONTROL OF FUGITIVE PARTICULATE EMISSIONS AT ALL TIMES ON THE SITE, INCLUDING PERIODS OF INACTIVITY SUCH AS EVENINGS, WEEKENDS, AND HOLIDAYS AS WELL AS ANY OTHER PERIOD OF INACTIVITY.

EROSION CONTROL

The Owner, Site Developer, Contractor and/or their authorized agents shall ensure that all potential pollutants generated during demolition or construction work associated with this Project, be prevented from discharge to streams, wetlands or any water body in the vicinity of this Project Site in accordance with the following:

1. The Owner, Site Developer, Contractor and/or their authorized agents shall prevent sediment, debris and all other pollutants from entering the waterway during all demolition, excavation, trenching, boring, grading, or other construction operations that are part of this Project. The Owner, Site Developer, Contractor and/or their authorized agents shall be held responsible for remediation of any pollutants that enter the Storm Sewer System, receiving waters, waterways, wetlands, and/or other public or private properties resulting from the work.
2. The Owner, Site Developer, Contractor and/or their authorized agents shall remove all sediment, mud, construction debris, or other potential pollutants that may have been discharged to or accumulate in the flow line of a storm sewer, waterway, wetlands, and public rights of ways of the City and County of Denver, as a result of construction activities associated with this Project. All removals shall be conducted in a timely manner.
3. The Owner, Site Developer, Contractor and/or their authorized agents shall ensure that all loads of cut and fill material imported to or exported from this site shall be properly covered to prevent loss of the material during transport on public rights of way. (Sec.49-552; Revised Municipal Code)
4. The use of rebar to anchor best management practices, other than portable toilets, is prohibited.
5. The Owner, Site Developer, Contractor and/or their authorized agents shall implement the following Best Management Practices (BMPs) on site during construction:
 - i. VEHICLE TRACKING CONTROL: This BMP is required at all access points for ingress/egress from off-site impervious surfaces to the construction site. All vehicles and equipment shall be cleaned of mud and tracked material before exiting the site.
 - ii. MUD PROTECTION: This BMP is required at all access points for ingress/egress from off-site impervious surfaces to the construction site that may receive site runoff. The BMP must be appropriate to the type of storm inlet and appropriate for the ground surface at the inlet.
 - iii. INTERIM SITE STABILIZATION: This BMP is required to provide a measure for preventing the discharge of sediment from construction sites where overtop grading or other site disturbance has occurred. This BMP is particularly necessary on sites where construction activities/disturbance will be limited to small areas of the Project site. Acceptable BMPs include:
 - a) Preserving existing vegetation
 - b) Seeding and planting
 - c) Mulching
 - d) Mulching and seeding
 - e) Temporary/Permanent re-vegetation operations
 - f) Chemical soil stabilizer application (requires WMD approval)
 - iv. WASTE MANAGEMENT/CONTAINMENT: This BMP requires that all construction wastes, fuels, lubricants, chemical wastes, trash, sanitary wastes, contaminated soils or debris shall be contained on site, protected from contact with precipitation or surface runoff.
 - v. SPILL PREVENTION/CONTAINMENT: This BMP defines the measures proposed for preventing, controlling, or containing spills of fuel, lubricants or other pollutants. Containing pollutants from contact with precipitation or runoff.
 - vi. CHUTE WASHOUT CONTAINMENT: Water used to clean chutes and other equipment shall be discharged into a pre-defined, bermed containment area on the job site. The required containment area is to be constructed of compacted earth and water is totally contained. Wash water discharged into the containment area shall be allowed to infiltrate or evaporate. Dried cement waste is removed from the containment area and properly disposed of.
 - vii. The direct or indirect discharge of water containing waste cement to the storm sewer system is prohibited (Sec.56-102a, c).
 - viii. SLEEPING: This BMP requires that impervious surfaces which are adjacent to or contained within construction sites be swept on a daily basis or as needed during the day when sediment and other materials are tracked or discharged on to them. Either sweeping by hand or use of Street Sweepers is acceptable. Street sweepers using water while sweeping is preferred in order to prevent surfaces with water is prohibited.
 - ix. PERIMETER CONTROL: The BMP requires that a perimeter control measure along the edge of the construction site be installed to prevent or filter the discharge of surface runoff from the construction site. The type of perimeter control used shall be determined based on site conditions and location. Maintenance and repair of the control measure shall occur as needed, in a timely manner.
 - x. STOCK PILES: Soils that will be stockpiled for more than thirty (30) days shall be protected from wind and water erosion within fourteen (14) days of stockpile construction. Stabilization of stockpiles located within 100 feet of receiving waters, or with slopes 3 to 1 or greater shall be completed within seven (7) days following stockpile construction. Stabilization and protection of the stockpiles may be accomplished by any of the following: Mulching, Temporary/Permanent Revegetation Operations, Chemical Soil Stabilizer Application (requires Denver Public Works approval), or erosion control matting/Geotextiles. If stockpiles are located within 100 feet of receiving waters, a drainageway or the site perimeter, additional sediment controls shall be required.
 - xi. CUTTING OPERATIONS: The Contractor shall protect all storm sewer facilities adjacent to any location where pavement cutting, curb cutting, or aggregate water jet cutting are to take place. The Contractor shall remove and properly dispose of all waste products from cutting operations to the storm sewer system is prohibited. The discharge of any water contaminated by waste products from cutting operations to the storm sewer system is prohibited (Sec.56-102a, c; Revised Municipal Code, City and County of Denver).
 - xii. STRUCTURAL CONTROLS: Development sites that are required to provide detention and water quality enhancement facilities for storm runoff need to install the detention facilities early in the construction build-out of the site. Projects that are using underground detention are required to install a pretreatment structure(s) or sedimentation basin(s) as a means of treating potentially polluted storm water prior to entering the detention structure. Use of these structures is required for stormwater sediment and construction debris during the active construction phase of the project. A narrative section of a Management Plan shall address operation and maintenance of the structural controls being used as an active construction BMP.
 - xiii. The Owner and Contractor shall implement Best Management Practices shall be maintained and kept in effective operating condition for the duration of this Project. All necessary maintenance and repair shall be completed immediately upon discovery of any deficiency or

		As Constructed No Revisions: Revised: Void:		KNOX COURT NEIGHBORHOOD BIKEWAY GENERAL NOTES		Project No./Code ---													
Print Date: 6/6/2018 10:32:41 AM File Name: G112397-15GNR03.dwg Horizontal Scale: NTS Vertical Scale: NTS 6300 South Syracuse Way, Suite 600 Centennial, CO 80111 Phone: 303.721.1448 www.FELSBERG.COM		Sheet Revisions <table border="1"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Date	Comments	Initials										Designer: Detailer: Submittal:		K/H Structure Numbers K/H Numbers GENERAL Sheets: GN-3 of 3 Sheet Number 5	
Date	Comments	Initials																	

REFERENCE NO.	CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	KNOX COURT AT WEST KENTUCKY AVENUE		KNOX COURT AT WEST EXPOSITION AVENUE		KNOX COURT AT WEST CLUSTER PLACE		KNOX COURT AT WEST VIRGINIA AVENUE		MISC	SIGNING AND STRIPING PLANS	PROJECT TOTALS	
				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.			PLAN	AS CONST.
201		CLEARING AND GRUBBING	LS											0.5	
202		REMOVAL OF TREE STUMP	EACH											1	
202		REMOVAL OF INLET	EACH											5	
202		REMOVAL OF SIDEWALK	SY	142										550	
202		REMOVAL OF PIPE	LF	17	4			133		159				23	
202		REMOVAL OF CURB AND GUTTER	LF	217	386			371		395				1369	
202		REMOVAL OF CONCRETE CURB RAMP	SY	7				12		13				44	
202		REMOVAL OF CONCRETE PAVEMENT	SY					3						3	
202		REMOVAL OF ASPHALT MAT	SY	158	425			269		435				1283	
202		REMOVAL OF GROUND SIGN	EACH					1					10		
202		PLUG CULVERT	EACH											1	
203		POTHOLING	EACH											40	
208		EROSION CONTROL	LS											0.5	
210		RESET MONUMENT	EACH					1		1				3	
210		RESET LIGHT STANDARD	EACH					1		1				2	
210		ADJUST MANHOLE	EACH					2		2				4	
210		MOOPY INLET (SPECIAL)	EACH					2		2				8	
210		ADJUST VALVE BOX	EACH					2		2				9	
210		ADJUST WATER METER	EACH					1		2				5	
212		TREE RETENTION AND PROTECTION	LS											0.5	
403		HOT MIX ASPHALT (PATCHING) (ASPHALT)	TON	30	28			92		28				138	
403		HOT MIX ASPHALT	TON					108		118				224	
412		CONCRETE PAVEMENT	SY					1		1				1	
603		12 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF							45				45	
603		15 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF					3		3				3	
603		18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF					6		6				9	
604		600 SINGLE NO. 16 INLET VALLEY (S-616V)	EACH					2		2				6	
604		600 SINGLE NO. 14 INLET (S-620V)	EACH					1		2				5	
607		600 SINGLE NO. 14 INLET L6 (SPECIAL) FENCE (PLASTIC)	EACH					1		2				1	
608		CONCRETE SIDEWALK (6 INCH)	LF							160				160	
608		CONCRETE CURB RAMP	SY	208	312			305		297				1122	
609		6" CURB AND GUTTER - 2' CATCH PAN	LF	35	57			94		82				208	
614		SIGN PANEL (CLASS 1)	LF	240	426			410		434				1310	
614		SIGN PANEL (SPECIAL)	EA											48	
614		STEEL SIGN POST (2X2 INCH TUBING) (TELSPAR)	LF											25	
620		SANITARY FACILITY	EACH											124	
625		CONSTRUCTION SURVEYING	LS											1	
626		MOBILIZATION	LS											0.5	
627		EPOXY PAVEMENT MARKING	LS											0.5	
630		CONSTRUCTION TRAFFIC CONTROL	LS											2	
700		F/A EROSION CONTROL	FA											0.5	
700		F/A ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT	FA											0.5	
700		F/A LANDSCAPING	FA											0.5	

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KNOX COURT NEIGHBORHOOD BIKEWAY
SUMMARY OF APPROXIMATE QUANTITIES

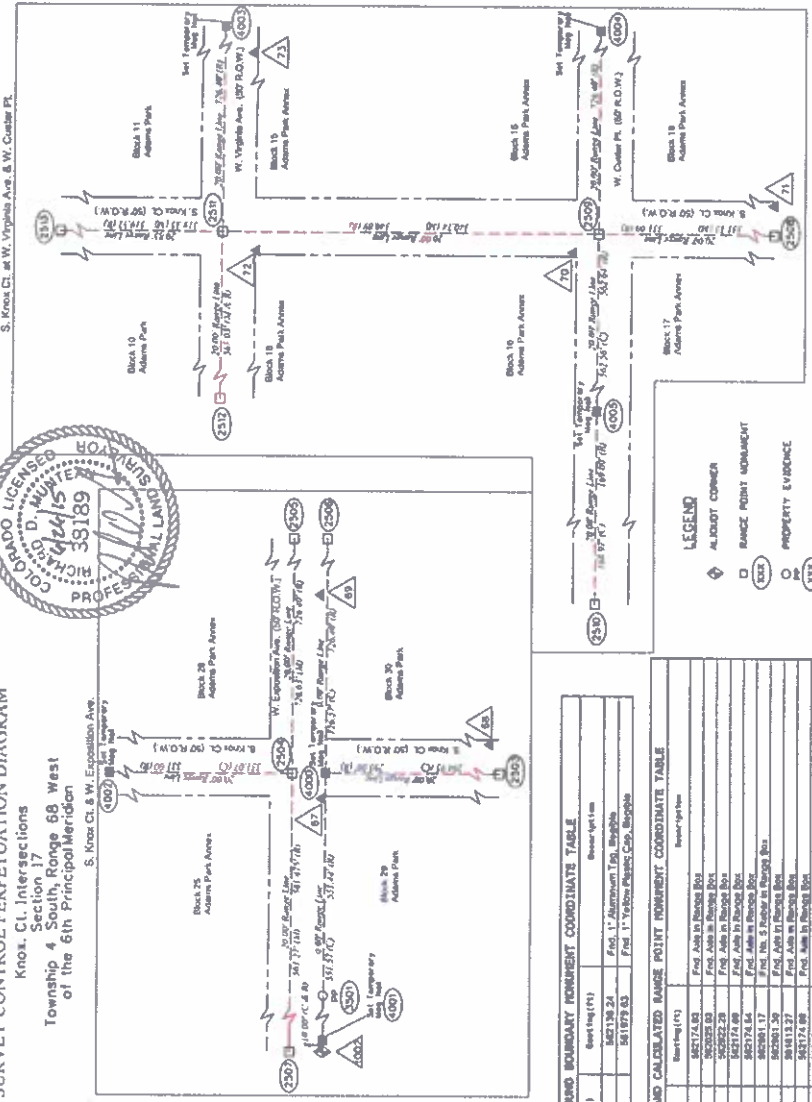
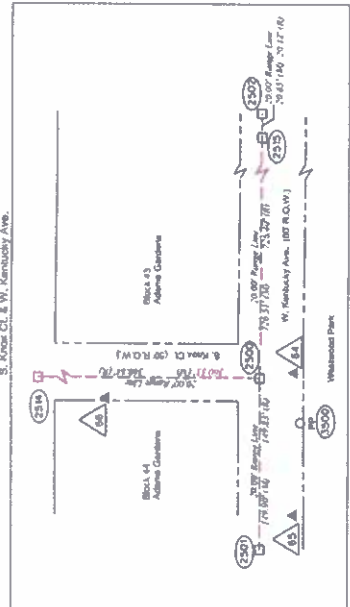
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No Revisions: Revised: Void:
No Revisions: Revised: Void:

Designator: JJD
Detailer: JJD
Subject: Roadway

Project No./Code: -
Sheet Number: 6

CITY AND COUNTY OF DENVER STATE OF COLORADO SURVEY CONTROL PERPETUATION DIAGRAM

Knox Ct. Intersections
Section 17
Township 4 South, Range 68 West
of the 6th Principal Meridian



COORDINATE DATA: Project coordinates are based on the NAD 83 datum. The datum is the Colorado State Plane Projection, North American Datum of 1983, Zone 10N. The datum is the Colorado State Plane Projection, North American Datum of 1983, Zone 10N. The datum is the Colorado State Plane Projection, North American Datum of 1983, Zone 10N.

PROJECT BENCHMARK: Elevations are based on a CIP benchmark "132C" a CIP benchmark located in the back of the lot shown on the map. The datum is the Colorado State Plane Projection, North American Datum of 1983, Zone 10N.

SCALE: 1" = 50'

Point No.	Bearing (°)	Distance (ft)	Point Description
2300	S 78°05'37"	562130.24	1st. 1" Aluminum T-Post, Boulder
2301	S 81°52'02"	561879.03	1st. 1" Yellow Plastic Cap, Boulder

Point No.	Bearing (°)	Distance (ft)	Point Description
2302	S 85°17'43"	562174.03	1st. 1" Brass Plug in Concrete
2303	S 85°02'22"	562022.28	1st. 1" Brass Plug in Concrete
2304	S 81°02'45"	562174.09	1st. 1" Brass Plug in Concrete
2305	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2306	S 82°01'13"	562174.09	1st. 1" Brass Plug in Concrete
2307	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2308	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2309	S 82°01'13"	562174.09	1st. 1" Brass Plug in Concrete
2310	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2311	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2312	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2313	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2314	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2315	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2316	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2317	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2318	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2319	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete
2320	S 81°52'48"	562021.59	1st. 1" Brass Plug in Concrete

Point No.	Elevation (ft)	Point Description
64	379880.37	1st. 1" Brass Plug in Concrete
65	379880.34	1st. 1" Brass Plug in Concrete
66	380181.45	1st. 1" Brass Plug in Concrete
67	381131.27	1st. 1" Brass Plug in Concrete
68	381178.08	1st. 1" Brass Plug in Concrete
69	381322.84	1st. 1" Brass Plug in Concrete
70	382373.82	1st. 1" Brass Plug in Concrete
71	382373.82	1st. 1" Brass Plug in Concrete
72	382385.75	1st. 1" Brass Plug in Concrete
73	382385.72	1st. 1" Brass Plug in Concrete

Point No.	Bearing (°)	Distance (ft)	Point Description
1802	S 81°52'02"	561879.03	1st. 1" 1/4" Alum. CIP Cap, LS 29.86', 1981

I, Richard D. McIntosh, a Licensed Professional Surveyor in the State of Colorado do hereby state that the survey represented by this map was made under my supervision and that the map and the notes shown hereon accurately represent said survey to the best of my knowledge, information and belief.

RICHARD D. MCINTOSH, PLS. NO. 38189
For and on behalf of 105 West, Inc.

DEPARTMENT OF PUBLIC WORKS
201 WEST COLFAX AVENUE
DENVER, CO 80202
PHONE: (720) 913-4501
FAX: (720) 913-4544

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17th and Wirth City

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Revised:
Void:

Public Infrastructure (Knox Ct. Intersections)
Survey Control Perpetuation Diagram

Project No./Code
Designer:
Checker:
Survey Subsect:
Survey Subsect:
Sheet Number

Print Date: 6/17/2015
File Name: SURVEY CONTROL PERPETUATION DIAGRAM
240 S. Ingham St., STE G5
Denver, CO 80222

105WEST
INCORPORATED
105 WEST, INC.
105 WEST, INC.

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Date: _____
Comments: _____

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P1	0+90.00	S89°38'00.17"E	380032.0168	562096.3998
P2	1+05.00	(C1)	380031.9208	562113.3995
P3	1+14.35	(C2)	380029.0411	562122.1413
P4	1+23.75	(C3)	380026.1612	562130.9206
P5	1+41.75	S89°46'35.94"E	380026.0910	562148.9205
P6	1+70.12	(C4)	380044.1154	562166.9907
P7	1+88.12	(C5)	380062.1154	562166.9662
P8	1+96.74	(C6)	380070.2701	562164.5426
P9	2+05.39	N00°04'40.71"W	380078.4516	562162.1191
P10	2+20.39	N00°10'27.99"E	380093.4516	562162.1225

CURVE DATA

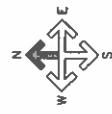
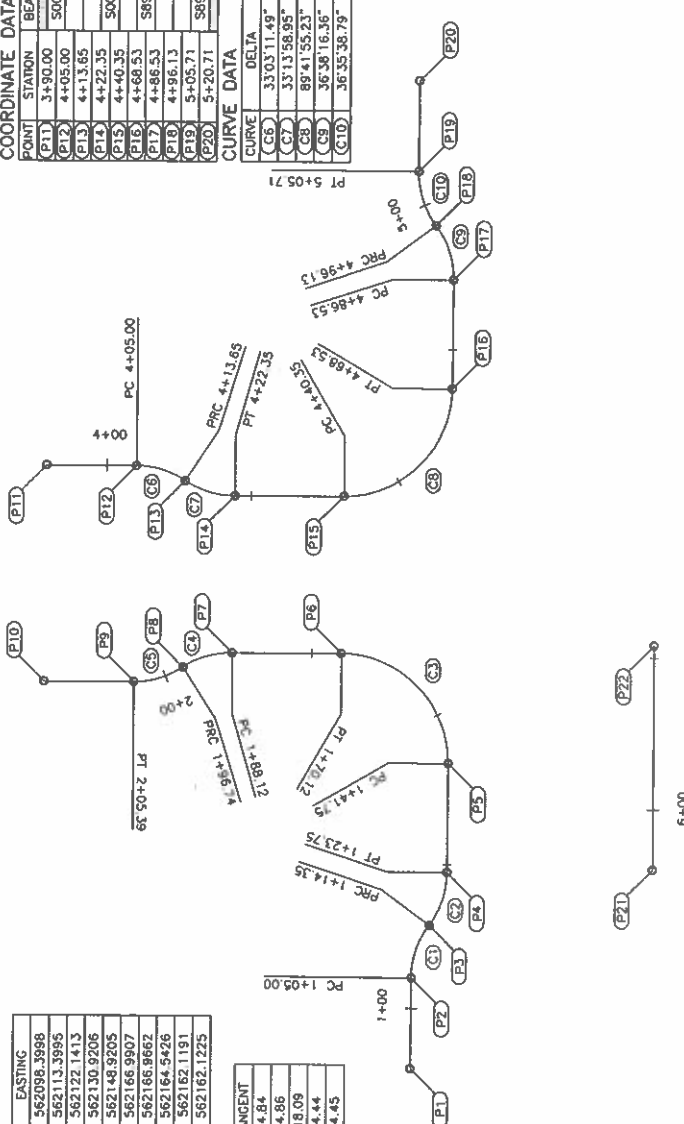
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	35°43'57.35"	15.00	9.35	4.84
C2	35°52'33.11"	15.00	9.39	4.86
C3	90°18'04.77"	18.00	28.37	18.09
C4	32°56'50.20"	15.00	8.63	4.44
C5	33°02'58.92"	15.00	8.85	4.45

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P11	3+90.00	S00°06'06.77"W	380093.2256	562197.8774
P12	4+05.00	(C6)	380078.2256	562197.8507
P13	4+13.85	(C7)	380070.0487	562195.4087
P14	4+22.35	(C8)	380061.8247	562192.9866
P15	4+40.35	S00°04'40.71"E	380043.8247	562192.9911
P16	4+68.53	(C9)	380025.8493	562210.9209
P17	4+86.53	S89°46'35.94"E	380028.7079	562228.9208
P18	4+96.13	(C10)	380028.7079	562237.8836
P19	5+05.71	S89°49'13.53"E	380031.6367	562246.8349
P20	5+20.71	(C10)	380031.5897	562261.8349

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C6	33°03'11.49"	15.00	8.65	4.45
C7	35°13'58.95"	15.00	8.70	4.46
C8	89°41'55.23"	18.00	28.18	17.91
C9	36°38'16.36"	15.00	9.59	4.97
C10	36°35'38.79"	15.00	9.58	4.96



HORIZONTAL SCALE: 1"=20'

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P21	5+90.00	S89°50'42.17"E	379892.1317	562131.5889
P22	6+27.01		379892.1178	562168.9979

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Sheet Revisions

Initials	Date	Comments
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KNOX COURT NEIGHBORHOOD BIKEWAY GEOMETRIC LAYOUT
W. KENTUCKY AVENUE
 Project No./Code
 Designer:
 Detailer:
 SED Structure Numbers
 SED Numbers
 Submittal: Roadway Sheets: GM-1 of 4
 Sheet Number: 8

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P1	12+90.00	S89°26'48.59"E	381371.1966	562105.0556
P2	13+00.00	(C1)	381371.1001	562115.0561
P3	13+08.72	(C2)	381368.5625	562123.2720
P4	13+17.51	(C3)	381365.0244	562131.5520
P5	13+34.51	S89°44'13.18"E	381365.9463	562148.5519
P6	13+62.86	(C4)	381383.9412	562166.6345
P7	13+89.55	(C5)	381401.9412	562186.6394
P8	13+89.55	(C6)	381410.1557	562164.1929
P9	13+98.22	(C7)	381418.3460	562161.7464
P10	14+13.22	(C8)	381433.3459	562161.7262

CURVE DATA

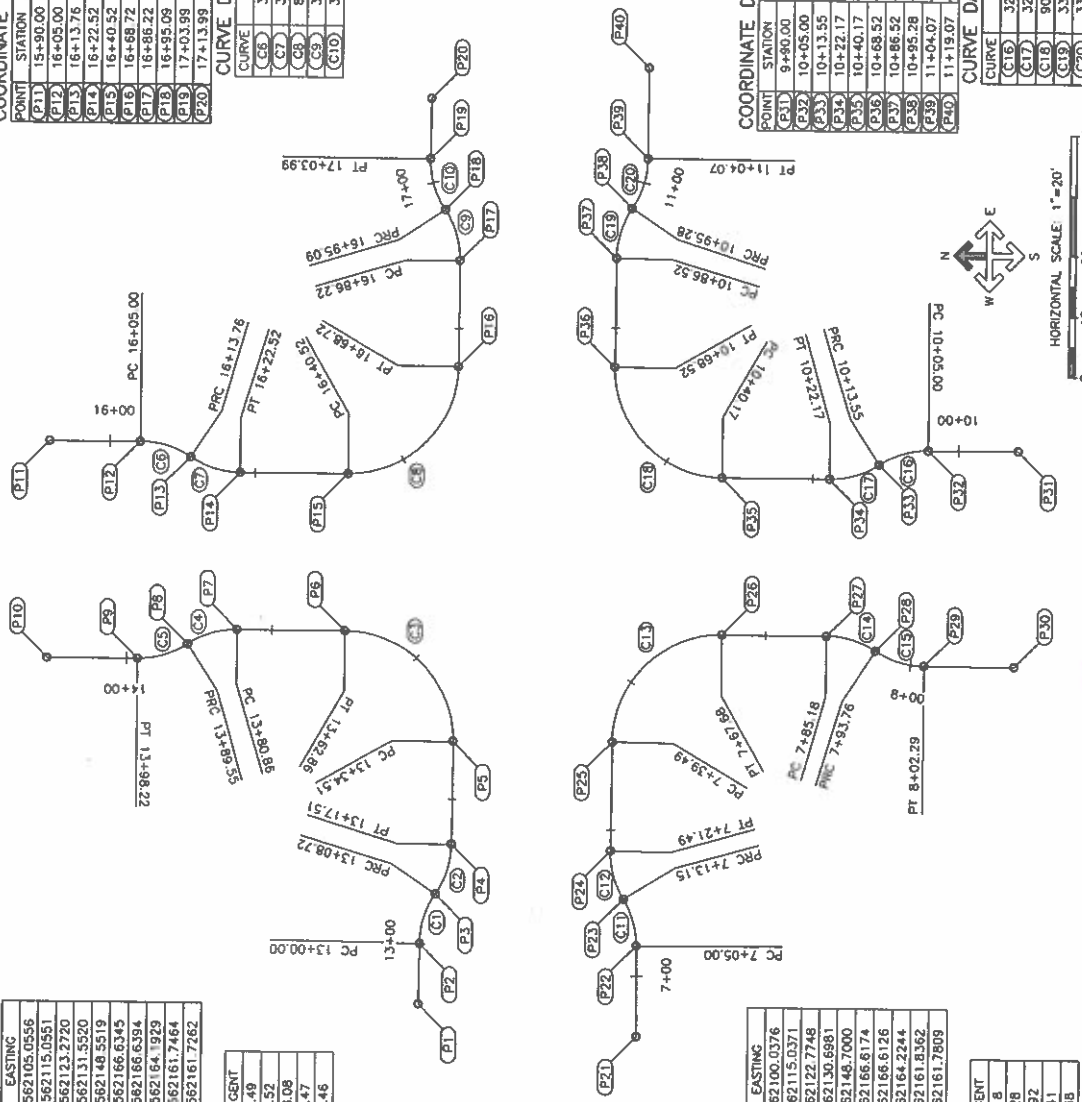
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	33°18'57.82"	15.00	8.72	4.49
C2	33°33'27.26"	15.00	8.79	4.52
C3	90°14'50.47"	18.00	26.35	18.08
C4	33°12'05.81"	15.00	8.69	4.47
C5	33°06'32.77"	15.00	8.67	4.46

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P11	15+90.00	S00°02'05.10"W	381433.2044	562197.6272
P12	16+05.00	(C9)	381418.2044	562197.6181
P13	16+13.76	(C10)	381409.9379	562195.1287
P14	16+22.52	(C11)	381401.6665	562192.6393
P15	16+40.52	S00°00'56.35"W	381383.6665	562192.6344
P16	16+68.72	(C12)	381365.6617	562210.5518
P17	16+86.22	S89°44'13.18"E	381365.5814	562228.0516
P18	16+95.09	(C13)	381368.0907	562236.4263
P19	17+03.99	(C14)	381370.5999	562244.8319
P20	17+13.99	(C15)	381370.5354	562254.8317

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C6	33°26'57.45"	15.00	8.76	4.51
C7	33°28'06.18"	15.00	8.76	4.51
C8	89°43'09.53"	18.00	28.20	17.92
C9	33°53'08.83"	15.00	8.87	4.57
C10	34°00'13.73"	15.00	8.90	4.59



COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P21	6+90.00	N89°33'15.56"E	381334.9704	562100.0376
P22	7+05.00	(C11)	381335.0871	562115.0371
P23	7+13.15	(C12)	381337.3074	562122.7748
P24	7+21.49	(C13)	381339.5280	562130.6981
P25	7+39.49	S89°44'13.18"E	381339.4454	562148.7000
P26	7+67.88	(C14)	381337.4407	562166.6174
P27	7+85.18	(C15)	381303.9407	562166.6126
P28	7+93.76	(C16)	381295.8242	562164.2244
P29	8+02.29	(C17)	381287.7589	562161.8362
P30	8+17.29	(C18)	381272.7590	562161.7809

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C11	31°07'48.16"	15.00	8.15	4.18
C12	31°50'19.41"	15.00	8.34	4.28
C13	89°43'09.53"	18.00	28.20	17.92
C14	32°45'41.23"	15.00	8.58	4.41
C15	32°33'57.55"	15.00	8.53	4.38

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P31	9+90.00	N00°12'51.50"W	381272.4286	562197.4762
P32	10+05.00	(C19)	381287.4285	562197.4201
P33	10+13.55	(C20)	381295.5171	562195.0164
P34	10+22.17	(C21)	381303.6559	562192.6126
P35	10+40.17	N00°00'56.35"E	381321.8659	562192.6175
P36	10+68.52	(C22)	381339.6608	562210.7001
P37	10+86.52	S89°44'13.18"E	381339.5782	562228.6998
P38	10+95.28	(C23)	381337.0538	562236.9595
P39	11+04.07	(C24)	381334.5293	562245.2479
P40	11+19.07	(C25)	381334.4993	562260.2479

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C16	32°40'21.11"	15.00	8.55	4.40
C17	32°34'08.95"	15.00	8.61	4.43
C18	90°14'50.47"	18.00	28.35	18.08
C19	33°27'48.26"	15.00	8.76	4.51
C20	33°34'25.29"	15.00	8.79	4.53



HORIZONTAL SCALE: 1"=20'

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Detailer: SED Numbers

Subent: Roadway Sheets

GM - 2 of 4

Sheet Number 9



**KNOX COURT NEIGHBORHOOD BIKEWAY
GEOMETRIC LAYOUT
W. EXPOSITION AVENUE**

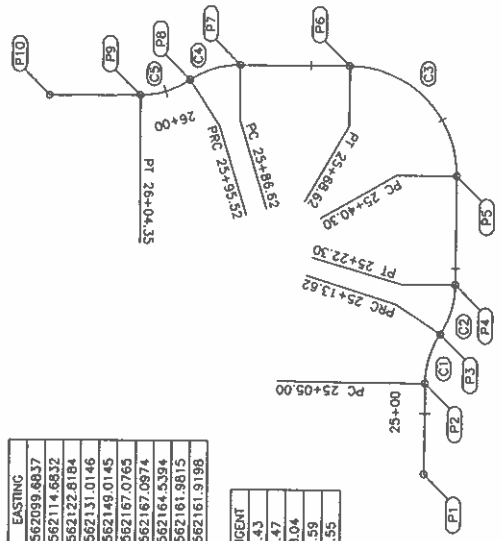
Project No./Code

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P1	24+90.00	S89°34'10.42"E	382364.3815	562099.8837
P2	25+05.00	(C1)	382364.2688	562114.6832
P3	25+13.62	(C2)	382361.7981	562122.8184
P4	25+22.30	(C3)	382359.3271	562131.0146
P5	25+40.30	(C4)	382359.2651	562149.0145
P6	23+68.62	(C5)	382377.2441	562167.0765
P7	25+86.62	(C6)	382395.2441	562187.0874
P8	25+95.52	(C7)	382403.6399	562164.6394
P9	26+04.35	(C8)	382411.9566	562161.9815
P10	26+19.35	(C9)	382426.9565	562161.9188

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	32°55'36.40"	15.00	8.62	4.43
C2	33°09'36.03"	15.00	8.68	4.47
C3	30°07'50.65"	18.00	28.32	18.04
C4	34°01'21.02"	15.00	8.81	4.59
C5	33°43'14.14"	15.00	8.83	4.55

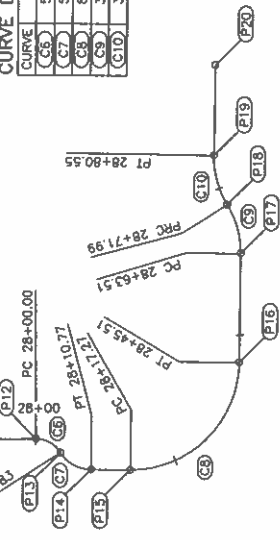


COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P11	27+90.00	S00°36'35.38"E	382392.6399	562197.9633
P12	28+00.00	(C6)	382392.6405	562198.0697
P13	28+04.83	(C7)	382388.5085	562195.8049
P14	28+10.77	(C8)	382383.5725	562193.0850
P15	28+17.27	(C9)	382377.0725	562193.0763
P16	28+45.51	(C10)	382359.0517	562211.0143
P17	28+85.51	(C11)	382358.9898	562229.0142
P18	28+71.99	(C12)	382351.2963	562237.0882
P19	28+90.55	(C13)	382363.6023	562245.1791
P20	28+95.55	(C14)	382363.4737	562260.1785

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C6	55°18'57.66"	5.00	4.83	2.62
C7	56°47'02.84"	6.00	5.95	3.24
C8	89°52'09.35"	18.00	28.23	17.96
C9	32°23'36.46"	15.00	8.48	4.36
C10	32°41'14.70"	15.00	8.56	4.40

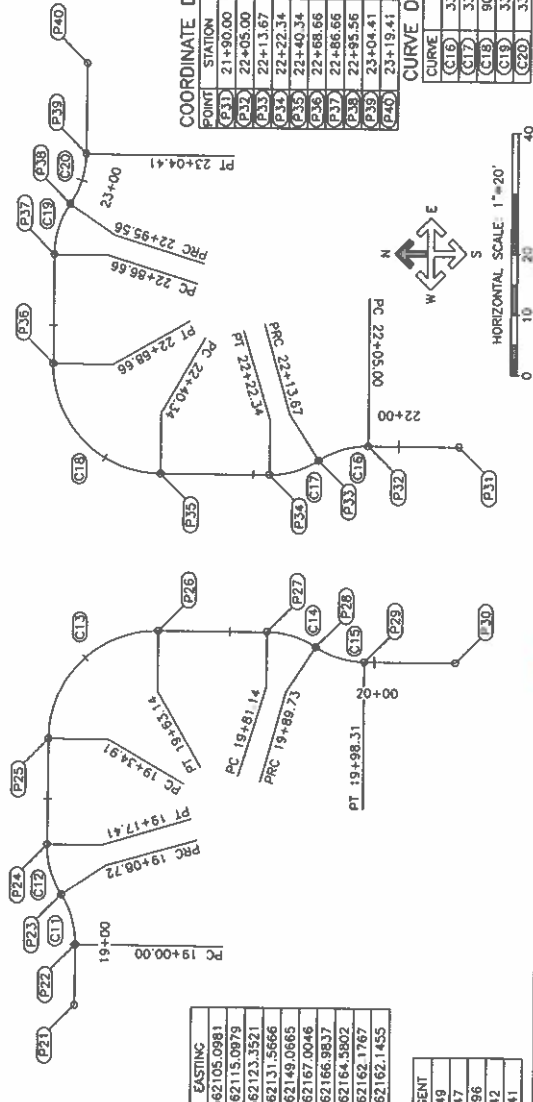


COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P21	19+00.00	S89°39'05.81"E	382328.5549	562105.0981
P22	19+00.00	(C11)	382328.4941	562115.0979
P23	19+08.72	(C12)	382330.9085	562123.3521
P24	19+17.41	(C13)	382333.3250	562131.5666
P25	19+34.91	(C14)	382333.2648	562149.0665
P26	19+85.14	(C15)	382315.2440	562167.0046
P27	19+81.14	(C16)	382297.2440	562166.9837
P28	19+89.73	(C17)	382289.1172	562164.5902
P29	19+98.31	(C18)	382281.0043	562162.1767
P30	20+13.31	(C19)	382266.0043	562162.1455

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C11	33°19'05.20"	15.00	8.72	4.49
C12	33°10'00.91"	15.00	8.68	4.47
C13	89°52'09.35"	18.00	28.23	17.96
C14	32°48'04.87"	15.00	8.59	4.42
C15	32°45'34.15"	15.00	8.56	4.41



COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P31	21+90.00	N00°04'03.79"E	382265.6735	562197.8216
P32	22+05.00	(C18)	382280.6735	562197.8393
P33	22+13.67	(C19)	382288.8731	562195.4114
P34	22+22.34	(C20)	382297.0724	562192.9835
P35	22+40.34	(C21)	382315.0724	562193.0044
P36	22+68.66	(C22)	382333.0514	562211.0663
P37	22+86.66	(C23)	382332.9894	562229.0662
P38	22+95.56	(C24)	382330.3878	562237.4428
P39	23+04.41	(C25)	382327.8064	562245.7727
P40	23+19.41	(C26)	382327.7079	562260.7723

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C18	33°07'25.46"	15.00	8.67	4.46
C19	33°07'20.92"	15.00	8.67	4.46
C20	90°07'50.65"	18.00	28.32	18.04
C21	33°59'20.03"	15.00	8.90	4.58
C22	33°48'36.63"	15.00	8.85	4.56

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 CONSTRUCTION
 Phone: 303.711.1440
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Project No./Code: **KNOX COURT NEIGHBORHOOD BIKEWAY GEOMETRIC LAYOUT W. CUSTER PLACE**

As Constructed: No Revisions: Revised: Void:

Designer: _____
 Detailer: _____
 Subst: _____

Sheet Number: **10**
 of **4**



DENVER
THE MILE HIGH CITY

Sheet Revisions	Comments	Initials	Date

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P1	35+90.00	S89°03'05.29"E	382705.3240	562103.4530
P2	36+05.00	382705.0757	562118.4509	
P3	36+11.55	382703.5626	562124.7721	
P4	36+18.26	382702.0478	562131.2519	
P5	36+34.59	S89°39'25.69"E	382701.9500	562147.5820
P6	36+53.06	N00°15'23.54"W	382720.0303	562165.6895
P7	36+79.04	382736.0196	562165.6179	
P8	36+87.02	382743.6156	562163.6129	
P9	36+95.10	382751.3148	562161.4077	
P10	37+10.10	N00°08'16.47"E	382766.3148	562161.4438

CURVE DATA

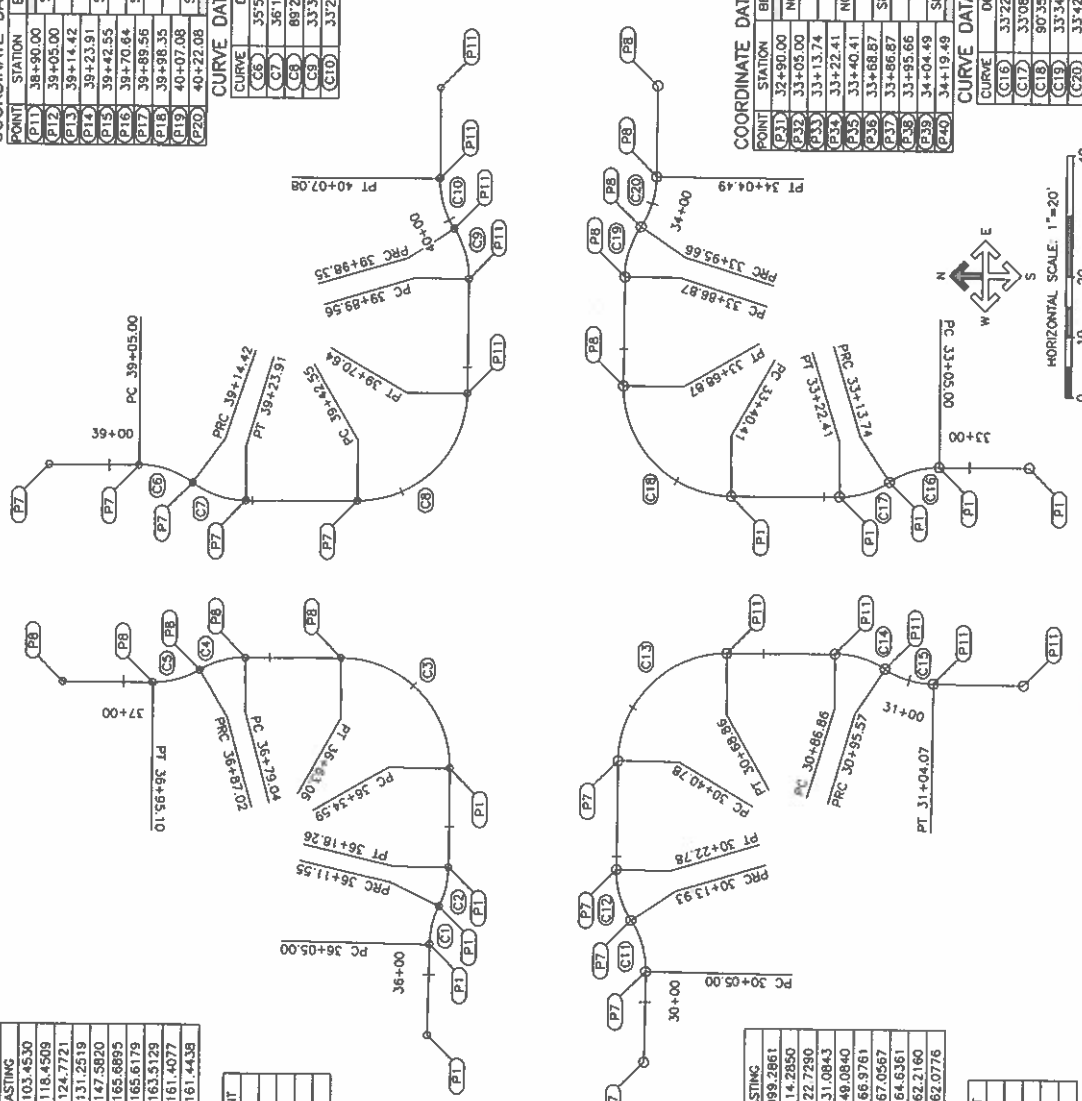
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	25°01'33.03"	15.00	6.55	3.33
C2	25°37'53.43"	15.00	6.71	3.41
C3	90°35'57.85"	18.00	28.46	18.19
C4	30°27'58.58"	15.00	7.98	4.08
C5	30°31'56.59"	15.00	8.08	4.14

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P11	38+90.00	S90°00'00.59"E	382768.8323	562197.3412
P12	39+05.00	382753.8323	562197.3427	
P13	39+14.42	382745.0170	562194.4801	
P14	39+23.91	382736.1360	562191.6177	
P15	39+42.55	S00°15'23.54"E	382717.4980	562191.7011
P16	39+70.64	S89°39'25.69"E	382699.5789	562209.5932
P17	39+89.56	382689.4656	562228.5219	
P18	39+98.35	382701.9167	562245.0774	
P19	40+07.08	S89°53'02.46"E	382704.3376	562260.0773
P20	40+22.08			

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C6	35°59'30.30"	15.00	9.42	4.87
C7	36°14'33.25"	15.00	9.49	4.91
C8	89°24'02.15"	18.00	28.09	17.81
C9	33°33'43.90"	15.00	8.79	4.52
C10	33°20'07.15"	15.00	8.73	4.49



COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P21	29+90.00	S89°19'06.20"E	382669.2624	562099.2861
P22	30+05.00	382669.0840	562112.2850	
P23	30+13.93	382671.5657	562122.7290	
P24	30+22.78	382674.0463	562131.0843	
P25	30+40.78	S89°39'25.69"E	382673.9405	562148.0840
P26	30+68.86	S00°15'23.54"E	382656.0216	562166.9761
P27	30+86.86	382638.0216	562167.0567	
P28	30+95.57	382629.7836	562164.6361	
P29	31+04.07	382621.7511	562162.2160	
P30	31+19.07	S00°31'42.52"W	382606.7517	562162.0776

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C11	34°07'11.26"	15.00	8.93	4.60
C12	33°46'51.75"	15.00	8.84	4.55
C13	89°24'02.15"	18.00	28.09	17.81
C14	33°15'44.60"	15.00	8.71	4.48
C15	32°28'38.56"	15.00	8.50	4.37

COORDINATE DATA

POINT	STATION	BEARING/CURVE	NORTHING	EASTING
P31	32+90.00	N00°00'57.35"W	382606.0504	562198.0153
P32	33+05.00	382621.0504	562195.5352	
P33	33+13.74	382629.3014	562193.0594	
P34	33+22.41	N00°15'23.54"W	382637.4894	562192.9788
P35	33+40.41	382655.4892	562211.0883	
P36	33+68.67	382673.5695	562211.0883	
P37	33+96.87	382673.5695	562229.0860	
P38	33+95.66	382673.4618	562237.3650	
P39	34+04.49	382668.3590	562245.6786	
P40	34+19.49	S89°47'33.73"E	382668.3047	562260.6785

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C16	33°22'29.33"	15.00	8.74	4.50
C17	33°08'03.11"	15.00	8.67	4.46
C18	90°35'57.85"	18.00	28.46	18.19
C19	33°34'09.57"	15.00	8.79	4.52
C20	33°42'17.63"	15.00	8.82	4.54

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Sheet Revisions
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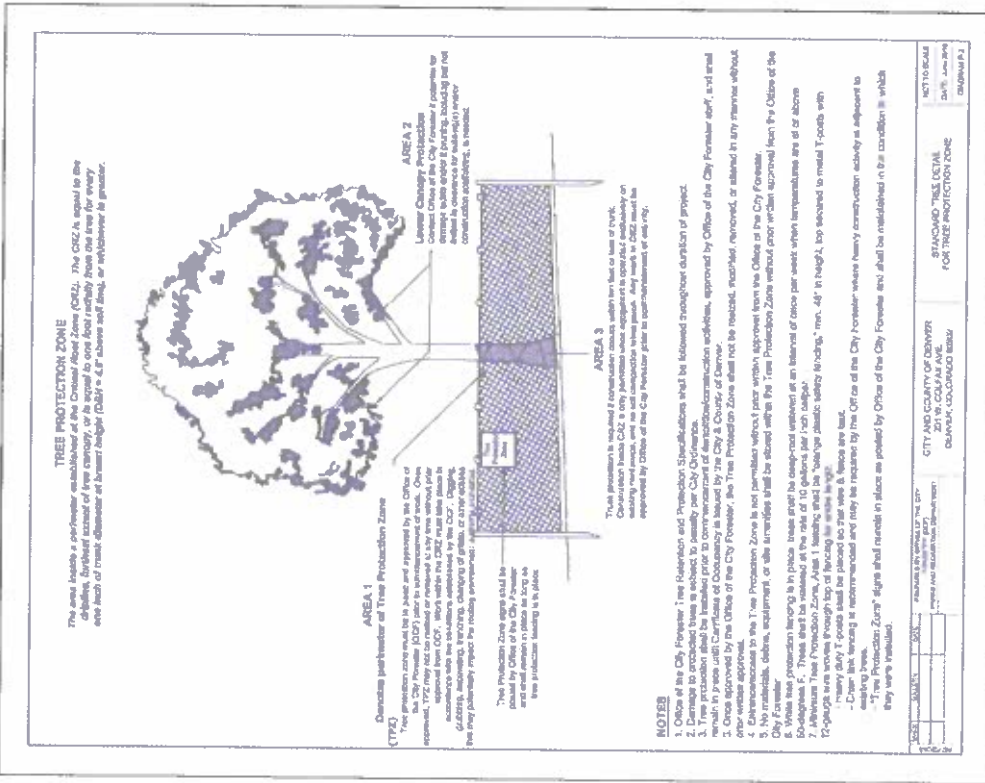
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**KNOX COURT NEIGHBORHOOD BIKEWAY
 GEOMETRIC LAYOUT
 W. VIRGINIA AVENUE**

Project No./Code
 Roadway Sheets: GM-4 of 4
 Sheet Number 11

TREE PROTECTION NOTES:

1. EXISTING TREES TO BE PRESERVED IN PUBLIC RIGHT OF WAY SHALL BE PROTECTED PER OFFICE OF THE CITY FORESTER STANDARDS & PRACTICES. TREE PROTECTION SHALL BE INSTALLED PRIOR TO ISSUE OF DEMOLITION/BUILDING PERMIT. APPROVED BY THE OFFICE OF THE CITY FORESTER AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR STORAGE OF CONSTRUCTION MATERIALS/EQUIPMENT SHALL TAKE PLACE WITHIN TREE PROTECTION ZONES WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OFFICE OF THE CITY FORESTER. ALL CONSTRUCTION ACTIVITY MUST OCCUR OUTSIDE TREE PROTECTION ZONES (I.E. DRIPLINES OF TREES).
2. IF PRIOR FOR CONSTRUCTION ACTIVITY IS NECESSARY, CONTRACTOR SHALL CONSULT WITH OFFICE OF THE CITY FORESTER STAFF PRIOR TO COMMENCEMENT OF WORK.
3. MINIMUM TREE PROTECTION REQUIREMENTS: TREE PROTECTION SHALL BE INSTALLED AT THE CRITICAL ROOT ZONE (CRZ). THE CRZ IS EQUAL TO THE DRIFLINE, FURTHEST EXTENT OF TREE CANOPY, OR IS EQUAL TO ONE FOOT RADially FROM THE TREE FOR EVERY ONE INCH OF TRUNK DIAMETER AT BREAST HEIGHT (DBH = 4.5 ABOVE SOIL LINE), WHICHEVER IS GREATER.
 - a. FOR DEMOLITION ACTIVITIES: ORANGE PLASTIC SAFETY FENCING IS ACCEPTABLE. FENCING SHALL BE MIN. 48" IN HEIGHT, TOP SECURED TO METAL T-POSTS WITH 12-GAUGE WIRE. WIRE TO BE WRAPPED AROUND ENTIRE PERIMETER OF FENCING FOR ENTIRE LENGTH. HEAVY DUTY T-POSTS SHALL BE PLACED SO THAT WIRE & FENCE ARE TIGHT AGAINST TREE.
 - b. FOR CONSTRUCTION ACTIVITIES: USE 6" CHAIN LINK FENCING TO ESTABLISH TREE PROTECTION ZONE (TPZ). ONCE TPZ IS IN PLACE, IT MAY NOT BE MOVED, RESIZED, REMOVED, OR ALTERED IN ANY MANNER WITHOUT PRIOR WRITTEN APPROVAL FROM OFFICE OF THE CITY FORESTER.
4. OFFICE OF THE CITY FORESTER STAFF SHALL INSPECT AND APPROVE BOUNDARIES OF TREE PROTECTION ZONE(S) PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES; INCLUDING WHEN PLASTIC FENCING IS TO BE REPLACED WITH CHAIN LINK FENCING. PLASTIC FENCING IS INITIALLY INSTALLED. ONCE APPROVED BY THE OFFICE OF THE CITY FORESTER, THE TREE PROTECTION ZONE SHALL NOT BE RESIZED, MODIFIED, REMOVED, OR ALTERED IN ANY MANNER WITHOUT PRIOR APPROVAL.
5. "TREE PROTECTION ZONE" SIGNS SHALL REMAIN IN PLACE AS POSTED BY OFFICE OF THE CITY FORESTER AND SHALL BE MAINTAINED IN THE CONDITION IN WHICH THEY WERE INSTALLED.
6. NO ENTRANCE AND/OR ACCESS TO THE TREE PROTECTION ZONE, INCLUDING CONSTRUCTION ACTIVITIES, IS PERMITTED WITHOUT PRIOR APPROVAL FROM THE OFFICE OF THE CITY FORESTER.
7. EXISTING ROW TREES APPROVED FOR REMOVAL BY THE OFFICE OF THE CITY FORESTER MUST BE PROTECTED IN PLACE PER ORDINANCE STANDARDS & SPECIFICATIONS UNTIL REMOVED BY AN OFFICE OF THE CITY FORESTER-LICENSED TREE CONTRACTOR. NO TREE IS TO BE REMOVED FROM THE OFFICE OF THE CITY FORESTER PRIOR TO REMOVAL. FAILURE TO PROTECT SUCH TREES UNTIL REMOVED BY AN OFFICE OF THE CITY FORESTER-LICENSED TREE CONTRACTOR WILL RESULT IN NOTICE OF VIOLATION AND MAY INCLUDE CITATIONS/FINES. TREE REMOVAL PERMITS ARE NOT INCLUDED WITH BUILDING PERMITS AND MUST BE OBTAINED SEPARATELY FROM THE OFFICE OF THE CITY FORESTER.
8. NO CONSTRUCTION ACCESS, ACTIVITY, OR STORAGE OF MATERIALS/DEBRIS/EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION ZONES, INCLUDING GRADING, INSTALLATION OF UNDERGROUND UTILITIES, INSTALLATION OF SITE IMPROVEMENTS, LAND/OR GRUBBING/LANDSCAPING. ALL CONSTRUCTION ACTIVITY MUST OCCUR OUTSIDE TREE PROTECTION ZONES (I.E. DRIFLINES OF TREES).
9. IT IS ESTIMATED THAT UP TO 160 LINEAR FEET OF PLASTIC FENCING WILL BE REQUIRED FOR TREE PROTECTION ON THIS PROJECT (SEE STANDARD DETAIL NOTE 7).



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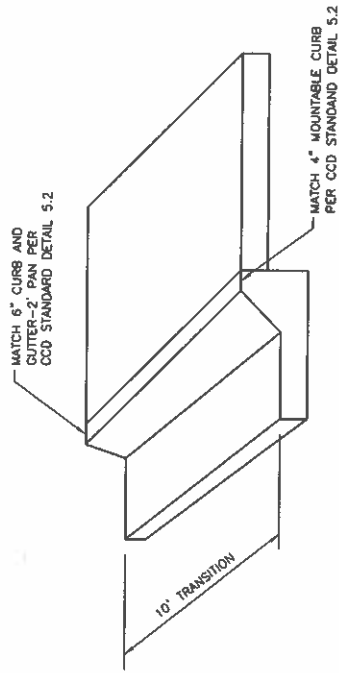
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Sheet Revisions

Rev	Date	Comments	Initials
001			
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As Constructed		KNOX COURT NEIGHBORHOOD BIKEWAY TREE PROTECTION DETAIL		Project No./Code	
No Revisions:					
Revised:		Designer:	KUH Structure		
Void:		Detailer:	KUH Numbers		
		General:		TD-1 of 1	Sheet Number 12
		Submitt:			



CURB TRANSITION DETAIL

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Date	Comments	Initials																		

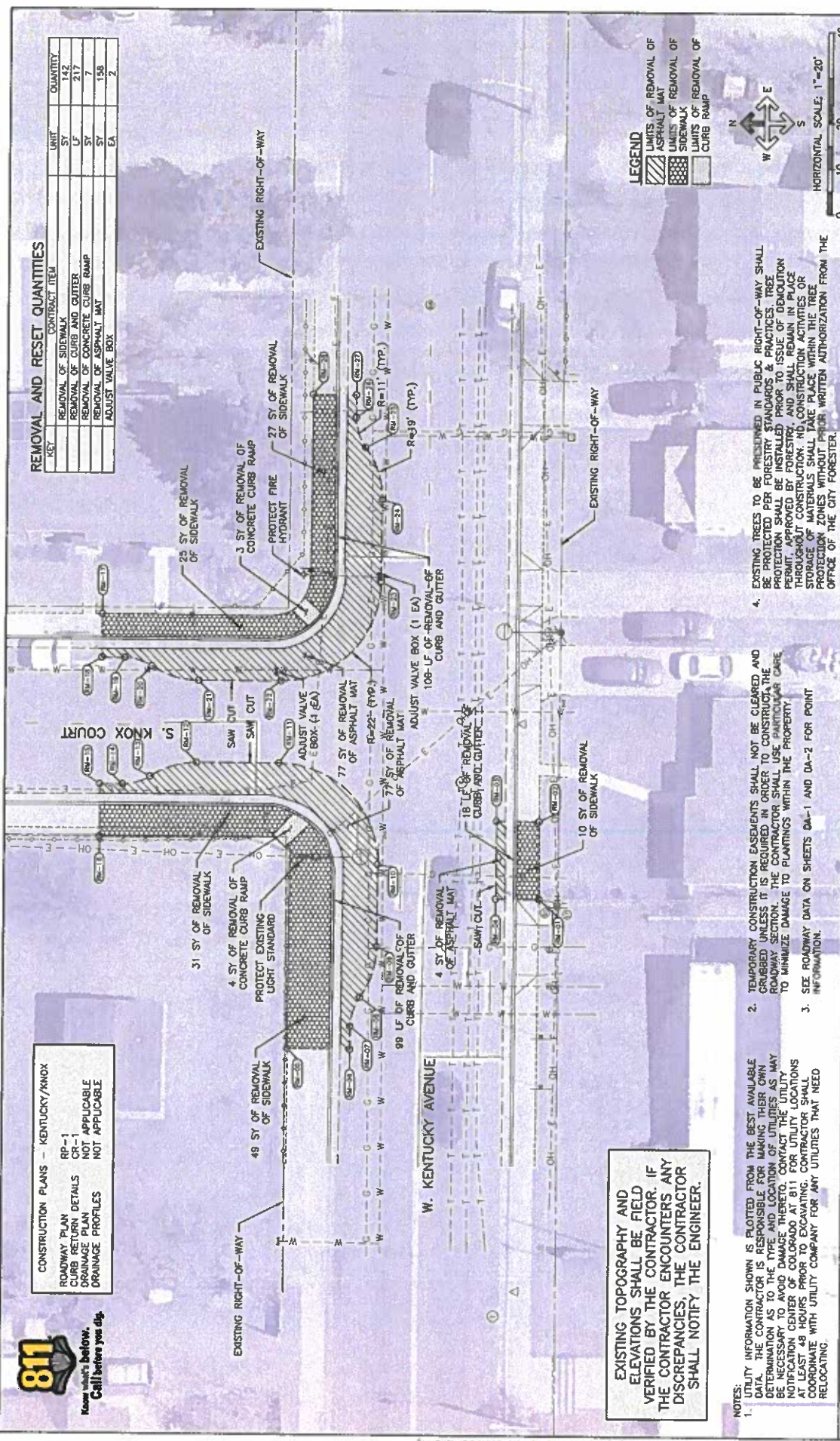




CONSTRUCTION PLANS - KENTUCKY/KNOX
 ROADWAY PLAN RP-1
 CURB RETURN DETAILS CR-1
 DRAINAGE PLAN NOT APPLICABLE
 DRAINAGE PROFILES NOT APPLICABLE

REMOVAL AND RESET QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
	REMOVAL OF SIDEWALK	SY	142
	REMOVAL OF CURB AND GUTTER	LF	217
	REMOVAL OF CONCRETE CURB RAMP	SY	7
	REMOVAL OF ASPHALT MAT	SY	158
	ADJUST VALVE BOX	EA	2



EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- NOTES:**
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES. AS NECESSARY TO AVOID DAMAGE THEREOF, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRABBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 - SEE ROADWAY DATA ON SHEETS DA-1 AND DA-2 FOR POINT INFORMATION.
 - EXISTING TREES TO BE PROTECTED IN PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED PER FORESTRY STANDARDS & PRACTICES. TREE PROTECTION SHALL BE INSTALLED PRIOR TO ISSUE OF DEMOLITION PERMIT, APPROVED BY FORESTRY, AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR PROTECTION ZONES WITHOUT WRITTEN AUTHORIZATION FROM THE OFFICE OF THE CITY FORESTER.



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Sheet Revisions

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DESIGNER: K/H/Structure
DETAILER: K/H/Numbers
SUBSET: Roadway Sheets

PROJECT NO./CODE: KNOX COURT NEIGHBORHOOD BIKEWAY REMOVAL AND RESET PLAN W. KENTUCKY AVENUE

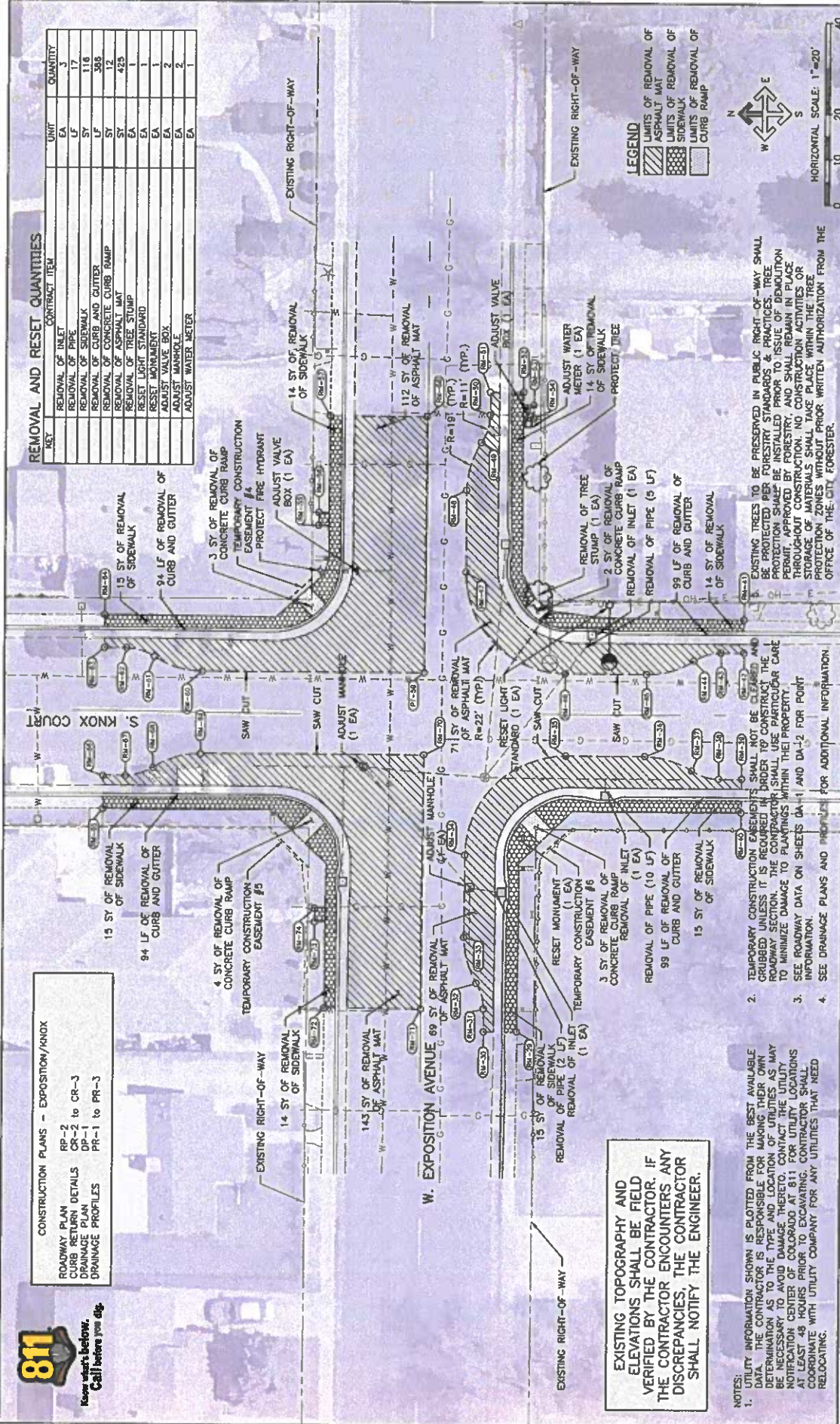
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OF: 16
RU-1 of 4



CONSTRUCTION PLANS - EXPOSITION/KNOX
 ROADWAY PLAN RP-2
 CURB RETURN DETAILS CR-2 to CR-3
 DRAINAGE PLAN DP-1
 DRAINAGE PROFILES PR-1 to PR-3

REMOVAL AND RESET QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
REMOVAL OF INLET		EA	3
REMOVAL OF PIPE		LF	17
REMOVAL OF SIDEWALK		SY	116
REMOVAL OF CURB AND GUTTER		LF	308
REMOVAL OF CONCRETE CURB RAMP		SY	12
REMOVAL OF ASPHALT MAT		SY	425
REMOVAL OF TREE STUMP		EA	1
RESET MONUMENT		EA	1
RESET VALVE BOX		EA	2
ADJUST MANHOLE		EA	2
ADJUST WATER METER		EA	1



EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

NOTES:
 1. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 2. TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND ORDER TO CONSTRUCT THE ROADWAY SECTION WITHIN THIS PROJECT TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THEIR PROPERTY.
 3. SEE ROADWAY DATA ON SHEETS DA-11 AND DA-12 FOR POINT INFORMATION.
 4. SEE DRAINAGE PLANS AND PROFILES FOR ADDITIONAL INFORMATION.

EXISTING TREES TO BE PRESERVED IN PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED PER FORESTRY STANDARDS & PRACTICES. TREE PROTECTION SHADES BE INSTALLED PRIOR TO ISSUE OF DEMOLITION APPROVAL. FORESTRY AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION ACTIVITIES OR STORAGE OF MATERIALS. SHALL TAKE PLACE WITHIN THE PROTECTION ZONES WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OFFICE OF THE CITY FORESTER.

LEGEND
 LIMITS OF REMOVAL OF ASPHALT MAT
 LIMITS OF REMOVAL OF SIDEWALK
 LIMITS OF REMOVAL OF CURB RAMP

HORIZONTAL SCALE: 1"=20'
 0 10 20 40

As Constructed		KNOX COURT NEIGHBORHOOD BIKEWAY REMOVAL AND RESET PLAN		Project No./Code	
No Revisions:		W. EXPOSITION AVENUE		-	
Revised:		Designer:	KJH Structure		
Void:		Detailer:	KJH Numbers		
			Subject:	Roadway Sheets	Sheet Number
				RM-2 of 4	17

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Sheet Revisions	Initials
Date	Comments
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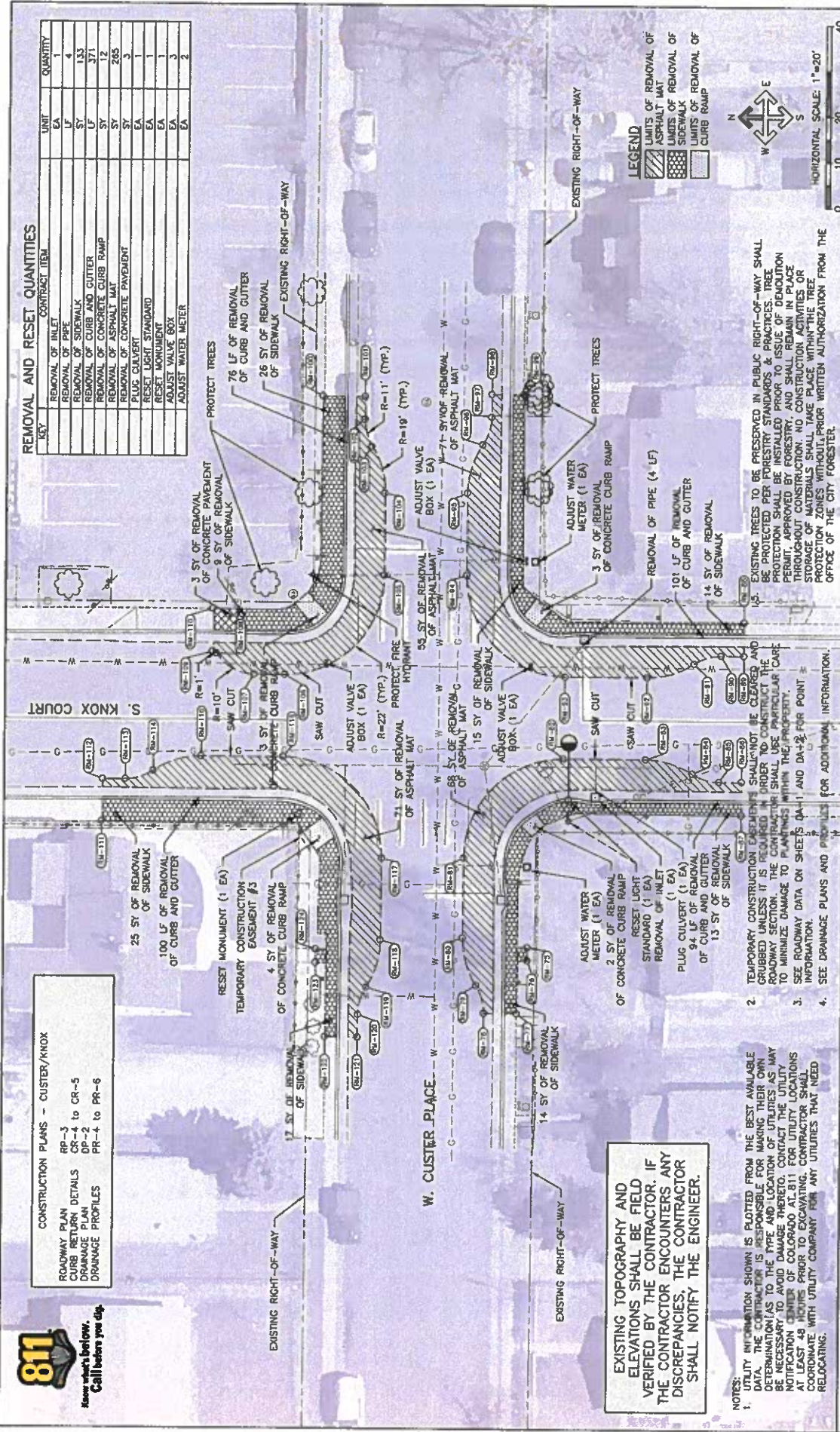
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CONSTRUCTION PLANS - CUSTER/KNOX
 ROADWAY PLAN RP-3
 CURB RETURN DETAILS CR-4 to CR-5
 DRAINAGE PLAN DP-2
 DRAINAGE PROFILES PR-4 to PR-6

REMOVAL AND RESET QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
	REMOVAL OF INLET	EA	1
	REMOVAL OF PIPE	LF	4
	REMOVAL OF SIDEWALK	SY	133
	REMOVAL OF CURB AND GUTTER	LF	371
	REMOVAL OF CONCRETE CURB RAMP	SY	12
	REMOVAL OF ASPHALT MAT	SY	285
	REMOVAL OF CONCRETE PAVEMENT	SY	3
	RESET LIGHT STANDARD	EA	1
	RESET MONUMENT	EA	1
	ADJUST VALVE BOX	EA	3
	ADJUST WATER METER	EA	2



EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

NOTES:
 1. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 2. TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND ORDER TO CONSTRUCT THE ROADWAY SECTIONS. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 3. SEE ROADWAY DATA ON SHEETS QA-11 AND DA-2 FOR POINT INFORMATION.
 4. SEE DRAINAGE PLANS AND PROFILES FOR ADDITIONAL INFORMATION.



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Sheet Revisions
 (E-3) Date Comments Initials

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 No Revisions
 Revised:
 Void

Design: KJH Structure Numbers
 Detailer: KJH
 Subject: Roadway Sheets: RM-3 of 4

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**KNOX COURT NEIGHBORHOOD BIKEWAY
 REMOVAL AND RESET PLAN
 W. CUSTER PLACE**

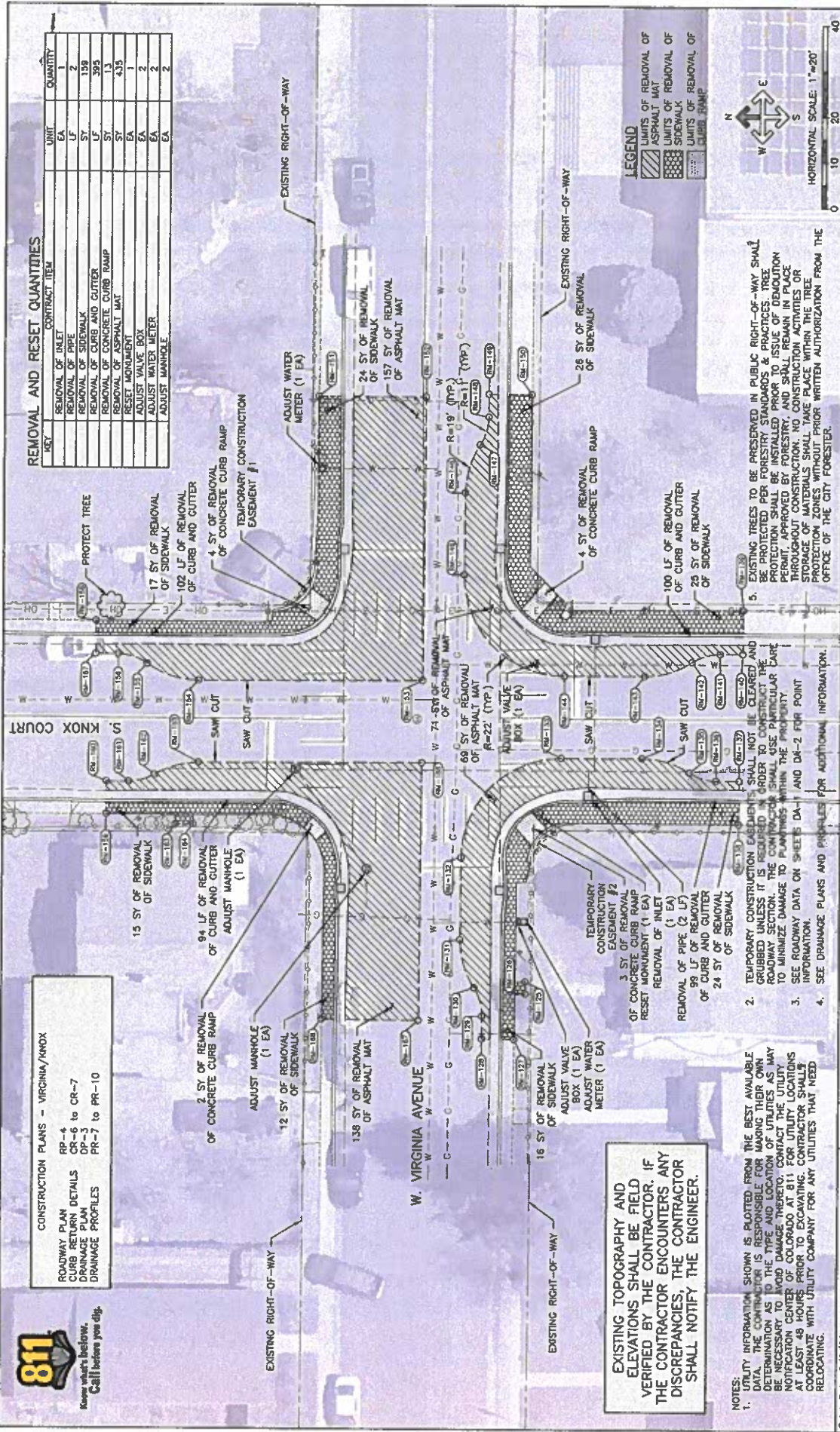
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CONSTRUCTION PLANS - VIRGINIA/KNOX
 ROADWAY PLAN RP-4
 CURB RETURN DETAILS CR-6 to CR-7
 DRAINAGE PLAN DP-3
 DRAINAGE PROFILES PR-7 to PR-10

REMOVAL AND RESET QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
EA	REMOVAL OF INLET	EA	1
EA	REMOVAL OF PIPE	EA	2
LF	REMOVAL OF SIDEWALK	LF	159
LF	REMOVAL OF CURB AND CUTTER	LF	395
ST	REMOVAL OF CONCRETE CURB RAMP	ST	13
EA	REMOVAL OF ASPHALT MAT	EA	435
EA	RESET MONUMENT	EA	1
EA	ADJUST VALVE BOX	EA	2
EA	ADJUST WATER METER	EA	2
EA	ADJUST MANHOLE	EA	2



EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- NOTES:**
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS CLEARED UNDER ORDER AND PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY INFORMATION.
 - SEE ROADWAY DATA ON SHEETS DA-1 AND DA-2 FOR POINT INFORMATION.
 - SEE DRAINAGE PLANS AND PROFILES FOR ADDITIONAL INFORMATION.
 - EXISTING TREES TO BE PRESERVED IN PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED PER FORESTRY STANDARDS & PRACTICES. TREE REMOVAL SHALL BE APPROVED PRIOR TO DEMOLITION. TREE REMOVAL SHALL BE PERMITTED AND APPROVED BY THE CITY THROUGHOUT CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR STORAGE OF MATERIALS SHALL TAKE PLACE WITHIN THE TREE PROTECTION ZONES WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OFFICE OF THE CITY FORESTER.

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Sheet Revisions	Date	Comments	Initials

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Designer: K/JH	Structure Numbers: _____
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**KNOX COURT NEIGHBORHOOD BIKEWAY
 REMOVAL AND RESET PLAN
 W. VIRGINIA AVENUE**

RM-4 of 4
 Roadway Sheets

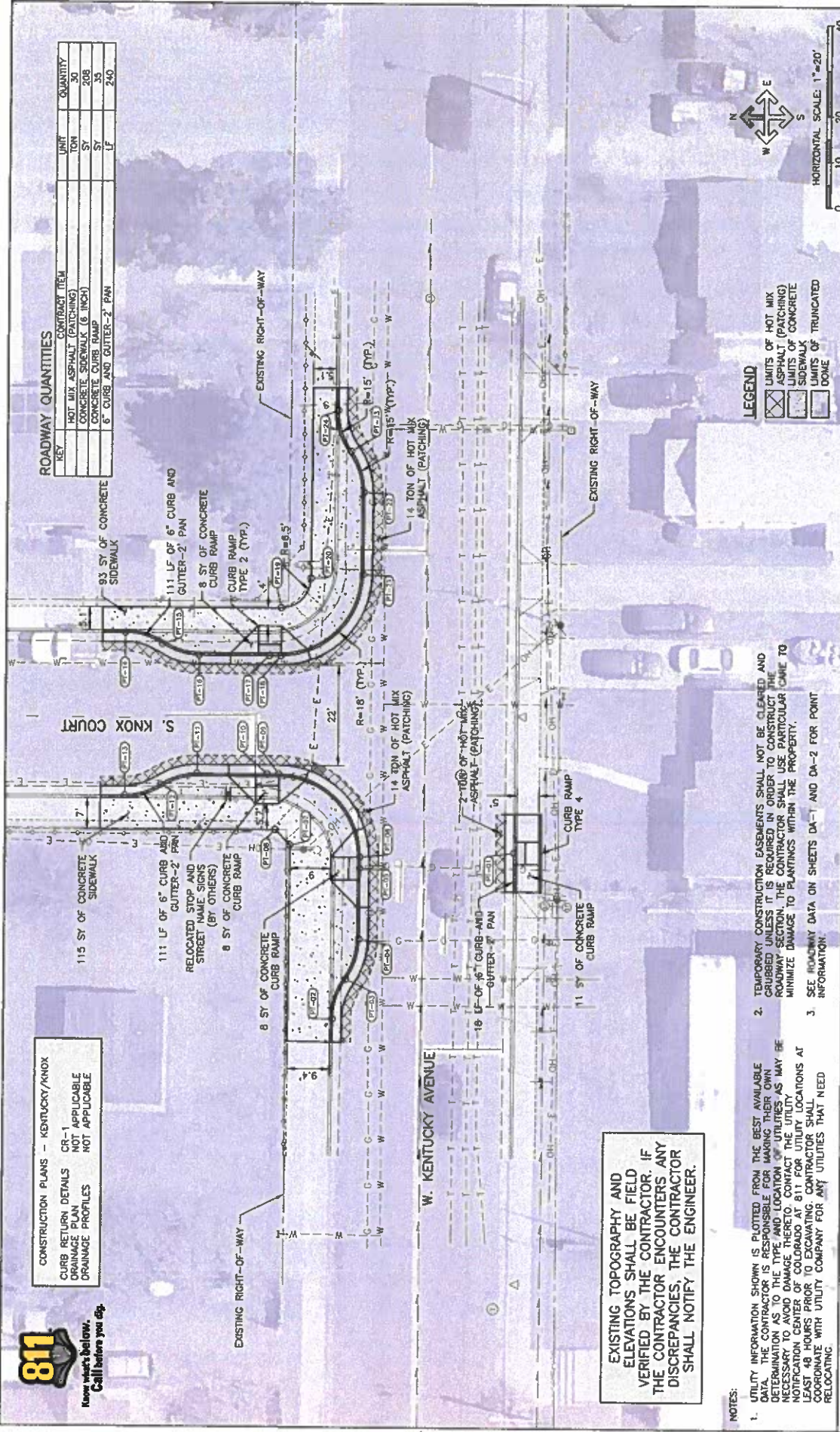
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CONSTRUCTION PLANS - KENTUCKY/KNOX
 CURB RETURN DETAILS CR-1 NOT APPLICABLE
 DRAINAGE PLAN NOT APPLICABLE
 DRAINAGE PROFILES NOT APPLICABLE

ROADWAY QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
	HOT MIX ASPHALT (PATCHING)	TON	50
	CONCRETE SIDEWALK (6 INCH)	SY	208
	CONCRETE CURB RAMP	SY	35
	6" CURB AND GUTTER-2 PAN	LF	240



EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- NOTES:**
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY. CONTACT THE UTILITY NOTIFICATION CENTER OR THE UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND CRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 - SEE ROADWAY DATA ON SHEETS DA-1 AND DA-2 FOR POINT INFORMATION.

LEGEND

- [Symbol] LIMITS OF HOT MIX ASPHALT (PATCHING)
- [Symbol] LIMITS OF CONCRETE SIDEWALK
- [Symbol] LIMITS OF TRUNCATED DOME



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811		FELSBERG 4300 South Syracuse Way, Suite 400 Centennial, CO 80111 Phone: 303.721.1440 www.FELSBERG.com		As Constructed:
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Sheet Revisions

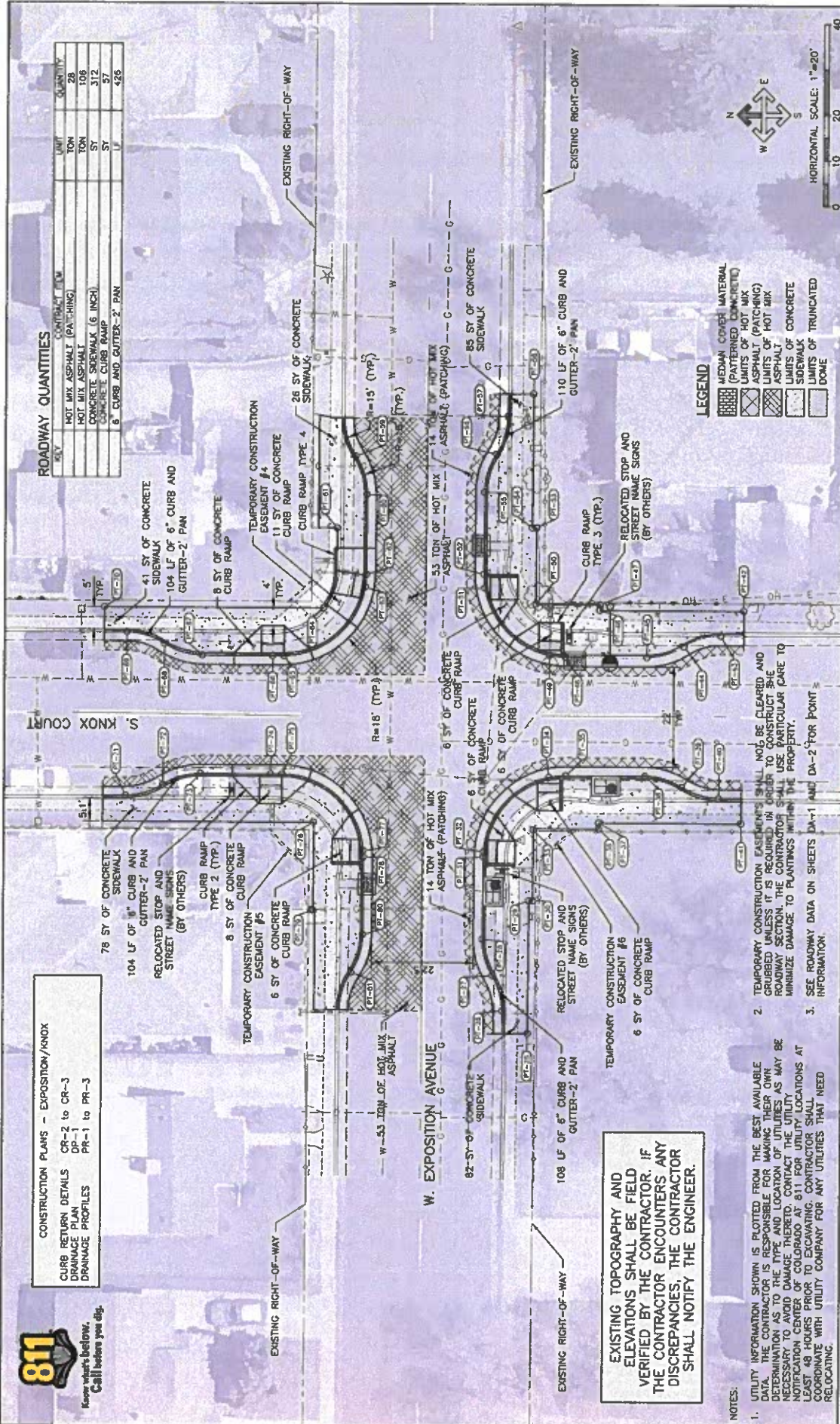
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CONSTRUCTION PLANS - EXPOSITION/KNOX
 CURB RETURN DETAILS CR-2 to CR-3
 DRAINAGE PLAN DP-1 to PR-3
 DRAINAGE PROFILES PR-1 to PR-3

ROADWAY QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
	HOT MIX ASPHALT (PA-HING)	TON	28
	HOT MIX ASPHALT	TON	109
	CONCRETE SIDEWALK (6 INCH)	ST	312
	CONCRETE CURB RAMP	ST	57
	6 CURB AND GUTTER-2' PAN	L	426



EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- NOTES:**
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE DAMAGED HEREIN. CONTACT THE UTILITY NOTIFICATION CENTER AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 - SEE ROADWAY DATA ON SHEETS DA-1 AND DA-2 FOR POINT INFORMATION.

LEGEND

- MEDIAN COVER MATERIAL (PATTERNED CONCRETE)
- LIMITS OF HOT MIX ASPHALT (PATCHING)
- LIMITS OF HOT MIX ASPHALT
- LIMITS OF CONCRETE SIDEWALK
- LIMITS OF TRUNCATED DOME

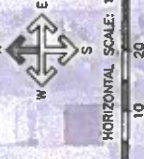
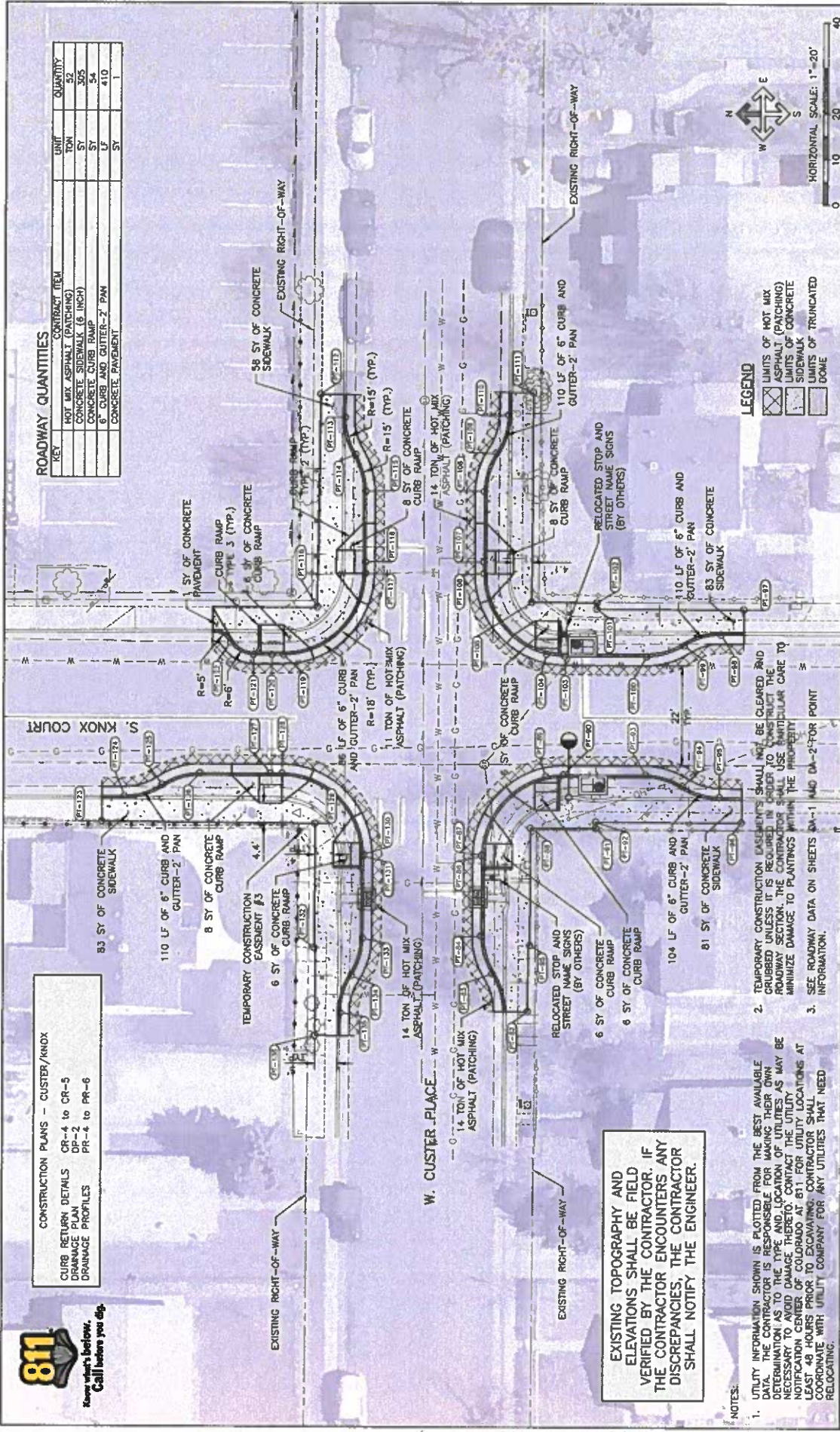


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CONSTRUCTION PLANS - CUSTER/KNOX
 CURB RETURN DETAILS CR-4 to CR-5
 DRAINAGE PLAN DP-2
 DRAINAGE PROFILES PR-4 to PR-6

ROADWAY QUANTITIES		
KEY	CONTRACT ITEM	QUANTITY
	HOT MIX ASPHALT (PATCHING)	TON
	CONCRETE SIDEWALK (6 INCH)	SY
	CONCRETE CURB RAMP	SY
	6" CURB AND GUTTER-2" PAN	LF
	CONCRETE PAVEMENT	SY



LEGEND
 LIMITS OF HOT MIX ASPHALT (PATCHING)
 LIMITS OF CONCRETE SIDEWALK
 LIMITS OF TRUNCATED CURB

EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- NOTES:**
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NECESSARY TO AVOID DAMAGE TO UTILITIES AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - TEMPORARY CONSTRUCTION ELEMENTS SHALL NOT BE CLEARED AND CRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE APPROPRIATE CAME TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 - SEE ROADWAY DATA ON SHEETS SA-1 AND SA-2 FOR POINT INFORMATION.

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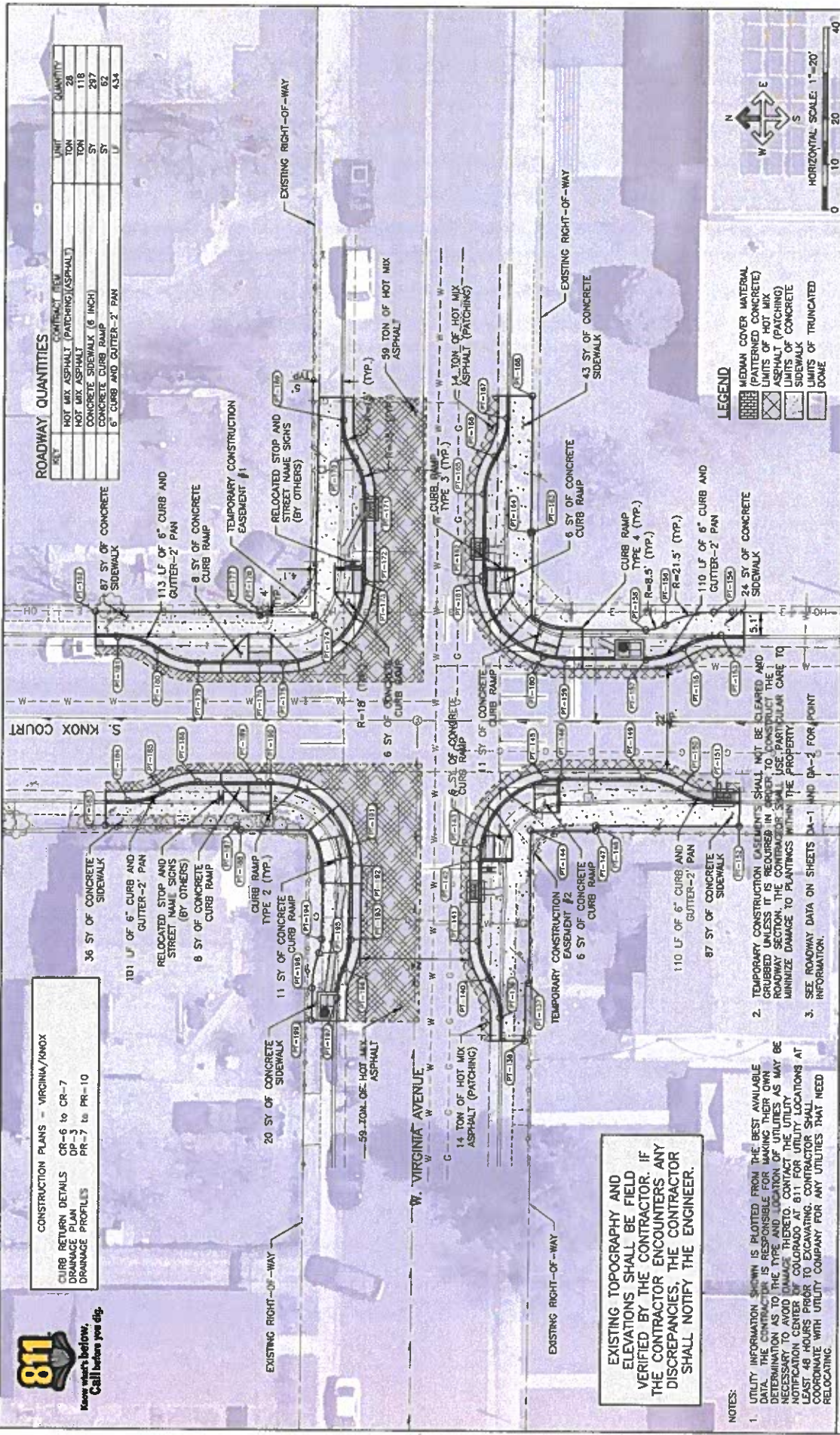




CONSTRUCTION PLANS - VIRGINIA/KNOX
 CURB RETURN DETAILS CR-6 to CR-7
 DRAINAGE PLAN DP-3
 DRAINAGE PROFILES PR-7 to PR-10

ROADWAY QUANTITIES

ITEM	COMPLIANT ITEM	UNIT	QUANTITY
HOT MIX ASPHALT (PATCHING)(ASPHALT)		TON	28
HOT MIX ASPHALT		TON	118
CONCRETE SIDEWALK (6 INCH)		SY	297
CONCRETE CURB RAMP		SY	52
6" CURB AND GUTTER-2" PAN		LF	434



HORIZONTAL SCALE: 1"=20'
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LEGEND

- MEDIAN COVER MATERIAL (PATTERNED CONCRETE) (LIMITS OF HOT MIX ASPHALT (PATCHING))
- ASPHALT (PATCHING) (LIMITS OF CONCRETE SIDEWALK)
- CONCRETE (LIMITS OF TRUNCATED CONE)

EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- NOTES:**
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN VERIFICATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY AND FOR OBTAINING THE NECESSARY PERMITS FROM THE UTILITY NOTIFICATION CENTER BY COLORADO, AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE PARTIAL CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 - SEE ROADWAY DATA ON SHEETS DA-1 AND DA-2 FOR POINT INFORMATION.

As Constructed

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Project No./Code

KNOX COURT NEIGHBORHOOD BIKEWAY ROADWAY PLAN W. VIRGINIA AVENUE

Designer: K/H Structure

Detailer: K/H Numbers

Subvet: Roadway/ Sheets: RP-4 of 4

Sheet Number: 23

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Sheet Revisions

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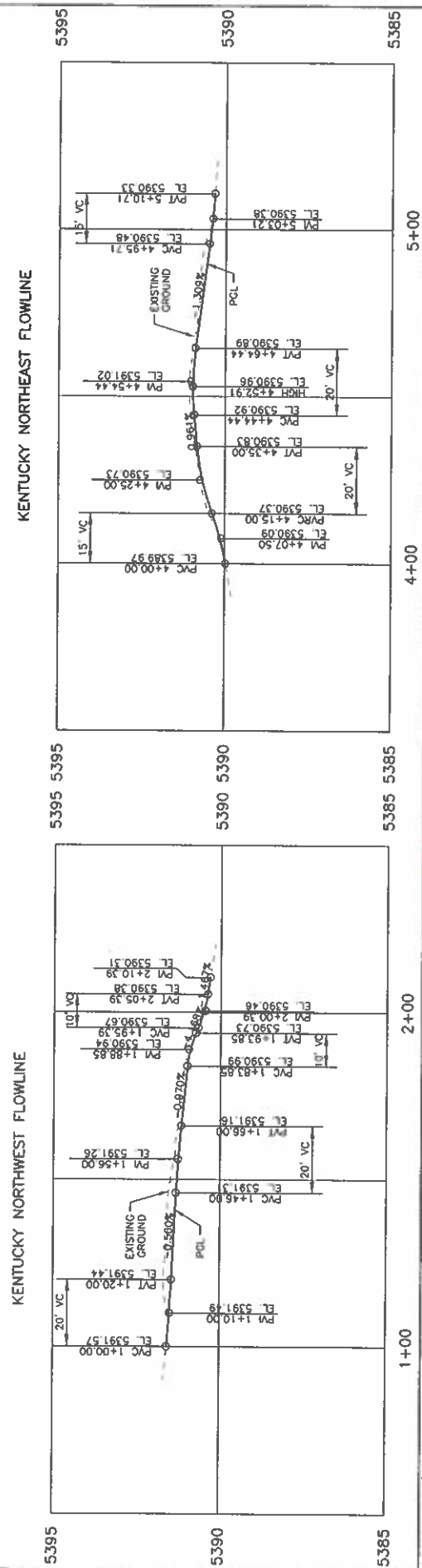
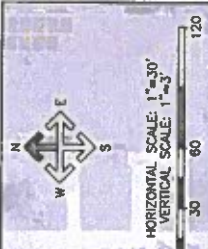
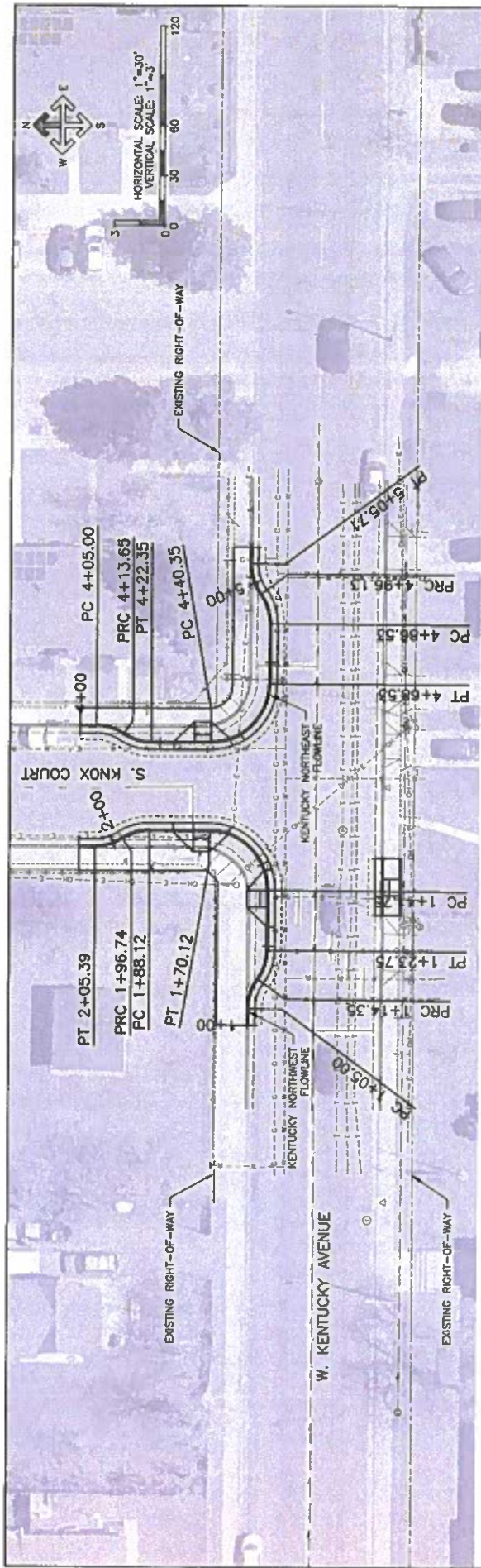
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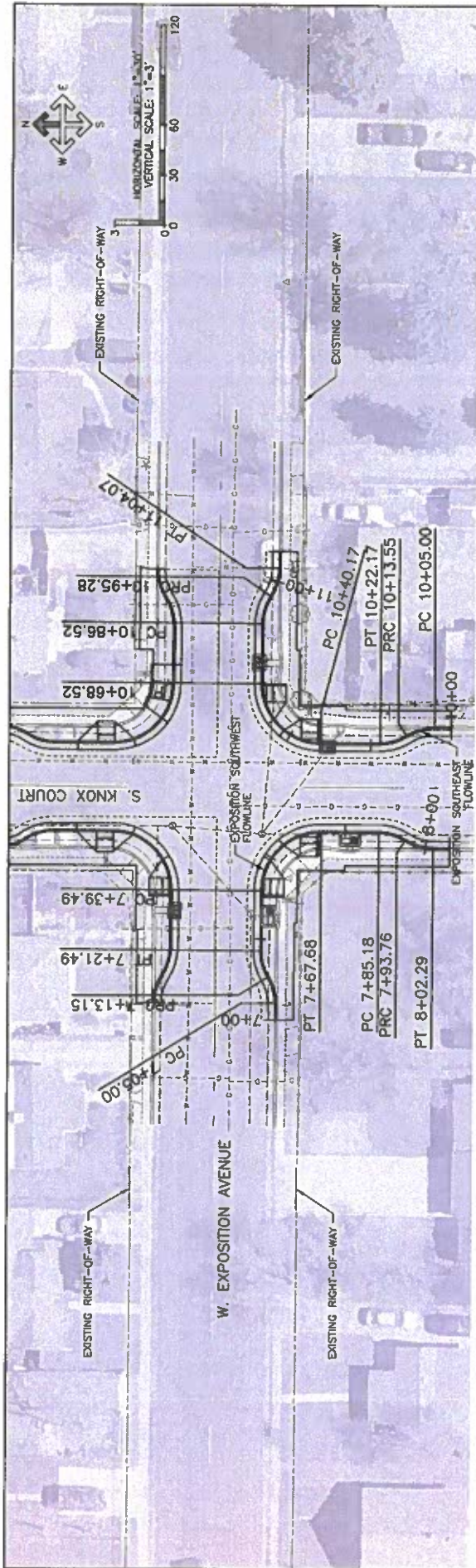
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**KNOX COURT NEIGHBORHOOD BIKEWAY
CURB RETURN DETAILS
W. KENTUCKY AVENUE**

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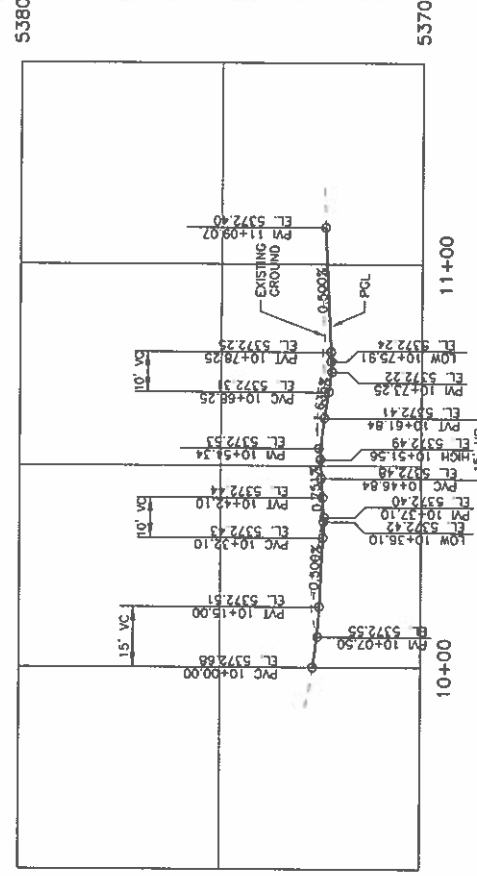
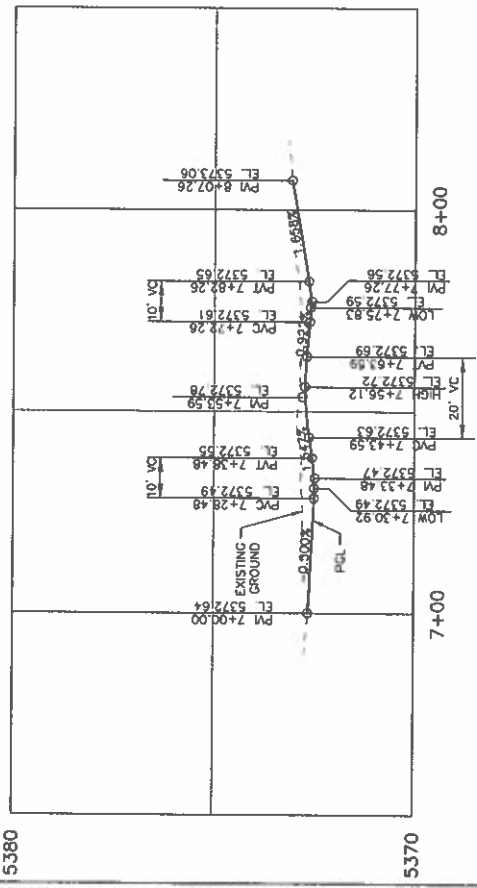
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Project No./Code
 Sheet Number 24



EXPOSITION SOUTHWEST FLOWLINE

EXPOSITION SOUTHEAST FLOWLINE



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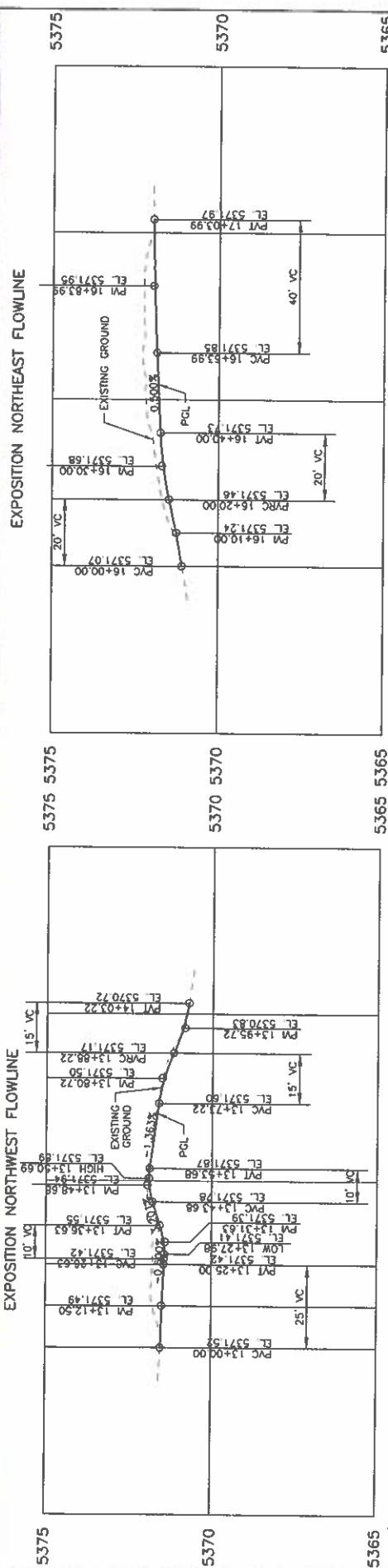
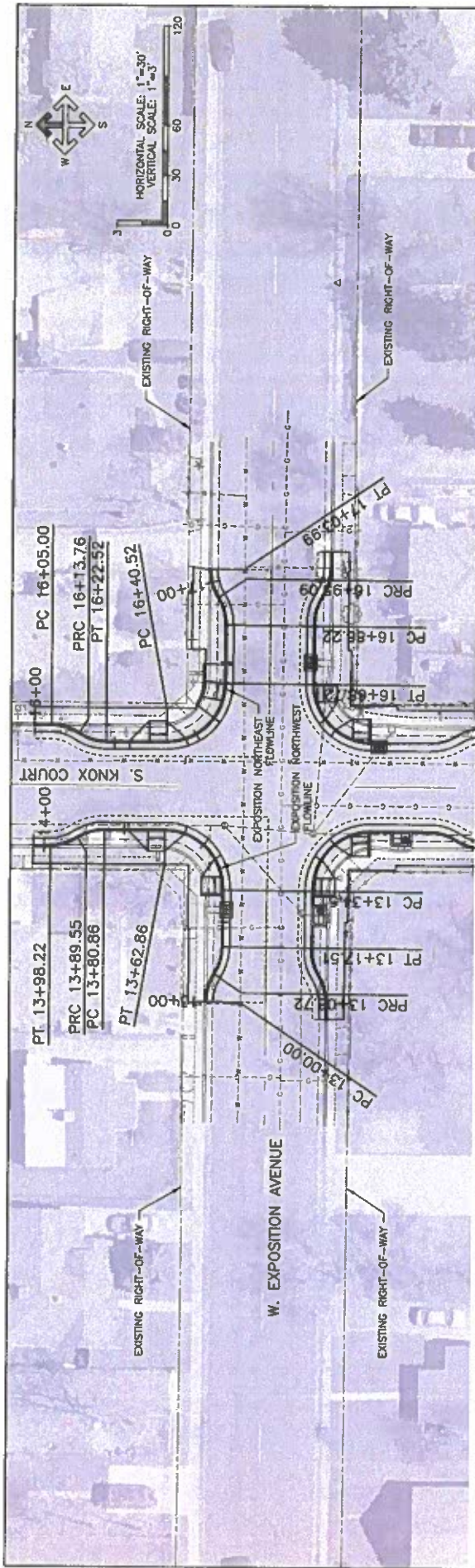
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Sheet Revisions

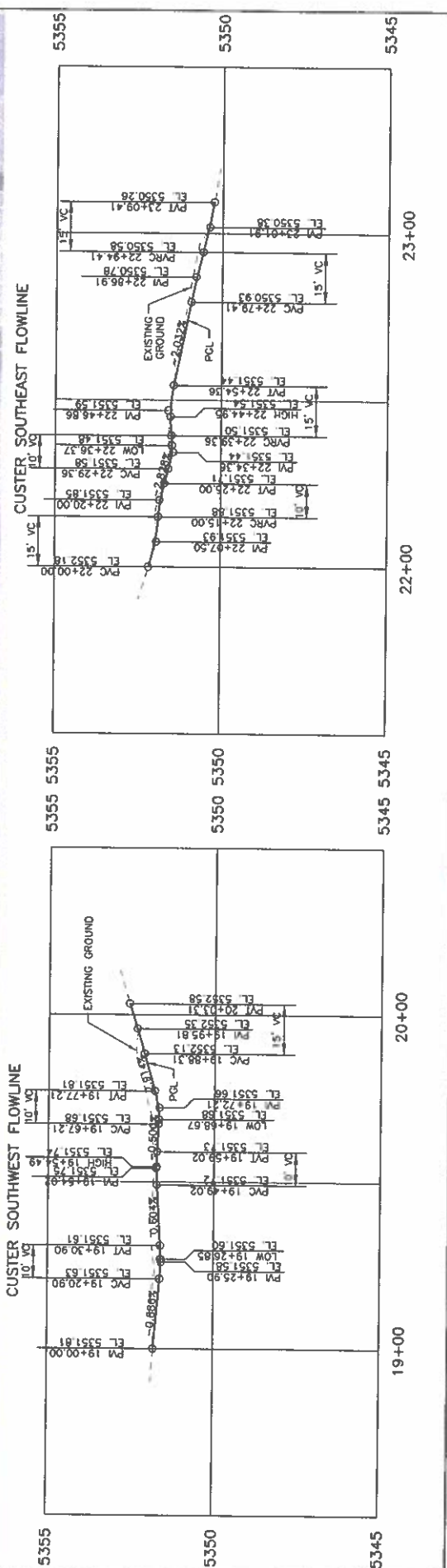
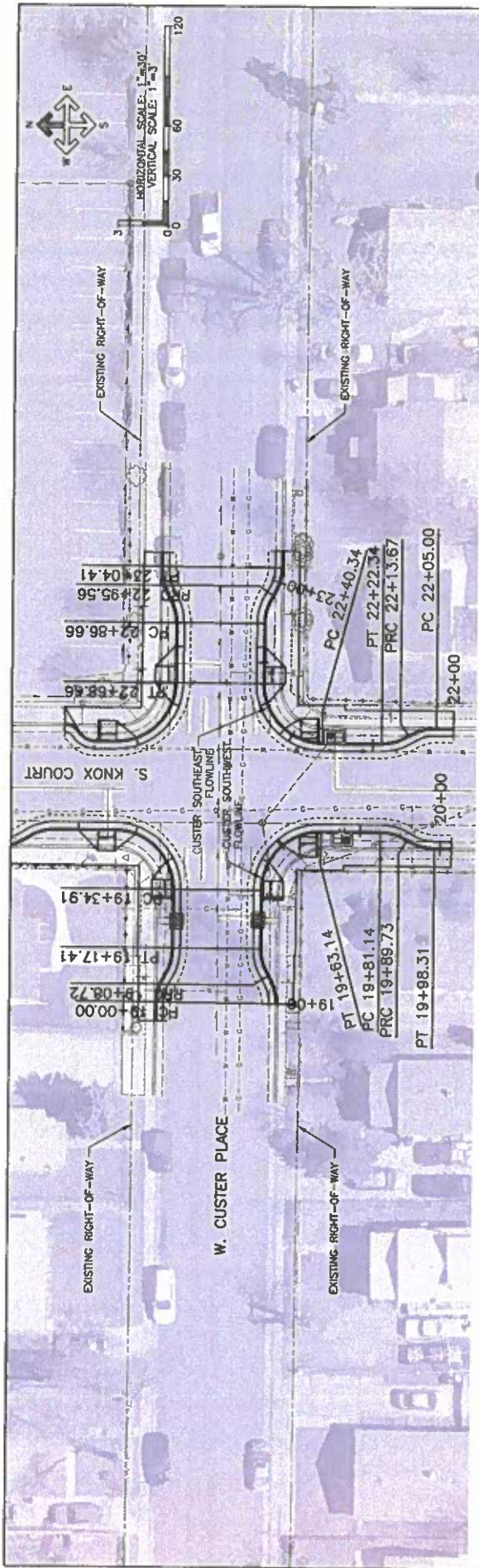
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KNOX COURT NEIGHBORHOOD BIKEWAY CURB RETURN DETAILS W. EXPOSITION AVENUE

Designer: K/H Structure
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 CR-3 of 7
 Sheet Number: 26



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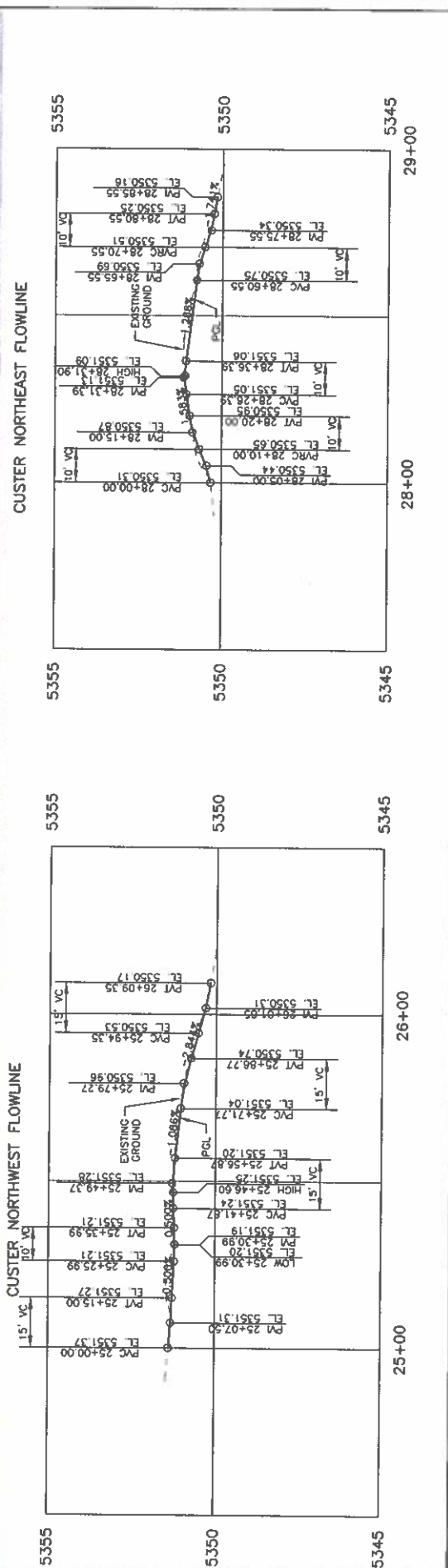
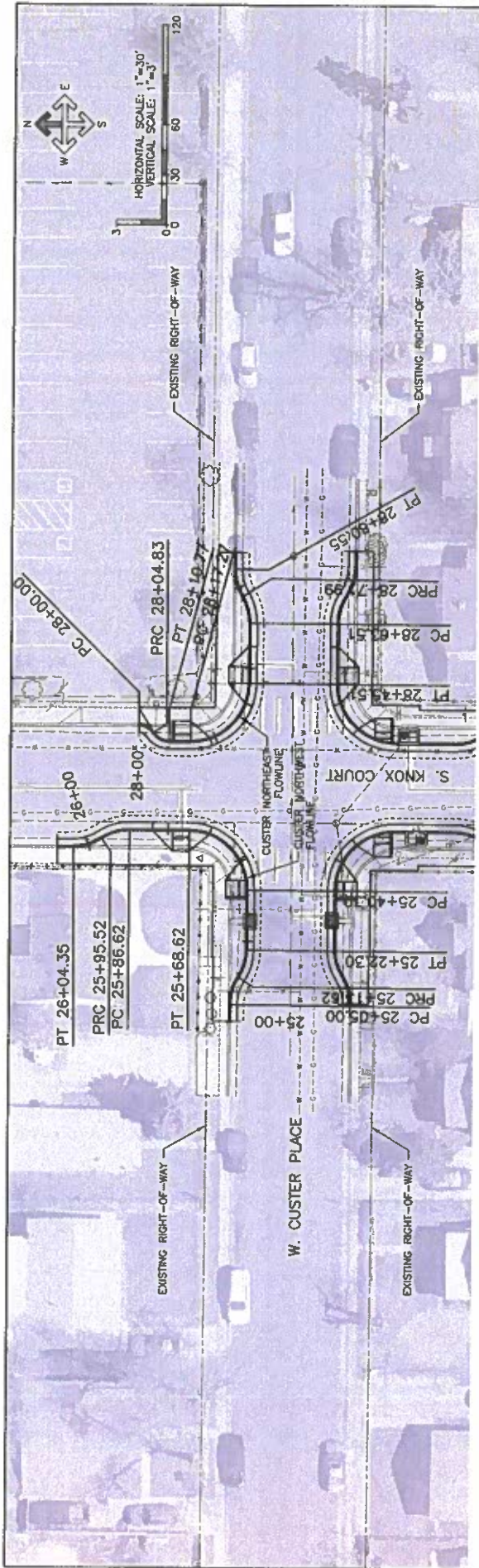
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As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY	Project No./Code
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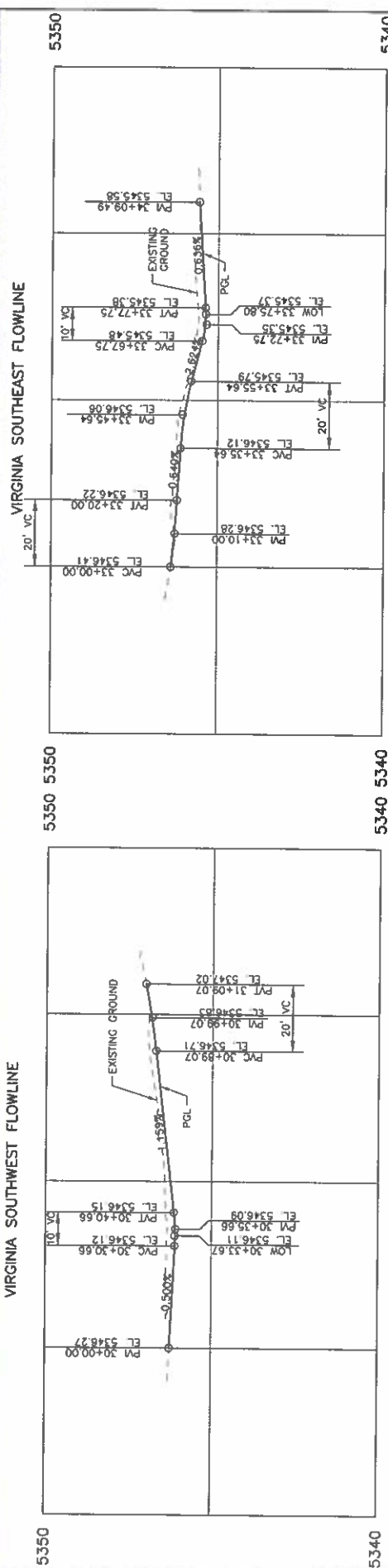
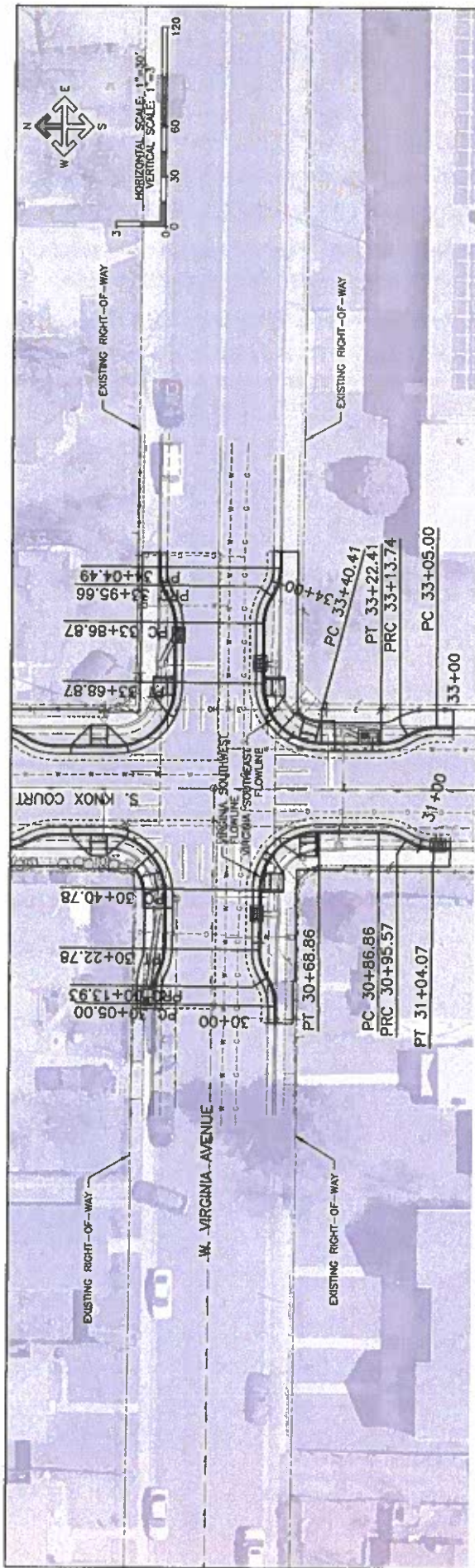
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		W. CUSTER PLACE	

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Sheet Revisions

Date	Comments	Initials

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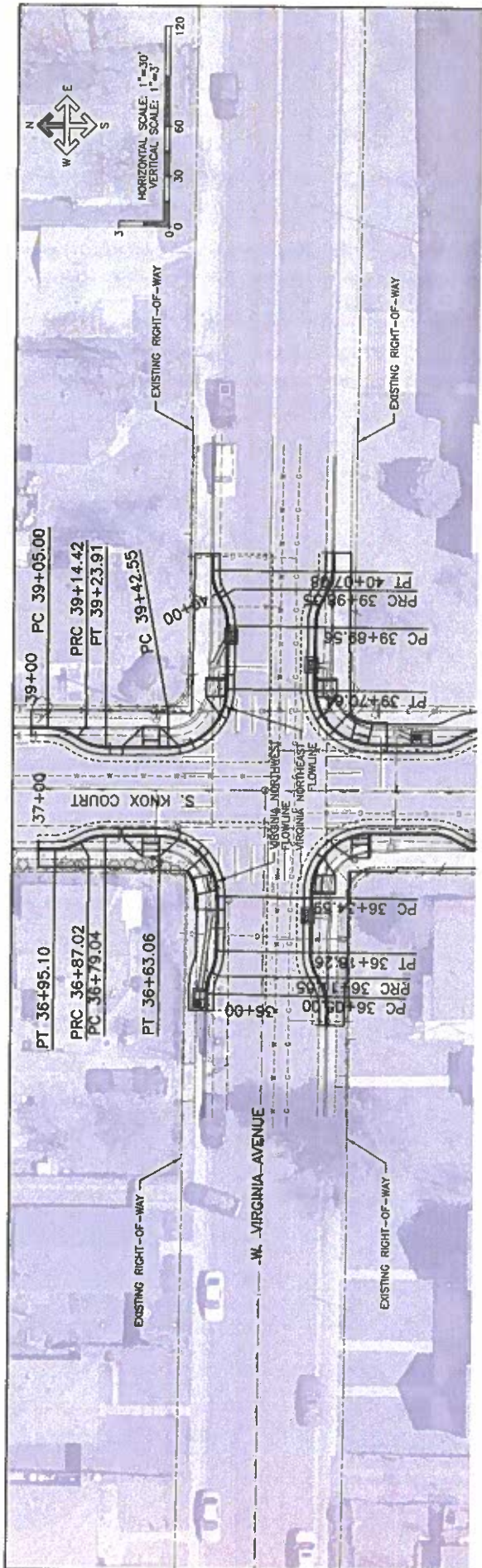
KNOX COURT NEIGHBORHOOD BIKEWAY CURB RETURN DETAILS W. VIRGINIA AVENUE

Designer: K/JH Structure
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Roadway Sheets: CR-6 of 7

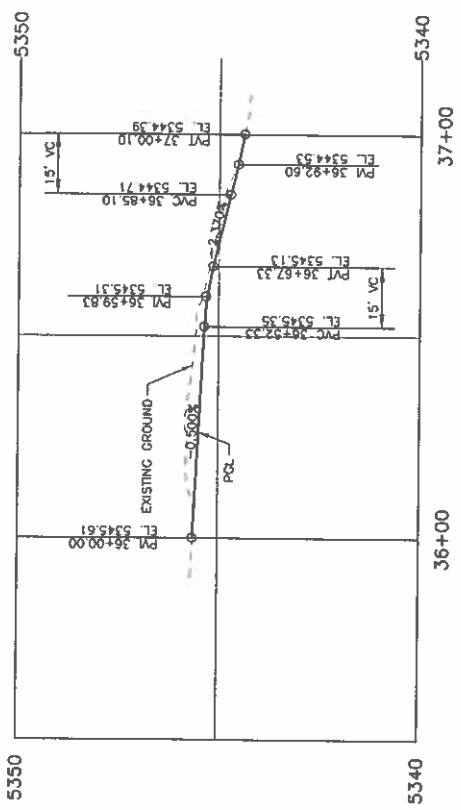
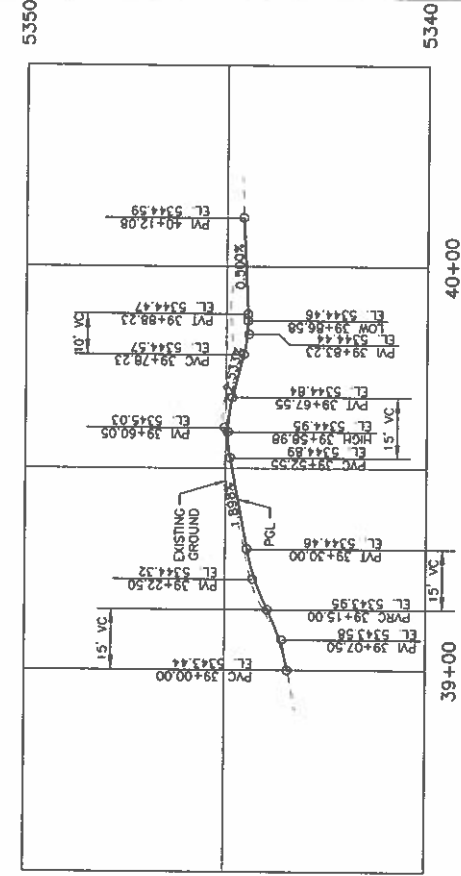
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VIRGINIA NORTHWEST FLOWLINE

VIRGINIA NORTHEAST FLOWLINE



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Sheet Revisions
 (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

As Constructed
 No Revisions:
 Revised:
 Void

Designator:
 Detailer:
 K/JH Structure Numbers
 Submittal: Roadway Sheets: CR 7 of 7

KNOX COURT NEIGHBORHOOD BIKEWAY
 CURB RETURN DETAILS
 W. VIRGINIA AVENUE

Project No./Code
 Sheet Number 30



K:\12397-15\CAD\Design\Drawings\15FR07_6/6/2018 10:35:27 AM_Scott Danneberg



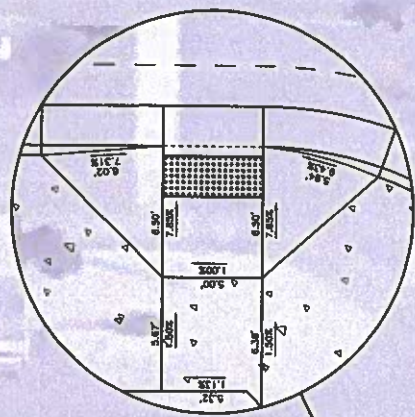
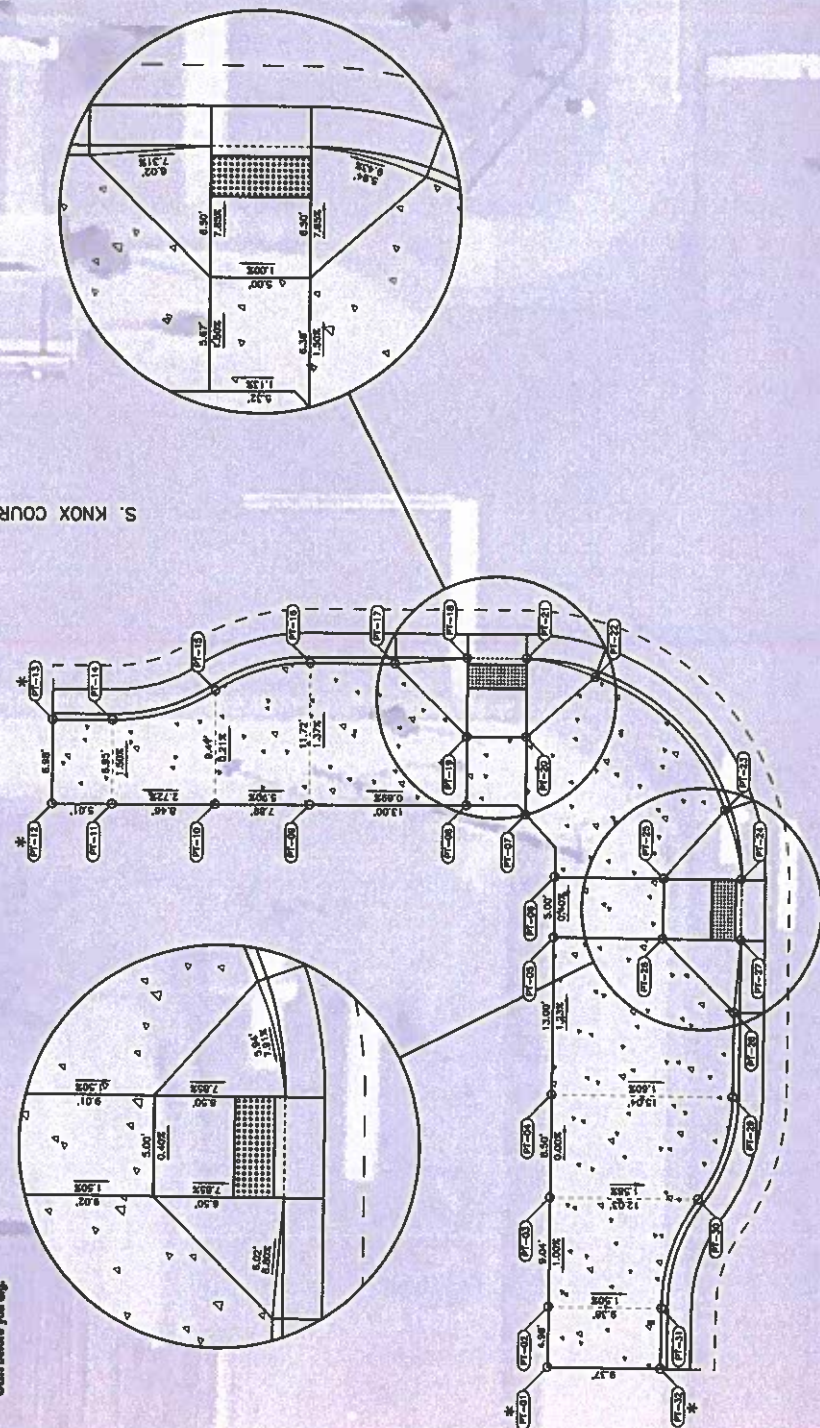
Know what's below. Call before you dig.

S. KNOX COURT

W. KENTUCKY AVENUE

POINT	STATION	OFFSET	ELEVATION
PT-00	1+00.00	9.87' LT.	5392.16
PT-01	1+04.96	9.86' LT.	5392.07
PT-02	1+10.22	14.47' LT.	5392.16
PT-03	1+14.20	15.44' LT.	5392.16
PT-04	1+16.75	15.51' LT.	5392.00
PT-05	1+17.12	12.88' LT.	5391.73
PT-06	1+17.51	12.17' LT.	5391.67
PT-07	1+18.12	12.21' LT.	5391.58
PT-08	1+19.97	8.95' LT.	5391.13
PT-09	2+05.39	7.45' LT.	5390.90
PT-10	2+10.39	7.48' LT.	5391.09
PT-11	2+10.39	0.50' LT.	5390.81
PT-12	2+05.39	0.50' LT.	5390.80
PT-13	1+95.74	0.50' LT.	5391.11
PT-14	1+85.12	0.50' LT.	5391.42
PT-15	1+81.12	0.50' LT.	5391.51
PT-16	1+75.12	0.00' LT.	5391.07
PT-17	1+75.12	6.50' LT.	5391.58
PT-18	1+70.12	6.50' LT.	5391.63
PT-19	1+70.12	0.00' LT.	5391.12
PT-20	1+64.12	0.50' LT.	5391.68
PT-21	1+47.75	0.50' LT.	5391.80
PT-22	1+41.75	0.00' LT.	5391.33
PT-23	1+41.75	6.50' LT.	5391.84
PT-24	1+36.75	6.50' LT.	5391.86
PT-25	1+36.75	0.00' LT.	5391.35
PT-26	1+30.75	0.50' LT.	5391.88
PT-27	1+23.75	0.50' LT.	5391.82
PT-28	1+14.35	0.50' LT.	5391.87
PT-29	1+05.00	0.50' LT.	5391.93
PT-30	1+00.00	0.50' LT.	5392.07

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'

As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY	Project No./Code
No. Revisions:	CURB RAMP DETAILS	
Revised:	W. KENTUCKY AVENUE	
Void:		
Designer:	SED Structure	
Detailer:	SED Numbers	
Submit:	Roadway Sheets	CD-1 of 15
		Sheet Number 31



Sheet Revisions	Date	Comments	Initials
(E-3)			

Print Date: 9/13/2018 2:22:50 PM
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 Horizontal Scale: 1"=10'
 Vertical Scale: NTS
 FELSBURG
 430 South Syracuse Way, Suite 600
 Centennial, CO 80111
 Phone: 303.771.1440
 www.FELSBURG.com
 ULLEVIS

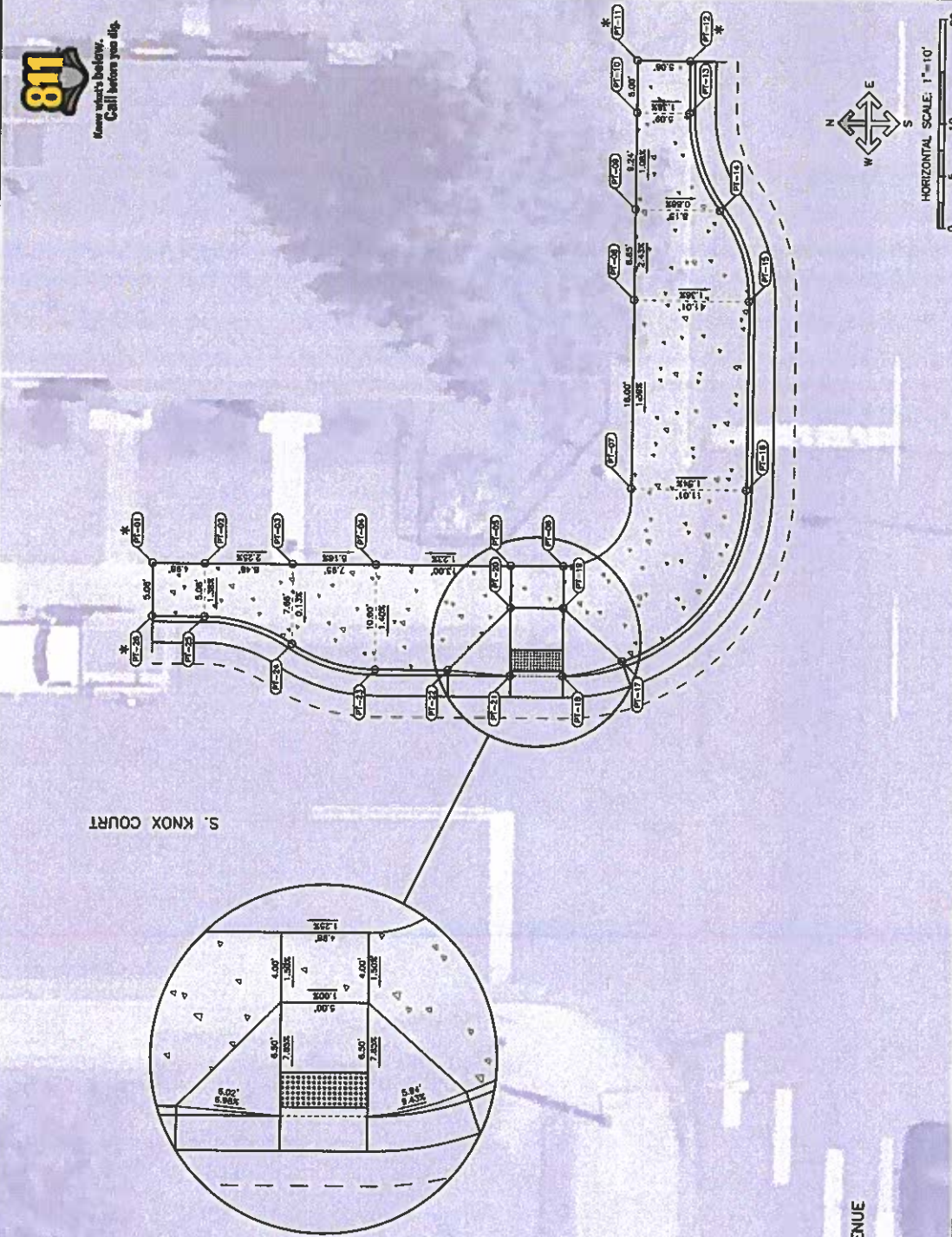


POINT	STATION	OFFSET	ELEVATION
CP-00	4+00.00	5.56' RT.	5390.67
CP-01	4+04.98	5.56' RT.	5390.64
CP-02	4+10.82	7.27' RT.	5390.63
CP-03	4+22.35	10.50' RT.	5391.24
CP-04	4+35.35	10.50' RT.	5391.40
CP-05	4+40.35	10.50' RT.	5391.45
CP-06	4+48.53	11.51' RT.	5391.50
CP-07	4+58.35	7.57' RT.	5391.23
CP-08	5+05.71	5.59' RT.	5390.94
CP-09	5+10.71	5.59' RT.	5390.93
CP-10	5+10.71	0.50' RT.	5390.83
CP-11	5+05.71	0.50' RT.	5390.87
CP-12	4+98.13	0.50' RT.	5390.97
CP-13	4+88.53	0.50' RT.	5391.10
CP-14	4+46.35	0.50' RT.	5391.33
CP-15	4+40.35	0.00' RT.	5391.44
CP-16	4+40.35	6.50' RT.	5390.88
CP-17	4+35.35	6.50' RT.	5391.39
CP-18	4+35.35	0.00' RT.	5391.34
CP-19	4+29.35	0.50' RT.	5390.83
CP-20	4+22.35	0.50' RT.	5391.25
CP-21	4+13.65	0.50' RT.	5391.10
CP-22	4+05.00	0.50' RT.	5390.82
CP-23	4+00.00	0.50' RT.	5390.57
CP-24	4+00.00	0.50' RT.	5390.47

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB

S. KNOX COURT

W. KENTUCKY AVENUE



Print Date: 8/13/2018 2:23:14 PM File Name: D:\12397-15\CD\002.dwg		Project No./Code KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS W. KENTUCKY AVENUE	
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Horizontal Scale: 1"=10' Vertical Scale: NTS		SED Structure SED Numbers	
Horizontal Scale: 1"=10' Vertical Scale: NTS		Roadway Sheets: CD-2 of 15 Sheet Number: 32	



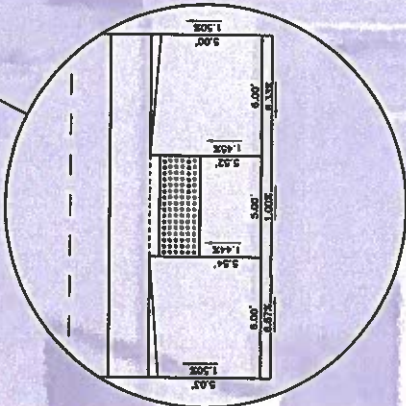
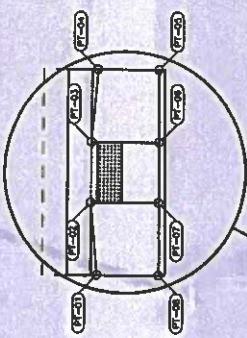
Sheet Revisions	
Date	Comments

Initials _____
Date _____
Comments _____



W. KENTUCKY AVENUE

POINT	STATION	OFFSET	ELEVATION
CP+00	6+00.00	0.50' RT.	5391.43
CP+03	6+06.00	0.00' RT.	5391.03
CP+05	6+11.00	0.00' RT.	5390.98
CP+06	6+17.01	0.50' RT.	5391.36
CP+08	6+17.01	5.49' RT.	5391.44
CP+09	6+11.01	5.54' RT.	5391.06
CP+10	6+06.01	5.54' RT.	5391.11
CP+11	6+00.01	5.56' RT.	5391.51



HORIZONTAL SCALE: 1" = 10'

Project No./Code	KNOX COURT NEIGHBORHOOD BIKEWAY
Design No.	W. KENTUCKY AVENUE
Structure	SED
Numbers	SED

As Constructed	No Revisions:
Revised:	Void:

Designer:	Structure
Detailer:	SED
Submittal:	Numbers

Sheet Revisions	Initials
Date	Comments

Print Date: 8/13/2018 2:23:39 PM
File Name: D:\12397-15CR003.dwg
Horizontal Scale: 1" = 10'
Vertical Scale: NTS
6300 South Syracuse Way, Suite 400
Centennial, CO 80111
Phone: 303.721.1440
www.FH&V.com

FELSBERG HOLT & ULLEVIG

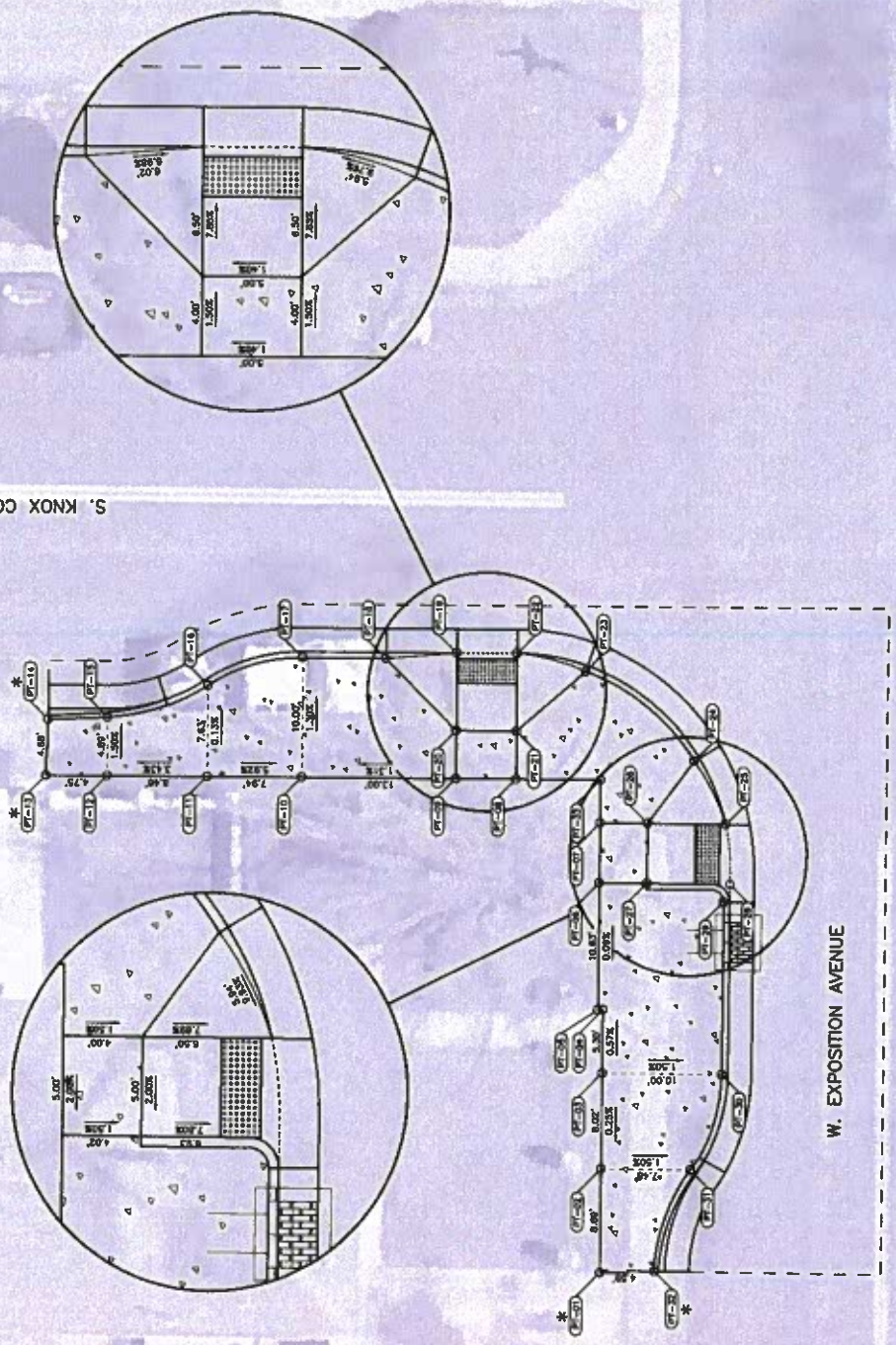
CD-3 of 15 Sheet Number 33



Know what's below.
Call before you dig.

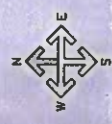
S. KNOX COURT

W. EXPOSITION AVENUE



POINT	STATION	OFFSET	ELEVATION
CP-00	12+99.79	5.50' LT.	5371.94
CP-01	13+05.88	7.22' LT.	5372.09
CP-02	13+17.51	10.50' LT.	5372.11
CP-03	13+22.81	10.50' LT.	5372.08
CP-04	13+22.80	10.95' LT.	5372.08
CP-05	13+33.43	10.95' LT.	5372.07
CP-06	13+43.65	9.93' LT.	5372.17
CP-07	13+52.86	10.50' LT.	5372.31
CP-08	13+67.86	10.50' LT.	5372.24
CP-09	13+80.86	10.50' LT.	5372.07
CP-10	13+89.38	7.28' LT.	5371.60
CP-11	13+99.23	5.60' LT.	5371.51
CP-12	14+03.37	5.58' LT.	5371.99
CP-13	14+03.22	0.82' LT.	5371.85
CP-14	13+95.22	0.71' LT.	5371.24
CP-15	13+85.55	0.50' LT.	5371.61
CP-16	13+80.86	0.50' LT.	5371.94
CP-17	13+73.86	0.50' LT.	5372.09
CP-18	13+67.86	0.00' LT.	5371.67
CP-19	13+67.86	6.50' LT.	5372.18
CP-20	13+62.86	6.50' LT.	5372.25
CP-21	13+62.86	0.00' LT.	5371.74
CP-22	13+56.86	0.50' LT.	5372.32
CP-23	13+44.46	0.00' LT.	5372.20
CP-24	13+38.46	0.00' LT.	5371.61
CP-25	13+40.65	6.27' LT.	5372.11
CP-26	13+33.43	6.95' LT.	5372.01
CP-27	13+33.43	0.00' LT.	5371.47
CP-28	13+31.53	0.50' LT.	5371.84
CP-29	13+17.51	0.50' LT.	5371.86
CP-30	13+08.87	0.58' LT.	5371.98
CP-31	13+00.00	0.92' LT.	5371.85
CP-32	13+49.25	7.68' LT.	5372.49

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'

0 5 10 15 20

As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY	Project No./Code
No Revisions	CURB RAMP DETAILS	-
Revised:	W. EXPOSITION AVENUE	-
Void:	Designer: SED Structures	
	Detailer: SED Structures	
	Subest: Roadway Sheets: CD-4 of 15	Sheet Number 34



Sheet Revisions	
Date	Comments

Print Date: 8/13/2018 2:24:04 PM
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 FELSBURG 4300 South Stevens Way, Suite 600
 HOLY & Centennial, CO 80111
 ULLEVIC Phone: 303.721.1440
 www.FHUBMG.com



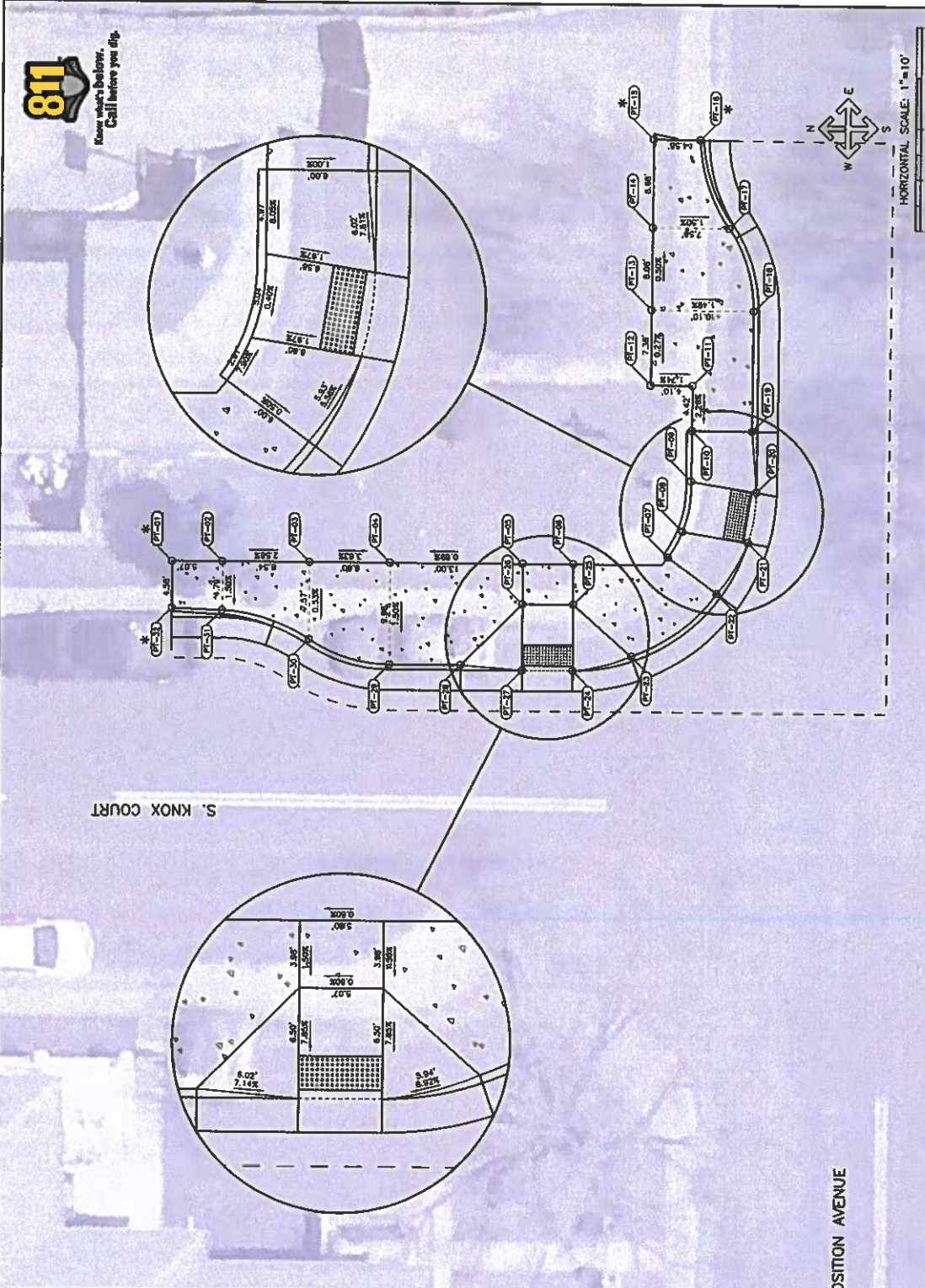
Know what's below.
Call before you dig.

POINT	STATION	OFFSET	ELEVATION
PT-01	16+00.00	5.50' LT.	5371.49
PT-02	16+05.00	5.50' LT.	5371.65
PT-03	16+10.92	7.21' LT.	5371.87
PT-04	16+22.52	10.48' LT.	5372.16
PT-05	16+35.52	10.48' LT.	5372.27
PT-06	16+40.42	10.48' LT.	5372.30
PT-07	16+55.96	6.50' LT.	5372.31
PT-08	16+57.42	6.50' LT.	5371.98
PT-09	16+61.97	6.50' LT.	5372.00
PT-10	16+69.44	6.50' LT.	5372.40
PT-11	16+78.84	6.50' LT.	5372.59
PT-12	16+86.22	10.80' LT.	5372.57
PT-13	16+97.97	7.25' LT.	5372.59
PT-14	17+03.99	5.50' LT.	5372.55
PT-15	16+95.13	0.92' LT.	5372.30
PT-16	16+86.22	0.50' LT.	5372.44
PT-17	16+74.42	0.50' LT.	5372.34
PT-18	16+68.43	0.00' LT.	5371.87
PT-19	16+63.11	0.00' LT.	5371.85
PT-20	16+57.42	0.50' LT.	5372.18
PT-21	16+46.52	0.50' LT.	5372.26
PT-22	16+40.52	0.00' LT.	5371.73
PT-23	16+40.52	6.50' LT.	5372.24
PT-24	16+35.52	6.50' LT.	5372.21
PT-25	16+29.52	0.00' LT.	5371.70
PT-26	16+23.52	0.50' LT.	5372.13
PT-27	16+22.52	0.50' LT.	5372.01
PT-28	16+13.76	0.50' LT.	5371.83
PT-29	16+05.00	0.71' LT.	5371.58
PT-30	16+00.00	0.92' LT.	5371.40

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB

S. KNOX COURT

W. EXPOSITION AVENUE



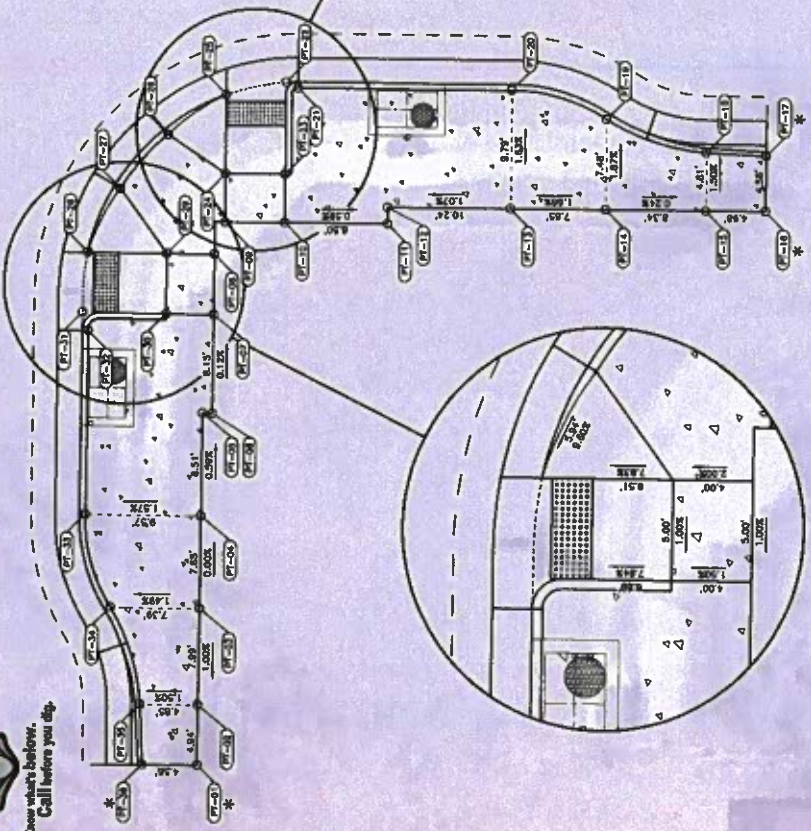
HORIZONTAL SCALE: 1"=10'

		KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS W. EXPOSITION AVENUE		Project No./Code -	
As Constructed		Designer: SED Detailer: SED		Structure Numbers: - SED Numbers: -	
No Revisions:		Revised:		Roadway Sheets: CD-5 of 15	
Date:		Comments:		Sheet Number: 35	
Initials:		Initials:		Subsets:	
(B-X)		000		CD-5 of 15	
Print Date: 8/13/2018 2:24:31 PM File Name: D112397-15CR012.dwg Horizontal Scale: 1"=10' Vertical Scale: NTS 6300 South Syracuse Way, Suite 600 Centennial, CO 80111 Phone: 303.721.1440 www.FELSBURG.COM					

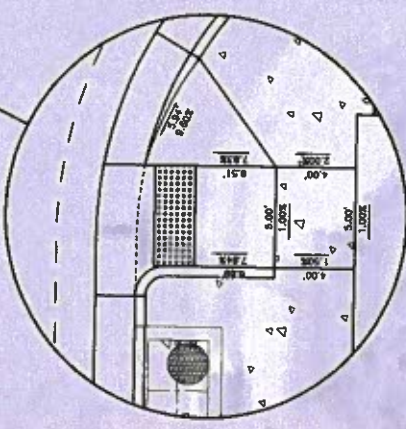
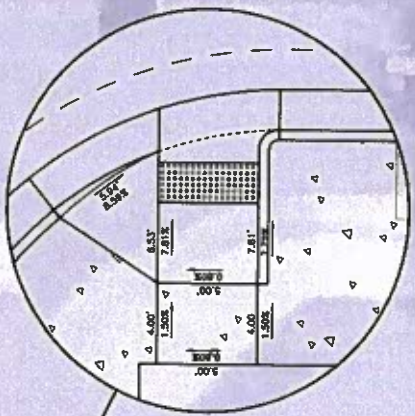


Know what's below. Call before you dig.

W. EXPOSITION AVENUE

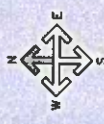


S. KNOX COURT



POINT	STATION	OFFSET	ELEVATION
(PT-50)	7+00.00	5.50' RT.	5373.02
(PT-51)	7+04.94	5.56' RT.	5373.10
(PT-52)	7+10.49	7.13' RT.	5373.18
(PT-53)	7+21.49	10.07' RT.	5373.18
(PT-54)	7+20.99	10.07' RT.	5373.15
(PT-55)	7+30.00	10.89' RT.	5373.15
(PT-56)	7+38.14	10.89' RT.	5373.14
(PT-57)	7+48.03	10.00' RT.	5373.19
(PT-58)	7+53.71	9.10' RT.	5373.28
(PT-59)	7+59.22	11.35' RT.	5373.31
(PT-60)	7+74.95	11.85' RT.	5373.26
(PT-61)	7+74.95	10.29' RT.	5373.24
(PT-62)	7+85.81	10.29' RT.	5373.35
(PT-63)	7+96.52	7.17' RT.	5373.48
(PT-64)	8+02.30	5.52' RT.	5373.44
(PT-65)	8+07.29	0.92' RT.	5373.39
(PT-66)	8+07.29	0.71' RT.	5373.39
(PT-67)	8+07.29	0.50' RT.	5373.34
(PT-68)	7+85.18	0.50' RT.	5373.19
(PT-69)	7+87.68	0.50' RT.	5373.15
(PT-70)	7+86.45	0.00' RT.	5372.66
(PT-71)	7+85.54	7.58' RT.	5373.25
(PT-72)	7+57.92	5.93' RT.	5373.22
(PT-73)	7+61.31	0.00' RT.	5372.71
(PT-74)	7+55.31	0.50' RT.	5372.22
(PT-75)	7+48.17	0.50' RT.	5373.19
(PT-76)	7+43.17	0.00' RT.	5372.62
(PT-77)	7+43.21	6.30' RT.	5373.13
(PT-78)	7+38.14	6.88' RT.	5372.58
(PT-79)	7+38.14	0.00' RT.	5372.54
(PT-80)	7+36.64	0.50' RT.	5373.02
(PT-81)	7+21.49	0.50' RT.	5373.03
(PT-82)	7+13.15	0.50' RT.	5373.07
(PT-83)	7+05.00	0.71' RT.	5373.03
(PT-84)	7+00.00	0.92' RT.	5372.97

NOTE: * MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'



As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY	Project No./Code
No Revisions:	CURB RAMP DETAILS	-
Revised:	W. EXPOSITION AVENUE	-
Void:		
Designer:	SED Structures	
Datelist:	SED Numbers	
Subst:	Roadway Sheets:	CD-6 of 15
		Sheet Number 36

Date	Comments	Initials

Print Date 8/13/2018 2:24:57 PM
 File Name: D112397-15CR013.dwg
 Horizontal Scale: 1"=10'
 Vertical Scale: NTS
 FELSBUURG
 HOLT &
 ULLEVIC
 6300 South Syracuse Way, Suite 600
 Centennial, CO 80111
 Phone: 303.721.1440
 www.HUEVIC.com

DENVER
 THE MILE HIGH CITY

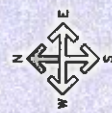
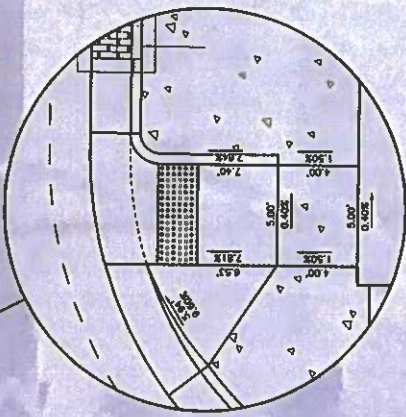
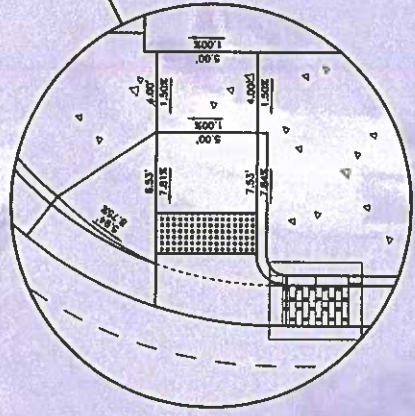
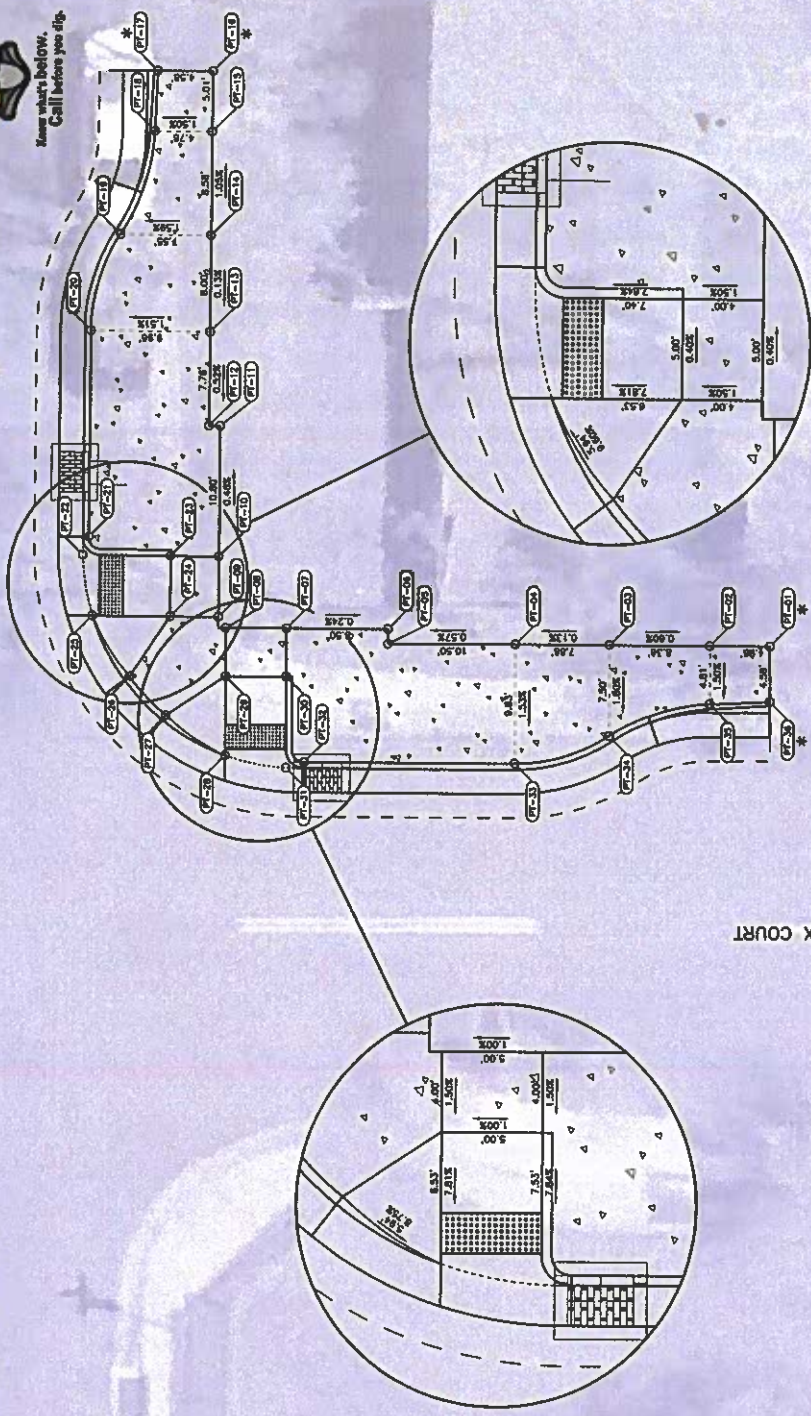
811 logo and text: Know what's below. Call before you dig.



W. EXPOSITION AVENUE

POINT	STATION	OFFSET	ELEVATION
CP-00	10+00.00	5.50' RT.	5373.15
CP-01	10+04.98	5.52' RT.	5373.09
CP-02	10+10.78	7.16' RT.	5373.14
CP-03	10+22.17	10.33' RT.	5373.13
CP-04	10+32.67	10.33' RT.	5373.07
CP-05	10+42.85	11.56' RT.	5373.07
CP-06	10+53.68	9.20' RT.	5373.09
CP-07	10+67.01	11.38' RT.	5372.97
CP-08	10+78.76	11.40' RT.	5372.85
CP-09	10+86.52	10.46' RT.	5372.80
CP-10	10+96.11	7.20' RT.	5372.84
CP-11	11+06.07	5.48' RT.	5372.86
CP-12	11+04.07	0.92' RT.	5372.87
CP-13	10+95.28	0.50' RT.	5372.79
CP-14	10+86.52	0.50' RT.	5372.83
CP-15	10+69.47	0.50' RT.	5372.78
CP-16	10+67.97	0.00' RT.	5372.31
CP-17	10+67.58	7.39' RT.	5372.89
CP-18	10+59.83	6.04' RT.	5372.91
CP-19	10+62.67	0.00' RT.	5372.40
CP-20	10+56.67	0.50' RT.	5372.97
CP-21	10+45.29	0.50' RT.	5372.97
CP-22	10+44.28	0.00' RT.	5372.47
CP-23	10+49.56	5.88' RT.	5372.98
CP-24	10+41.90	7.51' RT.	5373.03
CP-25	10+39.67	0.50' RT.	5372.44
CP-26	10+22.17	0.50' RT.	5372.93
CP-27	10+13.55	0.50' RT.	5372.98
CP-28	10+05.00	0.71' RT.	5373.02
CP-29	10+00.00	0.92' RT.	5373.01

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'
0 5 10 20

Print Date: 8/13/2018 2:25:23 PM
 File Name: D:\12397-15CRD\14.dwg
 Horizontal Scale: 1"=10'
 Vertical Scale: NTS
 400 South Syracuse Way, Suite 400
 FELSBERG HOLT & ULLEVIG
 Centennial, CO 80111
 Phone: 303.721.1440
 www.FHUG.com

DENVER
THE MILE HIGH CITY

As Constructed
 No Revisions:
 Revised:
 Vnd:

Sheet Revisions

Date	Comments	Initials
8-23		
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KNOX COURT NEIGHBORHOOD BIKEWAY Project No./Code
W. EXPOSITION AVENUE

Designer: SED Structures
 Detailer: SED Numbers
 Subaet: Roadway Sheets: CD-7 of 15 Sheet Number 37



POINT	STATION	OFFSET	ELEVATION
(P-40)	25+00.00	5.50 LT.	5351.71
(P-46)	25+04.98	5.52 LT.	5351.81
(P-48)	25+10.82	7.20 LT.	5351.69
(P-50)	25+15.65	9.94 LT.	5351.91
(P-52)	25+16.00	10.54 LT.	5351.91
(P-54)	25+22.30	10.75 LT.	5351.89
(P-56)	25+36.22	10.75 LT.	5351.81
(P-58)	25+47.19	10.18 LT.	5351.82
(P-60)	25+68.66	10.87 LT.	5351.65
(P-62)	25+73.68	10.84 LT.	5351.58
(P-64)	25+86.81	10.77 LT.	5351.38
(P-66)	25+98.48	7.33 LT.	5351.02
(P-68)	26+04.40	5.55 LT.	5350.76
(P-70)	26+09.35	5.50 LT.	5350.73
(P-72)	26+09.35	0.92 LT.	5350.73
(P-74)	26+04.35	0.71 LT.	5350.50
(P-76)	26+04.35	0.71 LT.	5350.69
(P-78)	25+85.52	0.50 LT.	5350.99
(P-80)	25+79.65	0.50 LT.	5351.25
(P-82)	25+73.63	0.00 LT.	5351.01
(P-84)	25+73.66	6.47 LT.	5351.51
(P-86)	25+68.66	6.50 LT.	5351.58
(P-88)	25+68.63	0.00 LT.	5351.07
(P-90)	25+62.34	0.50 LT.	5351.64
(P-92)	25+49.23	0.50 LT.	5351.75
(P-94)	25+43.23	0.00 LT.	5351.25
(P-96)	25+44.87	6.37 LT.	5351.76
(P-98)	25+38.22	6.75 LT.	5351.75
(P-100)	25+38.22	0.00 LT.	5351.22
(P-102)	25+36.72	0.50 LT.	5351.72
(P-104)	25+22.30	0.50 LT.	5351.73
(P-106)	25+13.82	0.50 LT.	5351.78
(P-108)	25+03.00	0.71 LT.	5351.74
(P-110)	25+00.00	0.82 LT.	5351.70
(P-112)	25+54.25	7.84 LT.	5351.83

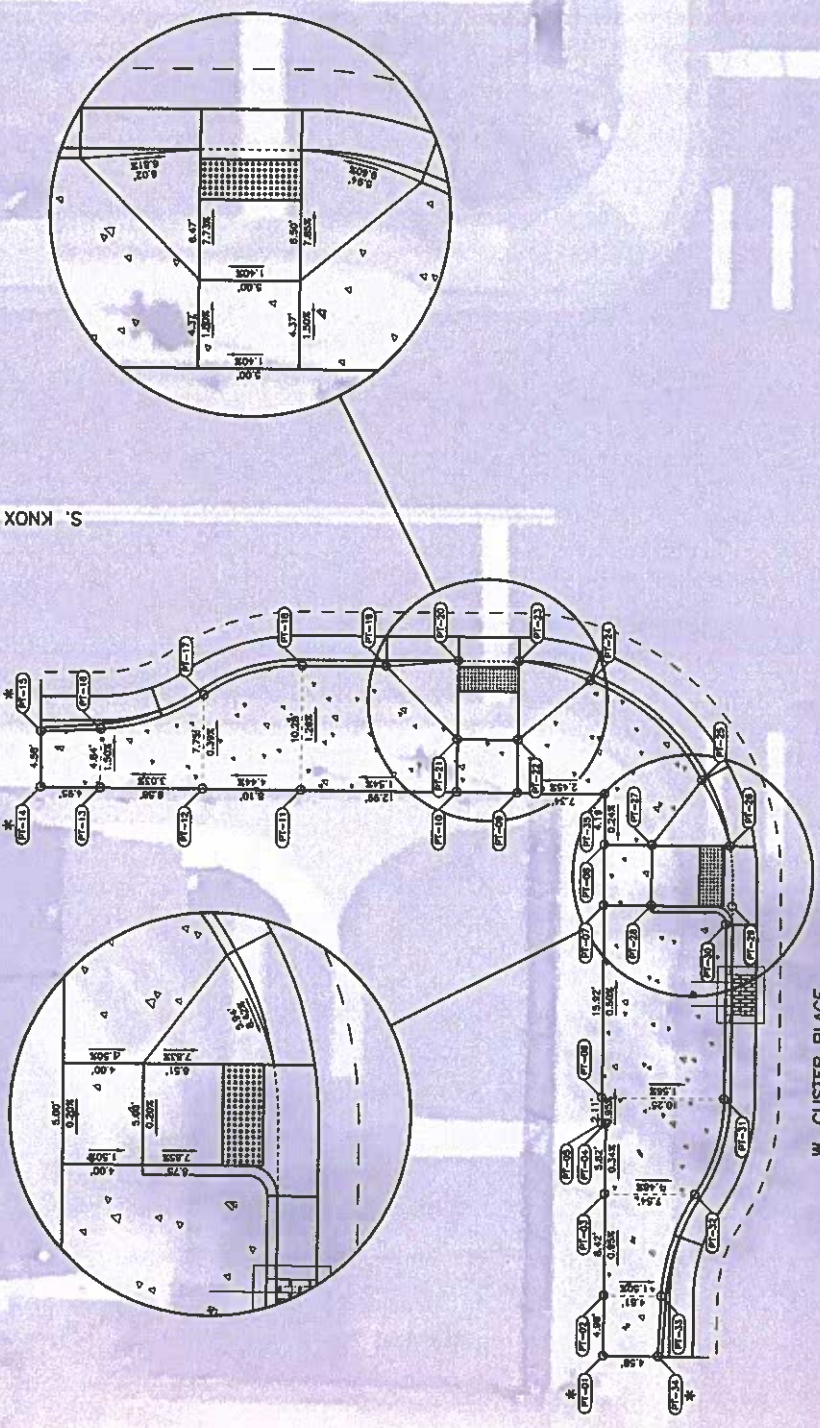
NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'
0 5 10 20

S. KNOX COURT

W. CUSTER PLACE



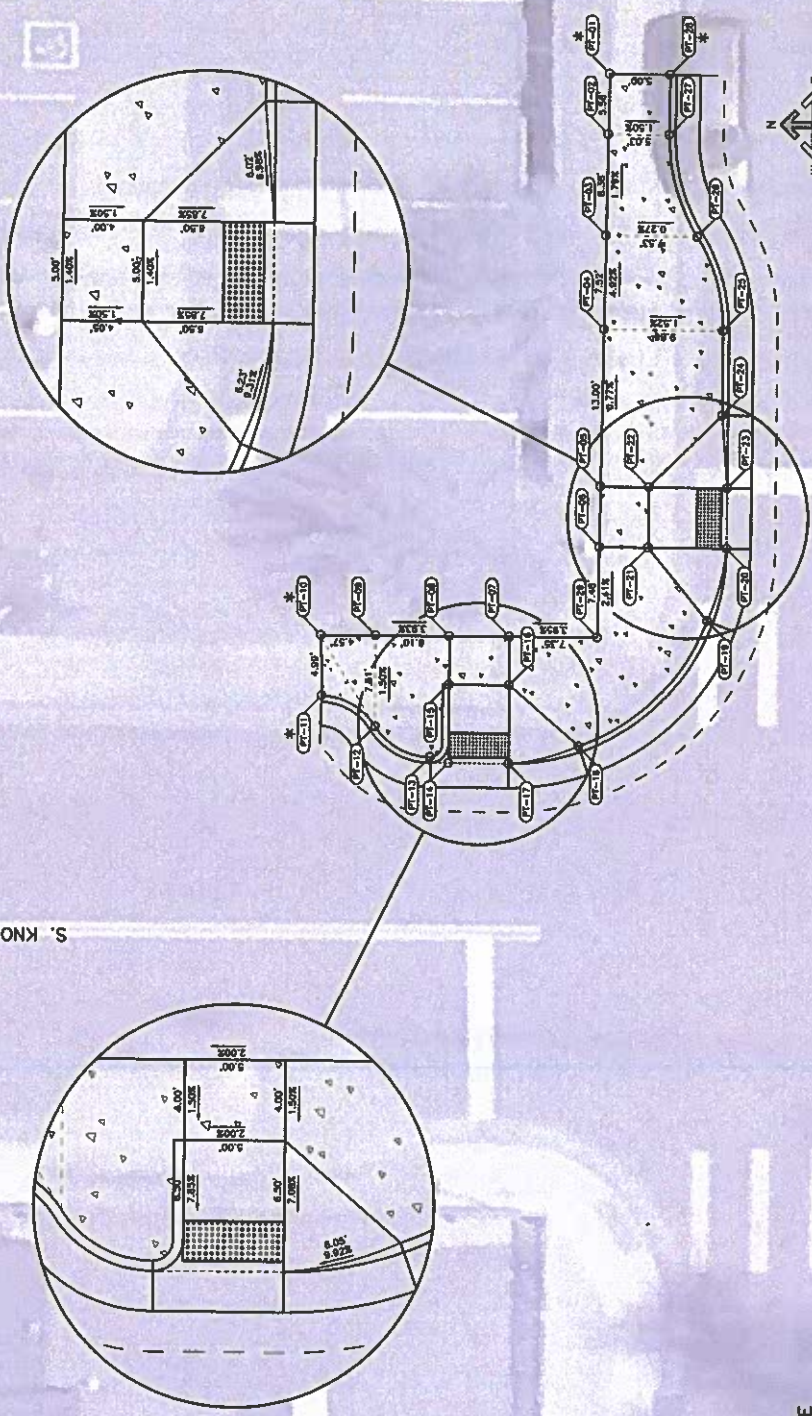
		KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS W. CUSTER PLACE		Project No./Code -
As Constructed No Revisions		Designer: SED Detailer: SED Subcontractor: Roadway		Sheet Number 38
Revised:		SED Numbers		CD-8 of 15
Void:		Roadway		Sheets:
Print Date: 6/13/2018 2:25:48 PM File Name: D112397-15CR021.dwg		Vertical Scale: NTS Horizontal Scale: 1"=10'		Initials
FELSBURG 6300 South Syracuse Way, Suite 600 Centennial, CO 80111 Phone: 303.721.1448 www.felb.com		HOLT & ULLEVIG		Comments Date (R-X) 0000



Know what's below.
Call before you dig.

POINT	STATION	OFFSET	ELEVATION
(C-1)	28+85.55	5.50' LT.	5350.86
(C-2)	28+80.53	5.53' LT.	5350.83
(C-3)	28+74.72	7.22' LT.	5350.98
(C-4)	28+63.51	10.36' LT.	5351.35
(C-5)	28+50.51	10.50' LT.	5351.45
(C-6)	28+45.51	10.55' LT.	5351.52
(C-7)	28+17.27	10.50' LT.	5351.41
(C-8)	28+03.84	10.01' LT.	5351.31
(C-9)	28+01.93	6.48' LT.	5351.07
(C-10)	28+00.00	5.53' LT.	5351.28
(C-11)	28+00.00	0.50' LT.	5350.81
(C-12)	28+04.85	0.50' LT.	5350.96
(C-13)	28+10.77	0.50' LT.	5351.18
(C-14)	28+12.27	0.00' LT.	5350.74
(C-15)	28+12.27	6.50' LT.	5351.25
(C-16)	28+17.27	6.50' LT.	5351.35
(C-17)	28+17.27	0.00' LT.	5350.88
(C-18)	28+23.39	0.50' LT.	5351.49
(C-19)	28+39.21	0.50' LT.	5351.53
(C-20)	28+45.51	0.00' LT.	5350.95
(C-21)	28+45.51	6.50' LT.	5351.46
(C-22)	28+50.51	6.50' LT.	5351.39
(C-23)	28+50.51	0.00' LT.	5350.88
(C-24)	28+56.51	0.50' LT.	5351.30
(C-25)	28+63.51	0.50' LT.	5351.20
(C-26)	28+71.99	0.50' LT.	5350.98
(C-27)	28+80.55	0.50' LT.	5350.75
(C-28)	28+85.55	0.50' LT.	5350.68
(C-29)	28+91.25	7.50' LT.	5351.70

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'



KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS
Project No./Code: _____
W. CUSTER PLACE

As Constructed _____
No Revisions: _____
Revised: _____
Vod: _____

Designer: _____
Detailer: _____
SED Numbers _____
SED _____
Roadway/ Sheets: _____
Sheet Number: 39

Sheet Revisions	
Date	Comments
(R-1) 000	Initials

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Horizontal Scale: 1"=10' Vertical Scale: NTS
6100 South Syracuse Way, Suite 600
Centennial, CO 80111
Phone: 303.721.1440
www.HUBVIG.com

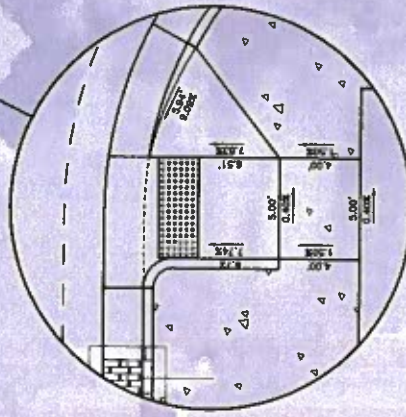
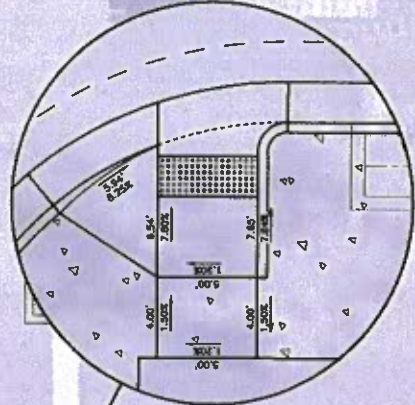
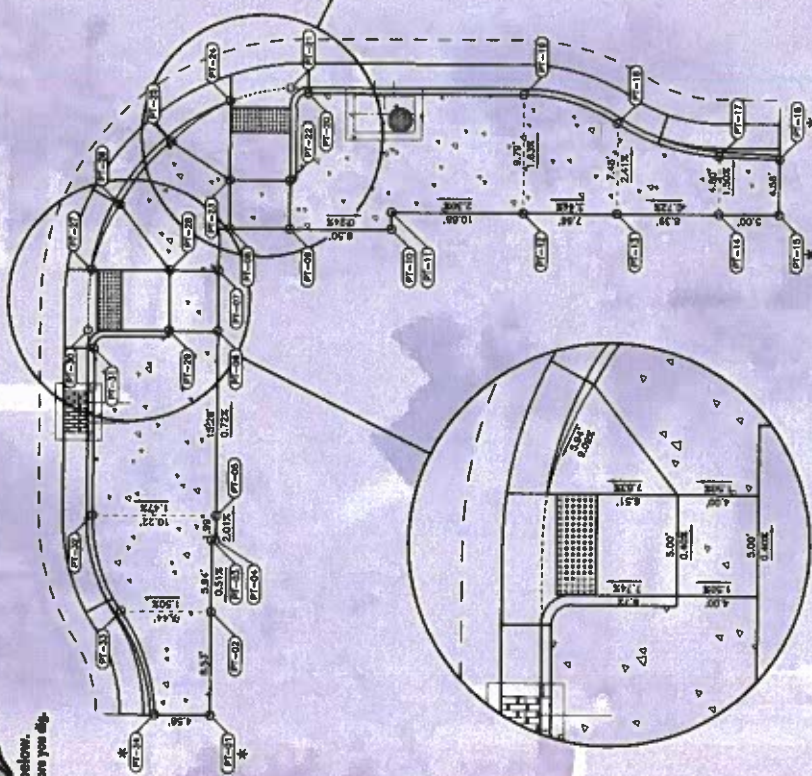
FELSBJURG
HOLT &
ULLEVIG





Know what's below. Call before you dig.

W. CUSTER PLACE



POINT	STATION	OFFSET	ELEVATION
PT-01	19+00.00	5.50' RT.	5352.28
PT-02	19+03.92	7.18' RT.	5352.52
PT-03	19+11.29	9.98' RT.	5352.55
PT-04	19+10.87	10.28' RT.	5352.55
PT-05	19+17.41	10.72' RT.	5352.31
PT-06	19+32.68	10.72' RT.	5352.20
PT-07	19+41.47	10.21' RT.	5352.22
PT-08	19+48.89	9.04' RT.	5352.31
PT-09	19+59.26	11.55' RT.	5352.37
PT-10	19+70.26	11.70' RT.	5352.35
PT-11	19+70.26	10.29' RT.	5352.33
PT-12	19+81.14	10.29' RT.	5352.58
PT-13	19+92.49	7.16' RT.	5352.85
PT-14	19+98.31	5.50' RT.	5352.91
PT-15	20+03.31	5.50' RT.	5352.91
PT-16	20+03.31	0.92' RT.	5352.81
PT-17	19+98.31	0.71' RT.	5352.84
PT-18	19+89.73	0.50' RT.	5352.87
PT-19	19+81.14	0.50' RT.	5352.82
PT-20	19+63.28	0.50' RT.	5352.20
PT-21	19+61.76	0.00' RT.	5351.71
PT-22	19+60.74	7.81' RT.	5352.31
PT-23	19+53.16	5.89' RT.	5352.25
PT-24	19+56.62	0.00' RT.	5351.74
PT-25	19+50.62	0.50' RT.	5352.23
PT-26	19+43.69	0.50' RT.	5352.18
PT-27	19+37.69	0.00' RT.	5351.85
PT-28	19+39.25	6.38' RT.	5352.16
PT-29	19+32.68	6.72' RT.	5352.14
PT-30	19+32.68	0.00' RT.	5351.62
PT-31	19+31.18	0.50' RT.	5352.11
PT-32	19+17.41	0.50' RT.	5352.16
PT-33	19+08.85	0.57' RT.	5352.21
PT-34	19+00.00	0.92' RT.	5352.14

NOTE:

* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'

KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS		Project No./Code
W. CUSTER PLACE		
Designer:	SED Structure	
Detailer:	SED Numbers	
Subject:	Roadway/ Sheets:	Sheet Number 40
		CD-18 of 15

As Constructed	No Revisions:
	Revised:
	Void:



Sheet Revisions	
Date	Comments
(R-2)	

Print Date: 8/13/2018 2:26:40 PM
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 6100 South Syracuse Way, Suite 600
 Centennial, CO 80111
 Phone: 303.721.1440
 www.FHUEING.com

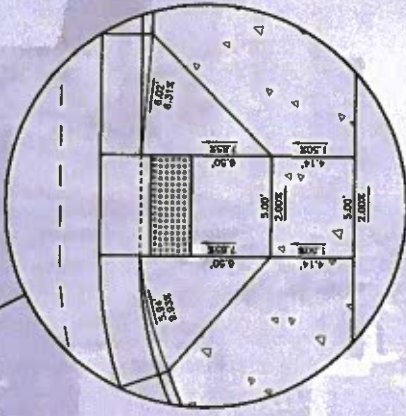
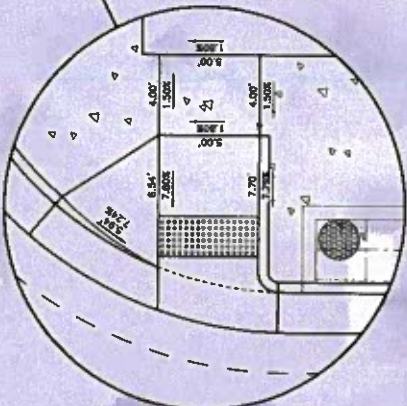
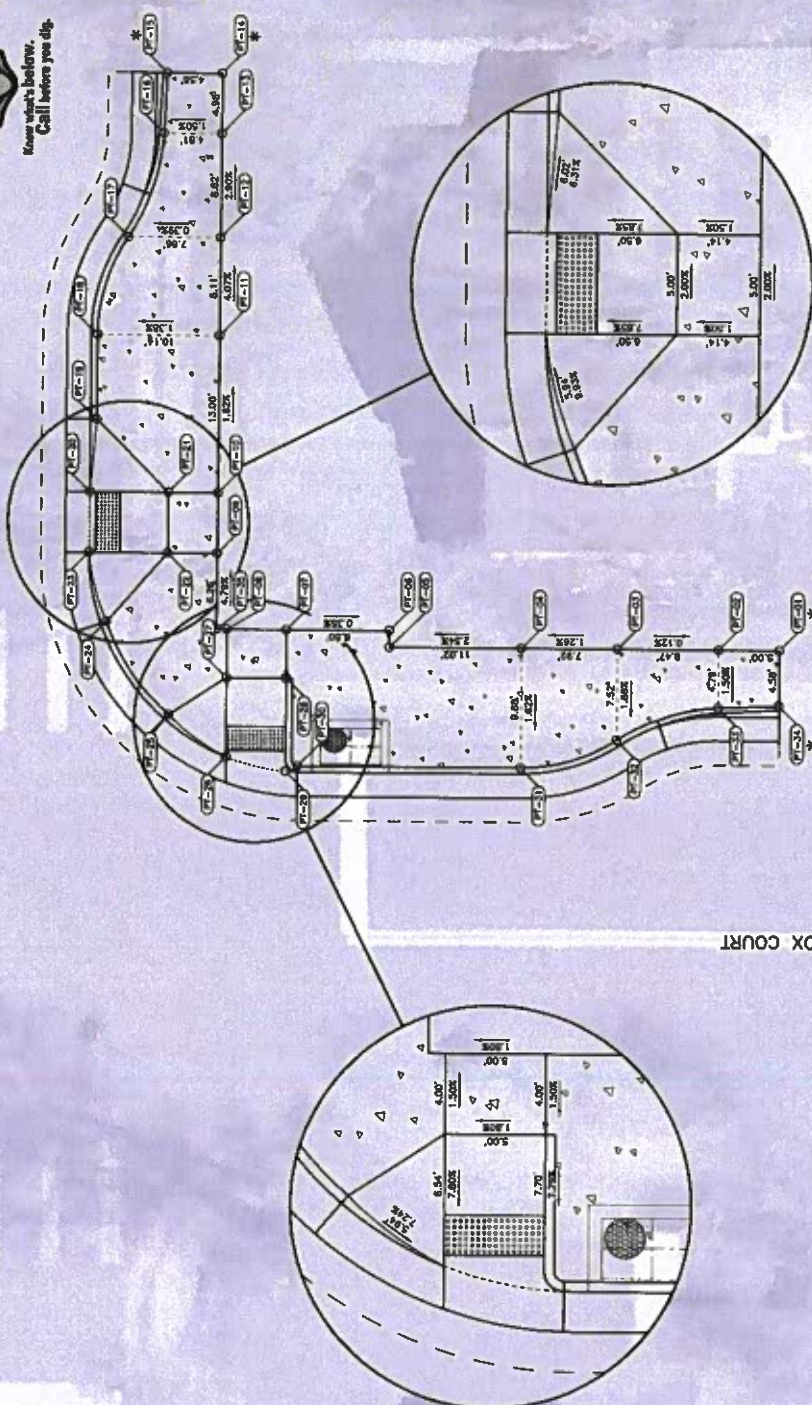
FELSBURG
 HOLT &
 ULLEVIK



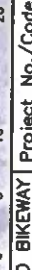
W. CUSTER PLACE

POINT	STATION	OFFSET	ELEVATION
PT-00	22+00.00	5.50' RT.	5352.80
PT-01	22+05.00	6.50' RT.	5352.52
PT-02	22+10.88	7.18' RT.	5352.53
PT-03	22+22.34	10.37' RT.	5352.43
PT-04	22+33.36	11.78' RT.	5352.15
PT-05	22+44.64	11.54' RT.	5352.19
PT-06	22+54.87	8.98' RT.	5352.10
PT-07	22+68.66	10.84' RT.	5351.72
PT-08	22+73.68	10.84' RT.	5351.62
PT-09	22+86.66	10.84' RT.	5351.41
PT-10	22+98.46	7.27' RT.	5351.08
PT-11	23+04.42	5.52' RT.	5350.83
PT-12	23+09.41	3.50' RT.	5350.68
PT-13	23+09.41	0.92' RT.	5350.59
PT-14	23+04.41	0.71' RT.	5350.76
PT-15	22+85.56	0.50' RT.	5351.05
PT-16	22+86.66	0.50' RT.	5351.27
PT-17	22+78.66	0.50' RT.	5351.43
PT-18	22+73.66	0.00' RT.	5351.05
PT-19	22+76.66	6.50' RT.	5351.56
PT-20	22+68.66	6.50' RT.	5351.66
PT-21	22+68.66	0.00' RT.	5351.15
PT-22	22+62.66	0.50' RT.	5351.74
PT-23	22+53.01	0.50' RT.	5351.96
PT-24	22+47.01	0.00' RT.	5351.53
PT-25	22+50.55	5.86' RT.	5352.04
PT-26	22+42.89	7.85' RT.	5352.13
PT-27	22+41.86	0.00' RT.	5351.53
PT-28	22+40.89	0.50' RT.	5352.02
PT-29	22+22.34	0.50' RT.	5352.27
PT-30	22+13.67	0.50' RT.	5352.39
PT-31	22+05.00	0.71' RT.	5352.45
PT-32	22+00.00	0.92' RT.	5352.51
PT-33	22+56.00	6.35' RT.	5352.02

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'



As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS	Project No./Code	-
No Revisions:		Designer:	SED
Revised:		Detailer:	SED
Void:		Structure Numbers	
		Subset:	Roadway
		Sheets:	CD-11 of 15
		Sheet Number	41

DENVER
THE MILE HIGH CITY

Sheet Revisions	
Date	Comments

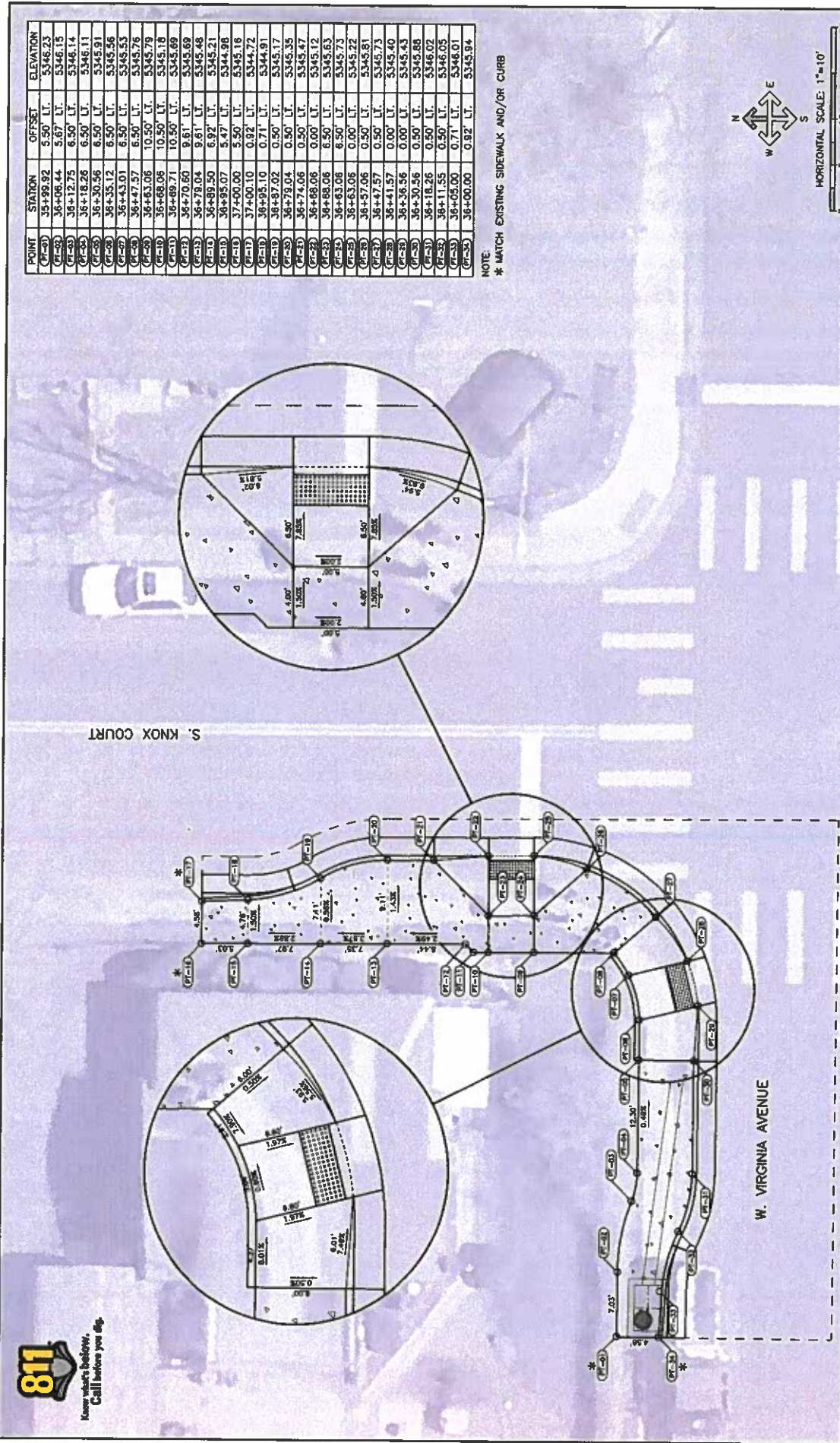
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 6305 South Syracuse Way, Suite 400
 Centennial, CO 80111
 Phone: 303.771.1440
 www.PALDING.com

FELSBURG
HOLT & ULLEVIK



POINT	STATION	OFFSET	ELEVATION
(P=0)	35+99.92	5.50' LT.	5346.23
(P=1)	36+06.44	5.67' LT.	5346.15
(P=2)	36+12.75	6.50' LT.	5346.14
(P=3)	36+18.26	6.50' LT.	5346.11
(P=4)	36+30.56	6.50' LT.	5345.91
(P=5)	36+35.12	6.50' LT.	5345.56
(P=6)	36+43.01	6.50' LT.	5345.53
(P=7)	36+47.57	6.50' LT.	5345.76
(P=8)	36+53.06	10.50' LT.	5345.78
(P=9)	36+58.08	10.50' LT.	5345.18
(P=10)	36+59.71	10.50' LT.	5345.69
(P=11)	36+70.60	9.81' LT.	5345.69
(P=12)	36+78.04	9.81' LT.	5345.21
(P=13)	36+89.50	6.97' LT.	5345.48
(P=14)	36+95.07	5.97' LT.	5344.98
(P=15)	37+00.00	5.50' LT.	5345.16
(P=16)	37+00.10	0.92' LT.	5344.72
(P=17)	36+95.10	0.71' LT.	5344.91
(P=18)	36+87.02	0.50' LT.	5345.17
(P=19)	36+79.04	0.50' LT.	5345.35
(P=20)	36+74.06	0.50' LT.	5345.47
(P=21)	36+68.06	0.00' LT.	5345.12
(P=22)	36+63.06	6.50' LT.	5345.63
(P=23)	36+63.06	0.00' LT.	5345.73
(P=24)	36+57.06	0.50' LT.	5345.22
(P=25)	36+47.57	0.50' LT.	5345.73
(P=26)	36+41.57	0.00' LT.	5345.40
(P=27)	36+36.56	0.00' LT.	5345.43
(P=28)	36+30.56	0.50' LT.	5345.88
(P=29)	36+18.26	0.50' LT.	5346.02
(P=30)	36+11.55	0.50' LT.	5346.05
(P=31)	36+05.00	0.71' LT.	5346.01
(P=32)	36+00.00	0.92' LT.	5345.94

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'
0 5 10 20

As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS	Project No./Code	-
No Revisions:	W. VIRGINIA AVENUE	Designer:	Structure
Revised:		Detailer:	SED
Void:		Roofway/ Sheets	CD-12 of 15
		Sheet Number	42

Sheet Revisions	
Date	Comments
(R=1)	Initials

Print Date: 8/13/2018 2:27:34 PM
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 FELSBURG 6100 South Syracuse Way, Suite 400
 Centennial, CO 80111
 Phone: 303.771.1446
 www.FELSBURG.com
 HOLT & ULLEVIG

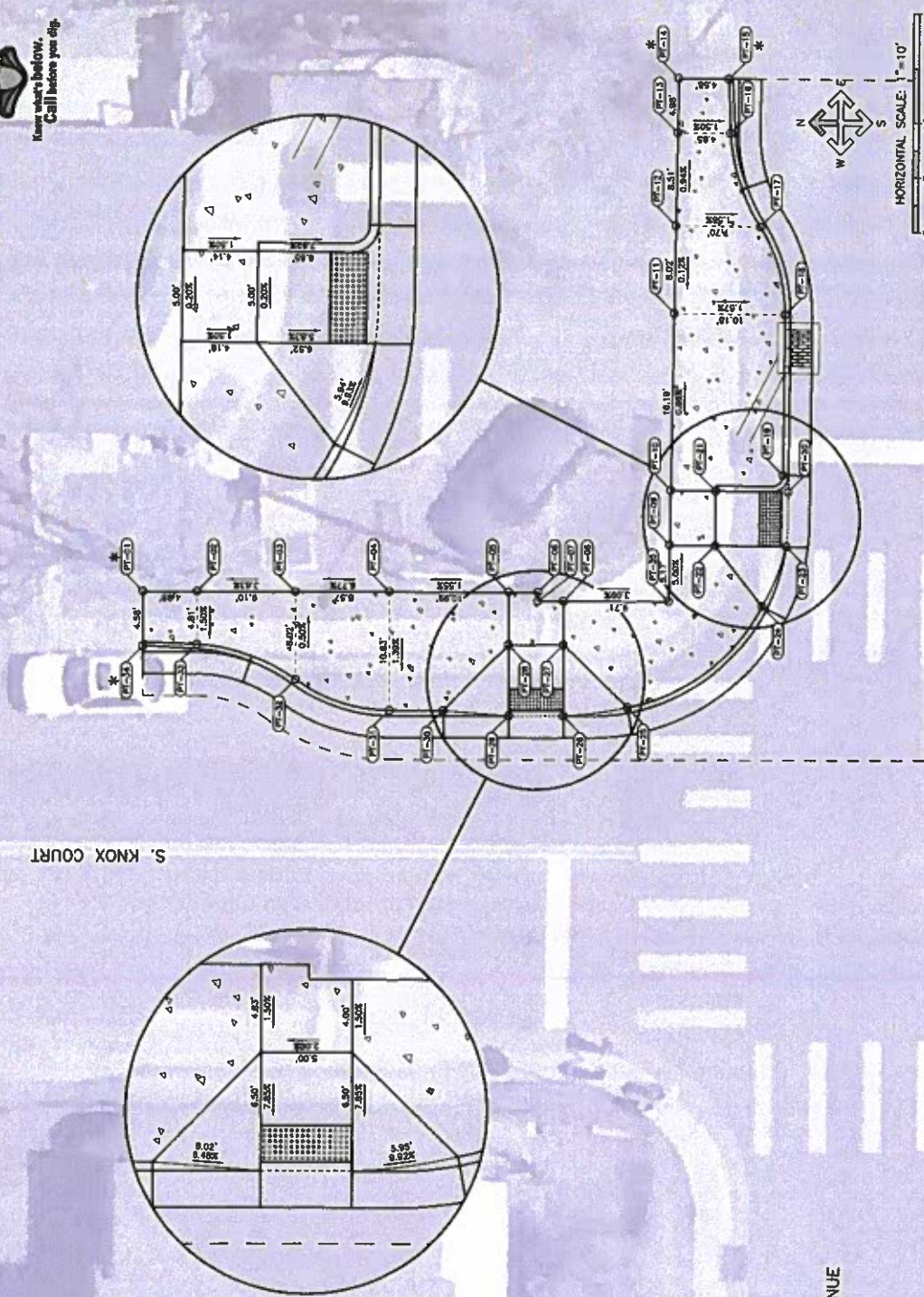


POINT	STATION	OFFSET	ELEVATION
(PC-0)	39+00.00	5.50' LT.	5343.93
(PC-1)	39+04.98	5.52' LT.	5344.05
(PC-2)	39+11.23	7.47' LT.	5344.38
(PC-3)	39+23.91	11.33' LT.	5344.98
(PC-4)	39+34.90	11.33' LT.	5345.13
(PC-5)	39+37.45	11.33' LT.	5345.25
(PC-6)	39+39.90	10.80' LT.	5345.25
(PC-7)	39+48.14	10.48' LT.	5345.22
(PC-8)	39+53.38	10.79' LT.	5345.26
(PC-9)	39+59.56	10.67' LT.	5345.27
(PC-10)	40+01.23	7.33' LT.	5345.14
(PC-11)	40+12.00	5.50' LT.	5345.06
(PC-12)	40+12.08	0.92' LT.	5344.82
(PC-13)	40+07.08	0.71' LT.	5344.89
(PC-14)	39+58.35	0.50' LT.	5345.02
(PC-15)	39+59.56	0.50' LT.	5344.97
(PC-16)	39+74.88	0.00' LT.	5345.15
(PC-17)	39+73.38	6.65' LT.	5344.69
(PC-18)	39+67.10	6.42' LT.	5345.21
(PC-19)	39+68.73	0.00' LT.	5344.82
(PC-20)	39+62.37	0.50' LT.	5345.41
(PC-21)	39+45.90	0.50' LT.	5345.24
(PC-22)	39+39.90	0.00' LT.	5344.65
(PC-23)	39+34.90	6.50' LT.	5345.06
(PC-24)	39+28.90	0.00' LT.	5344.55
(PC-25)	39+23.91	0.50' LT.	5344.94
(PC-26)	39+14.42	0.50' LT.	5344.81
(PC-27)	39+05.00	0.71' LT.	5343.88
(PC-28)	39+00.00	0.92' LT.	5343.77
(PC-29)	39+56.14	7.70' LT.	5345.52

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB

S. KNOX COURT

W. VIRGINIA AVENUE



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 Horizontal Scale: 1"=10' Vertical Scale: NTS
 6300 South Syracuse Way, Suite 600
 Centennial, CO 80111
 Phone: 303.771.1440
 www.fhdinc.com

Project No./Code
KNOX COURT NEIGHBORHOOD BIKEWAY
CURB RAMP DETAILS
W. VIRGINIA AVENUE

As Constructed
 No Revisions:
 Revised:
 Void:

Designer: _____
 Detailer: _____
 Subst: _____

SED Structure
 SED Numbers
 Roadway/ Sheets: CD-13 of 15

Sheet Number: 43

Date	Comments	Initials

Sheet Revisions

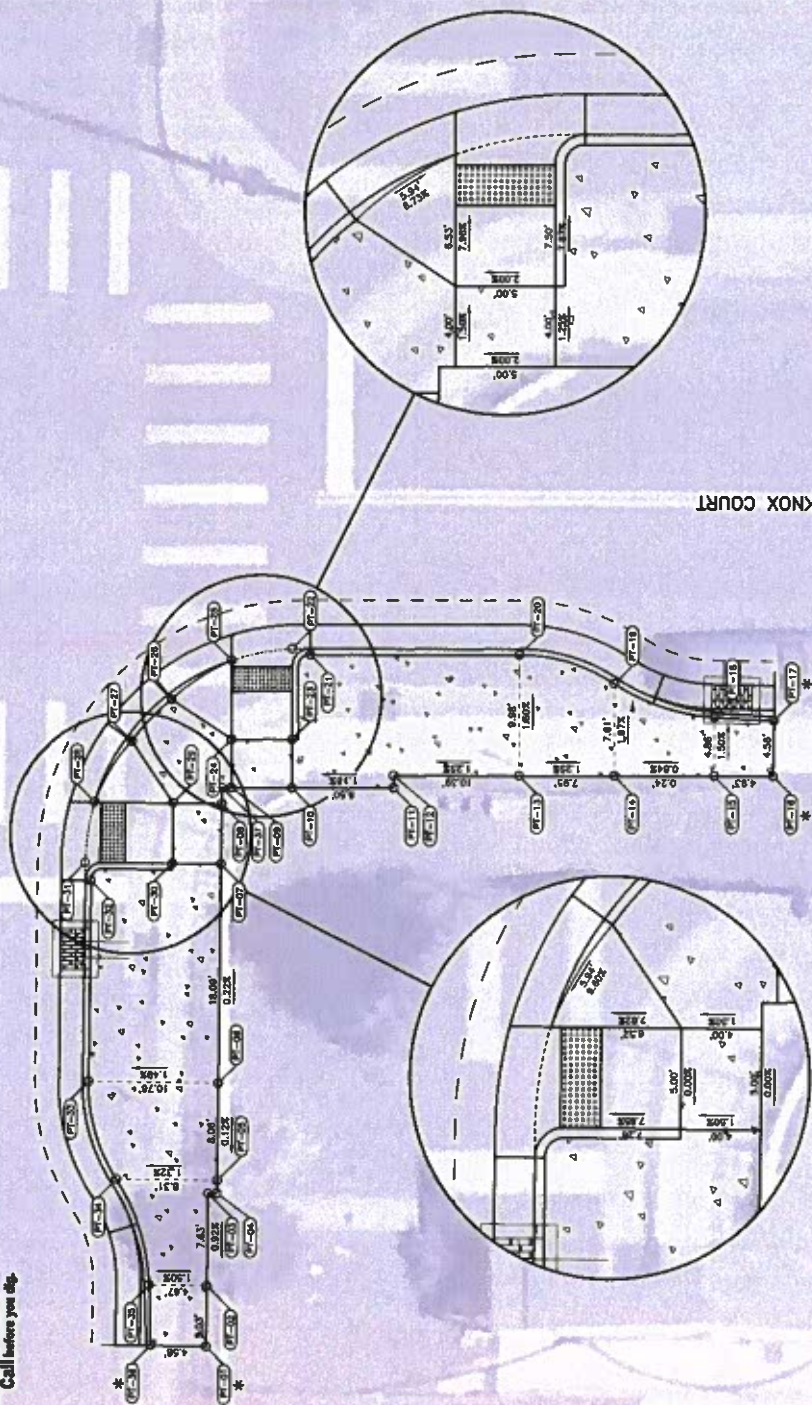
(R-2) 000



W. VIRGINIA AVENUE

POINT	STATION	OFFSET	ELEVATION
(P-40)	30+00.00	5.50' RT.	5346.69
(P-46)	30+05.02	5.47' RT.	5346.74
(P-49)	30+10.38	6.82' RT.	5346.81
(P-50)	30+10.83	7.50' RT.	5346.81
(P-55)	30+22.78	7.88' RT.	5346.81
(P-57)	30+41.02	11.26' RT.	5346.78
(P-58)	30+52.42	9.55' RT.	5346.78
(P-60)	30+55.59	9.24' RT.	5347.01
(P-61)	30+66.41	11.46' RT.	5347.11
(P-62)	30+76.47	11.52' RT.	5347.21
(P-63)	30+86.47	10.48' RT.	5347.21
(P-64)	30+86.86	10.48' RT.	5347.34
(P-65)	30+98.40	7.25' RT.	5347.44
(P-66)	31+04.14	5.57' RT.	5347.44
(P-67)	31+09.07	5.50' RT.	5347.51
(P-68)	31+09.07	0.92' RT.	5347.55
(P-69)	31+04.07	0.71' RT.	5347.55
(P-70)	30+95.57	0.50' RT.	5347.29
(P-71)	30+86.86	0.50' RT.	5347.18
(P-72)	30+89.47	0.50' RT.	5346.98
(P-73)	30+67.87	0.00' RT.	5346.47
(P-74)	30+67.34	7.48' RT.	5347.06
(P-75)	30+59.65	5.98' RT.	5346.95
(P-76)	30+62.86	0.00' RT.	5346.41
(P-77)	30+56.86	0.50' RT.	5346.84
(P-78)	30+51.94	0.50' RT.	5346.78
(P-79)	30+45.94	0.00' RT.	5346.71
(P-80)	30+48.74	6.11' RT.	5346.72
(P-81)	30+40.93	7.26' RT.	5346.72
(P-82)	30+40.87	0.00' RT.	5346.15
(P-83)	30+39.37	0.50' RT.	5346.84
(P-84)	30+22.78	0.50' RT.	5346.86
(P-85)	30+13.93	0.50' RT.	5346.70
(P-86)	30+05.00	0.71' RT.	5346.67
(P-87)	30+00.00	0.82' RT.	5346.60
(P-88)	30+54.46	8.70' RT.	5346.93

NOTE:
* MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'

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090 South Syracuse Way, Suite 600 Centennial, CO 80111 Phone: 303.771.1440 www.PHUBUS.com															
As Constructed No Revisions: Revised: Void:	KNOX COURT NEIGHBORHOOD BIKEWAY CURB RAMP DETAILS W. VIRGINIA AVENUE Designer: SED Structure Detainer: SED Numbers Subject: Roadway Sheets:	Sheet Revisions <table border="1"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr> <td>(P-2)</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Comments	Initials	(P-2)									Project No./Code - Sheet Number 44
Date	Comments	Initials													
(P-2)															

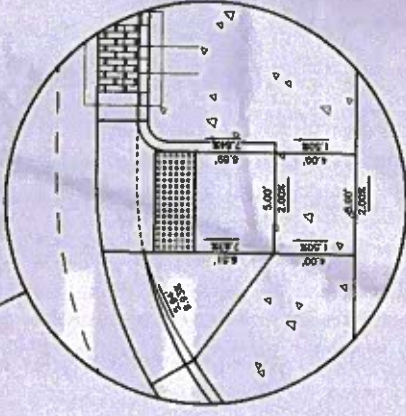
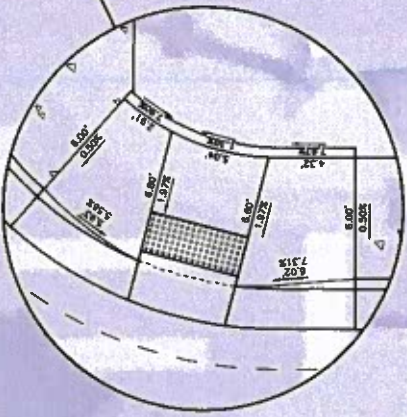
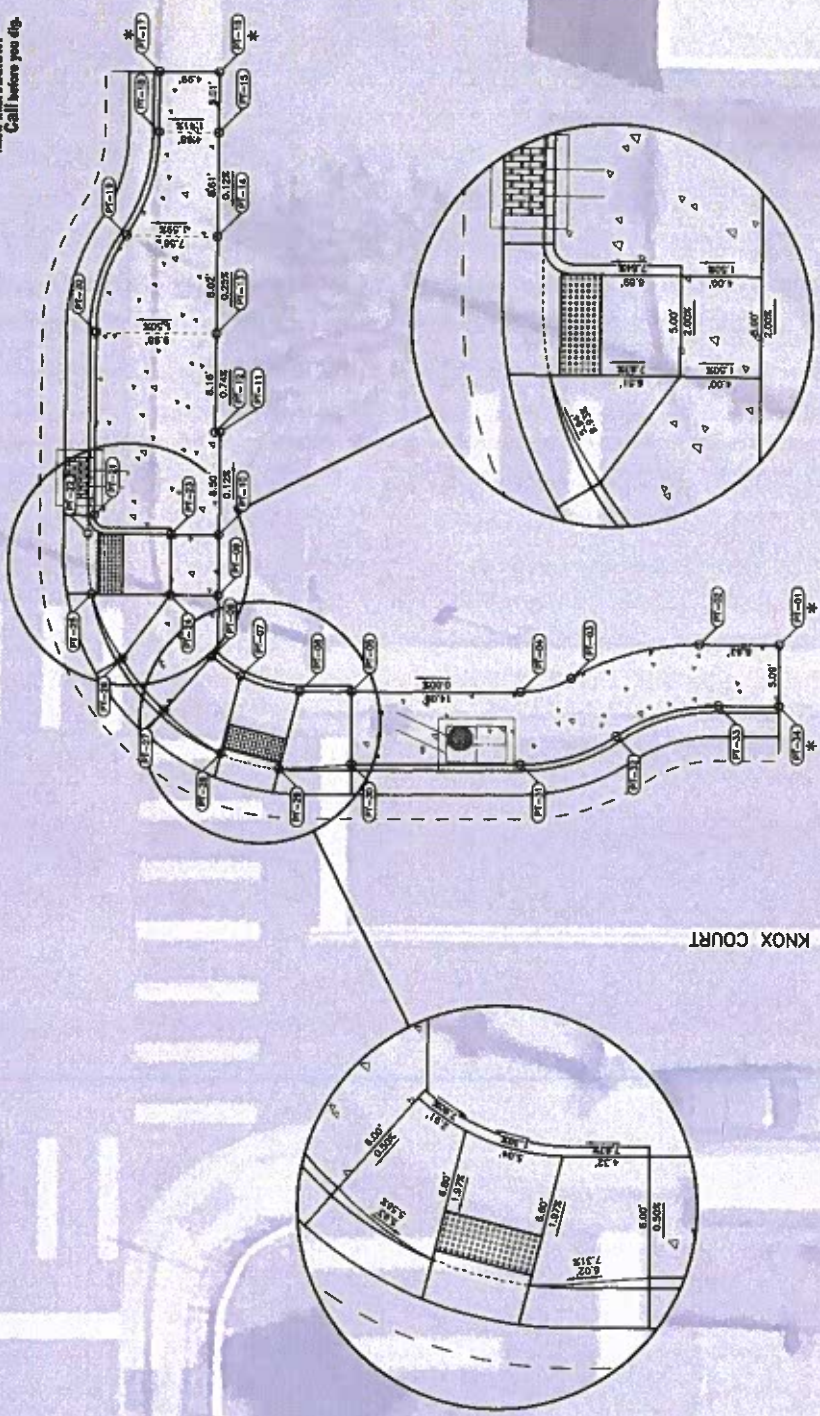




W. VIRGINIA AVENUE

POINT	STATION	OFFSET	ELEVATION
(PC-0)	33+00.00	5.59' RT.	5347.06
(PC-1)	33+06.18	5.62' RT.	5346.91
(PC-2)	33+14.83	6.50' RT.	5346.85
(PC-3)	33+22.41	6.50' RT.	5346.80
(PC-4)	33+36.50	6.50' RT.	5346.82
(PC-5)	33+41.05	6.50' RT.	5346.18
(PC-6)	33+48.94	6.50' RT.	5346.11
(PC-7)	33+53.50	6.50' RT.	5346.34
(PC-8)	33+60.33	10.00' RT.	5346.12
(PC-9)	33+70.22	10.89' RT.	5346.02
(PC-10)	33+78.72	10.48' RT.	5346.03
(PC-11)	33+86.87	10.48' RT.	5346.09
(PC-12)	33+98.51	7.20' RT.	5346.11
(PC-13)	34+04.48	5.48' RT.	5346.12
(PC-14)	34+09.49	5.49' RT.	5346.23
(PC-15)	34+09.49	0.50' RT.	5346.08
(PC-16)	34+04.49	0.50' RT.	5346.05
(PC-17)	33+55.66	0.50' RT.	5345.99
(PC-18)	33+56.87	0.50' RT.	5345.94
(PC-19)	33+71.72	0.50' RT.	5345.90
(PC-20)	33+70.22	0.00' RT.	5345.42
(PC-21)	33+70.22	6.89' RT.	5345.96
(PC-22)	33+63.15	6.30' RT.	5346.06
(PC-23)	33+65.18	0.00' RT.	5345.53
(PC-24)	33+53.90	0.50' RT.	5346.12
(PC-25)	33+42.49	0.00' RT.	5345.88
(PC-26)	33+36.50	0.50' RT.	5346.05
(PC-27)	33+36.50	0.50' RT.	5346.49
(PC-28)	33+22.41	0.50' RT.	5346.71
(PC-29)	33+13.74	0.50' RT.	5346.77
(PC-30)	33+05.00	0.50' RT.	5346.85
(PC-31)	33+00.00	0.50' RT.	5346.91

NOTE: * MATCH EXISTING SIDEWALK AND/OR CURB



HORIZONTAL SCALE: 1"=10'

0	5	10	20
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As Constructed	No Revisions	Revised:	Void:

Design:	Structure
Detailer:	SED Numbers
Subject:	Roadway
Sheets:	CD-15 of 15
Sheet Number	45

DENVER
THE MILE HIGH CITY

Date	Comments	Initials

Print Date: 8/13/2018 2:22:44 PM
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 Phone: 303.721.1440
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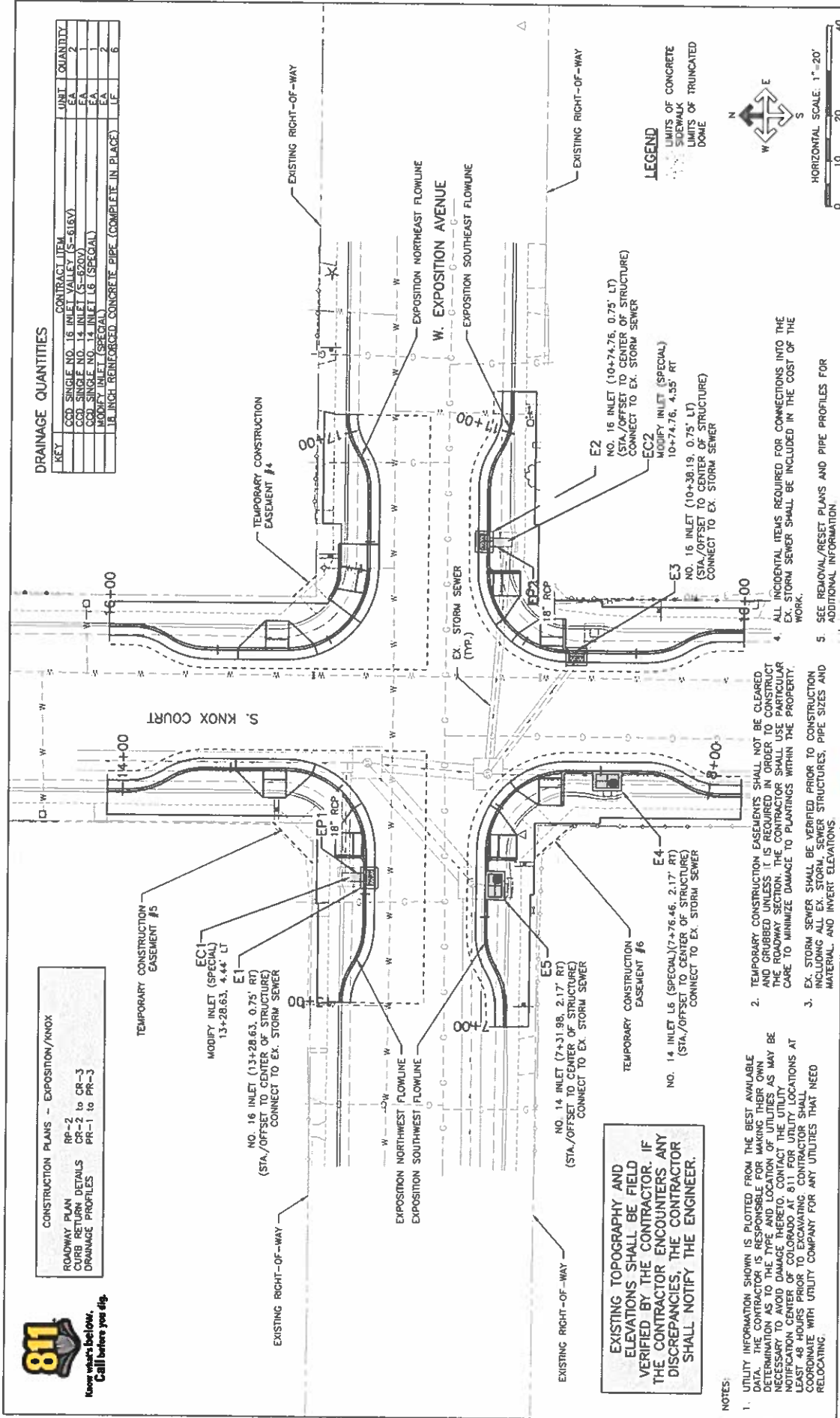
Know what's below.
Call before you dig.

CONSTRUCTION PLANS - EXPOSITION/KNOX

- ROADWAY PLAN RP-2
- CURB DETAILS GR-2 to GR-3
- DRAINAGE PROFILES PR-1 to PR-3

DRAINAGE QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
CCD	SINGLE NO. 16 INLET VALLEY (S-616V)	EA	2
CCD	SINGLE NO. 14 INLET (S-620V)	EA	1
MON	NO. 16 INLET (SPECIAL)	EA	1
MON	NO. 14 INLET (SPECIAL)	EA	1
CP	18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	6



LEGEND
 LIMITS OF CONCRETE SIDEWALK
 LIMITS OF TRUNCATED DOME



HORIZONTAL SCALE: 1" = 20'

EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

NOTES:

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
- TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
- EX. STORM SEWER SHALL BE VERIFIED PRIOR TO CONSTRUCTION INCLUDING ALL EX. STORM SEWER STRUCTURES, PIPE SIZES AND MATERIAL AND INVERT ELEVATIONS.
- ALL INCIDENTAL ITEMS REQUIRED FOR CONNECTIONS INTO THE EX. STORM SEWER SHALL BE INCLUDED IN THE COST OF THE WORK.
- SEE REMOVAL/RESET PLANS AND PIPE PROFILES FOR ADDITIONAL INFORMATION.

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Sheet Revisions		Date	Comments
(E-3)			
As Constructed		KNOX COURT NEIGHBORHOOD BIKEWAY DRAINAGE PLAN	
No Revisions:		W. EXPOSITION AVENUE	
Revised:		Designer:	LMG Structure
Void:		Detailer:	LMG Numbers
Drainage Sheets: DP-1 of 3		Project No./Code:	
Sheet Number: 46			



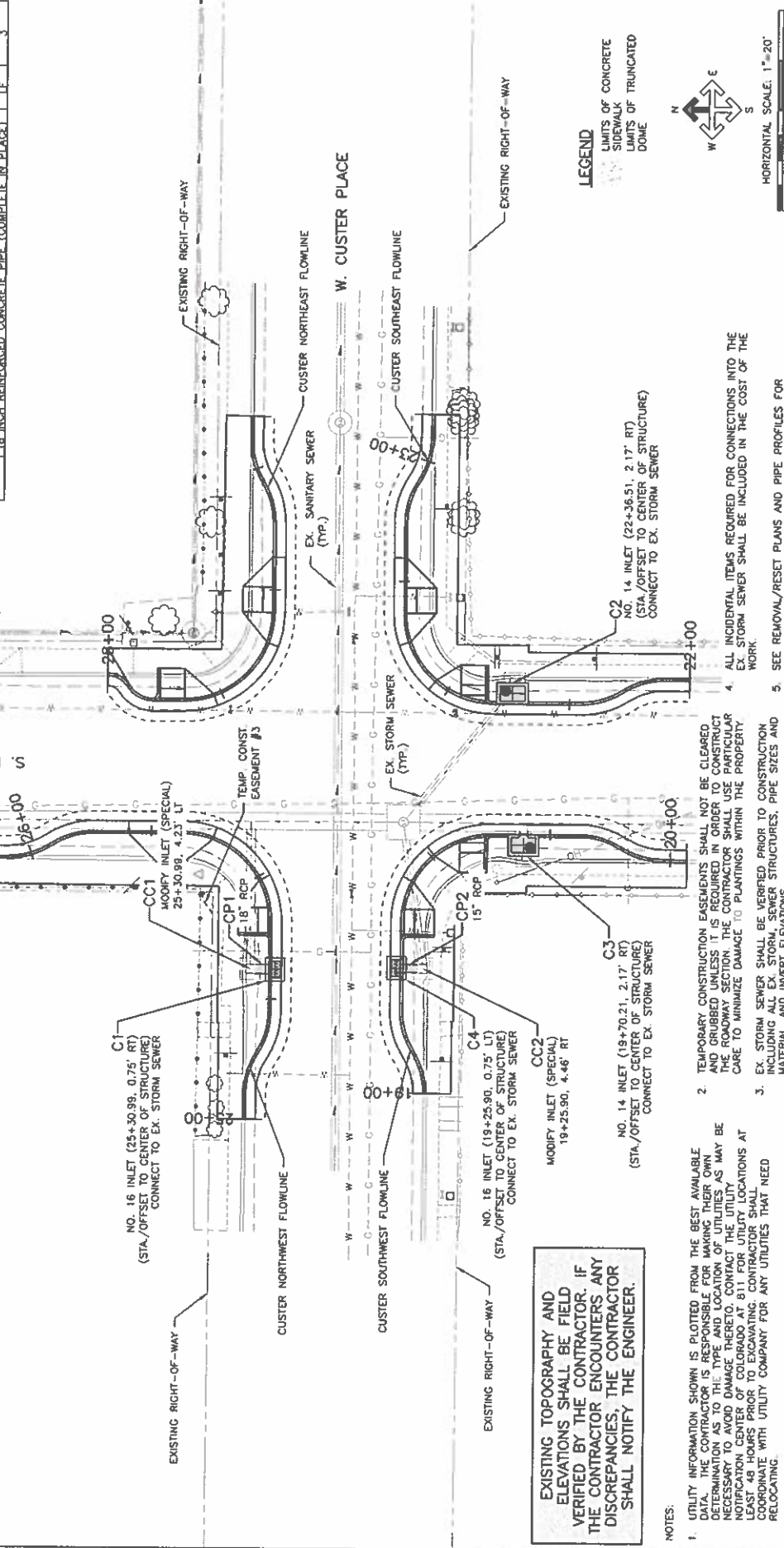


CONSTRUCTION PLANS - CUSTER/KNOX
 RR-3
 CURB RETURN DETAILS
 CR-4 to CR-5
 DRAINAGE PROFILES
 PR-4 to PR-8

S. KNOX COURT

DRAINAGE QUANTITIES

KEY	CONTRACT ITEM	UNIT	QUANTITY
CCD	SINGLE NO. 16 INLET VALVEY (S-616V)	EA	2
CCD	SINGLE NO. 14 INLET (S-620V)	EA	2
MO	MODIFY INLET (SPECIAL)	EA	3
RF	15 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	3
RF	18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	3

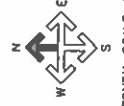


EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

NOTES:

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT COORDINATE WITH UTILITY COMPART FOR ANY UTILITIES THAT NEED RELOCATING.
- TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
- EX. STORM SEWER SHALL BE VERIFIED PRIOR TO CONSTRUCTION INCLUDING ALL EX. STORM, SEWER STRUCTURES, PIPE SIZES AND MATERIAL, AND INVERT ELEVATIONS.
- ALL INCIDENTAL ITEMS REQUIRED FOR CONNECTIONS INTO THE EX. STORM SEWER SHALL BE INCLUDED IN THE COST OF THE WORK.
- SEE REMOVAL/RESET PLANS AND PIPE PROFILES FOR ADDITIONAL INFORMATION.

LEGEND
 LIMITS OF CONCRETE STRUCTURE
 LIMITS OF TRUNCATED DOME



HORIZONTAL SCALE: 1"=20'

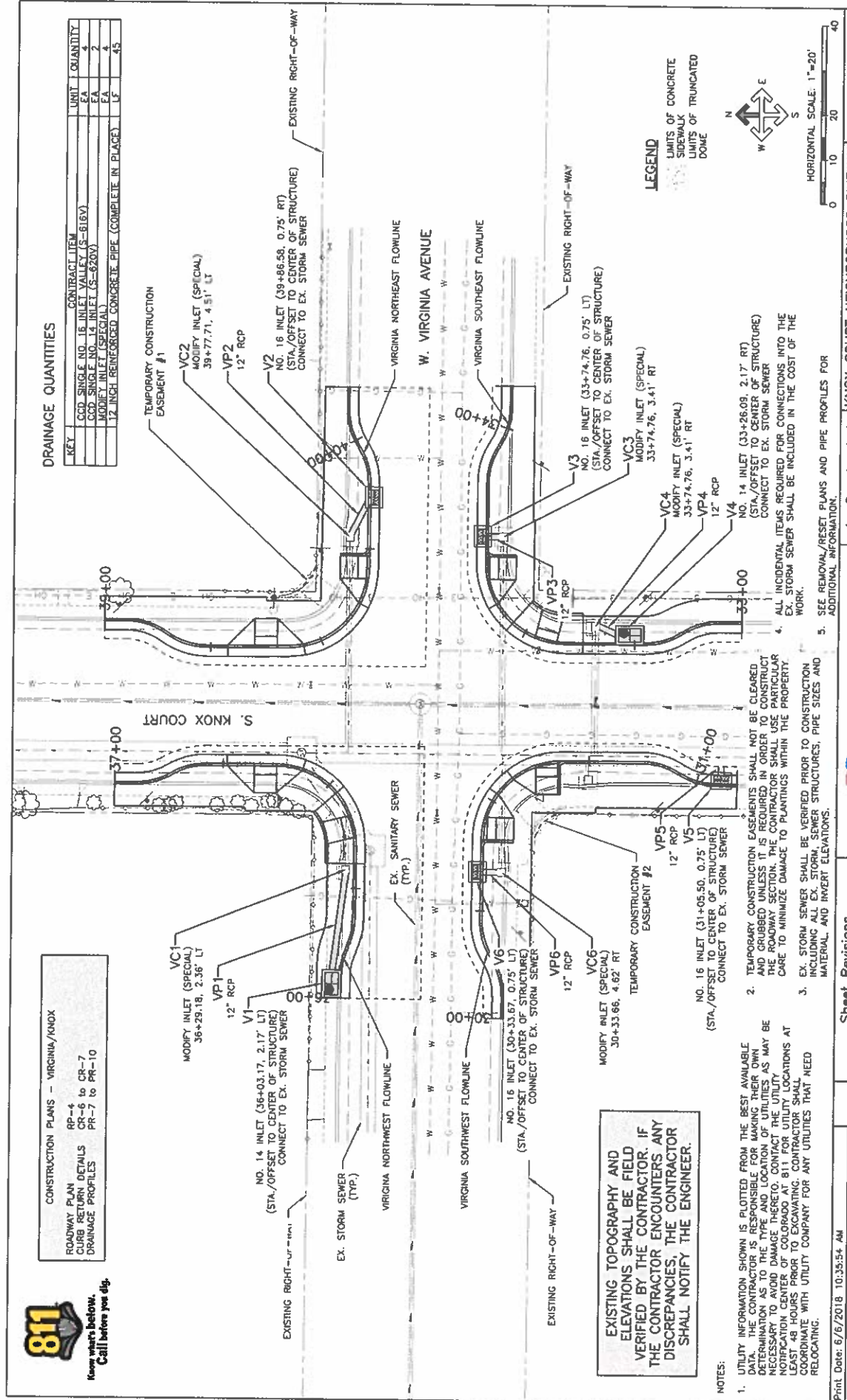
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Sheet Revisions <table border="1"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr> <td>(B-X)</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Date	Comments	Initials	(B-X)									As Constructed No Revisions: Revised: Void:	
Date	Comments	Initials													
(B-X)															
CONSTRUCTION PLANS - CUSTER/KNOX DRAINAGE PLAN W. CUSTER PLACE		KNOX COURT NEIGHBORHOOD BIKEWAY DRAINAGE PLAN W. CUSTER PLACE													
Designer: UMG Structure Detailer: UMG Structure Subst.:		Project No./Code DP-2 of 3 Sheet Number 47													



Know what's below. Call before you dig.

CONSTRUCTION PLANS - VIRGINIA/KNOX
ROADWAY PLAN
CURB RETURN DETAILS
DRAINAGE PROFILES

KEY	CONTRACT ITEM	UNIT	QUANTITY
CCD SINGLE NO. 16 INLET (SPECIAL)	NO. 14 INLET (33+74.76, 0.75' LT)	EA	4
CCD SINGLE NO. 14 INLET (SPECIAL)	NO. 14 INLET (33+74.76, 0.75' LT)	EA	2
MODIFY INLET (SPECIAL)	NO. 14 INLET (33+74.76, 0.75' LT)	EA	2
12 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)		LF	45

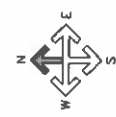


EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

NOTES:

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
- TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
- EX. STORM SEWER SHALL BE VERIFIED PRIOR TO CONSTRUCTION INCLUDING ALL EX. STORM SEWER STRUCTURES, PIPE SIZES AND MATERIAL AND INVERT ELEVATIONS.
- ALL INCIDENTAL ITEMS REQUIRED FOR CONNECTIONS INTO THE EX. STORM SEWER SHALL BE INCLUDED IN THE COST OF THE WORK.
- SEE REMOVAL/RESET PLANS AND PIPE PROFILES FOR ADDITIONAL INFORMATION.

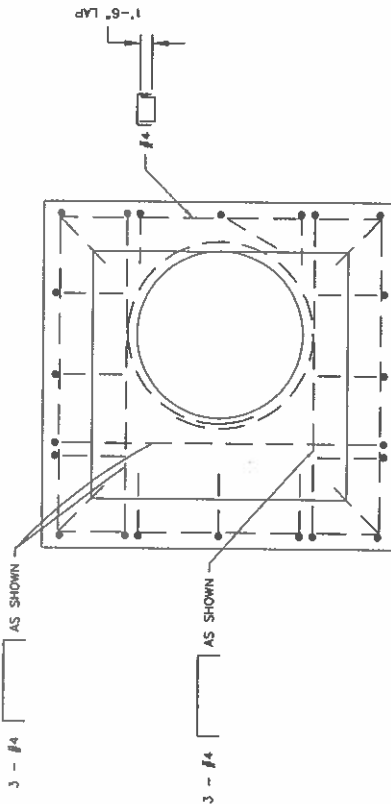
LEGEND
LIMITS OF CONCRETE
SIDEWALK
LIMITS OF TRUNCATED
DOME



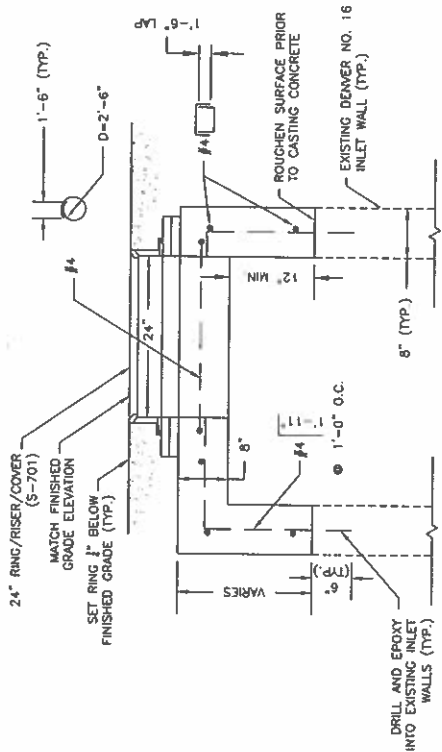
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<p>Sheet Revisions</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Date	Comments	Initials				<p>Drainage Sheets: DP-3 of 3</p> <p>Sheet Number: 48</p>		
Date	Comments	Initials								





(FIELD CUT REINF. AT OPENING)
TOP SLAB PLAN
MODIFY INLET (SPECIAL)
 N.T.S.



(ENTIRE WALL & TOP SLAB REINF. NOT SHOWN)
ELEVATION MODIFY INLET (SPECIAL)
MODIFY INLET (SPECIAL) TYPICAL DETAILS

NOTES

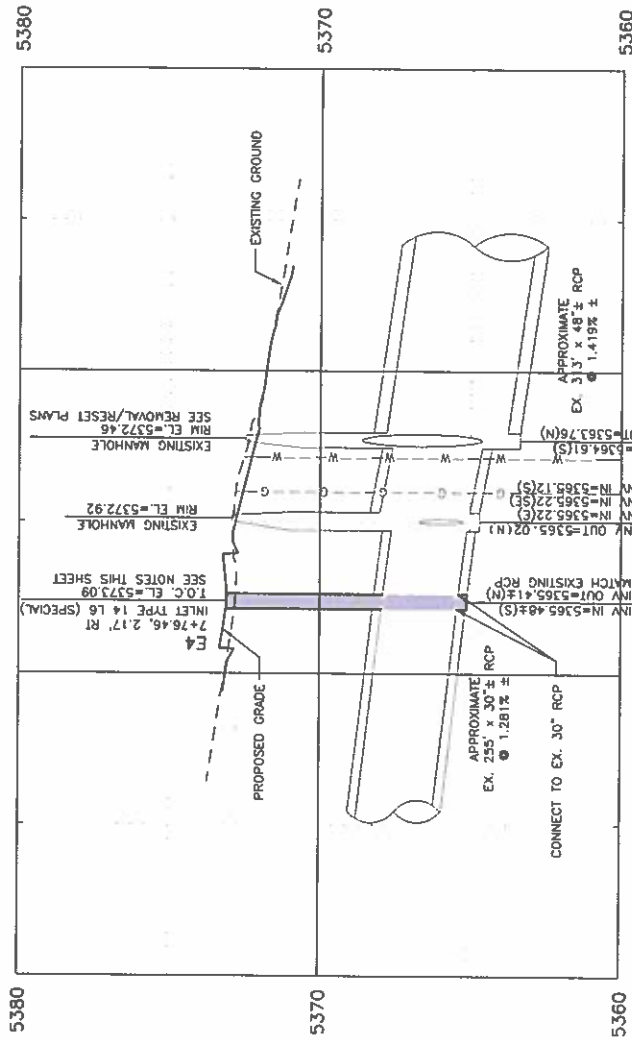
- ALL INCIDENTAL ITEMS REQUIRED TO CONSTRUCT, CONNECT PIPES, EXCAVATE/BACKFILL MODIFY INLET SHALL BE INCLUDED IN THE COST OF MODIFY INLET (1 EACH).
- MANHOLE STEPS ARE REQUIRED AND SHALL BE IN ACCORDANCE WITH DENVER STANDARD DETAIL S-750.
- ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE COOT CLASS D, $f'c=4,500$ PSI.
- ALL REINFORCING STEEL SHALL BE GRADE 60.
- ALL REINFORCEMENT SHALL HAVE A CLEAR COVER OF 2 INCHES, EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS.
- ALL EXPOSED CONCRETE CORNERS/EDGES SHALL HAVE A $\frac{3}{8}$ " CHAMFER.
- ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND ROUGHENED BEFORE FRESH CONCRETE IS PLACED.
- ALL CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOT BACKFILL STRUCTURES UNTIL TOP SLAB AND WALLS HAVE REACHED DESIGN STRENGTH $f'c=4,500$ PSI.
- ALL REINFORCING STEEL SHALL BE BLACK (NON-EPOXY-COATED).
- EPOXY SHALL BE HILTI HY 150, OR APPROVED EQUAL.
- NEW NO. 14 INLETS, AND INLETS CONVERTED TO A MANHOLE SHALL HAVE INVERTS SHAPED TO DRAIN AND ENVIRONMENTAL MESSAGE (FISH COVERS) REPLACING EXISTING LIDS. NEW NO. 16 INLETS SHOULD HAVE THE DENVER ENVIRONMENTAL MESSAGE CAST INTO THE HOOD OF THE NO. 16.

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Date: (E-2)		Comments:		Initials:		Design:		DD-1 of 1	
Date: (E-2)		Comments:		Initials:		Detailer:		Sheet Number	
Date: (E-2)		Comments:		Initials:		Subst:		49	



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UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

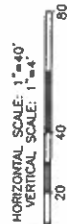


NOTES:

- CONNECT INLET TYPE 14 (SPECIAL) TO EXISTING 30" ± RCP STORM SEWER. C/O SINGLE NO. 14 INLET L6 (SPECIAL) INSIDE WIDTH DIMENSION INCREASED TO CONNECT TO APPROXIMATE EXISTING 30" RCP IN S.
- INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE
- CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO INSTALLATION OF NEW INLET TYPE 14 L6 (SPECIAL). ALL INCIDENTAL COSTS ASSOCIATED WITH THE CONNECTION ARE INCLUDED IN THE COST OF THE WORK.

APPROXIMATE
EX. 27' x 36" RCP
@ 1.919% ±

APPROXIMATE
EX. 23' x 30" RCP
@ 1.281% ±



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Sheet Revisions

Date	Comments	Initials



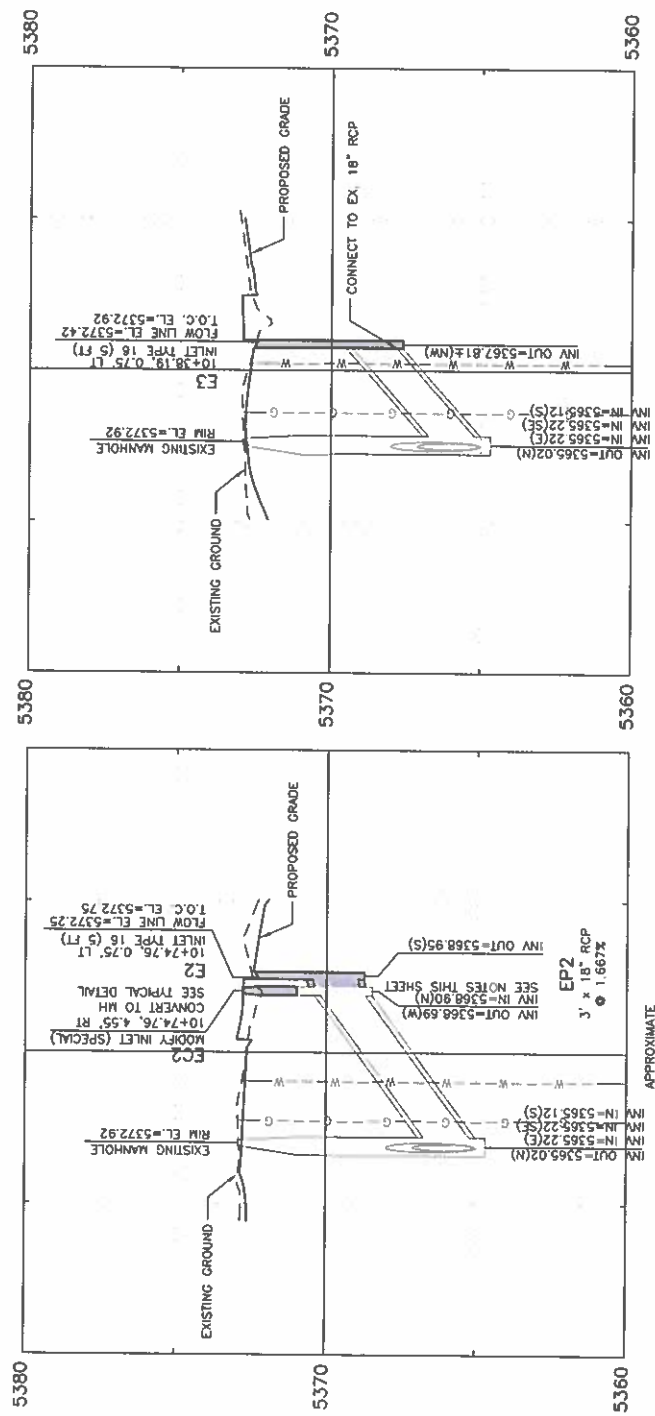
As Constructed

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Revised:
Void:

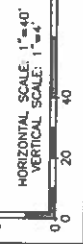
**KNOX COURT NEIGHBORHOOD BIKEWAY
DRAINAGE PROFILES
W. EXPOSITION AVENUE**

Project No./Code
MCL Structure
MCL Numbers
Drainage Sheets: PR-1 of 10
Sheet Number 50

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



- NOTES:
1. INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE.
 2. CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO INSTALLATION OF PROPOSED RCP. ALL COSTS ASSOCIATED WITH THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.
 3. MODIFY INLET (SPECIAL) INCLUDES REMOVAL OF TOP PORTION OF EX. INLET AND CONSTRUCTION OF NEW MANHOLE WITH ACCESS. ALL COSTS ASSOCIATED WITH MODIFICATION ARE INCLUDED IN THE WORK. SEE TYPICAL DETAIL FOR INFORMATION.



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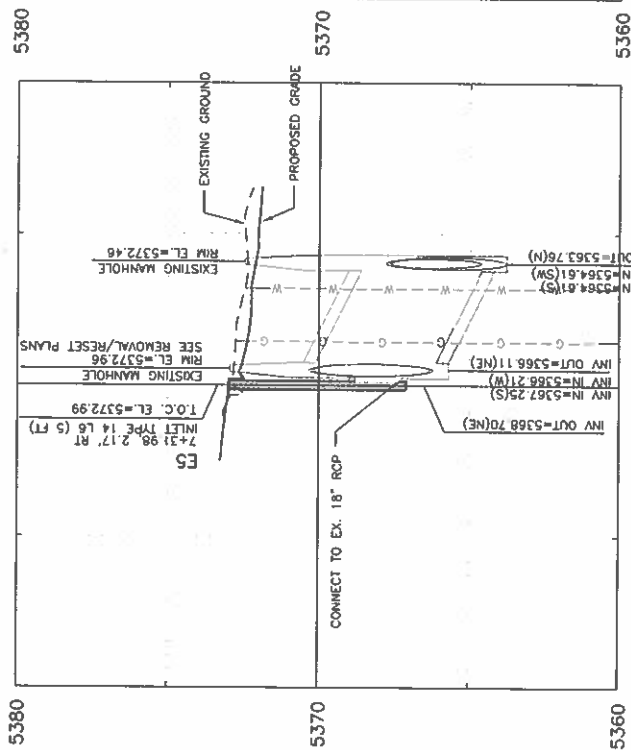
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Sheet Revisions	
Date	Comments

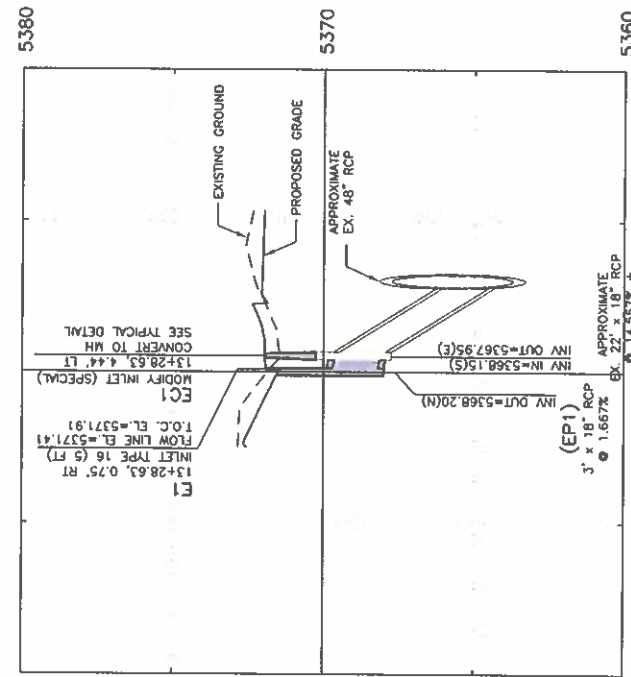


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No Revisions:		W. EXPOSITION AVENUE			
Revised:		Designer:	MCL Structure		
Void:		Detailer:	MCL Numbers		
			Subject:	Drainage Sheets:	PR-2 of 10
					Sheet Number 51

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



APPROXIMATE
EX. 35' x 48" RCP
@ 4.286% ±



NOTES:

- CONNECT INLET TYPE 14 LB TO EXISTING 18" RCP STORM SEWER
- INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE.
- CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO INSTALLATION OF THE WORK. ALL COSTS ASSOCIATED WITH THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.
- MODIFY INLET (SPECIAL) INCLUDES REMOVAL OF TOP PORTION OF EX. INLET AND CONSTRUCTION OF NEW MANHOLE WITH ACCESS. ALL COSTS ASSOCIATED WITH MODIFICATION ARE INCLUDED IN THE WORK. SEE TYPICAL DETAIL FOR INFORMATION.



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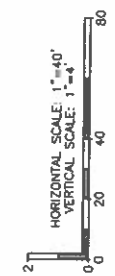
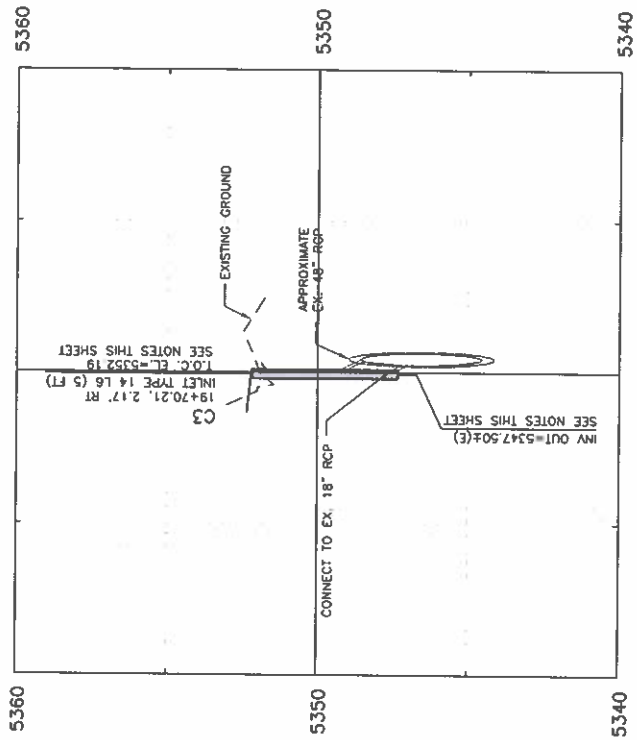
Sheet Revisions

Date	Comments	Initials
(6-2)		



As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY DRAINAGE PROFILES	Project No./Code
No Revisions:	W. EXPOSITION AVENUE	
Revised:	Designer: MCL Structure	
Void:	Detailer: MCL Numbers	
	Subject: Drainage Sheets	Sheet Number 52

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

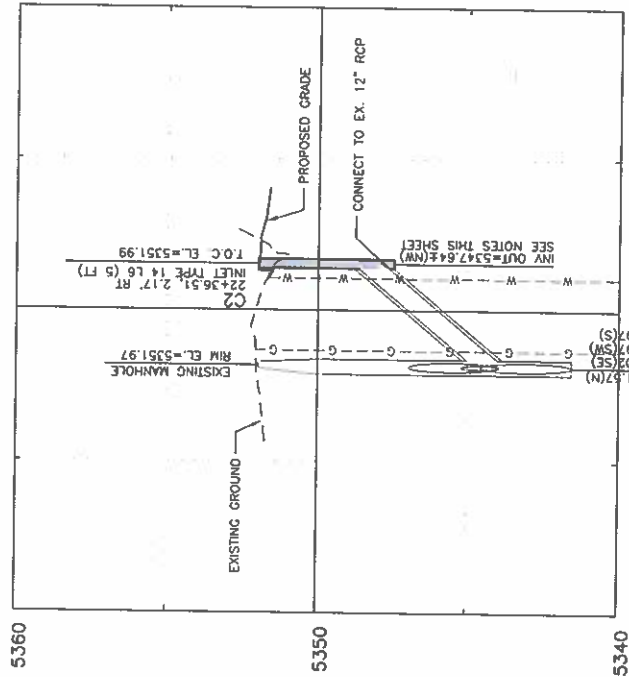


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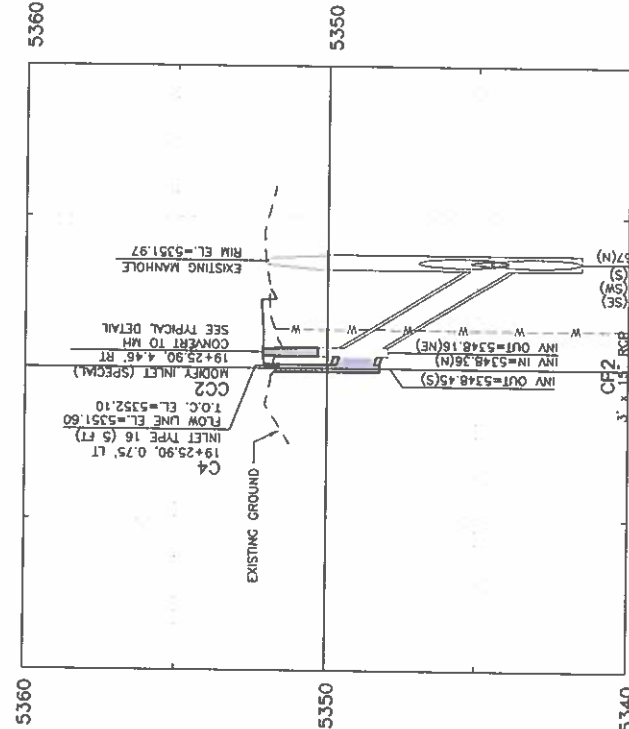
1. CONNECT INLET TYPE 14 L6 TO EXISTING 18" RCP STORM SEWER.
2. INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE.
3. CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO INSTALLATION OF PROPOSED RCP. ALL COSTS ASSOCIATED WITH THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.

Print Date: 6/6/2018 10:43:44 AM File Name: H112397-15PR002.dwg Horizontal Scale: 1"=40' Vertical Scale: N/A 0300 South Syracuse Way, Suite 600 FELSBLURG Centennial CO 80111 Phone: 303.771.1440 www.FHLENG.com HOLT & ULLEVIG		DENVER THE MILE HIGH CITY		As Constructed No Revisions: Revised: Void:	KNOX COURT NEIGHBORHOOD BIKEWAY DRAINAGE PROFILES W. CUSTER AVENUE Designer: Detailer: Submitt:	Project No./Code MCL Structure MCL Numbers Drainage Sheets: PR-4 of 10 Sheet Number 53											
Sheet Revisions (8-2) <table border="1"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>Initials</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Date	Comments	Initials													
Date	Comments	Initials															

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



APPROXIMATE
EX. 30" x 12" RCP
@ 12.2333%

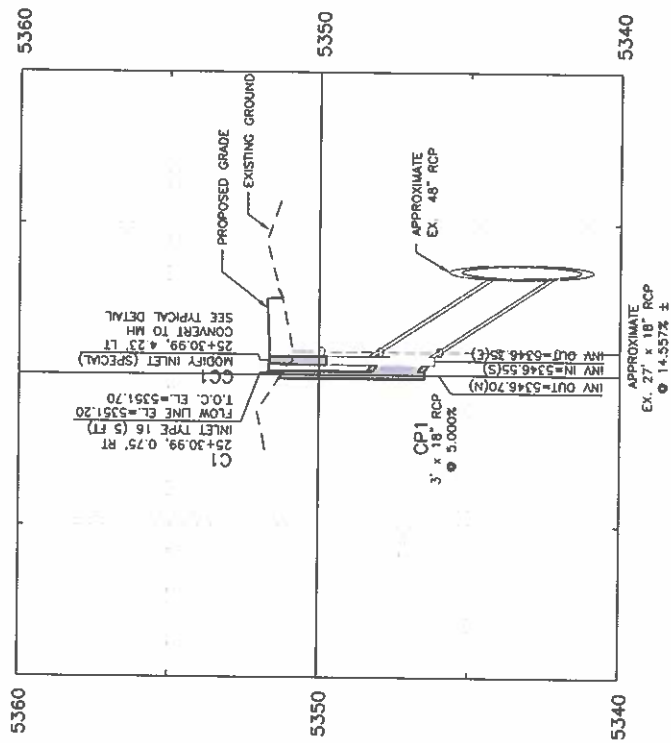


APPROXIMATE

1. CONNECT INLET TYPE 14 I.S. TO EXISTING 12" RCP STORM SEWER.
2. INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE.
3. CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO INSTALLATION OF PROPOSED RCP. ALL COSTS ASSOCIATED WITH THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.
4. MODIFY INLET (SPECIAL) INCLUDES REMOVAL OF TOP PORTION OF EX. INLET AND CONSTRUCTION OF NEW MANHOLE WITH ACCESS. ALL COSTS ASSOCIATED WITH MODIFICATION ARE INCLUDED IN THE WORK. SEE TYPICAL DETAIL FOR INFORMATION.

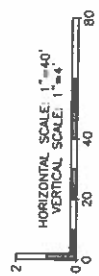
		KNOX COURT NEIGHBORHOOD BIKEWAY DRAINAGE PROFILES W. CUSTER AVENUE		Project No./Code -
As Constructed No Revisions.		Designer: Detailer: Subst:		MCL Structure Numbers MCL Numbers
Sheet Revisions (R-2)		Date Comments Initials		Drainage Sheets: PR-5 of 10 Sheet Number: 54
File Name: M112397-1SPR002.dwg Horizontal Scale: 1"=20' Vertical Scale: N/A		Print Date: 6/6/2018 10:44:32 AM Horizontal Scale: 1"=40' Vertical Scale: 1"=4'		
FELSBURG 6309 South Syracuse Way, Suite 609 Centennial CO 80111 Phone: 303.731.1440 www.FELSBURG.com		HOLT & ULLELVIG		

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



NOTES:

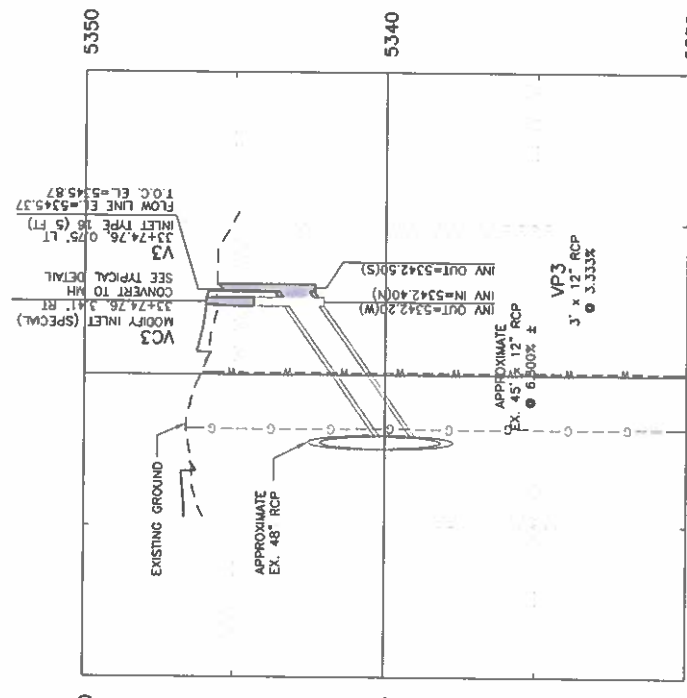
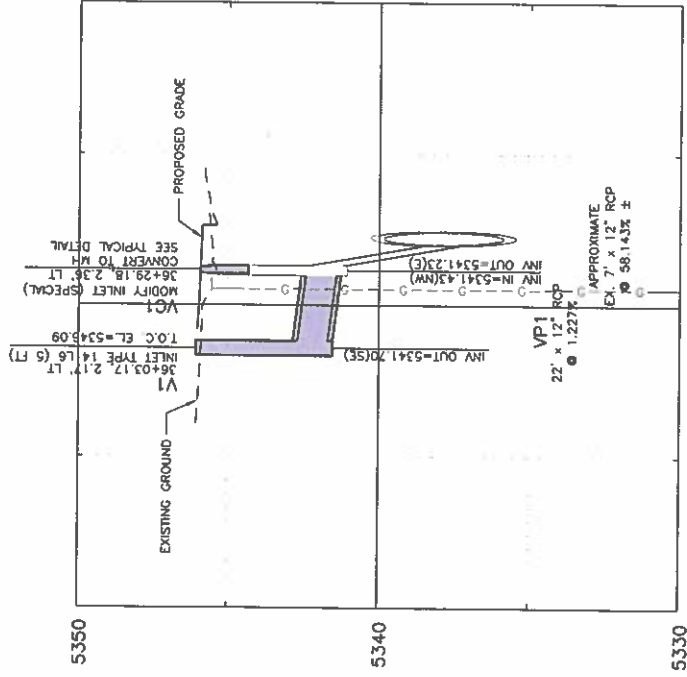
1. INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE FROM EXISTING STRUCTURES PRIOR TO INSTALLATION OF PROPOSED RCP. ALL COSTS ASSOCIATED WITH THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.
2. CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO INSTALLATION OF PROPOSED RCP. ALL COSTS ASSOCIATED WITH THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.
3. MODIFY INLET (SPECIAL) INCLUDES REMOVAL OF TOP PORTION OF EX. INLET AND CONSTRUCTION OF NEW MANHOLE WITH ACCESS. ALL COSTS ASSOCIATED WITH MODIFICATION ARE INCLUDED IN THE WORK. SEE TYPICAL DETAIL FOR INFORMATION.



Print Date: 6/5/2018 10:44:45 AM File Name: H112397-15PR002.dwg Horizontal Scale: 1"=20' Vertical Scale: 1"=4' FELSBURG 4300 South Syracuse Way, Suite 600 Centennial CO 80111 Phone: 303.440.1400 www.felburg.com		DENVER THE MILE HIGH CITY		As Constructed No Revisions: Revised: Void:	KNOX COURT NEIGHBORHOOD BIKEWAY DRAINAGE PROFILES W. CUSTER AVENUE Designer: Detailer: MCL Structure Numbers MCL Numbers Drainage Sheets PR-6 of 10	Project No./Code -- -- Sheet Number 55
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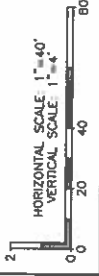
Sheet Revisions		
Date	Comments	Initials

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND DEPTH OF UTILITIES. IT MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



NOTES:

1. INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE. EXISTING STRUCTURES PRIOR TO INSTALLATION OF PROPOSED RCP. ALL COSTS ASSOCIATED WITH THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE WORK.
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Print Date: 6/6/2018 10:46:43 AM

File Name: H112397-15PR003.dwg

Horizontal Scale: 1" = 20' Vertical Scale: N/A

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Centennial, CO 80111
Phone: 303.773.1440
www.FELSBERG.com



Sheet Revisions

Date	Comments	Initials
(B-X)		



DENVER
THE MILE HIGH CITY

As Constructed

No Revisions:	
Revised:	
Void:	

KNOX COURT NEIGHBORHOOD BIKEWAY
DRAINAGE PROFILES
W. VIRGINIA AVENUE

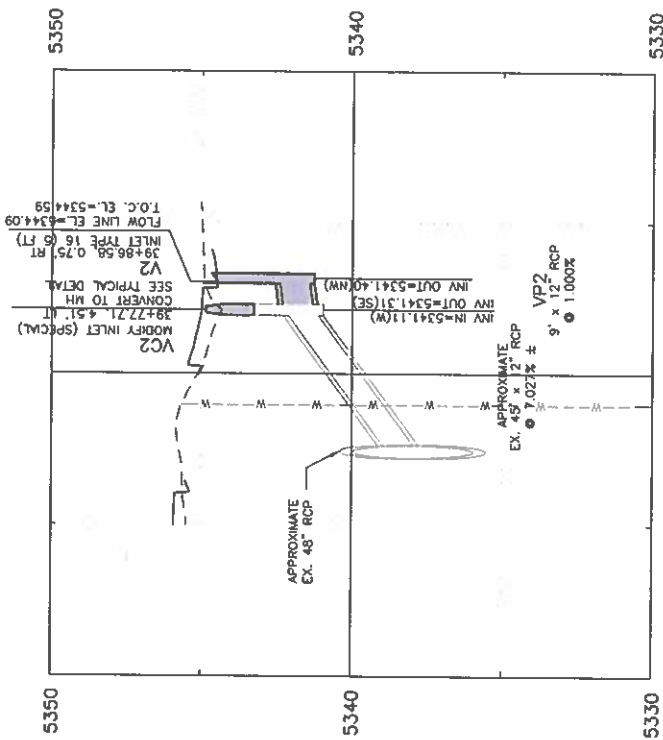
Designer:	MCL Structure
Detailer:	MCL Numbers
Submit:	Drainage Sheets

Project No./Code

PR-7 of 10

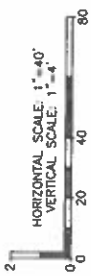
Sheet Number 56

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



NOTES:

1. INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE
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Print Date: 6/6/2018 10:42:14 AM
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 6300 South Syracuse Way, Suite 600
 Centennial, CO 80111
 Phone: 303.426.1144
 www.fhb.com

(B-X) 000

Sheet Revisions

Date	Comments	Initials



As Constructed

No Revisions:
 Revised:
 Void:

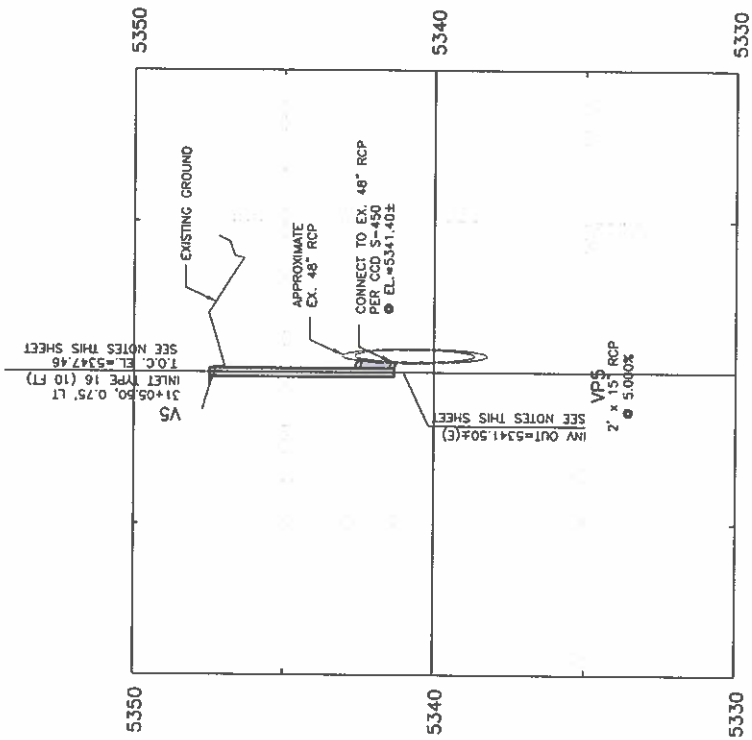
KNOX COURT NEIGHBORHOOD BIKEWAY DRAINAGE PROFILES W. VIRGINIA AVENUE

Designer:	MCL Structure
Detailer:	MCL Numbers
Subst:	Drainage Sheets

Project No./Code

PR-8 of 10
 Sheet Number 57

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



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 FELSBURG
 4300 South Syracuse Way, Suite 600
 Centennial CO 80111
 Phone: 303.723.1440
 www.felb.com

Sheet Revisions	
Date	Comments



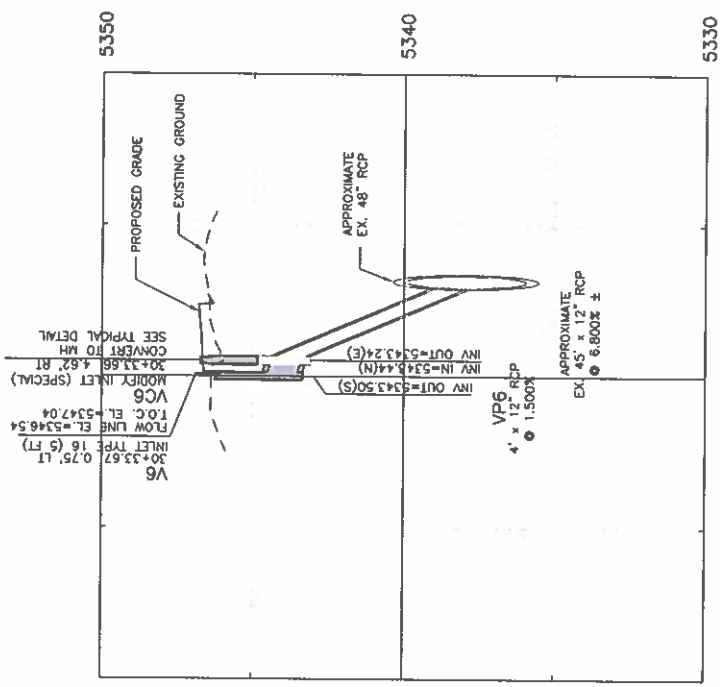
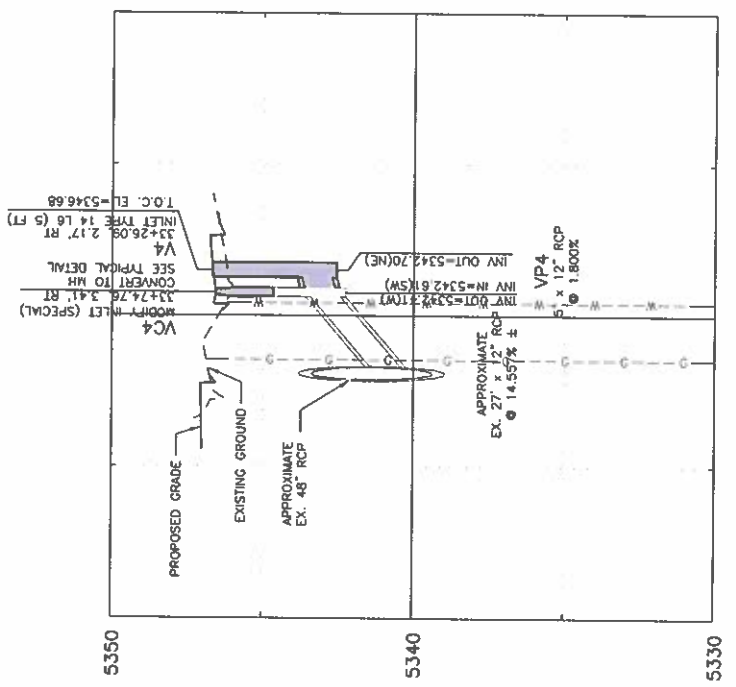
As Constructed
 No Revisions:
 Revised:
 Void:

KNOX COURT NEIGHBORHOOD BIKEWAY
 DRAINAGE PROFILES
 W. VIRGINIA AVENUE
 Designer: MCL Structure
 Detailer: MCL Numbers
 Subset: Drainage Sheets PR-9 of 10
 Project No./Code: -
 Sheet Number: 58

NOTES:

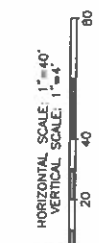
1. INLET STA/OFFSET TO THE CENTER OF THE STRUCTURE
2. CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO INSTALLATION OF THE PROPOSED INLET

UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION OF THE LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



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 Vertical Scale: 1"=4'

Horizontal Scale: N/A
 Vertical Scale: N/A
 AMO South Springs Way, Suite 400
 Centennial CO 80111
 Phone: 303.771.1440
 www.FUENG.com

Sheet Revisions	
Date	Comments
(R-3)	



As Constructed	KNOX COURT NEIGHBORHOOD BIKEWAY	Project No./Code
No Revisions:	DRAINAGE PROFILES	
Revised:	W. VIRGINIA AVENUE	
Void:		
Designer:	MCL Structure	
Detailer:	MCL Numbers	
Subject:		
Drainage Sheets: PR-10 of 10		Sheet Number: 59

CITY AND COUNTY OF DENVER
 DEPARTMENT OF PUBLIC WORKS

PROJECT NO. 201736203
 PROJECT MASTER #201X-PROJMSTR-0000XXX
 KNOX COURT NEIGHBORHOOD
 BIKEWAY BRANDING

INDEX OF SHEETS
 1 TITLE SHEET
 2-9 NEIGHBORHOOD BIKEWAY BRANDING
 SIGNING PLAN



END PROJECT
 KNOX COURT AT
 ALAMEDA AVENUE

BEGIN PROJECT AT
 KNOX COURT AT
 KENTUCKY AVENUE

WRITTEN BY:	DATE:	W. O. ID:	PRIORITY:
APPROVED BY:	DATE:	W. O. ID:	INVEST. SUBJECT:
COMPLETED BY (REQS):	DATE:	W. O. ID:	INVEST. SUBJECT:
COMPLETED BY:	DATE:	W. O. ID:	INVEST. SUBJECT:
INSPECTED BY:	DATE:	W. O. ID:	INVEST. SUBJECT:

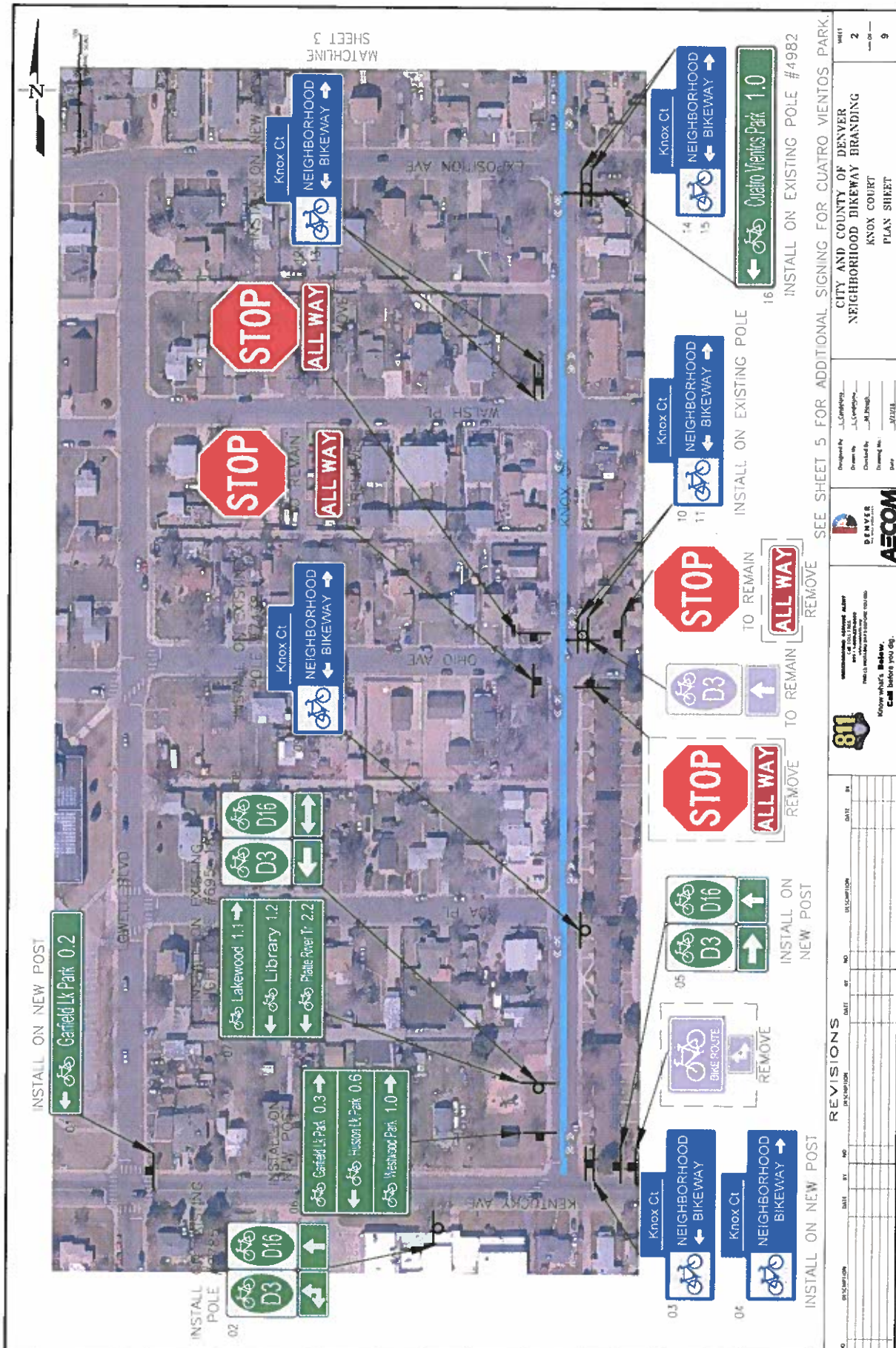
REVISIONS

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY

Requested By: J. Grogan
 Drawn By: J. Grogan
 Checked By: J. Grogan
 Drawing No.:
 Date: 07/20/18

CITY AND COUNTY OF DENVER
 NEIGHBORHOOD BIKEWAY BRANDING
 KNOX COURT
 COVER SHEET

SHEET
 1
 OF
 9



MATCHLINE SHEET 3

INSTALL ON NEW POST

Garfield Ln Park 0.2

INSTALL POLE

D3
D16

Lakewood 1.1
Library 1.2
Palle River Tr. 2.2

Garfield Ln Park 0.3
Hudson Ln Park 0.6
Hudson Park 1.0

Knox Ct
NEIGHBORHOOD BIKEWAY

STOP
ALL WAY

Knox Ct
NEIGHBORHOOD BIKEWAY

STOP
ALL WAY

Knox Ct
NEIGHBORHOOD BIKEWAY

Knox Ct
NEIGHBORHOOD BIKEWAY

BIKE ROUTE
REMOVE

D3
D16

INSTALL ON NEW POST

STOP
ALL WAY
REMOVE

D3
↑

TO REMAIN

STOP
ALL WAY
REMOVE

Knox Ct
NEIGHBORHOOD BIKEWAY

INSTALL ON EXISTING POLE

Knox Ct
NEIGHBORHOOD BIKEWAY

Quatro Vientos Park 1.0

INSTALL ON EXISTING POLE #4982

INSTALL ON NEW POST

REVISIONS

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY



PROPERTY: J. Landwehr
DRAWN BY: J. Landwehr
CHECKED BY: J. Landwehr
DRAWING NO.:
DATE:

CITY AND COUNTY OF DENVER
NEIGHBORHOOD BIKEWAY BRANDING
KNOX COURT
PLAN SHEET

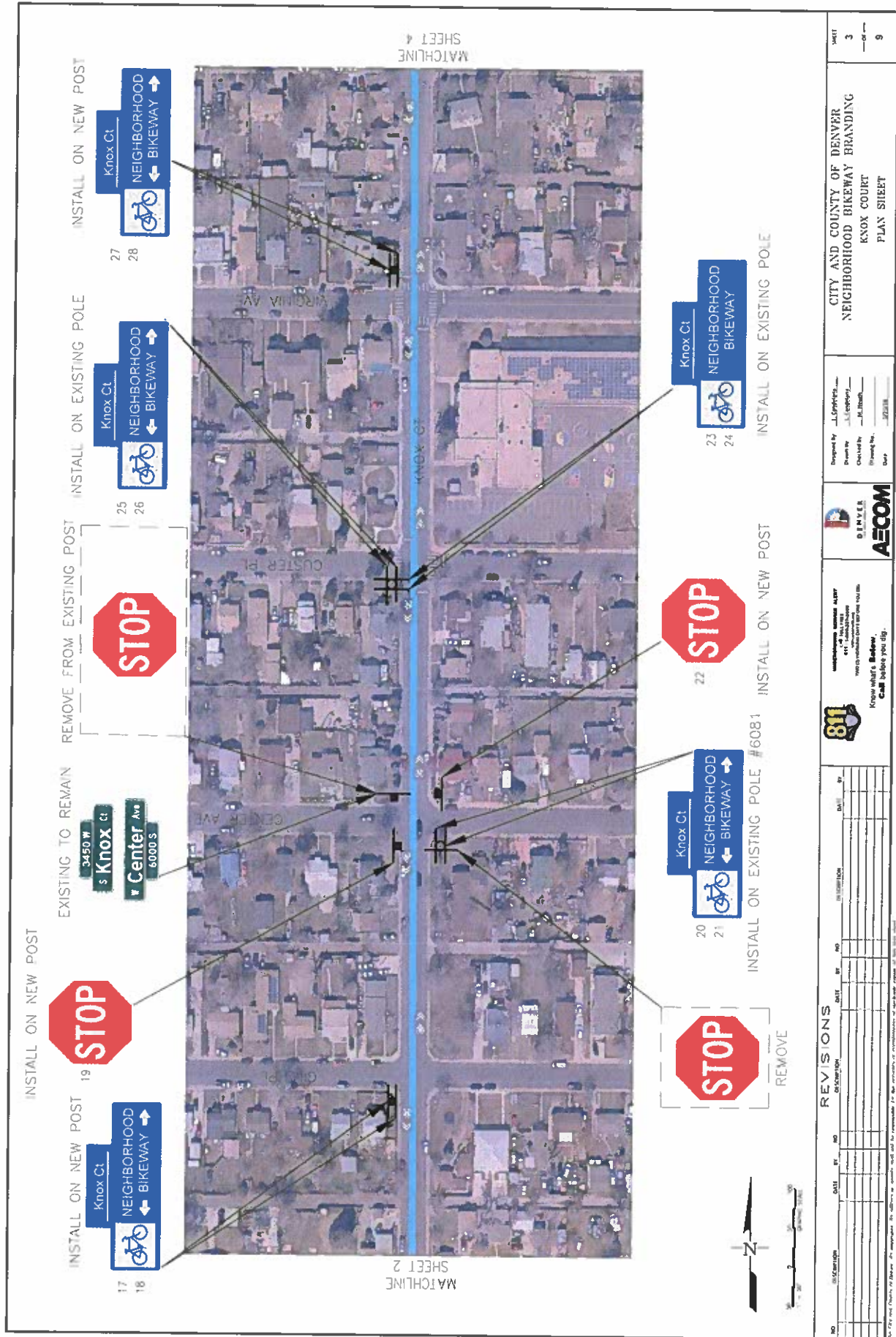
SHEET 2 OF 9



811 Know what's below. Call before you dig.

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY

SEE SHEET 5 FOR ADDITIONAL SIGNING FOR CUATRO VIENTOS PARK.



MATCHLINE SHEET 2

MATCHLINE SHEET 4

INSTALL ON NEW POST



19



17

18

EXISTING TO REMAIN



REMOVE FROM EXISTING POST



STOP

25

26

INSTALL ON EXISTING POLE



25

26

INSTALL ON NEW POST



27

28



STOP

REMOVE



STOP

22



20

21

INSTALL ON NEW POST

INSTALL ON EXISTING POLE #6081

INSTALL ON EXISTING POLE



23

24

INSTALL ON EXISTING POLE

NO.	DATE	BY	NO.	DESCRIPTION	DATE	BY

811
 MISSOURI'S UNIVERSAL ALERT
 Call before you dig.
 Know what's below.

DENVER
AECOM

Prepared by: J. Goffey
 Drawn by: J. Goffey
 Checked by: M. Stroh
 Project No.:
 Date:

CITY AND COUNTY OF DENVER
 NEIGHBORHOOD BIKEWAY BRANDING
 KNOX COURT
 PLAN SHEET

SHEET
 3
 OF
 9

INSTALL ON EXISTING POLE #7781



29

INSTALL ON NEW POST



31

32

INSTALL ON NEW POST



33



34

INSTALL ON EXISTING POLE #8981



35



MATCHLINE SHEET 3



36

INSTALL ON EXISTING POLE #8981



1" = 20'

0 10 20 30 40 50

SHAWNEE STREET

REVISIONS

NO.	DATE	BY	REVISION



811 NEIGHBORHOOD ALERT
 Call before you dig.
 Know what's Below.
 Call before you dig.



Designed By: J. Campbell
 Drawn By: J. Campbell
 Checked By: J. Campbell
 Drawing No.: 123456
 Date: 12/12/12

CITY AND COUNTY OF DENVER
 NEIGHBORHOOD BIKEWAY BRANDING
 KNOX COURT
 PLAN SHEET

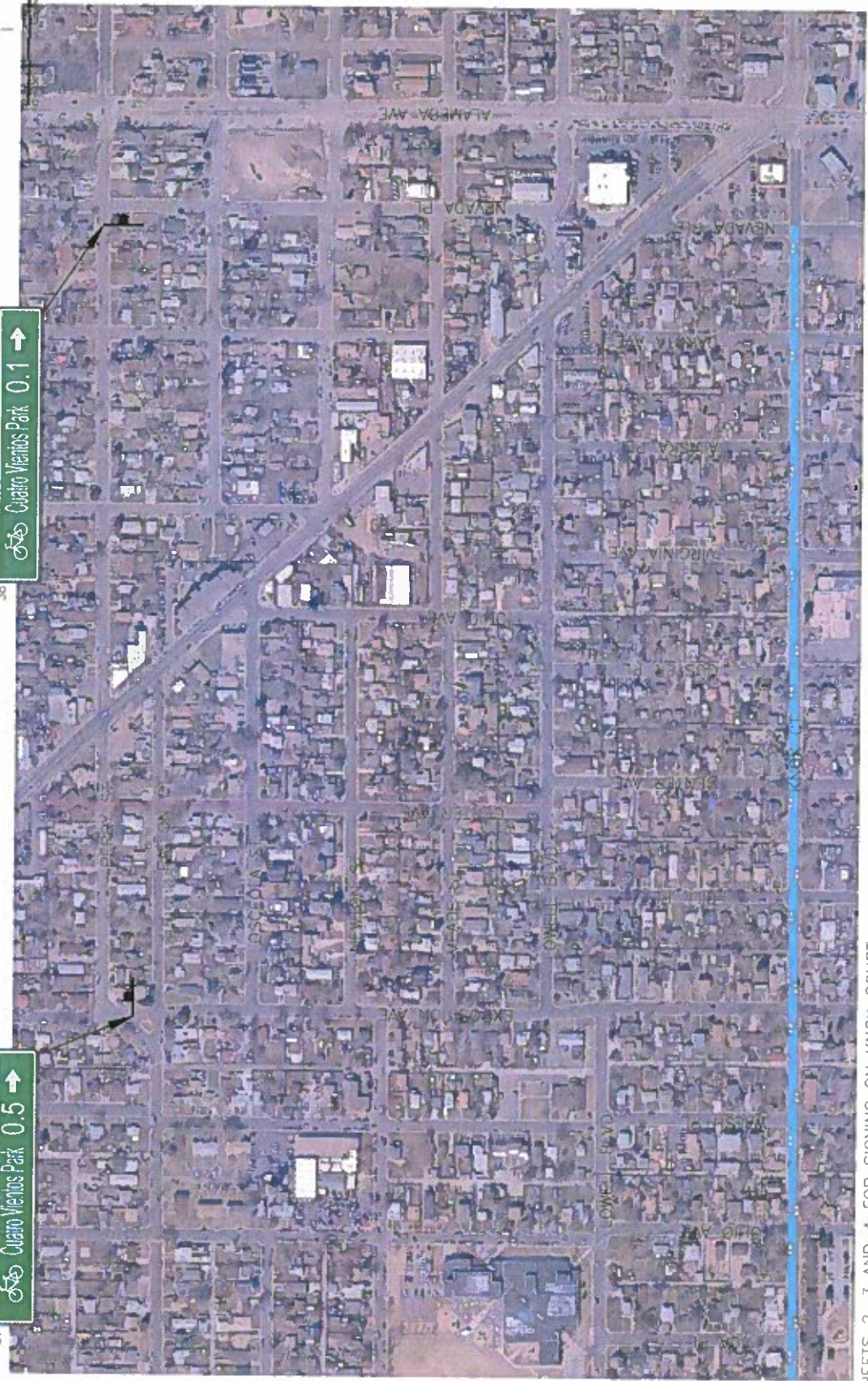
SHEET	NO.
1	4
2	5
3	6
4	7
5	8
6	9

INSTALL ON NEW POST

Cuatro Vientos Park 0.5 →

INSTALL ON NEW POST

Cuatro Vientos Park 0.1 →



SEE SHEETS 2, 3 AND 4 FOR SIGNING ON KNOX COURT.

NO.	DESCRIPTION	DATE	BY	DATE	BY

811
 Know what's Below.
 Call before you dig.

UNIVERSITY MICROFILMS
 300 N ZEEB RD
 ANN ARBOR MI 48106

DENVER
AECOM

Prepared by: J. Campbell
 Drawn by: J. Campbell
 Checked by: M. Smith
 Drawing No.:
 Date: 1/20/11

CITY AND COUNTY OF DENVER
 NEIGHBORHOOD BIKEWAY BRANDING
 KNOX COURT
 PLAN SHEET

SHEET
 5
 OF 8

SUMMARY OF QUANTITIES

ITEM	QUANTITY
REMOVAL OF GROUND SIGN	10 EA
STEEL SIGN POST (2X2 INCH TUBING) (TELSPAR)	124 LF
POLE MOUNT BRACKET (SEE NOTE 5)	19 EA
SHARROW SYMBOL MARKING (22 EA)	2 GAL
SIGN PANEL, CLASS 1	48 SF
SIGN PANEL, (SPECIAL)	29 EA

- NOTES:
1. ASSUMES A MAXIMUM OF 3 SIGNS PER POST.
 2. SIGNS AND SHARROWS SHOWN ARE FOR REFERENCE ONLY. NOT TO SCALE.
 3. QUANTITIES DO NOT INCLUDE SIGNS TO REMAIN.
 4. THE CITY OF DENVER STANDARD DRAWING NO. 18.2.4 FOR PLACEMENT OF SHARROW SYMBOL MARKING IS FOR INFORMATION ONLY. TO BE PAID FOR AS PART OF THE SIGN COST.
 5. POLE MOUNT BRACKET QUANTITY IS FOR INFORMATION ONLY. TO BE PAID FOR AS PART OF THE SIGN COST.

ITEM	MUTCD CODE	DESCRIPTION	QUANTITY
01	M1-8, M1-8, M6-6, M6-3	BICYCLE ROUTE SIGN (GREEN ON WHITE), DIRECTIONAL ARROW (WHITE ON GREEN)	4 SF
02	M1-8, M1-8, M6-1, M6-3	BICYCLE ROUTE SIGN (GREEN ON WHITE), DIRECTIONAL ARROW (WHITE ON GREEN)	4 SF
03	M1-8, M1-8, M6-1, M6-4	BICYCLE ROUTE SIGN (GREEN ON WHITE), DIRECTIONAL ARROW (WHITE ON GREEN)	4 SF
04	D1-1c	BICYCLE DESTINATION (1 LINE) (WHITE ON GREEN)	6 SF
05	D1-2c	BICYCLE DESTINATION (2 LINE) (WHITE ON GREEN)	3 SF
06	D1-3c	BICYCLE DESTINATION (3 LINE) (WHITE ON GREEN)	9 SF
07	SPECIAL	KNOX CT NEIGHBORHOOD BIKEWAY	19 EA
08	SPECIAL	KNOX CT NEIGHBORHOOD BIKEWAY	2 EA
09	SPECIAL	KNOX CT NEIGHBORHOOD BIKEWAY	2 EA
10	SPECIAL	KNOX CT NEIGHBORHOOD BIKEWAY	2 EA
11	R1-1	STOP	18 SF

ITEM: 01 M1-8, M1-8 M6-6, M6-3		ITEM: 02 M1-8, M1-8 M6-1, M6-3		ITEM: 03 M1-8, M1-8 M6-1, M6-4		ITEM: 04 D1-1c		ITEM: 05 D1-2c		ITEM: 06 D1-3c		ITEM: 07 Special		SIZE: 36x14.4	SIZE: 36x14.4
SIZE: 24X24	SIZE: 24X24	SIZE: 24X24	SIZE: 24X24	SIZE: 24X24	SIZE: 36X6	SIZE: 36X12	SIZE: 36X18	SIZE: 36X12	SIZE: 36X18	SIZE: 36X12	SIZE: 36X18	SIZE: 36X14.4	SIZE: 36X14.4	SIZE: 36X14.4	SIZE: 36X14.4
ITEM: 08 Special		ITEM: 09 SPECIAL		ITEM: 10 SPECIAL		ITEM: 11 R1-1						ITEM: 11 R1-1	SIZE: 30X30	SIZE: 30X30	
SIZE: 36x14.4	SIZE: 36x14.4	SIZE: 36x14.4	SIZE: 36x14.4	SIZE: 36x14.4	SIZE: 36x14.4	SIZE: 30X30	SIZE: 30X30					SIZE: 30X30	SIZE: 30X30		

REVISIONS

NO.	DATE	BY	NO.	DESCRIPTION

811
Know what's below. Call before you dig.

UNDESIRABLE SERVICE ALERT
If you are having trouble with your service, call 811.

AECOM
DENVER

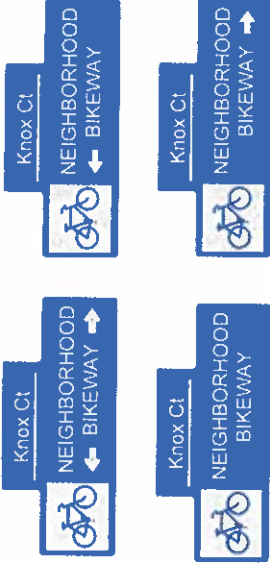
Prepared by: J. L. Stephens
Checked by: M. J. French
Drawing No: 18.2.4
Date: JUNE 11, 2014

CITY AND COUNTY OF DENVER
NEIGHBORHOOD BIKEWAY BRANDING
KNOX COURT
SUMMARY OF SIGN QUANTITIES

36 x 6



36 x 14.4



36 x 12



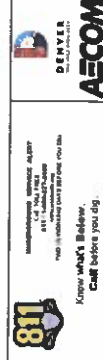
36 x 18



811
 Metropolitan District 811
 Know what's below. Call before you dig.

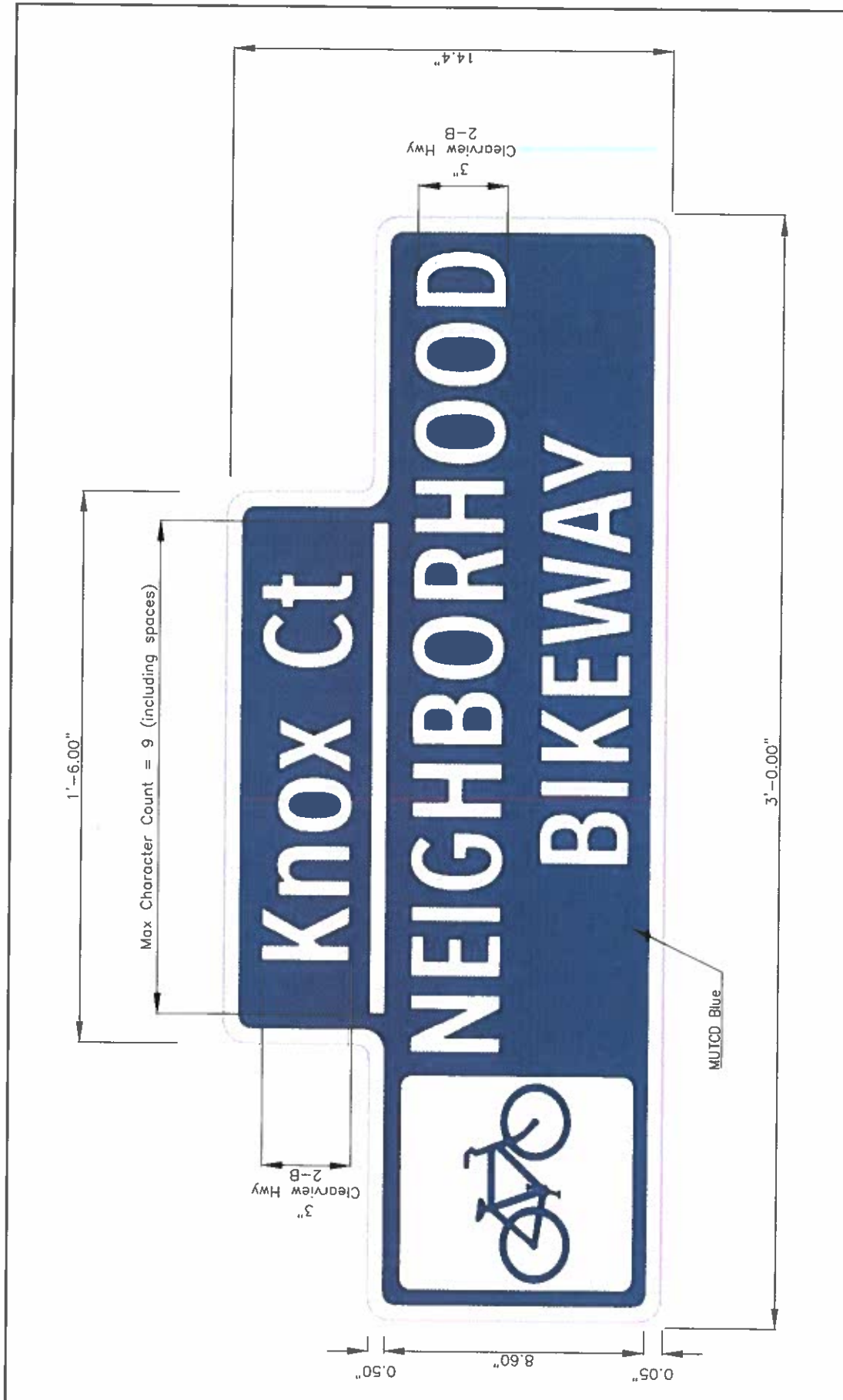
REVISIONS

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY



Designed by: L. Poppo
 Drawn by: L. Poppo
 Checked by: M. Singh
 Drawing No.: 22034
 Date: 12/13/13

CITY AND COUNTY OF DENVER
 NEIGHBORHOOD BIKEWAY BRANDING
 KNOX COURT
 SPECIAL SIGNS



NO.		DESCRIPTION		DATE	BY	NO.	DATE	BY	NO.	DESCRIPTION	DATE	BY

REVISIONS

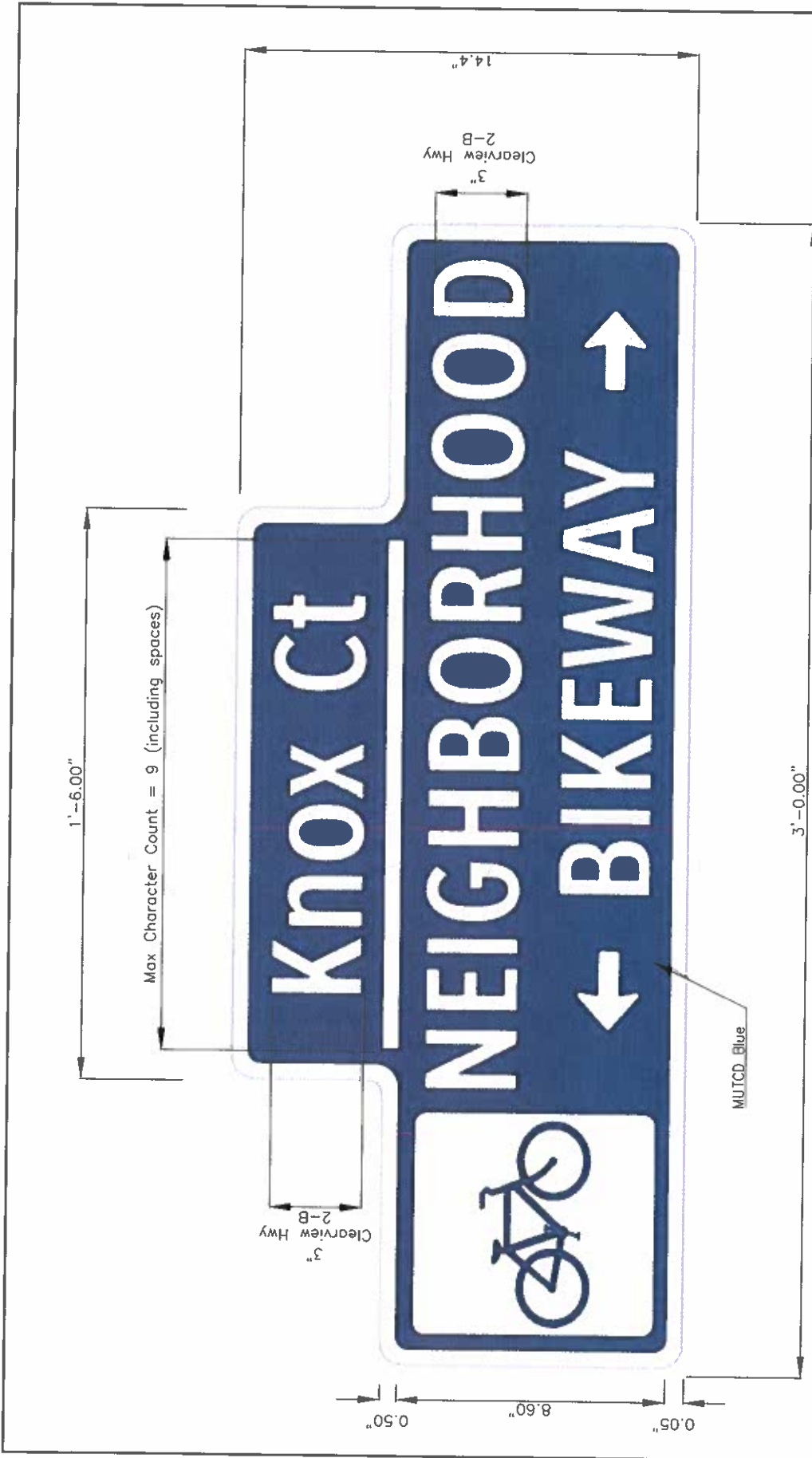
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STAY SAFE
 AECOM

DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____
 DATE: _____

CITY AND COUNTY OF DENVER
 NEIGHBORHOOD BIKEWAY BRANDING
 KNOX COURT
 SPECIAL SIGNS

SHEET 8 OF 9



1'-6.00"

Max Character Count = 9 (including spaces)

14.4"

3"
Clearview Hwy

3"
Clearview Hwy

MUTCD Blue

3'-0.00"

REVISIONS

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY



MISSOURI'S EMERGENCY ALERT SYSTEM
811
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Designed By: J. Greenfield
Drawn By: J. Greenfield
Checked By: M. Smith
Permitted By: J. Smith
Date: 8/18/16

CITY AND COUNTY OF DENVER
NEIGHBORHOOD BIKEWAY BRANDING
KNOX COURT
SPECIAL SIGNS

SHEET
9
OF
9

REFERENCE NO.	CONTRACT ITEM NO.	CONTRACT ITEM - BID ALTERNATE	UNIT	MORRISON RD AT WALSH PLACE										PROJECT TOTALS	
				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
202		REMOVAL OF INLET	EACH	1											1
202		REMOVAL OF SIDEWALK	SY	26											26
202		REMOVAL OF CURB AND CUTTER	LF	90											90
202		REMOVAL OF CONCRETE CURB RAMP	SY	4											4
202		REMOVAL OF ASPHALT MAT	SY	58											58
202		REMOVAL OF GROUND SIGN (SPECIAL)	EACH	1											1
210		RESET MONUMENT	EACH	1											1
403		HOT MIX ASPHALT (PATCHING)(ASPHALT)	TON	12											12
603		18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	22											22
604		OOD SINGLE NO. 14 INLET L9 (5 FT)	EACH	1											1
604		OOD TYPE B MANHOLE (5 FT)	EACH	1											1
606		CONCRETE SIDEWALK (6 INCH)	SY	51											51
608		CONCRETE CURB RAMP	SY	13											13
609		6" CURB AND CUTTER - 2' CATCH PAN	LF	95											95

Print Date: 2/14/2019 1:44:10 PM
 File Name: G112197-155A001.dwg
 Horizontal Scale: NTS Vertical Scale: NTS
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FELSBERG HOLT & ULLEY

DENVER
THE MILE HIGH CITY

KNOX COURT NEIGHBORHOOD BIKEWAY SUMMARY OF APPROXIMATE QTY'S (BID ALTERNATE)

As Constructed: _____
 No Revisions: _____
 Revised: _____
 Void: _____

Designer: JJD Structure
 Detailer: JJD Numbers
 Subst: Roadway Sheets: BA-1 of 5

Project No./Code: _____
 Sheet Number: 69

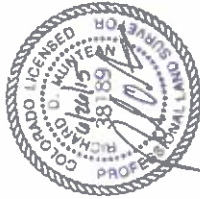
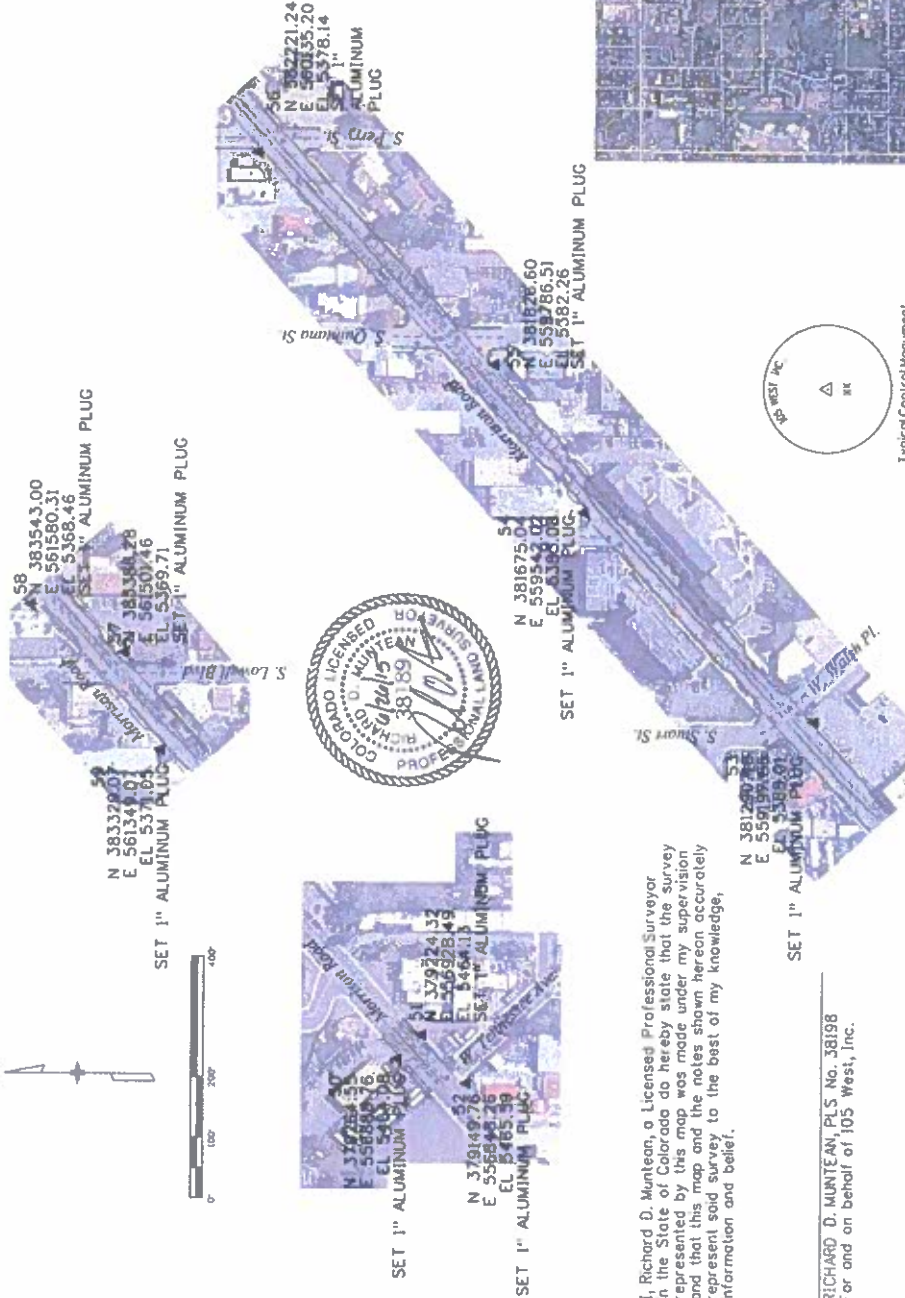
COORDINATE DATUM: Project coordinates are based on the following City and County of Denver Mapping Projection:

Project Mapping Projection
 Projection: User-Defined Transverse Mercator
 Zone: CCD-Local
 CentralPoint False Northing = 400,000.00
 CentralPoint False Easting = 600,000.00
 Latitude of Origin = N39°45'19.000000"
 CentralMeridian = W104°53'53.000000"
 Zone Width = 6°0'00.0"
 Scale Factor at Origin = 1.00025403000
 Units are US Survey Feet

NOTES

1. This Project Control Diagram is not a boundary survey of the adjoining property.
2. PROJECT BENCHMARK: Elevations are based on CCD benchmark "GJA" a CCD brass cap located in the top of curb at the SE corner of Sheridan Ave. and Mississippi Ave. NAVD '88 Elevation = 5455.86'
3. UNITS: Project coordinates and elevations shown hereon are U.S. Survey Feet.
4. According to Colorado State law you must commence any 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 from the date of the certification shown hereon.

Vicinity Map
 N.T.S.



I, Richard D. Muntean, a Licensed Professional Surveyor in the State of Colorado do hereby state that the survey represented by this map was made under my supervision and that this map and the notes shown hereon accurately represent said survey to the best of my knowledge, information and belief.

RICHARD D. MUNTEAN, PLS. No. 38189
 For and on behalf of 105 West, Inc.

Print Date: 6/17/2015		File Name: Morrison Rd. Project Control Diagram		Project No./Code	
Horizontal Scale: 1"=200'		Vertical Scale: 1"=200'		XX	
105WEST INCORPORATED 2140 S. Harbor Bl., Suite 04, Denver, CO 80222 Tel: 303.658.4491		DENVER THE MILE HIGH CITY		XX	
Sheet Revisions		As Constructed		Denver Street Improvements	
(E-X)	Date	Morrison Road		Survey Control Diagram	
	Comments	No Revisions:		Designer:	
	Initials	Revised:		Structure Numbers	
		Void:		Drawer:	
				Sheet: _____ of _____	
				Structure: _____	
				Sheet Number: 70	

POINT DATA

POINT	NORTHING	EASTING	DESCRIPTION
PT-42	381258.57	559156.34	SAWCUT (MATCH EXISTING)
PT-43	381261.52	559153.65	SAWCUT (MATCH EXISTING)
PT-44	381264.88	559157.35	SAWCUT (MATCH EXISTING)
PT-45	381272.60	559162.34	SAWCUT (MATCH EXISTING)
PT-46	381282.20	559168.62	SAWCUT (MATCH EXISTING)
PT-47	381306.33	559195.74	SAWCUT (MATCH EXISTING)
PT-48	381306.33	559195.74	SAWCUT (MATCH EXISTING)
PT-49	381306.33	559195.74	SAWCUT (MATCH EXISTING)
PT-50	381298.92	559212.70	SAWCUT (MATCH EXISTING)
PT-51	381295.81	559223.12	SAWCUT (MATCH EXISTING)
PT-52	381299.02	559226.46	SAWCUT (MATCH EXISTING)
PT-53	381301.75	559229.38	SAWCUT (MATCH EXISTING)
PT-54	381304.90	559226.45	SAWCUT (MATCH EXISTING)
PT-163	381261.93	559160.04	6" CURB AND GUTTER-2' PAN
PT-164	381271.36	559166.14	6" CURB AND GUTTER-2' PAN
PT-165	381279.21	559171.28	6" CURB AND GUTTER-2' PAN
PT-166	381294.38	559188.33	CENTER OF CONCRETE CURB RAMP
PT-167	381303.34	559198.40	6" CURB AND GUTTER-2' PAN
PT-168	381306.56	559217.17	CENTER OF CONCRETE CURB RAMP
PT-169	381302.17	559233.53	6" CURB AND GUTTER-2' PAN

Print Date: 6/6/2018 10:36:34 AM
 File Name: BA-D12397-03A101-Morrison.dwg
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 Centennial, CO 80111
 Phone: 303.721.1440
 www.HOLSBJURG.com



KNOX COURT NEIGHBORHOOD BIKEWAY | Project No./Code
POINT DATA | -
 (BID ALTERNATE)

As Constructed
 No Revisions:
 Revised:
 Void

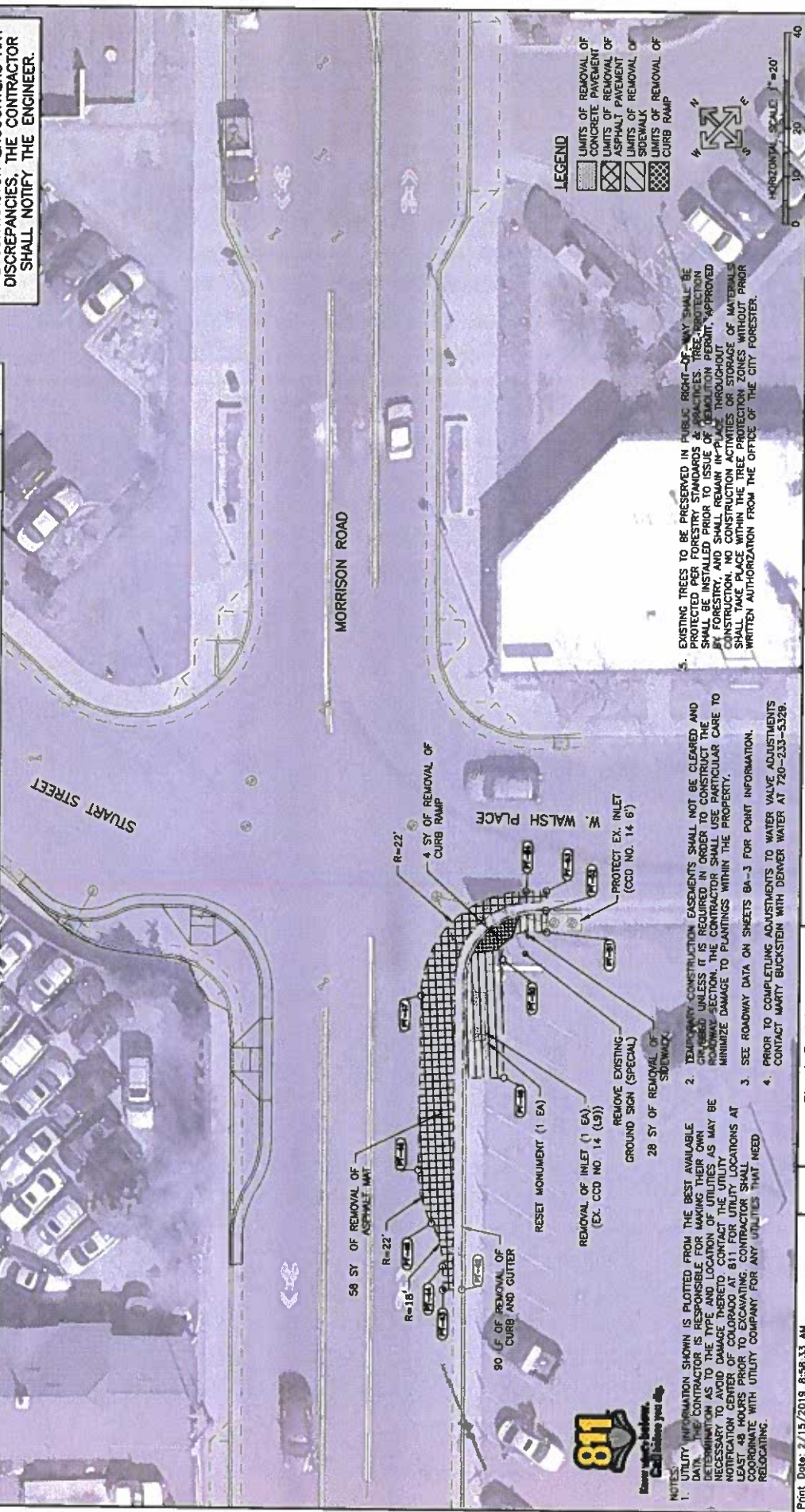
Designer:
 Detailer:
 Subset:

LCL Structure Numbers
 KJH/SED Numbers
 Roadway Sheets: BA-3 of 5

Sheet Number 71

EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

KEY	CONTRACT ITEM	UNIT	QUANTITY	KEY	CONTRACT ITEM	UNIT	QUANTITY
	REMOVAL OF SIDEWALK	SY	28		RESET MONUMENT	EA	1
	REMOVAL OF CURB AND GUTTER	LF	90		REMOVAL OF INLET	EA	1
	REMOVAL OF ASPHALT MAT	SY	58		REMOVAL OF GROUND SIGN (SPECIAL)	EA	1
	REMOVAL OF CURB RAMP	SY	4				



EXISTING TREES TO BE PRESERVED IN PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED PER FORESTRY STANDARDS & SPECIFICATIONS. TREE PROTECTION SHALL BE INSTALLED PRIOR TO ISSUE OF DEMOLITION PERMIT. APPROVED BY FORESTRY, AND SHALL REMAIN IN-PLACE THROUGHOUT CONSTRUCTION ACTIVITIES OR STORAGE OF MATERIALS. SHALL TAKE PLACE WITH PROTECTION ZONES WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OFFICE OF THE CITY FORESTER.

- NOTES:
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THEREOF. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND PROTECTED UNLESS IT IS REQUIRED UNDER THE LOCAL PUBLIC WORKS BYLAWS TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 - SEE ROADWAY DATA ON SHEETS BA-3 FOR POINT INFORMATION.
 - PRIOR TO COMPLETING ADJUSTMENTS TO WATER VALVE ADJUSTMENTS CONTACT MARY BUCKSTEIN WITH DENVER WATER AT 720-233-5328.

Print Date: 2/15/2019 8:58:33 AM
 File Name: BA-012397-03REM02-Morrison.dwg
 Horizontal Scale: Vertical Scale:
 DENVER THE MILE HIGH CITY
 FELSBURG HOLT & ULLEVIG
 6000 South Syracuse Way, Suite 600
 Centennial, CO 80111
 Phone: 303.721.4400
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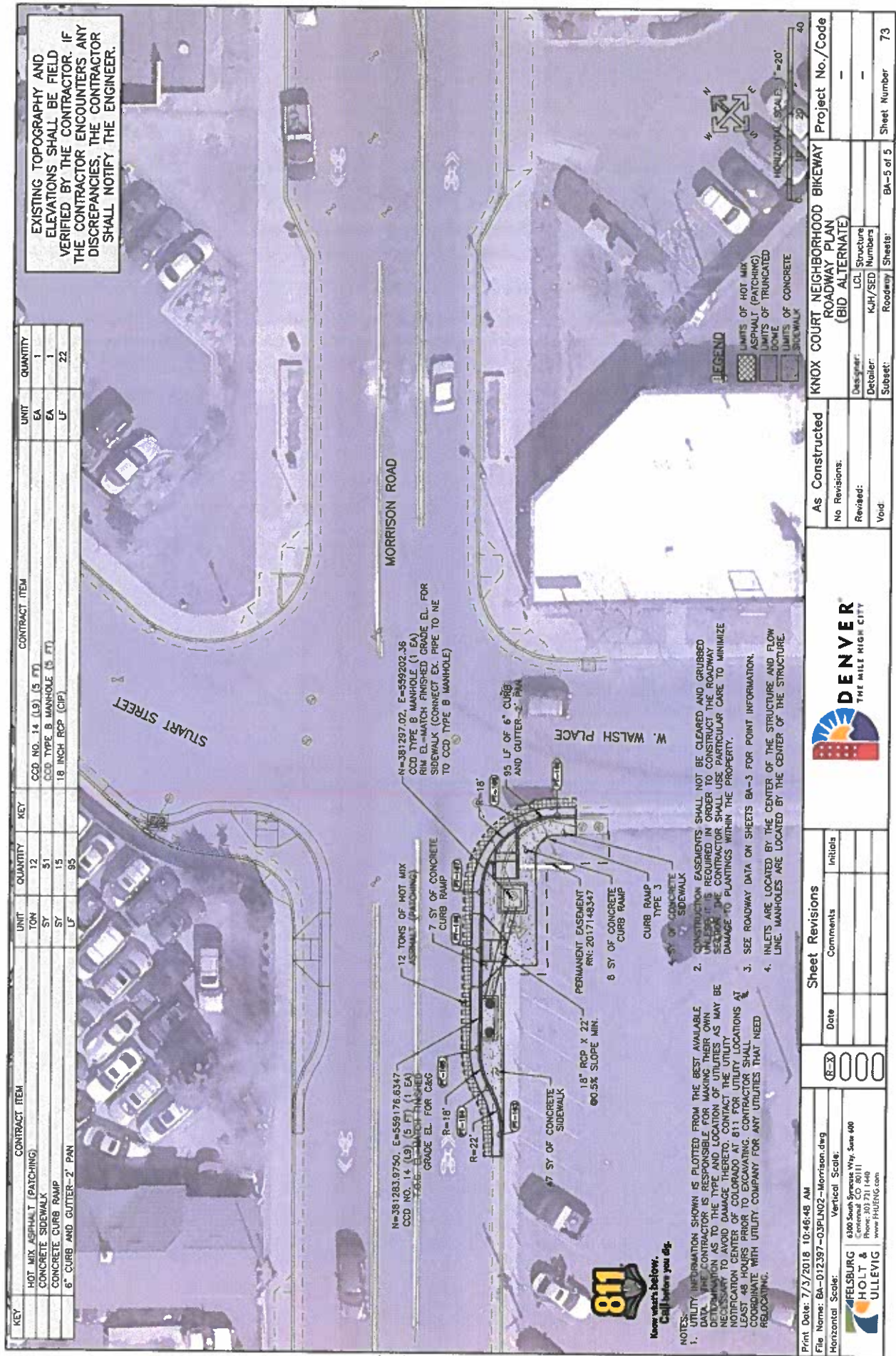
As Constructed
 No Revisions
 Revised:
 Void:

Project No./Code: --
 Designer: LCL Structures
 Detailer: KJH/SED Numbers
 Subst.: Removal Sheets: BA-4 of 5
 Sheet Number: 72

Sheet Revisions
 Date
 Comments
 Initials

KEY	CONTRACT ITEM	UNIT	QUANTITY	KEY	CONTRACT ITEM	UNIT	QUANTITY
	HOT MIX ASPHALT (PATCHING)	TON	12		CCD NO. 14 (L9) (5 FT)	EA	1
	CONCRETE SIDEWALK	SY	51		CCD TYPE B MANHOLE (5 FT)	EA	1
	CONCRETE CURB RAMP	SY	15		18 INCH RCP (CIP)	LF	22
	6" CURB AND GUTTER-2' PAN	LF	95				

EXISTING TOPOGRAPHY AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.



- NOTES:**
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION AS TO THE TYPE AND LOCATION OF UTILITIES. IF NECESSARY TO AVOID DAMAGE THERETO, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
 - CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 - SEE ROADWAY DATA ON SHEETS BA-3 FOR POINT INFORMATION.
 - INLETS ARE LOCATED BY THE CENTER OF THE STRUCTURE AND FLOW LINE. MANHOLES ARE LOCATED BY THE CENTER OF THE STRUCTURE.

KNOX COURT NEIGHBORHOOD BIKEWAY ROADWAY PLAN (BID ALTERNATE)		Project No./Code	-
Designer:	LCL Structure		
Detailer:	K/JH/SED Numbers		
Subject:	Roadway Sheets	BA-5 of 5	Sheet Number 73

As Constructed

No Revisions: _____

Revised: _____

Void: _____

Sheet Revisions	
Date	Comments

Print Date: 7/3/2018 10:46:48 AM

File Name: BA-012397-03PLN02-Morrison.dwg

Horizontal Scale: Vertical Scale:

6300 South Syracuse Way, Suite 400
Centennial, CO 80111
Phone: 303.721.1446
www.FHUE.com

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Construction Plan Set 07b



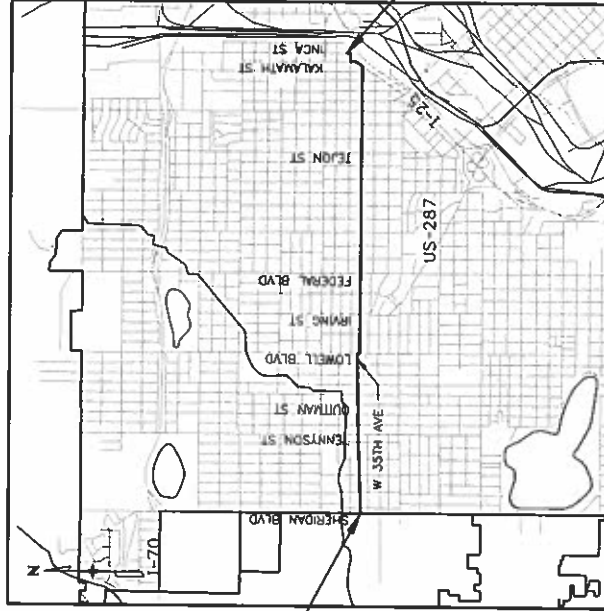
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CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS

PROJECT NO. 201627886-00
PROJECT MASTER #2015-PROJMSTR-0000657
35th AVENUE NEIGHBORHOOD BIKEWAY

INDEX OF SHEETS

- 1 TITLE SHEET
- 2-5 GENERAL NOTES
- 6 SUMMARY OF APPROXIMATE QUANTITIES
- 7 ROADWAY TABULATIONS
- 8-9 SURVEY CONTROL, PERPETUATION DIAGRAM
- 10-12 TREE PROTECTION, DETAIL AND NOTES
- 13 TREE REMOVAL PLANS
- 14-16 ROADWAY DETAILS
- 17-21 INTERSECTION PLANS
- 22-24 DRAINAGE PROFILE
- 25 SIGNING TABULATION
- 26-29 STRIPING TABULATION
- 30 STRIPING AND STRIPING PLAN
- 31-33



BEGIN PROJECT
35th AVENUE AT
SHERIDAN BOULEVARD
STA 101+93.82

END PROJECT
JASON STREET AT INCA STREET TRAIL

SIGNATURE BLOCK

Executive Director of Public Works
 City Engineer
 Director of Capital Projects
 City Traffic Engineer
 Special Business Opportunity Division

Print Date: 1/8/2019 12:27 PM	As Constructed	No Revisions: Revised: Void:	DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	DEPARTMENT OF PUBLIC WORKS 35th AVENUE NEIGHBORHOOD BIKEWAY	Project Number 201627886
File Name: 27886-TS.DWG	Designer: M. KRELL Detailer: L. BUSANSKY Structure Numbers Sheet Subject: TITLE Subsect Sheets: 1 of 1				
City Project Manager AECOM 8200 South Quebec Street Greenwood Village, CO 80111 Phone: 303-894-8770	DENVER <small>THE MILE HIGH CITY</small>	0000			



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GENERAL NOTES

- ALL PAVEMENT MARKINGS SHALL BE INSTALLED ON A CLEAN SURFACE, AS CALLED FOR BY THE RESPECTIVE MANUFACTURERS. BEFORE APPLYING NEW PAVEMENT MARKINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING MARKINGS FROM THE ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING MARKINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE ANY MEANS NECESSARY TO ENSURE PROPER PREPARATION OF THE SURFACE SHALL BE INCLUDED IN THE COST OF THE MATERIAL. PRIOR TO THE PAVEMENT BEING PREPARED FOR STAGING, THE CONTRACTOR SHALL REVIEW SECTION 107.25 AND ALL OF SECTION 208, IN THE 2011 CDDOT STANDARD SPECIFICATIONS BOOK.
- PAVEMENT MARKINGS SHALL BE REMOVED FROM THE PAVEMENT TO THE MAXIMUM EXTENT POSSIBLE BY METHODS THAT DO NOT ALTER OR DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT TO THE SATISFACTION OF THE ENGINEER. PAVEMENT MARKING SHALL BE REMOVED FROM THE ROADWAY BY EITHER WATER BLASTING OR WATER BLASTING METHODS ONLY. GRINDING WILL ONLY BE ALLOWED WITH PRIOR APPROVAL FROM THE ENGINEER. MARKING SHALL BE IN ACCORDANCE WITH SECTION 202.05. ALL MATERIAL ON EXISTING ROADWAY WHICH IS LOANED IN THE PROCESS OF PREPARATION OF THE SURFACE FOR STRIPING, NEEDS TO BE CLEARED OFF THE ROADWAY (SWEEPING (PICK-UP BROOM)) IMMEDIATELY. MATERIAL TO BE ADDED FOR SEPARATELY. NONE OF THE MATERIAL OR THE WATER USED TO PREPARE THE SURFACE SHALL BE ALLOWED TO RUN OFF TO ANY ADJACENT AREAS. THE CONTRACTOR SHALL VEGETATIVE STAKE, WATERWAY, STREAM, WETLAND OR ADJACENT PROPERTY. IF RUNOFF OCCURS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK UNTIL INLET PROTECTION CAN BE INSTALLED TO PROTECT THE STORM DRAIN SYSTEM, VEGETATIVE SWALE, WATERWAY, STREAM, WETLAND OR ADJACENT PROPERTY. ANY PROTECTION SHALL BE INCLUDED IN THE COST OF THE PROJECT AND APPROVED BY THE ENGINEER PRIOR TO USE.
- DAYS PRIOR TO WORK COMMENCING, THE CONTRACTOR'S POTENTIAL POLLUTION REPORT-SPILL CONTINGENCY PREVENTION PLAN SHALL BE CORDED AND TITLED TO THIS PER SECTION 107.25. VEHICLE CLEANING MAY OCCUR ON SITE, IN APPROVED AREA, WHERE WASTE WATER CAN BE CONTAINED AND PROPERLY DISPOSED OF.
- THERE SHALL BE NO STOCKPIILING OR SIDE CASTING OF WASTE MATERIALS INCLUDING BUT NOT LIMITED TO PAINT CHIPS, ASPHALT, AND CONCRETE ADJACENT TO ANY STATE WATERS THAT RESULT FROM PROJECT ACTIVITIES.
- CONTAMINATION AND CLEAN UP OF EQUIPMENT FUEL, OIL AND LUBRICANTS: CONTRACTOR SHALL INSPECT AND CERTIFY EQUIPMENT AND VEHICLES DAILY TO ENSURE PETROLEUM, OILS AND LUBRICANTS (POL) ARE NOT LEAKING ONTO THE SOIL OR PAVEMENT. ORIGINAL OR REPAIRS APPROVED BY THE ENGINEER SHALL BE USED TO PREVENT LEAKING POL FROM REACHING THE SOIL OR PAVEMENT. CONTAMINATION OF THE SURFACE SHALL BE IMMEDIATELY REMEDIATED TO THE SATISFACTION OF THE ENGINEER. CONTAIN ANY LEAK POL THAT CAN REASONABLY BE EXPECTED. CONTAMINATION OF THE SURFACE FROM POL LEAKAGE CONTROL AND CLEANUP SHALL BE THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE. THE CONTRACTOR SHALL CONTROL AND CLEANUP OF POL LEAKS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- THE CONTRACTOR SHALL NEITHER STAGE OR PARK EQUIPMENT AT ANY TIME OFF THE ROADWAY/SHOULDER OR ON VEGETATED AREAS, ON PRAIRIE DOG HOLES, OR WITHIN 300 FEET OF WATERWAYS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR STAGING AREAS. THE CONTRACTOR SHALL COMPLETE WORK IN ONE LOCATION BEFORE THEY MOVE TO ANOTHER LOCATION. FOR GRINDING THE CONTRACTOR SHALL USE CHANGE STACKED DIAMOND TIP BLADES AND HAVE A VACUUM MACHINE ON SITE TO CONTROL DUST AND SLURRY. THIS ITEM WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE. LIMITS OF DISTURBANCE SHALL BE DETERMINED BY THE ENGINEER AND THE CONTRACTOR. ANY DISTURBANCES BEYOND THESE LIMITS SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. DISTURBANCES WITHIN THE LIMITS SHALL BE RESTORED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF THE WORK. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. ANY OFF ROAD STAGING AREAS MUST BE PRE-APPROVED BY THE ENGINEER.
- NO OFF ROAD PARKING, STAGING OR WORK SHALL OCCUR AT ANY IRRIGATED LANDSCAPES. THE CONTRACTOR SHALL REPLACE ANY DAMAGED LANDSCAPE, INCLUDING GRASS, IRRIGATION SYSTEM COMPONENTS, TREES SHRUBS AND GROUND COVER TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. SOD SHALL MATCH EXISTING. THE CONTRACTOR SHALL COORDINATE WITH CITY AND COUNTY OF DENVER PERSONNEL AT LEAST 5 WORKING DAYS IN ADVANCE OF ANY DISTURBANCE IN THE AREA. NO WORK SHALL BE WITHOUT WATERING SERVICES DURING THE GROWING SEASON. IF THE IRRIGATION SERVICE IS INTERRUPTED FOR MORE THAN THREE DAYS, THE CONTRACTOR SHALL BE LIABLE TO HAND TRUCK WATER. IF IRREPARABLE DAMAGE TO LANDSCAPED AREAS OCCURS, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL PLANT REPLACEMENT IN THE AFFECTED AREA. LANDSCAPE RESTORATION SHALL BE COORDINATED WITH THE LANDSCAPE AND IRRIGATION SYSTEM IS RESTORED TO ITS ORIGINAL CONDITION AND APPROVED BY THE MAINTAINING PERSONNEL. THE CONTRACTOR SHALL NOT REMOVE ANY IRRIGATION COMPONENTS, SHALL BE INSPECTED BY THE CITY AND COUNTY OF DENVER LANDSCAPE MAINTENANCE FORCES PRIOR TO BURIAL AND ACCEPTANCE OF SAID WORK.
- THE CONTRACTOR SHALL COORDINATE WITH JOHN YU OF PW-TRAFFIC ENGINEERING SERVICES AT 720-865-3176 AND UNDESY VAN CLEAVE FROM PW-STREET MAINTENANCE AT 303-446-3548 PRIOR TO CONSTRUCTION AT ALL PROJECT INTERSECTIONS. THE CONTRACTOR SHALL CONTACT PW-CONSTRUCTION ENGINEERING AT 303-446-3469 FOR STREET OCCUPANCY PERMIT WITH MHT AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
- ALL CITY & COUNTY OF DENVER (CCD) STORM AND/OR SANITARY SEWERS, INCLUDING MANHOLE ADJUSTMENTS, ARE TO BE INSPECTED BY CCD MANHOLE INSPECTOR PRIOR TO THE PRECONSTRUCTION AND PRIOR TO STARTING ANY WORK. SEWER LOCATES CAN BE REQUESTED BY CALLING 303-446-3744. ALL CCD STORM AND/OR SANITARY SEWERS MUST BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CCD-WASTEWATER MANAGEMENT DIVISION (WMD) STANDARD DETAILS AND SPECIFICATIONS.
- ALL CITY & COUNTY OF DENVER (CCD) STORM DRAIN AND SANITARY PIPES AND APPURTENANCES SHALL BE PROTECTED AT ALL TIME.

PAVEMENT, CURB AND GUTTER, SIDEWALK AND CURB RAMPS:

- UNLESS OTHERWISE NOTED, ALL STATIONS AND OFFSETS, DIMENSIONS AND ELEVATIONS AT THE CURB AND GUTTER ARE TO THE FLOWLINE. ALL CURB RAMP NORTHING/EASTINGS OR STATIONS AND OFFSETS ARE TO THE FLOWLINE.
- ANY LAYER OF HMA PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULLY BEFORE SUCCEEDING LAYER IS PLACED.
- REMOVAL OF ASPHALT MAT, CONCRETE PAVEMENT, CURB AND GUTTER, OR SIDEWALK REQUIRED ON THIS PROJECT SHALL BE SAW CUT TO A VERTICAL EDGE. SAW CUTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. REMOVAL LIMITS FOR SIDEWALK AND CURB & GUTTER SHALL BE TO THE NEAREST JOINT.
- HMA (PATCHING/ASPHALT) SHALL BE 9" THICK OR MATCH THE DEPTH OF THE SURROUNDING EXISTING PAVEMENT, WHICHEVER IS GREATER, AND APPROVED BY THE ENGINEER. HMA FOR PATCHING SHALL CONFORM TO THE GRADATION REQUIREMENTS FOR HOT MIX ASPHALT (GRADING SV)(75)(PG 64-22) FOR THE TOP LIFT AND HOT MIX ASPHALT (GRADING S)(75)(PG 64-22) FOR THE MIDDLE AND BOTTOM LIFTS. ASPHALT PATCHING SHALL FOLLOW CCD STANDARD DRAWINGS 12.0 THOUGH 12.5B, WHICH ARE AVAILABLE ON THE CCD WEB SITE.
- FOR PLAN QUANTITIES OF HMA MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
 DILUTED EMULSIFIED ASPHALT (SLOW SETTING) AT 0.10 GAL PER SQ. YD. (DILUTED)
 AT 110 LBS. PER SQ. YD. PER 1" THICKNESS
 HOT MIX ASPHALT
- A TACK COAT OF EMULSIFIED ASPHALT (SLOW-SETTING) IS REQUIRED BETWEEN LIFTS OF BITUMINOUS PAVEMENT. DILUTED EMULSIFIED ASPHALT FOR TACK SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER. EMULSIFIED ASPHALT WORK SHALL BE INCLUDED IN THE COST OF THE HMA WORK.
- RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.
- CONCRETE FOR SIDEWALKS, CURB RAMPS AND CONCRETE PAVEMENT SHALL BE CLASS P WITH 4500 PSI AT 28 DAYS AND CDOT 601.04 CLASS 2 SULFATE MITIGATION.
- ANY CURB AND GUTTER, ASPHALT OR CONCRETE PAVEMENT WHICH IS TO REMAIN AND IS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL CONCRETE ON THIS PROJECT SHALL USE COMPRESSIVE STRENGTH ACCEPTANCE CRITERIA

EARTHWORK

- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE ORDERED AND WILL NOT BE PAID FOR SEPARATELY.
- DEPTH OF MOISTURE - DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS:
 FILL DEPTHS AND BANKMENTS
 BASES OF CUTS AND FILLS = 6 INCHES.
- RECONDITIONING FOR SIDEWALKS, CURB RAMPS, CURB AND GUTTER, AND MEDIAN COVER SHALL BE 6 INCHES OR AS OTHERWISE SHOWN.
- EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
- EARTHWORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT WILL BE INCIDENTAL TO THE PAVEMENT, CURB AND GUTTER AND SIDEWALK.
- ALL SOIL SUBGRADE FOR PATCH-BACK ALONG CURB & GUTTER, CONCRETE PAVEMENT, SIDEWALK AND MEDIAN COVER SHALL BE PROOF ROLLED BY THE CONTRACTOR TO FIND ANY UNSUITABLE AREAS OF SUPPORT.
- THE INSPECTOR MAY ALLOW HAND OPERATED COMPACTION EQUIPMENT, SUCH AS JUMPING JACK OR HEAVY ROLLER, FOR PROOF ROLLING, OR FOLLOW CDDOT 203.09 CRITERIA, IN TIGHT SPACES DEPENDING ON THE SIZE OF THE CONSTRUCTION AREA.
- COMPACTION FOR THIS PROJECT SHALL BE PER SECTION 2-3 OF THE CDDOT STANDARD SPECIFICATIONS AND ANY AND ALL APPLICABLE PROJECT AND STANDARD SPECIAL PROVISIONS.

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File Name: 27866-CN-01.DWG	No Revisions:	35TH AVENUE BIKEWAY	201627866															
City Project Manager	Revised:	Designer: M. KRELL	Structure Numbers															
City Project Manager	Void:	Detailer: L. BUSANSKY	Sheet Number															
8200 South Quebec Street Denver, CO 80231 PHONE: 303-446-3744 FAX: (720) 913-4544	DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-6501 FAX: (720) 913-4544		Notes															
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UTILITIES

- UTILITY INFORMATION AS SHOWN ON THE PLAN SHEETS IS PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO PARAGRAPH 105.11 OF THE STANDARD SPECIFICATIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL CALL 811 FOR UTILITY LOCATIONS AT LEAST 2 WORKING DAYS PRIOR TO ANY DIGGING, NOT INCLUDING THE DAY OF THE ACTUAL CONTACT.
- IT IS ESTIMATED THAT 12 POTHOLES WILL BE REQUIRED FOR UTILITY LOCATION.
- THE CONTRACTOR SHALL PERFORM ALL REQUIRED UTILITY ADJUSTMENTS ON STORM, SANITARY, AND WATER IMPROVEMENTS. ALL OTHER UTILITY ADJUSTMENTS WILL BE CONSTRUCTED BY THE UTILITY OWNERS.
- THE CONTRACTOR SHALL SUBMIT AN APPLICATION FOR ELECTRICAL SERVICES FOR EVERY XCEL ENERGY WORK ELEMENT THAT IS TO BE COORDINATED WITH THE PROJECT. THE REQUEST IS TO BE PROCESSED THROUGH XCEL ENERGY-BUILDERS CALL LINE AT 1-800-628-2121.
- EXISTING WATER VALVES AND WATER METERS TO BE ADJUSTED PER CURRENT DENVER WATER ENGINEERING STANDARDS.

SURVEYING

- PRIOR TO BEGINNING WORK ON THE PROJECT, THE CONTRACTOR'S SURVEYOR SHALL PERFORM A SURVEY TO VERIFY ALL SURVEY CONTROL POINTS, CITY OF DENVER RANGE POINTS, SECTION CORNERS, AND BENCHMARKS AS SHOWN ON THE SURVEY CONTROL DIAGRAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL LAND SURVEY MONUMENTS DISRUPTED BY CONSTRUCTION ACTIVITIES OR BY NEGLIGENCE ON THE PART OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO FOLLOW COLORADO STATE LAW REGARDING SURVEY MONUMENTS. THE CONTRACTOR SHALL RETAIN A COLORADO LICENSED PROFESSIONAL LAND SURVEYOR TO RESET DISRUPTED SURVEY MONUMENTS. THIS WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK UNLESS SPECIFIED OTHERWISE IN SECTION 629. FOR FURTHER INFORMATION CONTACT:
PUBLIC WORKS SURVEY DEPARTMENT
ATTN: CITY SURVEYOR
201 W. COLFAX AVE.
DENVER, CO 80202
720-865-3121
- AFTER COMPLETION OF THE PAVING OPERATIONS, THE CONTRACTOR SHALL UPGRADE TEMPORARY RANGE POINTS WITH PERMANENT RANGE POINT MONUMENTS AT THE LOCATIONS INDICATED ON THE LAND SURVEY CONTROL DIAGRAM. MONUMENTS SHALL MEET CURRENT CITY AND COUNTY OF DENVER STANDARDS. SEE SECTION 629 OF THE SPECIAL PROVISIONS FOR MORE INFORMATION. (NO WORK IDENTIFIED FOR THIS PROJECT).
- A SURVEY SHALL BE DEPOSITED WITH THE CITY AND COUNTY OF DENVER PER STATE STATUTE. CITY MONUMENT TIE OUT SHEETS SHALL BE PREPARED FOR ALL RANGE POINTS WITHIN THE PROJECT AND DEPOSITED WITH THE CITY SURVEYOR.
- ANY PERSON WHO KNOWINGLY REMOVES, ALTERS, OR DEFACTS ANY PUBLIC LAND SURVEY MONUMENT AND/OR BOUNDARY MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE C.R.S. SECTION 18-4-508.
- ALL STATIONS AND OFFSETS SHOWN ON THE PLANS ARE TO THE CONTROL. LINES UNLESS OTHERWISE NOTED. THE USE OF CONTROL MONUMENTS FOR CONSTRUCTION, EVEN OTHER THAN THOSE SHOWN ON THE PLANS OR APPROVED BY THE PW DEPT IS PROHIBITED, AND USE OF SUCH MONUMENTS IS AT THE CONTRACTOR'S SOLE RISK.
- PROPOSED FINISHED GROUND ELEVATIONS FOR ITEMS TO BE ADJUSTED, RESET OR MODIFIED SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- COORDINATES ARE BASED ON THE UNIVERSAL TRANSVERSE MERCATOR (UTM) AS MODIFIED IN THE DENVER TRANSPORTATION DISTRICT SURVEY CONTROL PERPETUATION DIAGRAM (RTD FASTRACK DATUM) DATED APRIL 2011. ORTHOMETRIC HEIGHTS ARE BASED ON NAVD 88.
- ALL SLOPES SHOWN ARE APPROXIMATE.

ENVIRONMENTAL

- CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE DURING THE DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY ON WHICH THE EMISSIONS ORIGINATE. REASONABLE MEASURES MUST BE EFFECTIVE IN THE CONTROL OF FUGITIVE PARTICULATE EMISSIONS AT ALL TIME ON THE SITE INCLUDING PERIODS OF INACTIVITY SUCH AS EVENINGS, WEEKENDS, AND HOLIDAYS AS WELL AS ANY OTHER PERIOD OF INACTIVITY.
- DURING ANY SOIL DISTURBING ACTIVITIES, IF UNKNOWN/UNIDENTIFIED UNDERGROUND STORAGE TANKS, DRUMS, ODOROUS SOIL, STAINED SOIL, ASBESTOS-CEMENT PIPE (TRANSIT), BUILDING DEBRIS OR WASTE MATERIALS ARE ENCOUNTERED DURING THE PROJECT, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA OF THE DISCOVERY UNTIL DENVER ENVIRONMENTAL HEALTH (DEH) MAKES A DETERMINATION OF HOW TO PROCEED. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY DEH OF THE DISCOVERY VIA THE PHONE NUMBER 720-480-1706.
- ANY FILL MATERIAL OR SOILS TO BE MOVED TO AND PLACED ON CCD-OWNED PROPERTY OR PLACED ON REAL PROPERTY TO BE TRANSFERRED TO A CCD MUST BE FREE OF KNOWN CONTAMINATION (OBSERVED AND DOCUMENTED OR PREVIOUSLY DOCUMENTED) AND BE ACCEPTABLE FOR UNRESTRICTED RESIDENTIAL USE. CONTACT DAVE ERICKSON, DENVER ENVIRONMENTAL HEALTH (720-865-5433) FOR CLARIFICATION, IF NEEDED, REGARDING THIS CCD REQUIREMENT.
- THE CONTRACTOR SHALL DIRECT NON-RECYCLABLE, NON-HAZARDOUS WASTES FROM CCD-OWNED OR CONTROLLED PROPERTY OF FACILITIES TO THE DENVER ARAPAHOE DISPOSAL SITE (DAOS) LANDFILL FOR DISPOSAL, FOLLOWING THE REQUIREMENT AND PROCEDURAL GUIDANCE OUTLINED IN THE CCD EXECUTIVE ORDER 115.
- NOISE CONTROL. EXEMPTED HOURS FOR CONSTRUCTION IN THE CITY AND COUNTY OF DENVER ARE FROM 7 A.M. TO 9 P.M. MONDAY THROUGH FRIDAY AND 8 A.M. TO 5 P.M. ON SATURDAYS AND SUNDAY PER SECTIONS 36-6(B)(7) AND 36-7(5)(A), B AND C. OF DENVER'S NOISE ORDINANCE, CHAPTER 36 "NOISE CONTROL." DENVER REVISED MUNICIPAL CODE (DRMC). IF THERE IS AN ANTICIPATED NEED TO WORK OUTSIDE OF THE EXEMPTED HOURS FOR CONSTRUCTION, 1) THE CONTRACTOR WILL NEED TO MAKE A REQUEST FOR A NIGHTTIME NOISE VARIANCE AS ALLOWED FOR IN SECTION 36-7(5)(C) OF THE DRMC AND 2) THE VARIANCE PROCESS MUST BE STARTED A MINIMUM OF THREE MONTHS PRIOR TO THE DESIRED START DATE OF ANY WORK NEEDING TO OCCUR OUTSIDE OF EXEMPTED HOURS. ANY NOISE VARIANCE QUESTIONS SHOULD BE DIRECTED TO PAUL RIEDESEL, DEPARTMENT OF ENVIRONMENTAL HEALTH, OFFICE OF THE CITY FORESTER, (PHONE 720-865-5410; FAX 720-865-5532) A MINIMUM OF THREE MONTHS PRIOR TO THE START OF THE PROJECT.

FORESTRY

- PER CITY CODE, ALL TREE REMOVALS IN DENVER LIMITS MUST BE PERFORMED BY PROPERTY OWNER OR A TREE CONTRACTOR LICENSED BY DENVER FORESTRY (INCLUDING TREES IN ROW'S AND ON PRIVATE PROPERTY). FOR A CURRENT LIST OF LICENSED TREE CONTRACTORS, VISIT WWW.DENVERGOV.ORG/FORESTRY.
- FOR FORESTRY-APPROVED TREE REMOVALS IN PUBLIC RIGHT(S) OF WAY: A TREE REMOVAL PERMIT ISSUED BY THE OFFICE OF THE CITY FORESTER IS REQUIRED PRIOR TO REMOVAL. IN ORDER TO OBTAIN TREE REMOVAL PERMIT, CONTACT FORESTRY (FORESTRY@DENVERGOV.ORG) WITH A LICENSED CONTRACTOR OR PROPERTY OWNER PERFORMING REMOVAL.
- FOR TREES ON PRIVATE PROPERTY: A FORESTRY-ISSUED TREE REMOVAL PERMIT IS NOT REQUIRED PRIOR TO REMOVAL. HOWEVER PER CITY CODE, ALL TREE REMOVALS IN DENVER MUST BE PERFORMED BY PROPERTY OWNER OR A TREE CONTRACTOR LICENSED BY THE OFFICE OF THE CITY FORESTER.
- A FORESTRY-ISSUED TREE PLANTING PERMIT IS REQUIRED FOR ALL TREES TO BE PLANTED IN PUBLIC RIGHTS OF WAY. CONTACT FORESTRY (FORESTRY@DENVERGOV.ORG) WITH NAME OF CONTRACTOR OR PROPERTY OWNER PERFORMING PLANTING. INCLUDE D-LDG NUMBER (2015-PROMISTR-0000657) WHEN REQUESTING PERMIT. PLANTING PERMITS MUST BE OBTAINED PRIOR TO INSTALLATION.
- EXISTING TREES TO BE PRESERVED IN PUBLIC RIGHT OF WAY SHALL BE PROTECTED PER FORESTRY STANDARDS & PRACTICES. TREE PROTECTION SHALL BE INSTALLED PRIOR TO ISSUE OF DEMOLITION PERMIT. TREE PROTECTION SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR STORAGE OF MATERIALS SHALL TAKE PLACE WITHIN TREE PROTECTION ZONES WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OFFICE OF THE CITY FORESTER.
- DUE TO LEVEL OF CONSTRUCTION ADJACENT TO PUBLIC ROW TREES, CHAIN LINK FENCING SHALL BE USED TO ESTABLISH TREE PROTECTION ZONE BOUNDARIES. ONCE INSTALLED AND APPROVED BY FORESTRY STAFF, TREE PROTECTION ZONE SHALL NOT BE REMOVED OR MODIFIED WITHOUT PRIOR APPROVAL FROM OFFICE OF THE CITY FORESTER.



CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT PARTICULATE MATTER FROM BECOMING AIRBORNE DURING THE DISCHARGE OF FUGITIVE PARTICULATE EMISSIONS BEYOND THE PROPERTY ON WHICH THE EMISSIONS ORIGINATE. REASONABLE MEASURES MUST BE EFFECTIVE IN THE CONTROL OF FUGITIVE PARTICULATE EMISSIONS AT ALL TIME ON THE SITE INCLUDING PERIODS OF INACTIVITY SUCH AS EVENINGS, WEEKENDS, AND HOLIDAYS AS WELL AS ANY OTHER PERIOD OF INACTIVITY.

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DEPARTMENT OF PUBLIC WORKS
 201 WEST COLFAX AVENUE
 DENVER, CO 80202
 PHONE: (720) 913-4501
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As Constructed
 No Revisions:
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GENERAL NOTES
 35TH AVENUE BIKEWAY
 Project Number: 201627886
 Designer: M. KRELL
 Checker: L. BUSANSKY
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STORMWATER MANAGEMENT (CONTINUED)

I. STOCK PILES: SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. STABILIZATION OF STOCKPILES LOCATED WITHIN 100 FEET OF RECEIVING WATERS OR WITH SLOPES 3 TO 1 OR GREATER SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING STOCKPILE CONSTRUCTION. STABILIZATION AND PROTECTION OF THE STOCKPILE MAY BE ACCOMPLISHED BY ANY OF THE FOLLOWING: MULCHING, TEMPORARY PERMANENT RE-VEGETATION OPERATIONS, CHEMICAL SOIL STABILIZER APPLICATION REQUIRES DENVER PUBLIC WORKS APPROVAL), OR EROSION CONTROL MATTING/GEOTEXTILES. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF RECEIVING WATERS, A DRAINAGEWAY OR THE SITE PERIMETER, ADDITIONAL SEDIMENT CONTROLS SHALL BE REQUIRED.

J. SAW CUTTING OPERATIONS: THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING, SAND BLASTING, OR OTHER METHODS ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS OR AS NEEDED THROUGHOUT THE WORK DAY. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED. (SEC. 56-102A, C, REVISED MUNICIPAL CODE, CITY AND COUNTY OF DENVER)

K. STRUCTURAL CONTROLS: DEVELOPMENT SITES THAT ARE REQUIRED TO PROVIDE DETENTION AND WATER QUALITY ENHANCEMENT PROJECTS THAT THE USING UNDERGROUND DETENTION ARE REQUIRED TO INSTALL A PRETREATMENT STRUCTURE(S) OR SEDIMENTATION BASIN(S) OF TREATING POTENTIALLY POLLUTED STORM WATER PRIOR TO ENTERING THE DETECTION STRUCTURE. USE OF THESE STRUCTURES IS REQUIRED FOR STOPPING SEDIMENT AND CONSTRUCTION DEBRIS DURING THE ACTIVE CONSTRUCTION PHASE OF THE PROJECT. MARSHALL PLAN SHOULD ADDRESS DETENTION AND MAINTENANCE OF THE STRUCTURAL CONTROLS BEING USED AS AN ACTIVE CONSTRUCTION BMP.

L. EROSION AND SEDIMENT CONTROL: BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED AND KEPT IN EFFECTIVE OPERATION THROUGHOUT THE DURATION OF THIS PROJECT. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY UPON DISCOVERY OF ANY DEFICIENCY OR DEFECT.

M. CONSTRUCTION FENCE: SHALL BE PLACED AT LOCATION AS DIRECTED BY THE ENGINEER OR EROSION CONTROL SUPERVISOR.

STORMWATER MANAGEMENT

A SEPARATE CASD (EC PERMIT) IS NOT REQUIRED. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL POTENTIAL POLLUTANTS GENERATED DURING CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT, BE PREVENTED FROM DISCHARGE TO STREAMS, WETLANDS OR ANY WATER BODY IN THE VICINITY OF THIS PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE WATERWAY DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM RECEIVING WATERS, WETLANDS, AND/OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

2. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO OR OCCURRING IN THE FLOW LINES OF STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAY OF THE CITY AND COUNTY OF DENVER, AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT. ALL REMOVALS SHALL BE CONDUCTED IN A TIMELY MANNER.

3. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS OF WAY. (SEC. 49-55J, REVISED MUNICIPAL CODE)

4. THE USE OF REBAR TO ANCHOR BEST MANAGEMENT PRACTICES, OTHER THAN PORTABLE TOILETS, IS PROHIBITED.

5. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL IMPLEMENT THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) ON SITE DURING CONSTRUCTION:

I. VEHICLE TRACKING CONTROL: THIS BMP IS REQUIRED AT ALL ACCESS POINTS FROM INGRESS/EGRESS FROM OFF-SITE IMPERVIOUS SURFACES TO CONSTRUCTION SITE PERVIOUS AREAS THAT ARE USED BY VEHICULAR TRAFFIC OR CONSTRUCTION EQUIPMENT.

II. INLET PROTECTION: THIS BMP IS REQUIRED ON ALL EXISTING OR PROPOSED STORM SEWER INLETS IN THE VICINITY OF THE CONSTRUCTION SITE THAT MAY RECEIVE SITE RUNOFF. THE BMP MUST BE APPROPRIATE TO THE TYPE OF STORM INLET AND APPROPRIATE FOR THE GROUND SURFACE AT THE INLET.

III. INTERIM SITE STABILIZATION: THIS BMP IS REQUIRED TO PROVIDE A MEASURE FOR PREVENTING THE DISCHARGE OF SEDIMENT FROM CONSTRUCTION SITES WHERE OVERLOTT GRADING OR OTHER SITE DISTURBANCE HAS OCCURRED. THIS BMP IS PARTICULARLY NECESSARY ON SITES WHERE CONSTRUCTION ACTIVITIES/DISTURBANCES WILL BE LIMITED TO SMALL AREAS OF THE PROJECT SITE. ACCEPTABLE BMPs INCLUDE:

- A) PRESERVING EXISTING VEGETATION
- B) SEEDING AND PLANTING
- C) MULCHING
- D) MULCHING AND SEEDING
- E) TEMPORARY/PERMANENT RE-VEGETATION OPERATIONS
- F) CHEMICAL SOIL STABILIZER APPLICATION (REQUIRES WIND APPROVAL)

IV. WASTE MANAGEMENT/CONTAINMENT: THE BMP REQUIRES THAT ALL CONSTRUCTION WASTES, FUELS, LUBRICANTS, CHEMICAL WASTES, CONTAMINATED SOILS OR DEBRIS SHALL BE CONTAINED ON SITE, PROTECTED FROM CONTACT WITH PRECIPITATION OR SURFACE RUNOFF, PERIODICALLY REMOVED FROM THE CONSTRUCTION SITE, AND PROPERLY DISPOSED OF.

V. SPILL PREVENTION/CONTAINMENT: THIS BMP DEFINES THE MEASURES PROPOSED FOR PREVENTING, CONTROLLING, OR CONTAINING SPILLS OF FUEL, LUBRICANTS, OR OTHER POLLUTANTS; AND PROTECTING POTENTIAL POLLUTANTS FROM CONTACT WITH PRECIPITATION OR RUNOFF.

VI. CHUTE WASHOUT CONTAINMENT: WATER USED IN THE CLEANING OF CEMENT TRUCK DELIVERY CHUTES OR HAND TOOLS SHALL BE DISCHARGED INTO A PREDEFINED, BERMED CONTAINMENT AREA ON THE JOB SITE. THE REQUIRED CONTAINMENT AREA IS TO BE BUILT AND MAINTAINED SO THAT WASH WATER IS TOTALLY CONTAINED. WASH WATER DISCHARGED INTO THE CONTAINMENT AREA SHALL BE RETURNED TO THE INFILTRATE OR EVAPORATE. DRIED CEMENT WASTE IS REMOVED FROM THE CONTAINMENT AREA AND PROPERLY DISPOSED OF.

VII. SWEEPING: THIS BMP REQUIRES THAT IMPERVIOUS SURFACES WHICH ARE ADJACENT TO OR CONTAINED WITHIN CONSTRUCTION SITES BE SWEEPED ON A DAILY BASIS OR AS NEEDED DURING THE DAY WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ON TO THEM. EITHER SWEEPING BY HAND OR USE OF STREET SWEEPERS IS ACCEPTABLE. STREET SWEEPERS USING WATER WHILE SWEEPING IS PREFERRED IN ORDER TO MINIMIZE DUST. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.

VIII. PERIMETER CONTROL: THIS BMP REQUIRES THAT A CONSTRUCTION SITE INSTALL A PERIMETER CONTROL MEASURE ALONG THE EDGE OF THE CONSTRUCTION SITE TO PREVENT OR FILTER THE DISCHARGE OF MATERIALS FROM THE CONSTRUCTION SITE. THE TYPE OF PERIMETER CONTROL USED SHALL BE DETERMINED BASED ON SITE CONDITIONS AND LOCATION. MAINTENANCE AND REPAIR OF THE CONTROL MEASURE SHALL OCCUR AS NEEDED, IN A TIMELY MANNER.

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AECOM 6200 South Quebec Street Denver, CO 80231 PHONE: 303-498-2770	<input type="text"/>	Designer: M. KRELL	Structure Numbers
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WASTEWATER CAPITAL PROJECTS MANAGEMENT (CONTINUED)

16. DEPTHS OR BOTTOM OF STRUCTURE ELEVATIONS WILL NOT BE PROVIDED FOR INLETS WITHIN THE PROJECT AREA. ALL DEPTHS ARE REQUIRED TO BE DETERMINED BASED ON FIELD CONDITIONS IN ACCORDANCE WITH APPLICABLE STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE APPLICABLE STANDARD DETAIL DRAWINGS BASED ON CLEARANCES OF ADJACENT UTILITIES WHILE MAINTAINING MINIMUM REQUIRED GRADES ON LATERAL CONNECTIONS.

17. ALL SEWER MANHOLES MUST BE MAINTAINED AND ACCESSIBLE DURING CONSTRUCTION.

18. ALL SANITARY MANHOLES ARE 4' DIAMETER WITH "A" BASE AND CONCENTRIC CONE UNLESS NOTED OTHERWISE.

19. ALL MANHOLES BUILT WITHIN THIS PROJECT SHALL INCLUDE EITHER A 4'-OR 8'-CAST IRON RISER WITH 3'-STEEL ADJUSTING RINGS. DENVER WATER

20. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE WHATEVER STEPS NECESSARY TO PROTECT ALL WATER FACILITIES. IF ANY WATER FACILITIES CANNOT BE ADEQUATELY PROTECTED, THEN SAID WATER FACILITIES SHALL BE RELOCATED OR REMOVED IN ACCORDANCE WITH THE DENVER WATER DEPARTMENT REQUIREMENTS, BY A DENVER WATER PREQUALIFIED CONTRACTOR.

21. CONSTRUCTION ACTIVITIES BY ANY PARTY THAT DISTURB, RELOCATE, SEVER, OR IN ANY OTHER WAY IMPACT A SERVICE LINE SHALL BE REQUIRED TO MEET CURRENT DENVER WATER DEPARTMENT'S SERVICE LINES AS SPECIFIED IN CHAPTER 3 OF THE LATEST DENVER WATER STANDARDS. IN THE EVENT LEAD WATER LINES ARE ENCOUNTERED, DO NOT DISTURB, IMMEDIATELY STOP WORK, AND NOTIFY THE CITY CONSTRUCTION PROJECT MANAGER.

TREE PROTECTION

22. IF EXISTING TREES ARE TO BE REMOVED THEY MUST FIRST BE EVALUATED BY THE CITY AND COUNTY OF DENVER FORESTRY (PARKS) DEPARTMENT AND A PERMIT MUST BE OBTAINED. EXISTING TREES TO REMAIN MUST HAVE FORESTRY APPROVED TREE PROTECTION PLANS. THE CONSTRUCTION AS SHOWN IN THE "INDIVIDUAL TREE PROTECTION DETAIL" IN THE DENVER PARKS DEPARTMENT STANDARD PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE CITY AND COUNTY OF DENVER PARKS PROTECTION GUIDELINES. REFER TO DENVER PARKS DEPARTMENT SPECIFICATION 01 39 39.

METRO WASTEWATER RECLAMATION DISTRICT

23. METRO WASTEWATER RECLAMATION DISTRICT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ON METRO FACILITIES IN RECLAMATION DISTRICT TO SCHEDULE THE INSPECTION 303-286-6000.

WASTEWATER CAPITAL PROJECTS MANAGEMENT

1. CONTRACTORS PERFORMING WORK ON ANY WASTEWATER FACILITY OR APPURTENANCE MUST BE PROPERLY LICENSED AND HAVE A LICENSED PLUMBER OR DRAINLAYER ON SITE DURING THE WORK. (GENERAL CONTRACT CONDITIONS (G.C.C.) 317.1.1)

2. THE CURRENT EDITION OF THE WASTEWATER MANAGEMENT DIVISION STANDARD DETAILS SHALL APPLY TO ALL WORK AND WILL BE THE EDITION CURRENT AS OF THE ADVERTISEMENT DATE. THE CONTRACTOR MUST BE IN POSSESSION OF THE STANDARD DETAILS AT THE PRE-CONSTRUCTION CONFERENCE AND A COPY MUST REMAIN ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. WASTEWATER MANAGEMENT DIVISION STANDARD DETAILS CAN BE OBTAINED AT WWW.DENVERGOV.ORG (SPECIAL CONTRACT CONDITIONS (SC-1), CONTRACT FORM B (APPLICABLE LAWS))

3. THE CONTRACT SPECIFIED EDITION OF THE CITY AND COUNTY OF DENVER'S TRANSPORTATION STANDARDS AND DETAILS FOR THE ENGINEERING DIVISION SHALL BE FOLLOWED FOR ALL ROADWAY WORK IN THE PLAN SET AND WILL BE THE EDITION CURRENT AS OF THE ADVERTISEMENT DATE. THESE STANDARDS AND DETAILS CAN BE OBTAINED AT WWW.DENVERGOV.ORG (SC-1, CONTRACT FORM B (APPLICABLE LAWS))

4. THE CONSTRUCTION ACTIVITIES STORMWATER DISCHARGE PERMITS (STATE AND LOCAL FLOODPLAIN PERMITS), STREET-CUT PERMIT, AND STREET OCCUPANCY PERMIT (INCLUDING THE ASSOCIATED TRAFFIC CONTROL PLANS) MAY BE REQUIRED AND THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL OF THESE PERMITS. APPROVED COPIES OF ALL REQUIRED PERMITS MUST BE SUBMITTED TO THE CITY CONSTRUCTION PROJECT MANAGER PRIOR TO THE START OF CONSTRUCTION. (G.C.C. 301.2, 317.1 & 317.2 & 317.5, CONTRACT FORM B (APPLICABLE LAWS))

5. A PARKS PERMIT WILL BE REQUIRED FOR ANY WORK OR OCCUPANCY OF PARK LAND, THIS INCLUDES BUT IS NOT LIMITED TO DESIGNATED CITY PARKS, PARKWAYS, OPEN SPACE, TRAILS AND BIKE PATHS. (G.C.C. 301.2, 317.1 & 317.2 & 317.5, CONTRACT FORM B (APPLICABLE LAWS))

6. ALL DESIGN DRAWINGS PROVIDED AS PART OF THIS CONTRACT ARE FORMATTED FOR PRINTING FULL SIZE, ON STANDARD 22 x 34 INCH (ANSI D) PAPER. ALL DRAWINGS TO HAVE SIZE (AND SCALE WHERE APPROPRIATE) ON STANDARD 11 x 17 PAPER SIZE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF PLANS UTILIZED FOR BIDDING OR CONSTRUCTION ARE PRINTED ON THE PROPER MEDIA SIZE AND THAT SCALES PROVIDED WITHIN THE DRAWINGS ARE CORRECTLY INTERPRETED.

7. "RED-LINED" DRAWINGS AND PRINTS ARE TO BE MAINTAINED BY THE CONTRACTOR AND SUBMITTED TO THE CITY CONSTRUCTION PROJECT MANAGER AT THE COMPLETION OF THE PROJECT. ANY AND ALL FIELD CHANGES MADE DURING CONSTRUCTION MUST BE NOTED. THE DRAWINGS WILL STATE "RED LINES" IN LARGE BLOCK LETTERS. THE RED-LINED DRAWINGS MUST BE RECEIVED AND ACCEPTED BY THE CITY CONSTRUCTION PROJECT MANAGER PRIOR TO FINAL ACCEPTANCE AND SETTLEMENT.

8. THE CONTRACTOR SHALL NOTIFY THE CITY CONSTRUCTION PROJECT MANAGER IMMEDIATELY OF ANY DISCREPANCIES OR VARIATIONS IN DRAWINGS & SPECIFICATIONS THAT AFFECT PRICING OR THAT COULD REQUIRE MODIFICATION TO THE DESIGN. (G.C.C. 110.3)

9. THE CITY AND COUNTY OF DENVER ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. ALL UTILITIES MUST BE LOCATED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTHS OF UTILITIES AND SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION (G.C.C. 701, 804)

10. ALL RANGE POINTS OR OTHER SURVEY MONUMENTS WHICH MAY BE DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE TIED OUT AND RESET PER CITY SURVEYING STANDARDS. (G.C.C. 318, 319)

11. ALL ELEVATIONS SHOWN ARE NAVD83 DATUM, UNLESS OTHERWISE NOTED.

12. INLETS AND MANHOLES ARE NOT SHOWN TO SCALE ON THE PLAN AND PROFILE SHEETS.

13. INVERT ELEVATIONS AND CALCULATED PIPE SLOPES ON STORM AND SANITARY PROFILES ARE TO THE CENTER OF MANHOLE OR STRUCTURE. PIPE LENGTHS ARE TWO DIMENSIONAL LENGTHS AND ARE CENTER TO CENTER BETWEEN MANHOLES AND TO THE INSIDE EDGE OF INLETS.

14. NORTHING AND EASTING CALLOUTS ON TYPE 15 AND TYPE 14 INLETS ARE TO THE CENTER OF THE STRUCTURE AT THE FLOWLINE. NORTHING AND EASTING CALLOUTS ON MANHOLES ARE TO THE CENTER OF THE MANHOLE.

15. LOCATION OF INLETS AND/OR INLET CONNECTORS MAY BE ADJUSTED IN THE FIELD AT THE DIRECTION OF THE CITY CONSTRUCTION PROJECT MANAGER IN CONJUNCTION WITH DESIGN INTENTION. ALL INLET CONNECTIONS SHOWN IN PLAN AND PROFILE ARE APPROXIMATE LOCATIONS AND DEPTHS.

Print Date: 3/23/2018 12:41 PM	Sheet Revisions	As Constructed	Project Number
File Name: 27886-CN-01.DWG	Date: Comments: Inl:	No Revisions:	201627886
Map Scale: Vert. Scale:		Revised:	GENERAL NOTES 35TH AVENUE BIKEWAY
City Project Manager		Void:	Designer: M. KRELL Structure Numbers Detailer: L. BUSANSKY
AECOM 6200 South Quebec Street Denver, CO 80111 PHONE: 303-884-2770			Sheet Number 5
			4 of 4 Notes Subst Sheets:

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY ITEMS		CONTRACT ITEM	CHIT	ROADWAY ITEMS		PROJECT TOTALS
			PLAN	AS CONST			PLAN	AS CONST	
201-00000	CLEARING AND GRUBBING	L S	1		6" CURB AND GUTTER - 1' SPILL PAN	LF	282	282	
202-00019	REMOVAL OF INLET	EACH	1		6" CURB AND GUTTER - 2' CATCH PAN	LF	107	107	
202-00200	REMOVAL OF SIDEWALK	SY	40		MEDIAN COVER MATERIAL (4 INCH PATCHED CONCRETE)	SF	974	974	
202-00201	REMOVAL OF CURB	LF	95		DELINTEATOR (FLEXIBLE) (SURFACE MOUNTED)	EACH	36	36	
202-00203	REMOVAL OF CURB AND GUTTER	LF	11		SIGN PANEL (CLASS 1)	SF	295	295	
202-00810	REMOVAL OF CONCRETE CURB RAMP	SY	9		SIGN PANEL (SPECIAL)	EACH	81	81	
202-00220	REMOVAL OF ASPHALT MAT	SY	456		STEEL SIGN POST (2X3 INCH TUBING) (TELSPAR)	LF	995	995	
202-00810	REMOVAL OF GROUND SIGN	SY	11		MOBILIZATION	L S	0.5	0.5	
203-01598	POTHOLING	EACH	12		EPOXY PAVEMENT MARKING	GAL	32	32	
208-0000X	EROSION CONTROL	L S	0.5		PREFORMED PLASTIC PAVEMENT MARKING (IMLAD)	LF	75	75	
210-00810	RESET GROUND SIGN	EACH	7		PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD- SYMBOL)	SF	258	258	
210-00815	RESET SIGN PANEL	EACH	1		PREFORMED THERMOPLASTIC PAVEMENT MARKING (WALK-STOP LINE)	SF	2027	2027	
210-04010	ADJUST MANHOLE	EACH	2		CONSTRUCTION TRAFFIC CONTROL	L S	0.5	0.5	
210-04015	MODIFY MANHOLE	EACH	1		EROSION CONTROL	F A	0.5	0.5	
212-00100	TREE RETENTION AND PROTECTION	L S	0.5		ENVIRONMENTAL HEALTH & SAFETY MANAGEMENT	F A	0.5	0.5	
213-00067	ROCK MULCH (NEED FREE)	SF	697		LANDSCAPING	F A	0.5	0.5	
403-00720	HOT MIX ASPHALT (PATCHING) (ASPHALT)	TON	69						
603-01155	15 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	46						
604-16005	CCD SINGLE NO. 16 INLET (S 616.1)	EACH	1						
608-00000	CONCRETE SIDEWALK (4 INCH)	SY	39						
608-00010	CONCRETE CURB RAMP	SY	80						
609-20010	6" CURB HEAD	LF	23						

Print Date: 3/23/2018 12:57 PM
 File Name: 27866-SAQ-01.DWG
 Host: SQA
 City Project Manager: [Blank]
 AECOM
 2000 South Quebec Street
 Greenwood Village, CO 80111
 Phone: 303-894-2770

DEPARTMENT OF PUBLIC WORKS
 201 WEST COLFAX AVENUE
 DENVER, CO 80202
 PHONE: (720) 913-4501
 FAX: (720) 913-4544

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Sheet Revisions
 Date: [Blank] Comments: [Blank] Inl: [Blank]

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 Ver: SQA
 Ver: SQA

As Constructed
 No Revisions:
 Revised:
 Void:

SUMMARY OF APPROXIMATE QUANTITIES
 Designer: L. Buschinsky
 Detoler: M. Krell
 Sheet Subst.: SAQ
 Structure Numbers: [Blank]
 Subst. Sheets: 1 of 1

Project Number
 201627886
Sheet Number
 6

TABULATION OF ROADWAY AND DRAINAGE ITEMS

LOCATION	ROCK MILCH (NEED FREE)	HOT MIX ASPHALT (PAVING)	15" REINFORCED CONCRETE PIPE (CIP)	CCO SINGLE NO. 16 INLET (S.S. I)	CONCRETE SIDEWALK (4 INCH)	CONCRETE CURB RAMP	6" CURB HEAD	5" CURB GUTTER - 1' SPILL PAN	6" CURB & GUTTER - 2' CATCH PAN	MEZAN COVER MATERIAL (4 INCH PATTERNED CONCRETE)	DELEMATOR (FLEXIBLE SURFACE MOUNTED)
INTERSECTION	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
35TH AVE. & QUINCY ST.	27	108	46	1	35	80	23	282	187	374	1
35TH AVE. & PERRY ST.	63	252	46	3	26	62	187	187	187	374	1
35TH AVE. & LORELL ST.	63	252	46	3	26	62	187	187	187	374	1
35TH AVE. & IRVING ST.	63	252	46	3	26	62	187	187	187	374	1
35TH AVE. & PEAUGH ST.	63	252	46	3	26	62	187	187	187	374	1
TOTAL	312	1248	186	11	136	332	733	1085	1085	2156	5

TABULATION OF REMOVALS, RESETS, AND ADJUSTS

LOCATION	REMOVAL OF INLET	REMOVAL OF SIDEWALK	REMOVAL OF CURB	REMOVAL OF CURB & GUTTER	REMOVAL OF ASPHALT MAT	REMOVAL OF CONCRETE SIDEWALK	RESET SIGN	ADJUST MANHOLE	MODIFY MANHOLE
INTERSECTION	EA	EA	EA	EA	EA	EA	EA	EA	EA
35TH AVE. & QUINCY ST.	1	40	95	11	9	127	1	1	1
35TH AVE. & PERRY ST.	1	40	95	11	9	127	1	1	1
35TH AVE. & LORELL ST.	1	40	95	11	9	127	1	1	1
35TH AVE. & IRVING ST.	1	40	95	11	9	127	1	1	1
35TH AVE. & PEAUGH ST.	1	40	95	11	9	127	1	1	1
TOTAL	5	200	470	55	45	637	5	5	5

Print Date: 3/23/2018 12:41 PM
 File Name: 27886-TAB-RD-01.DWG
 Horiz. Scale: Vert. Scale:
 City Project Manager: 6200 South Quebec Street
 Greenwood Village, CO 80111
 PHONE: 303-595-2720



Date:	Comments:



DEPARTMENT OF PUBLIC WORKS
 201 WEST COLFAX AVENUE
 DENVER, CO 80202
 PHONE: (720) 913-4501
 FAX: (720) 913-4544

As Constructed
 No Revisions:
 Revised:
 Void:

TABULATION OF ROADWAY ITEMS
 Designer: L. Ebanovsky
 Detailer: M. Kreil
 Sheet Subst: TABS
 Sheet Number: 1 of 1

Project Number: 201627886
 Sheet Number: 7

CITY AND COUNTY OF DENVER STATE OF COLORADO SURVEY CONTROL PERPETUATION DIAGRAM

W. 35th Ave. Bikeway Intersections
Sections 28, 29, & 30
Township 3 South, Range 68 West
of the 6th Principal Meridian

General Notes:

- This survey does not constitute a title search or a title search by 105 West, Inc., nor is it intended to be construed as a boundary survey.
- The purpose of this Control Map is to show the location of Survey Control and Boundary Monuments prior to construction of the W. 35th Ave. Bikeway Land Survey.
- Date of Field Survey: August 2016.
- Per the City and County of Denver, calculated Range Point Positions are derived using the best available record and field evidence including, but not limited to, Survey and Re-survey, the Books, Monument Records, and Land Survey Records. A summary of all available evidence and should not solely rely on the positions of any calculated range points shown herein.
- Any Person who knowingly removes, alters, or replaces any Public Land Survey Monument or Land Boundary Monument, or who knowingly commits a Class Two (2) Misdemeanor Pursuant to C.R.S. 18-4-508 (2).

NOTICE: According to Colorado law, you must commence any litigation based upon any defect in this survey within three years from the date of the certification shown hereon. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

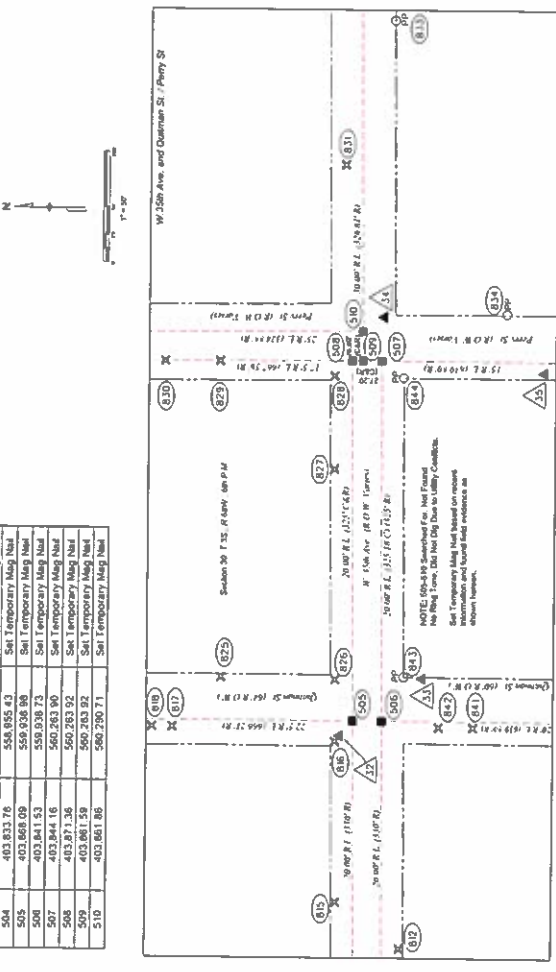
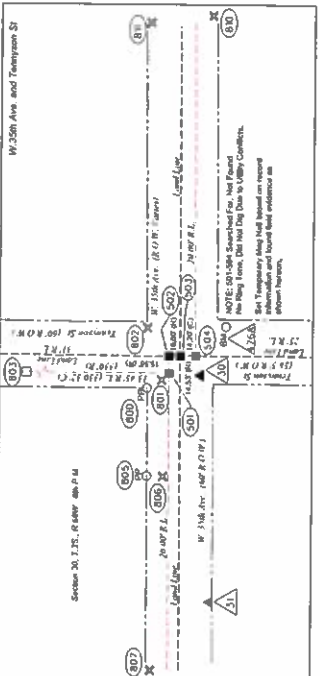
Point No	Northing (ft)	Eastng (ft)	Description
501	403,857.93	558,939.81	Set Temporary Mang Nail
502	403,857.98	558,955.48	Set Temporary Mang Nail
503	403,847.88	558,955.45	Set Temporary Mang Nail
504	403,833.76	558,955.43	Set Temporary Mang Nail
505	403,868.09	558,938.98	Set Temporary Mang Nail
506	403,841.53	558,938.73	Set Temporary Mang Nail
507	403,844.16	560,283.90	Set Temporary Mang Nail
508	403,871.36	560,283.92	Set Temporary Mang Nail
509	403,861.59	560,283.92	Set Temporary Mang Nail
510	403,861.86	560,290.71	Set Temporary Mang Nail

Point No	Northing (ft)	Eastng (ft)	Description
600	403,877.95	558,926.41	Find 3/4" Brass Tag and Nail T.S. 18475"
601	403,864.00	558,933.77	Find Cheeked "x" on Bolt
602	403,818.00	559,981.21	Find Cheeked "x" on Conc. Walk
603	403,895.25	559,940.29	Find Range Point Nail
604	403,895.25	559,940.29	Find 3/4" Yellow Plastic Cap "M" SCHEAR L.S. 18475"
605	403,862.50	558,978.18	Find Cheeked "x" on Conc. Walk
606	403,872.98	558,978.18	Find Cheeked "x" on Conc. Walk
607	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
608	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
609	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
610	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
611	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
612	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
613	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
614	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
615	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
616	403,820.19	559,267.83	Find Cheeked "x" on Conc. Walk
617	404,032.70	559,933.19	Find 1" Washer and Nut PLS 21203"
618	404,032.70	559,933.19	Find 1" Washer and Nut PLS 21203"
619	404,032.70	559,933.19	Find 1" Washer and Nut PLS 21203"
620	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
621	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
622	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
623	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
624	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
625	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
626	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
627	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
628	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
629	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
630	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
631	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
632	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
633	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
634	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
635	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
636	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
637	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
638	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
639	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk
640	403,888.48	559,978.07	Find Cheeked "x" on Conc. Walk

Point No	Northing (ft)	Eastng (ft)	Description
478A	403,806.40	558,997.13	Find CCD BM #26 Brass Cap
31	403,818.38	558,731.48	Set 1" Copper Plug in Conc. Walk
32	403,818.38	558,731.48	Set 1" Copper Plug in Conc. Walk
33	403,805.41	559,977.48	Set 1" Copper Plug in Conc. Walk
34	403,842.22	560,283.92	Set 1" Copper Plug in Conc. Walk
35	403,807.78	549,219.87	Set 1" Copper Plug in Conc. Walk

COORDINATE DATUM: Project coordinates are based on the center of a concrete walk at the SE corner of the map and are referenced to the following City and County Mapping Projection:
 Project Mapping Projection: Unified Transverse Mercator
 Zone: CCD Local
 Central Point False Northing = 400,000.00
 Central Point False Easting = 400,000.00
 Central Point False Height = 433*4519.000000
 Central Meridian = W04* 53' 53.000000"
 Scale Factor at Origin = 1.00025403000
 Units are US Survey Feet

PROJECT BENCHMARK: Elevations are based on CCD benchmark "478A" a CCD brass cap located in the center of a concrete walk at the SE corner of the NAVD 88's Elevation = 5438.57'



Print Date: 10/5/2016
 File Name: SURVEY CONTROL PERPETUATION DIAGRAM
 401E Yale Ave., STE 230
 Denver, CO 80202
 TRANSPORTATION
 1175000 10th Ave., Suite 100, Denver, CO 80202
 1-800-726-7868 / 303-733-0099
 www.105west.com

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DEPARTMENT OF PUBLIC WORKS
 201 WEST COLFAX AVENUE
 DENVER, CO 80202
 PHONE: (720) 913-4501
 FAX: (720) 913-4544

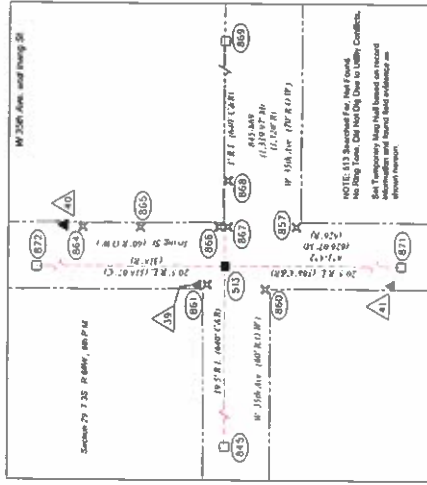
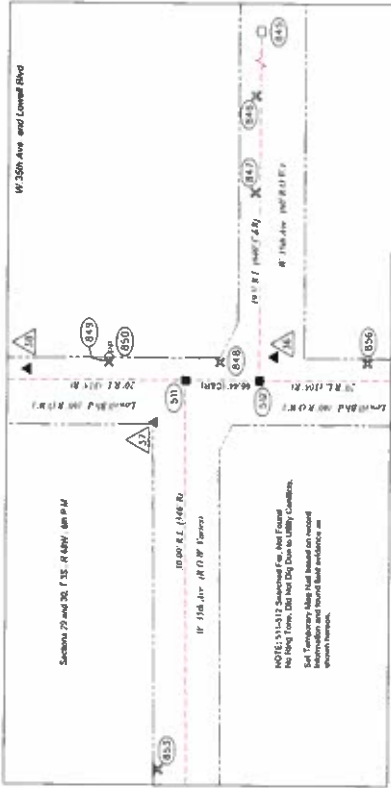
DENVER
 THE MILE HIGH CITY

Project No./Code
 Public Infrastructure
 (W. 35th Ave. Bikeway)
 Survey Control Perpetuation Diagram
 Designer:
 Detailer:
 Sheet Subject: Survey
 Sheet No.: 8
 Sheet Subsets: 1 of 2

CITY AND COUNTY OF DENVER STATE OF COLORADO

W. 35th Ave. Bikeway Intersections Survey Control Perpetuation Diagram

Sections 28, 29, & 30
Township 3, South, Range 68 West
of the 6th Principal Meridian

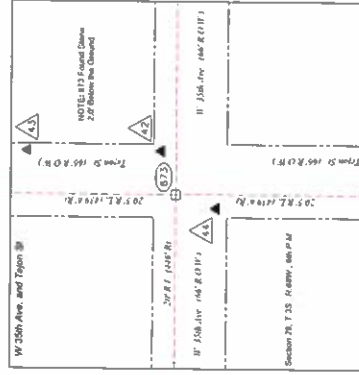


- (XX) ○ RANGE POINT MONUMENT
- (XX) X PROPERTY/ROW EVIDENCE
- (XX) X MALICE CROSS/CHELCO "x"
- (XX) ● CALCULATED RANGE POINT BASED ON ORIGINAL SUBDIVISIONS TO BE SET UPON PROJECT COMPLETION
- (X) △ SET CONTROL POINT
- (R) = RECORDED DISTANCE
- (M) = MEASURED DISTANCE
- (C) = CALCULATED DISTANCE

Point No	Northing (ft)	Easting (ft)	Elev (ft)	Description
36	403,795.08	561,628.42	5,303.52	Set 1" Copper Plug in Conc. Walk
37	403,800.18	561,569.25	5,304.86	Set 1" Copper Plug in Conc. Walk
38	404,118.16	561,616.34	5,304.48	Set 1" Copper Plug in Conc. Walk
39	403,835.82	562,890.08	5,317.51	Set 1" Copper Plug in Conc. Walk
40	403,957.77	562,943.17	5,307.29	Set 1" Copper Plug in Conc. Walk
41	403,680.95	562,890.44	5,318.01	Set 1" Copper Plug in Conc. Walk
42	403,872.36	568,211.89	5,286.87	Set 1" Copper Plug in Conc. Walk
43	403,944.15	568,212.12	5,286.89	Set 1" Copper Plug in Conc. Walk
44	403,773.23	568,160.39	5,286.89	Set 1" Copper Plug in Conc. Walk

Point No	Northing (ft)	Easting (ft)	Description
S11	403,974.97	561,606.80	Set Temporary May Nail
S12	403,906.53	561,607.08	Set Temporary May Nail
S13	403,972.07	562,907.02	Set Temporary May Nail

Point No	Northing (ft)	Easting (ft)	Description
845	403,810.30	562,847.06	Find Range Point 3.1/4" Aluminum Cap "DMWY R.P. LS 7104"
846	403,813.95	561,884.34	Find Chiseled "x" in Conc. Curb
847	403,813.85	561,777.01	Find Chiseled "x" in Conc. Curb
848	403,844.23	561,622.82	Find 1" Copper Plug "RE-CROSS 24313"
849	403,844.03	561,622.89	Find Chiseled "x" in Conc. Curb
850	403,844.00	561,626.54	Find 1-1/4" Plastic Cap "COLO ENGN & SURVEY 26854"
851	403,817.12	561,523.35	Find 1" Brass Tag and Nail "BELL LS 11728"
852	403,747.27	562,942.59	Find Maltese Cross
853	403,775.81	562,886.70	Find 1" Copper Plug "RE-CROSS 24313"
854	403,827.62	562,890.52	Find 3/4" Brass Tag and Nail, Maypole
855	403,868.19	562,942.35	Find 3/4" Brass Tag and Nail, Maypole
856	403,818.98	562,942.45	Find 1" Copper Plug "RE-CROSS 24313"
857	403,809.18	562,942.46	Find 3/4" Brass Tag and Nail, Maypole
858	403,813.42	562,984.95	Find 1-1/4" Yellow Plastic Cap "VCC LS 20899"
859	403,813.42	562,984.95	Find Range Point Chiseled "x" in Stone
871	403,524.68	562,907.92	Find Range Point Chisel Tooth in Range Box
872	404,130.15	562,906.16	Find Range Point Stone
873	403,809.28	568,172.78	Find Range Point Stone



Print Date: 10/5/2016
 File Name: SURVEY CONTROL PERPETUATION DIAGRAM
 4201 E. Yale Ave., STE 230
 Denver, CO 80222

DEPARTMENT OF PUBLIC WORKS
 201 WEST COLFAX AVENUE
 DENVER, CO 80202
 PHONE: (720) 913-4501
 FAX: (720) 913-4544

DENVER
 THE MILL HIGH CITY

As Constructed
 No Revisions:
 Revised:
 Void:

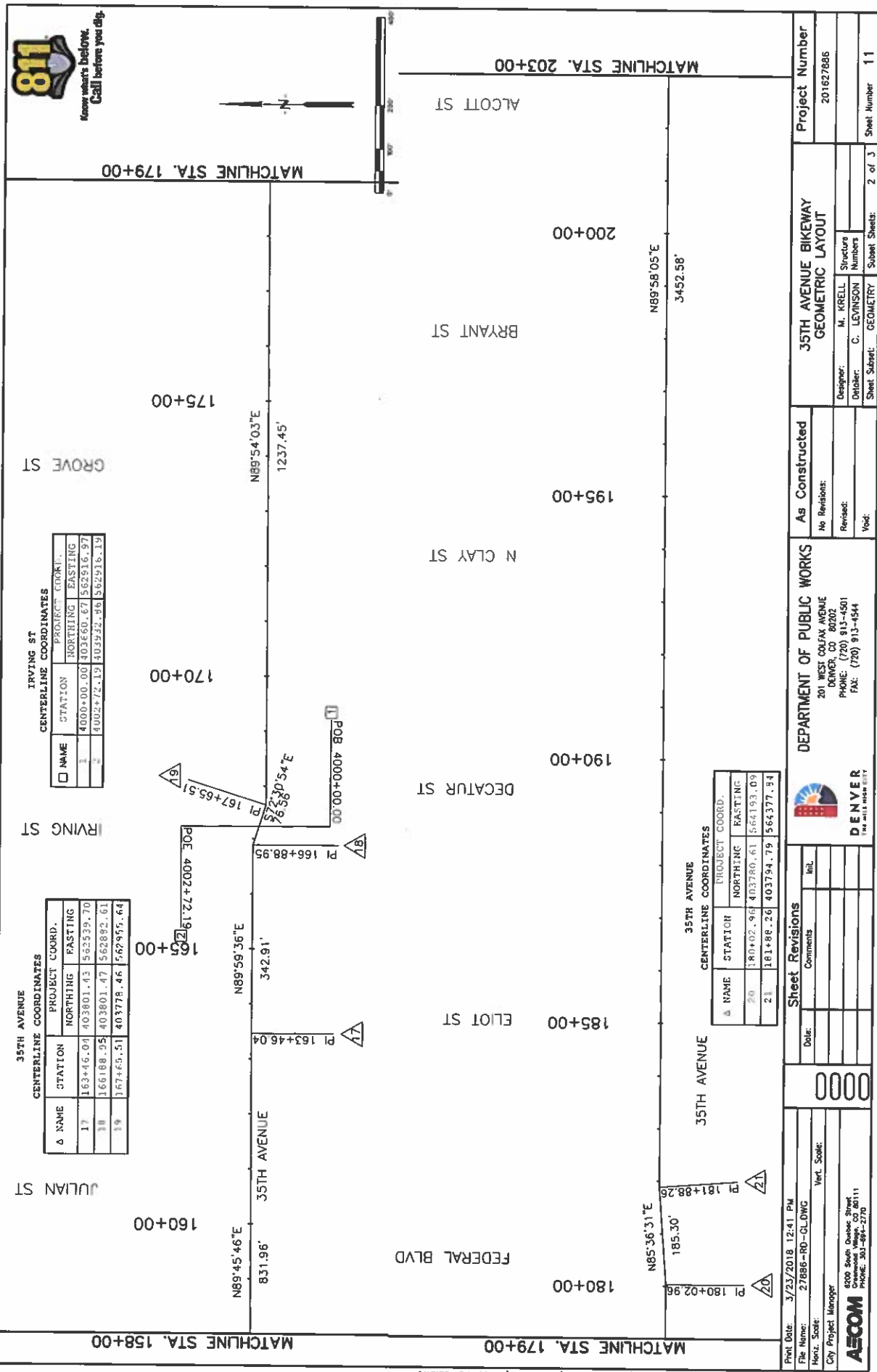
Public Infrastructure
 (W. 35th Ave. Bikeway)
 Survey Control Perpetuation Diagram

Designer:
 Structure:
 Number:
 Number's

Sheet Subst: Survey
 Subst: Sheets: 2 of 2
 Project No./Code
 Sheet Number 9



Know what's below.
Call before you dig.



35TH AVENUE
CENTERLINE COORDINATES

Δ NAME	STATION	NORTHING	EASTING
17	163+46.04	403801.43	562539.70
18	166188.95	403801.47	562892.61
19	167165.51	403778.46	562955.64

IRVING ST
CENTERLINE COORDINATES

Δ NAME	STATION	NORTHING	EASTING
1	4000+00.00	403660.67	562916.97
2	4002+72.13	402922.86	562916.13

35TH AVENUE
CENTERLINE COORDINATES

Δ NAME	STATION	NORTHING	EASTING
20	180+02.96	403780.61	564193.09
21	181+88.26	403794.79	564377.94

Print Date: 3/23/2018 12:41 PM	File Name: 27886-RD-GL.DWG	City Project Manager: AECOM	5000 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-895-2770
City Project Manager	Vert. Scale:	0000	
<p>DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544</p> <p>DENVER The Mile High City</p>			
<p>As Constructed</p> <p>No Revisions:</p> <p>Revised:</p> <p>Void:</p>		<p>35TH AVENUE BIKEWAY GEOMETRIC LAYOUT</p>	
<p>Design: M. KRELL</p> <p>Structure Numbers: C. LEVINSON</p>		<p>Project Number: 201627886</p>	
<p>Sheet Subst: GEOMETRY</p>		<p>Sheet Number: 11</p>	



Know what's below. Call before you dig.

MATCHLINE STA. 231+00

230+00 QUIVAS ST
225+00 SHOSHONE ST
220+00 TEJON ST
215+00 VALLEJO ST
210+00 WYANDOT ST
205+00 ZUNI ST

35TH AVENUE

TEJON ST
CENTERLINE COORDINATES

NAME	STATION	PROJECT NO.	COORD.	NORTHING	EASTING
1	5000+00.00	403671.48	56818.23		
2	5002+52.79	403924.27	56818.25		

35TH AVENUE
CENTERLINE COORDINATES

NAME	STATION	PROJECT COORD.	NORTHING	EASTING
22	216+40.84	403796.72	567830.42	

35TH AVENUE
CENTERLINE COORDINATES

NAME	STATION	PROJECT COORD.	NORTHING	EASTING
23	247+85.75	403792.29	570375.33	
24	247+94.88	403792.27	570384.45	
25	248+03.47	403787.18	570392.03	
26	248+34.47	403769.86	571017.75	

KALAMATH ST

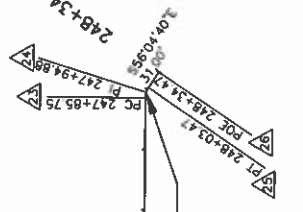
LIPAN ST

MARIPOSA ST

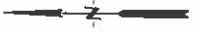
NAVAJO ST

OSAGE ST

PECOS ST



CURVE DATA A-3
 $A_c = 3350.28'$ RIGHT
 $D_c = 18056.09.35'$
 $T_c = 9.13'$
 $L_c = 17.72'$
 $R_c = 30.00'$



MATCHLINE STA. 203+00

MATCHLINE STA. 231+00

Proj. Date: 3/23/2018 12:41 PM File Name: 27886-RD-GLDWG Horiz. Scale: Vert. Scale: City Project Manager:	0200 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-894-2770	AECOM	0000	DEPARTMENT OF PUBLIC WORKS 281 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	As Constructed No Revisions: Revised: Void:	35TH AVENUE BIKEWAY GEOMETRIC LAYOUT	Project Number 201627886
Sheet Revisions Date: Comments InL				Designer: M. KRELL Structure Numbers Detailer: C. LEVINSON Sheet Subtotal: GEOMETRY Subtotal Sheets: 3 of 3			Sheet Number 12



Know what's below.
Call before you dig.

TREE PROTECTION NOTES:

- EXISTING TREES TO BE PRESERVED IN PUBLIC RIGHT OF WAY SHALL BE PROTECTED PER OFFICE OF THE CITY FORESTER STANDARDS & PRACTICES. TREE PROTECTION SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF DEMOLITION AND/OR CONSTRUCTION ACTIVITIES, INSPECTED & APPROVED BY OFFICE OF THE CITY FORESTER STAFF, AND SHALL REMAIN IN PLACE UNTIL CERTIFICATE OF OCCUPANCY IS ISSUED.
- IF PRUNING FOR CONSTRUCTION SCAFFOLDING IS NECESSARY, CONTRACTOR SHALL CONSULT WITH FORESTRY STAFF PRIOR TO COMMENCEMENT OF WORK.
- MINIMUM TREE PROTECTION REQUIREMENTS: TREE PROTECTION SHALL BE INSTALLED AT THE CRITICAL ROOT ZONE (CRZ). THE CRZ IS EQUAL TO THE DRILLPIPE, FURTHEST EXTENT OF TREE CANOPY, OR IS EQUAL TO ONE FOOT RADIALLY FROM THE TREE FOR EVERY ONE INCH OF TRUNK DIAMETER AT BREAST HEIGHT (DBH = 4.5" ABOVE SOIL LINE), WHICHEVER IS GREATER.
 - FOR DEMOLITION ACTIVITIES: ORANGE PLASTIC SAFETY FENCING IS ACCEPTABLE. FENCING SHALL BE MIN. 48" IN HEIGHT, TOP SECURED TO METAL T-POSTS WITH 12-GAUGE WIRE WOVEN THROUGH TOP OF FENCING FOR ENTIRE LENGTH. HEAVY DUTY T-POSTS SHALL BE PLACED SO THAT WIRE & FENCE ARE TAUT.
 - FOR CONSTRUCTION ACTIVITIES: USE 6" CHAIN LINK FENCING TO ESTABLISH TREE PROTECTION ZONE (TPZ). ONCE TPZ IS IN PLACE, IT MAY BE REDESIGNED, REMOVED, OR ALTERED IN ANY MANNER WITHOUT PRIOR WRITTEN APPROVAL FROM OFFICE OF THE CITY FORESTER.
- NOTE: PLASTIC FENCE TREE PROTECTION IS ONLY ACCEPTABLE FOR DEMOLITION ACTIVITIES. ONCE DEMOLITION IS COMPLETED, 6" CHAIN LINK FENCING MUST BE INSTALLED PER BOUNDARIES SHOWN ON APPROVED SDP DRAWINGS. INSTALL FENCING PRIOR TO COMMENCEMENT OF SITE CONSTRUCTION (INCLUDING EXCAVATION).
- OFFICE OF THE CITY FORESTER STAFF SHALL INSPECT AND APPROVE BOUNDARIES OF TREE PROTECTION ZONE(S) PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES; INCLUDING WHEN PLASTIC FENCING IS TO BE REPLACED WITH CHAIN LINK FENCING. ONCE APPROVED BY THE OFFICE OF THE CITY FORESTER, THE TREE PROTECTION ZONE SHALL NOT BE RESIZED, MODIFIED, REMOVED, OR ALTERED IN ANY MANNER WITHOUT PRIOR APPROVAL.
- "TREE PROTECTION ZONE" SIGNS SHALL REMAIN IN PLACE AS POSTED BY OFFICE OF THE CITY FORESTER AND SHALL BE MAINTAINED IN THE CONDITION IN WHICH THEY WERE INSTALLED.
- CLEAR VISIBILITY INTO TREE PROTECTION ZONE MUST BE MAINTAINED. NO CONSTRUCTION BANNERS, SCREENS, BARRIERS, AND/OR SIGNS (EXCEPT OFFICE OF THE CITY FORESTER-POSTED TREE PROTECTION ZONE SIGNS) MAY BE PLACED TO IMPEDE VIEW INTO TREE PROTECTION ZONE BY OFFICE OF THE CITY FORESTER STAFF.
- NO ENTRANCE AND/OR ACCESS TO THE TREE PROTECTION ZONE, INCLUDING CONSTRUCTION ACTIVITIES, IS PERMITTED WITHOUT PRIOR APPROVAL FROM THE OFFICE OF THE CITY FORESTER.
- WHILE TREE PROTECTION FENCING IS IN PLACE, TREES SHALL BE DEEP-ROOT WATERED AT AN INTERVAL OF ONCE PER WEEK WHEN TEMPERATURES ARE AT OR ABOVE 50-DEGREES F. TREES SHALL BE WATERED AT THE RATE OF 10 GALLONS PER INCH CALIPER.
- TREE LAWN WITHIN BOUNDARY OF TREE DRILLPIPE SHALL NOT BE ROTOTILLED AT ANY TIME. ROTOTILING IS ONLY PERMITTED IN AREAS OUTSIDE EX. TREE DRILLPIPE WHERE CONCRETE & HARDSCAPE ARE REMOVED.
- INSTALLATION OF ANY IRRIGATION UNDER DRILLPIPES OF EXISTING TREES MUST BE PERFORMED BY DIRECTIONAL BORE. TRENCHING OF IRRIGATION LINES WITHIN TREE PROTECTION ZONES IS STRICTLY PROHIBITED.
- EXISTING ROW TREES APPROVED FOR REMOVAL BY THE OFFICE OF THE CITY FORESTER (OCF) MUST BE PROTECTED IN PLACE PER FORESTRY STANDARDS & SPECIFICATIONS UNTIL REMOVED BY AN OCF-LICENSED TREE REMOVAL OPERATOR. A TREE REMOVAL PERMIT IS REQUIRED FROM THE OCF PRIOR TO REMOVAL. FAILURE TO PROTECT SUCH TREES UNTIL REMOVAL OR REMOVING ROW TREES WITHOUT AN OCF-ISSUED PERMIT WILL RESULT IN NOTICE OF VIOLATION AND MAY INCLUDE CITATIONS/FINES. TREE REMOVAL PERMITS ARE NOT INCLUDED WITH BUILDING PERMITS AND MUST BE OBTAINED SEPARATELY FROM THE OFFICE OF THE CITY FORESTER.
- NO CONSTRUCTION ACCESS, ACTIVITY, OR STORAGE OF MATERIALS/DEBRIS/EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION ZONES, INCLUDING GRADING, INSTALLATION OF SITE IMPROVEMENTS, AND CRUBBING/LANDSCAPING. ALL CONSTRUCTION ACTIVITY MUST OCCUR OUTSIDE TREE PROTECTION ZONES (I.E. DRILLPIPES OF TREES).

As Constructed	Project Number
No Revisions:	201627886
Revised:	
Void:	

TREE PROTECTION DETAIL	
Designer:	M. KRELL
Detailer:	K. BERNHARDT
Sheet Number:	1 of 1
Structure Numbers	
GEN	Subject Sheets:
	Sheet Number
	13

DEPARTMENT OF PUBLIC WORKS
 201 WEST COLFAK AVENUE
 DENVER, CO 80202
 PHONE: (720) 913-4501
 FAX: (720) 913-4544

City Project Manager	10/9/2018 10:07 AM
File Name:	27886-TPD.DWG
Print Date:	10/9/2018 10:07 AM
City and County of Denver	NEWER, COLORADO 80207
Standard Tree Detail	FOR TREE PROTECTION ZONE
City of Denver	DATE: 10/2017
Denver	DISCIPLINE:

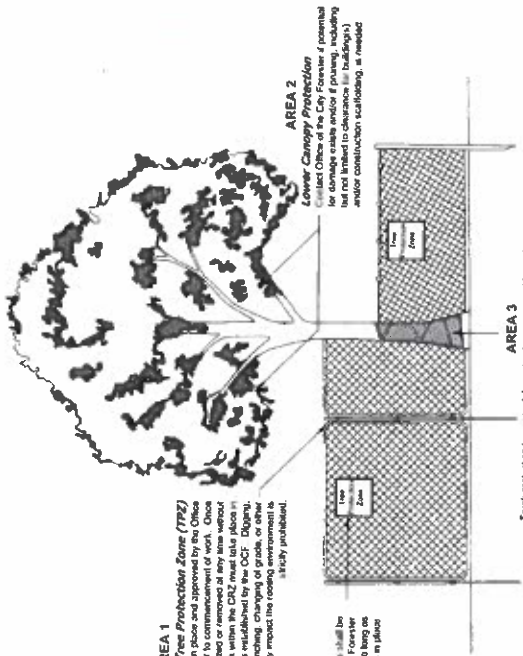
Sheet Revisions	Date:	Init.
Comments		

City Project Manager	10/9/2018 10:07 AM
File Name:	27886-TPD.DWG
Print Date:	10/9/2018 10:07 AM
City and County of Denver	NEWER, COLORADO 80207
Standard Tree Detail	FOR TREE PROTECTION ZONE
City of Denver	DATE: 10/2017
Denver	DISCIPLINE:

AECOM
 5000 South Quebec Street
 Denver, CO 80231-2778
 Phone: 303-425-8011

TREE PROTECTION ZONES

- The Tree Protection Zone (TPZ) shall be equal to eighteen inches (18") radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5" above soil line).
- The Critical Root Zone (CRZ) shall be equal to twelve inches (12") radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5" above soil line).
- The Structural Root Zone (SRZ) shall be equal to 0.8' (10.4") radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5" above soil line).



- AREA 1**
 Outer perimeter of Tree Protection Zone (TPZ)
 Tree Protection Zone (TPZ) shall be established by the Office of the City Forester (OCF) prior to commencement of work. Once approved, TPZ may not be resized or removed at any time without prior approval from OCF. Work within the CRZ must take place in accordance with the standards established by the OCF. Digging, grading, or other activities that may potentially impact the existing environment is strictly prohibited.
- AREA 2**
 Inner Perimeter of Tree Protection Zone (CRZ)
 Critical Root Zone (CRZ) shall be established by the Office of the City Forester (OCF) prior to commencement of work. Once approved, CRZ may not be resized or removed at any time without prior approval from OCF. Work within the CRZ must take place in accordance with the standards established by the OCF. Digging, grading, or other activities that may potentially impact the existing environment is strictly prohibited.
- AREA 3**
 Trunk Protection Zone (TPZ)
 Trunk protection is required if construction occurs within the CRZ. Construction within CRZ is only permitted when equipment is operated exclusively on existing hardscape, and no soil compaction takes place. Any work in CRZ must be approved by the Office of the City Forester prior to commencement of activity.
- NOTES**
- Office of the City Forester, Tree Retention and Protection Specifications shall be followed throughout duration of project.
 - Damage to protected trees is subject to penalty per City Ordinance.
 - Tree protection shall be installed prior to commencement of demolition/construction activities, approved by Office of the City Forester staff, and shall remain in place until Certificate of Occupancy is issued by the City & County of Denver.
 - Once approved by the Office of the City Forester, the Tree Protection Zone shall not be resized, modified, removed, or altered in any manner without prior written approval.
 - Entrances/access to the Tree Protection Zone is not permitted without prior written approval from the Office of the City Forester.
 - Materials, debris, equipment, or site amenities shall be stored within the Tree Protection Zone without prior written approval from the Office of the City Forester.
 - While tree protection fencing is in place, trees shall be deep root watered at an interval of once per week when temperatures are at or above 50-degrees F. Trees shall be watered at the rate of 10 gallons per inch caliper.
 - Minimum Tree Protection Zone, Area 1, fencing shall be orange plastic safety fencing, min. 48" in height, top secured to metal T-posts with 12-gauge wire woven through top of fencing for entire length.
 - Heavy duty T-posts shall be placed so that wire & fence are taut
 - Chain link fencing is recommended and may be required by the Office of the City Forester where heavy construction activity is adjacent to existing tree.
 - "Tree Protection Zone" signs shall remain in place as posted by Office of the City Forester and shall be maintained in the condition in which they were installed.

City and County of Denver	NEWER, COLORADO 80207
Standard Tree Detail	FOR TREE PROTECTION ZONE
City of Denver	DATE: 10/2017
Denver	DISCIPLINE:



Some work is before
Call before you dig.

TREE PROTECTION NOTES:

- EXISTING FLOW TREES SHALL BE PROTECTED IN PLACE PER FORESTRY STANDARDS AND SPECIFICATIONS.
- NO CONSTRUCTION ACCESS, ACTIVITY OR STORAGE OF MATERIALS/DEBRIS/EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION ZONES, INCLUDING GRADING, INSTALLATION OF SITE IMPROVEMENTS, AND GRUBBING/LANDSCAPING.
- ALL CONSTRUCTION ACTIVITY MUST OCCUR OUTSIDE TREE PROTECTION ZONES (i.e. DRIPLINES OF TREES).

- 35th STA 152+38 LT TO LOWELL STA 3001+45 LT
REMOVE 8' LF CURB HEAD AND GUTTER
REMOVE 1' LF CURB AND GUTTER
REMOVE 12.3 SY ASPHALT MAT
- STA 3001+25, 20.35' LT
MODIFY 1 EA INLET
- STA 3001+23 TO STA 3001+41 LT
REMOVE 21' SY SIDEWALK
- STA 3001+27 TO STA 3001+41 LT
REMOVE 9 SY CONCRETE CURB RAMP
- 35TH STA 153+80, 26.00' LT
ADJUST MANHOLE

LOWELL STREET

RESET GROUND SIGN
153+00

ADJUST MANHOLE

REMOVE INLET

35TH AVENUE

- LOWELL STA 3001+01 RT TO LOWELL STA 3001+10 RT
REMOVE 9 LF CURB HEAD
REMOVE 4 SY ASPHALT MAT
- STA 3000+83 TO STA 3001+18 RT
REMOVE 19 SY SIDEWALK

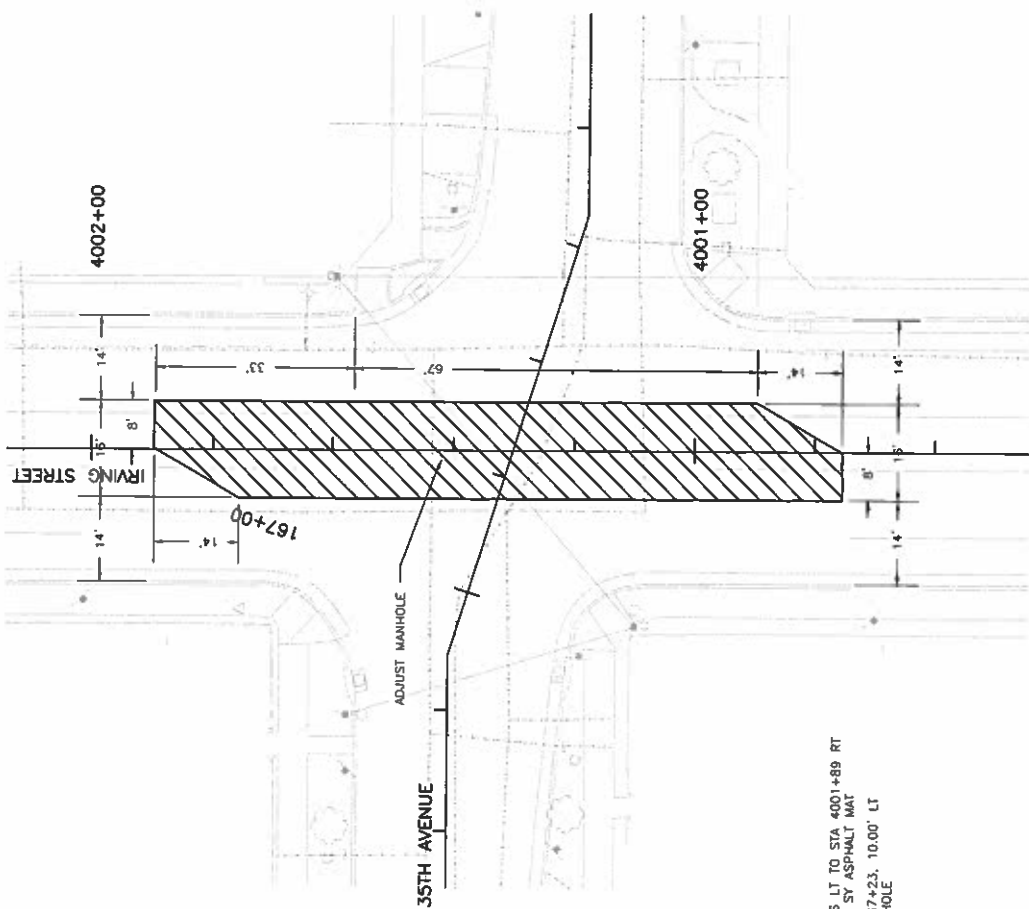


- REMOVAL OF ASPHALT MAT
- REMOVAL OF SIDEWALK
- REMOVAL OF CONCRETE CURB RAMP
- REMOVAL OF CURB
- REMOVAL OF CURB AND GUTTER
- TREE PROTECTION AREA

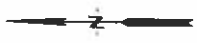
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0000			Designer: M. KRELL Structure Numbers Detailer: L. BUSANSKY		Sheet Number 14
			Sheet Subst: REMOVALS Subst Sheets: 3 of 5		



Know what's Below.
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STA 4000+76 LT TO STA 4001+89 RT
 REMOVE 191 SY ASPHALT MAT
 35TH STA 167+23, 10.00' LT
 ADJUST MANHOLE



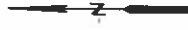
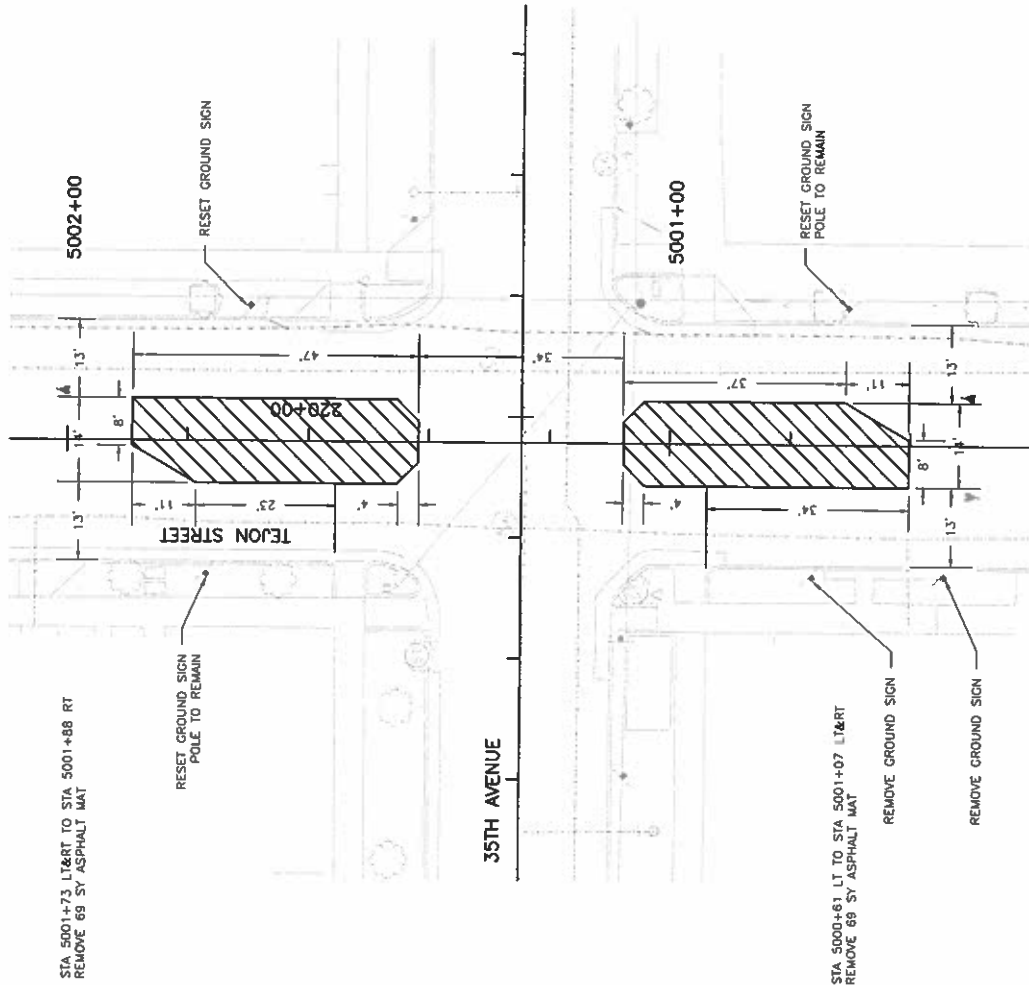
REMOVAL OF ASPHALT MAT

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File Name: 27886-RD-RM-01.DWG	City Project Manager	5200 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-894-2770	
Work Scale:	City Project Manager		
City Project Manager	City Project Manager	DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	
City Project Manager	City Project Manager	As Constructed No Revisions: Revised: Void:	
City Project Manager	City Project Manager	REMOVAL PLAN 35th AVENUE/IRVING STREET	
City Project Manager	City Project Manager	Designer: M. KRELL Detailer: L. BUSANSKY Structure Numbers REMOVALS Subtotal Sheets: 4 of 5	
City Project Manager	City Project Manager	Project Number 201827886	
City Project Manager	City Project Manager	Sheet Number 15	

Sheet Revisions	
Drawn	Comments



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REMOVAL OF ASPHALT MAT

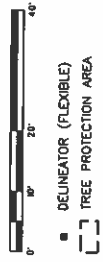
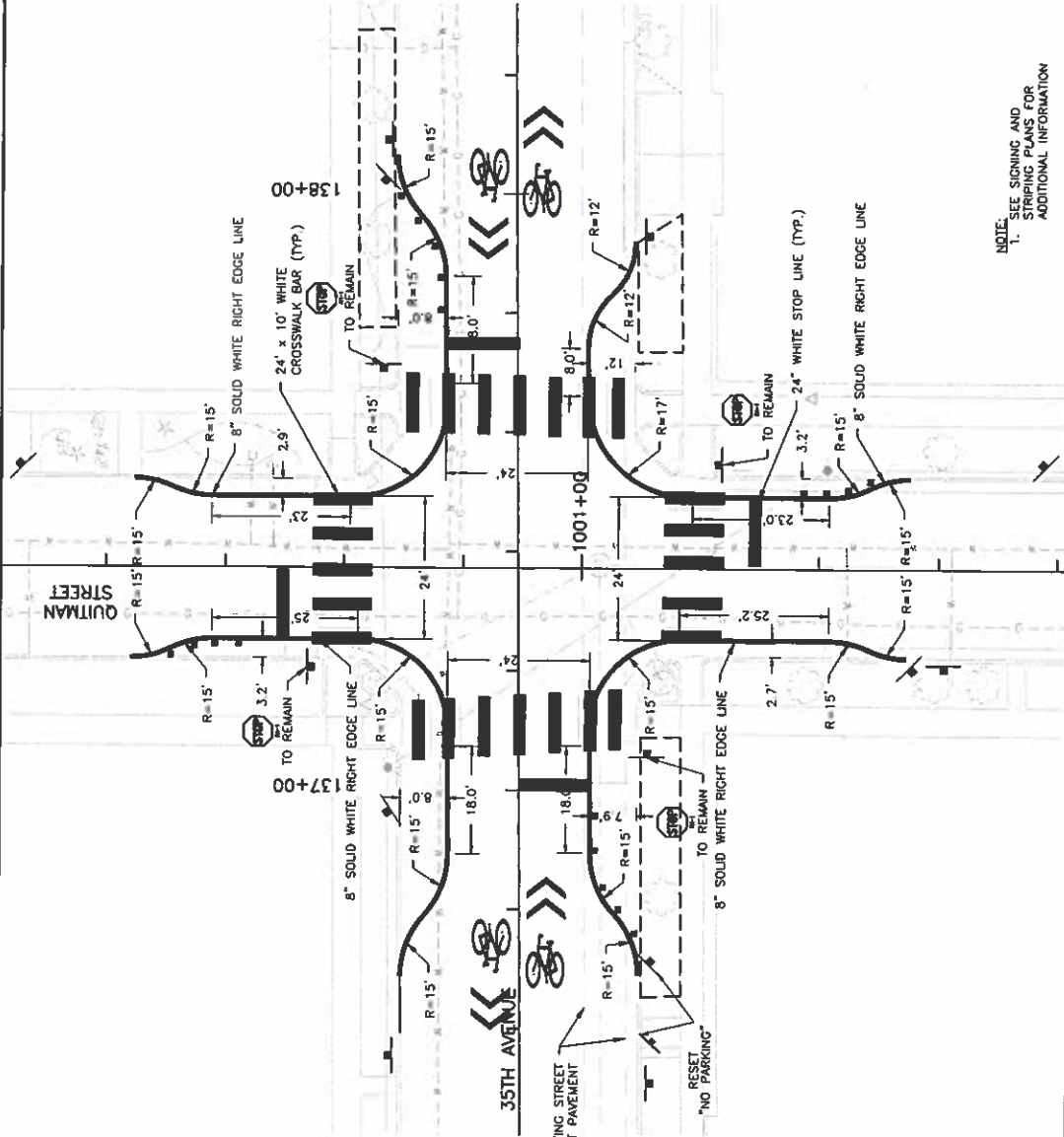
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2000 South Quebec Street Greenwood Village, CO 80111 Phone: 303-596-8700																		
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Date:	Comments	Init.																
As Constructed No Revisions: Revised: Void:		REMOVAL PLAN 35th AVENUE/TEJON STREET																
Designer: M. KRELL Structure Numbers:		Project Number: 201627886																
Drafter: L. BUSANSKY REMOVALS Subst. Sheets: 5 of 5		Sheet Number: 16																



Keep what's below.
Call before you dig.

TREE PROTECTION NOTES:

- EXISTING ROW TREES SHALL BE PROTECTED IN ACCORDANCE WITH FORESTRY STANDARDS AND SPECIFICATIONS.
- NO CONSTRUCTION ACCESS, ACTIVITY OR STORAGE OF MATERIALS/DEBRIS/EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION ZONES, INCLUDING GRADING, INSTALLATION OF SITE IMPROVEMENTS, AND CRUBBING/LANDSCAPING.
- ALL CONSTRUCTION ACTIVITY MUST OCCUR OUTSIDE TREE PROTECTION ZONES (i.e. DRIPPILES OF TREES).



NOTE: SEE SIGNING AND STRIPING PLANS FOR ADDITIONAL INFORMATION

APPROXIMATE LOCATION OF EXISTING STREET CAR TRACKS EMBEDDED IN ASPHALT PAVEMENT

RESET "NO PARKING"

Print Date: 3/23/2018 12:41 PM	File Name: 27886-RD-INTPL.DWG	Sheet Revisions	As Constructed	Project Number
Scale: 1"=40'	City Project Manager	Date: 0000	No Revisions:	201627886
City Project Manager	Vertical Scale:	Comments	Revised:	
AECOM	2300 South Quebec Street Denver, CO 80202		Year:	
	PHONE: (720) 913-4501		Designer: M. KRELL	Structure Numbers
	FAX: (720) 913-4944		Detailer: L. BUSANSKY	PLAN
			Sheet Subject: 1 of 5	Sheet Number 17

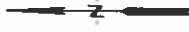
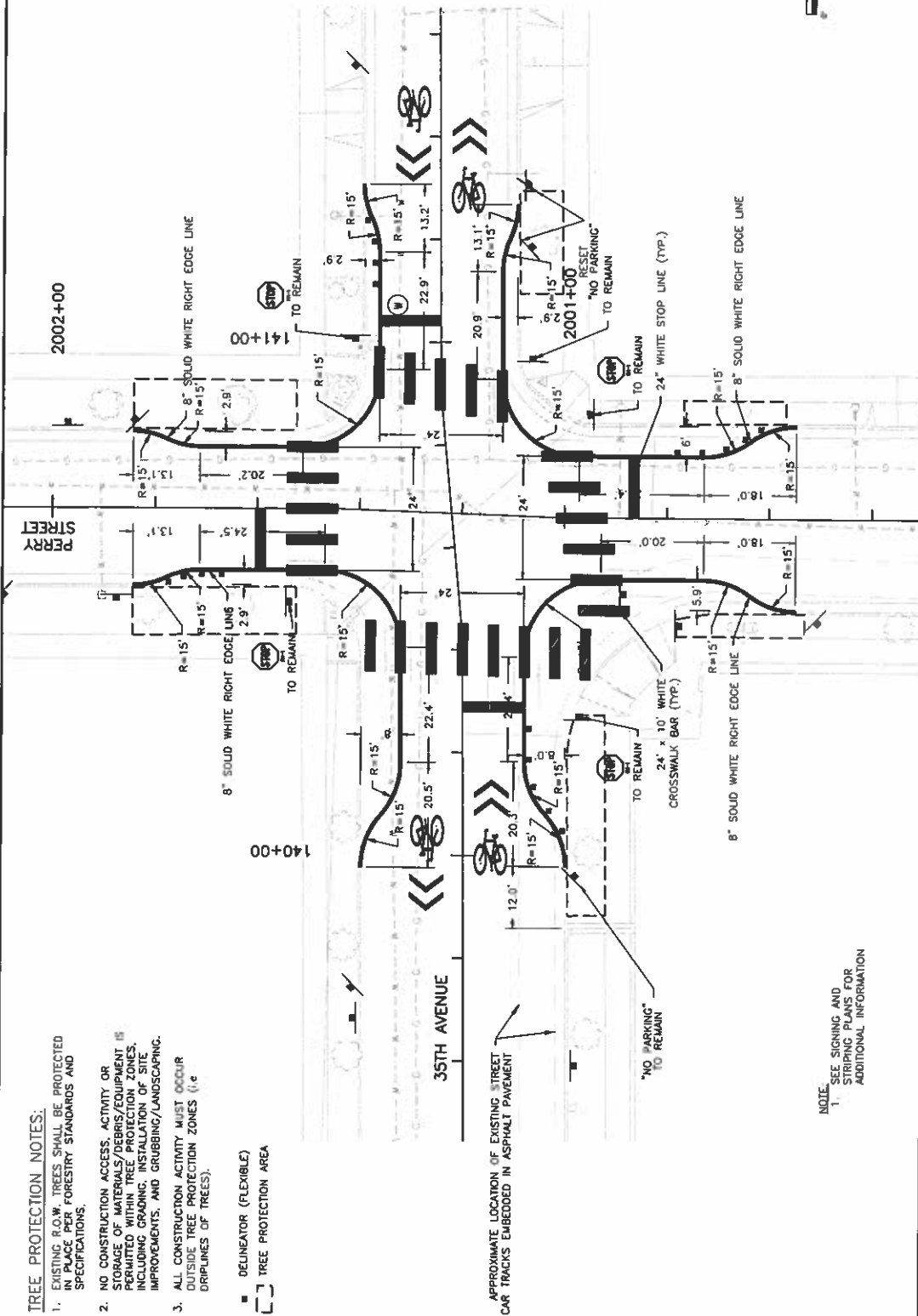


Know what's below.
Call before you dig.

TREE PROTECTION NOTES:

- EXISTING R.O.W. TREES SHALL BE PROTECTED IN PLACE PER FORESTRY STANDARDS AND SPECIFICATIONS.
- NO CONSTRUCTION ACCESS, ACTIVITY OR STORAGE OF MATERIALS/DEBRIS/EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION ZONES. INCLUDING GRUBBING, INSTALLATION OF SITE IMPROVEMENTS, AND GRUBBING/LANDSCAPING.
- ALL CONSTRUCTION ACTIVITY MUST OCCUR OUTSIDE TREE PROTECTION ZONES (i.e. DRIPLINES OF TREES).

- DELINEATOR (FLEXIBLE)
- TREE PROTECTION AREA



NOTE:
1. SEE SIGNING AND STRIPING PLANS FOR ADDITIONAL INFORMATION

Drawing Path: C:\pwworking\AECOM\NA\MARGIE.KRELL\DWG824\27886-RD-INTPLDWG

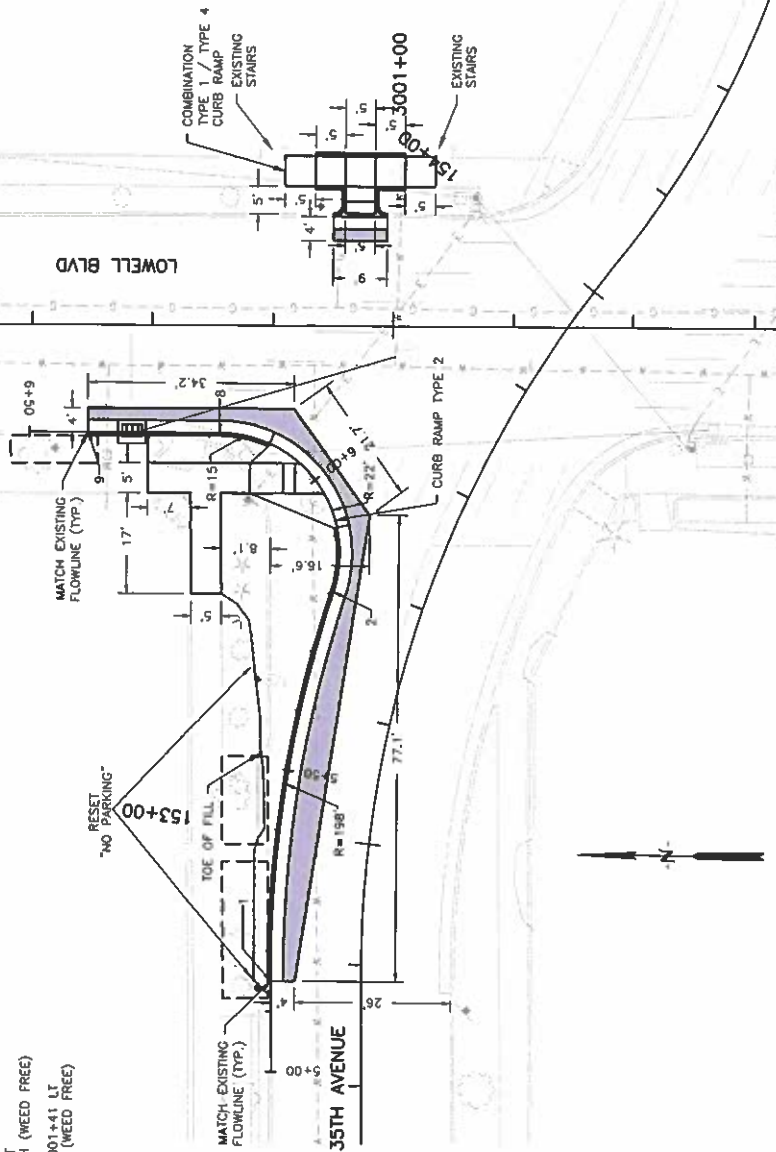
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INTERSECTION PLAN 35TH AVENUE/PERRY STREET		Project Number 201627006	
Designer: M. KRELL		Structure Numbers	
Detailer: L. BUSANSKY		PLAN	
Sheet Subsets: 2 of 5		Sheet Number 18	



Know what's below. Call before you dig.

LOWELL STA 3001+13 RT TO LOWELL STA 3001+18 RT
CONSTRUCT 3 SY CONCRETE SIDEWALK (4 INCH)
LOWELL STA 3000+98 RT TO LOWELL STA 3001+13 RT
HOT MIX ASPHALT (PATCHING) INCLUDED IN LEFT SIDE QUANTITY
CONSTRUCT 16 SY CONCRETE CURB RAMP
LOWELL STA 3000+93 RT TO LOWELL STA 3000+98 RT
CONSTRUCT 3 SY CONCRETE SIDEWALK (4 INCH)

35th STA 152+77 LT TO LOWELL STA 3001+50 LT
CONSTRUCT 23 TONS HOT MIX ASPHALT (PATCHING)
35th STA 153+40 LT TO STA 3001+41 LT
CONSTRUCT 19 SY CONCRETE SIDEWALK (4 INCH)
35th STA 153+47 LT TO LOWELL STA 3001+20 LT
CONSTRUCT 16 SY CONCRETE CURB RAMP
35th STA 159+77 LT TO LOWELL STA 3001+50 LT
CONSTRUCT 107 LF 6" CURB AND CUTTER - 2' CATCH PAN
35th STA 152+85 TO 153+47 LT
CONSTRUCT 616 SF ROCK MULCH (WEED FREE)
LOWELL STA 3001+21 TO STA 3001+41 LT
CONSTRUCT 81 SF ROCK MULCH (WEED FREE)



- TREE PROTECTION NOTES:**
- EXISTING R.O.W. TREES SHALL BE PROTECTED IN PLACE PER FORESTRY STANDARDS AND SPECIFICATIONS.
 - NO CONSTRUCTION ACCESS, ACTIVITY OR STORAGE OF MATERIALS/EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION ZONES, INCLUDING GRADING, INSTALLATION OF SITE IMPROVEMENTS, AND GRUBBING/LANDSCAPING.
 - ALL CONSTRUCTION ACTIVITY MUST OCCUR OUTSIDE TREE PROTECTION ZONES (i.e DRIPLINES OF TREES).

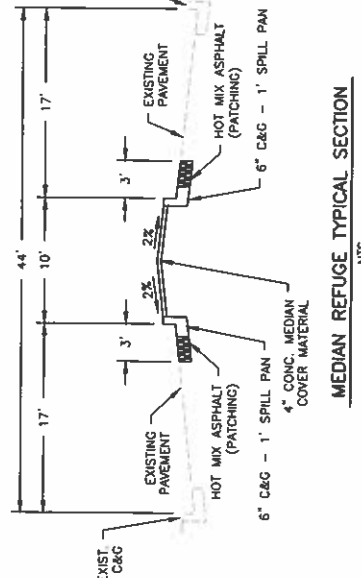
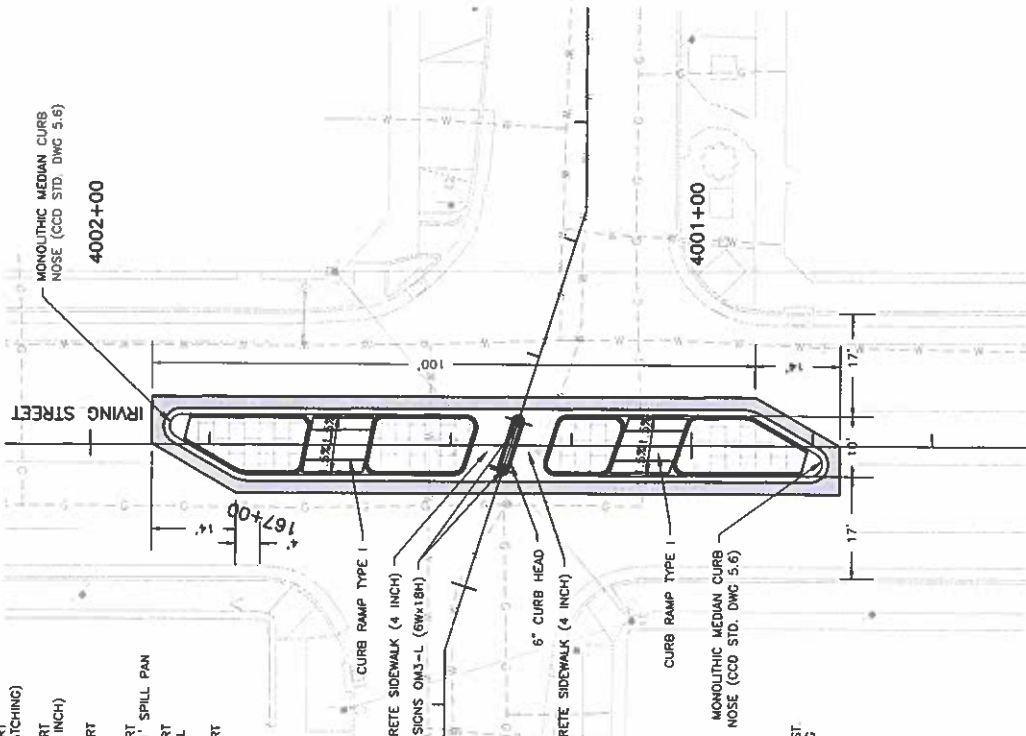
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Sheet Revisions Defn. Comments In/Out		As Constructed No Revisions: Revised: Void:		Designer: M. KRELL Structure Numbers Designer: L. BUSANSKY Numbers Sheet Subst: PLAN Subst Sheets: 3 of 5		Sheet Number 19	
0000		AECOM 8200 South Quebec Street Greenwood Village, CO 80111 Phone: 303-895-2770					



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- IRVING STA 4000+76 LT TO STA 4001+89 RT
CONSTRUCT 22 TONS HOT MIX ASPHALT (PATCHING)
- IRVING STA 4001+25 LT TO STA 4001+35 RT
CONSTRUCT 14 SF CONCRETE SIDEWALK (4" INCH)
- IRVING STA 4000+99 LT TO STA 4001+66 RT
CONSTRUCT 32 SF CONCRETE CURB RAMP
- IRVING STA 4000+78 LT TO STA 4001+87 RT
CONSTRUCT 134 LF CURB AND GUTTER - 1' SPILL PAN
- IRVING STA 4000+79 LT TO STA 4001+86 RT
CONSTRUCT 554 SF MEDIAN COVER MATERIAL
(4" INCH PATTERNEDED CONCRETE)
- IRVING STA 4001+29 LT TO STA 4001+31 RT
CONSTRUCT 23 LF 6" CURB HEAD

- NOTE: MEDIAN COVER MATERIAL SHALL HAVE A 2.5'x2.5' VARIABLE BRUSHED PATTERN.
- TRUNCATED DOMES SHALL BE INCLUDED IN THE COST OF THE CONCRETE CURB RAMP.
 - MEDIAN NOSE SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER - 1' SPILL PAN.

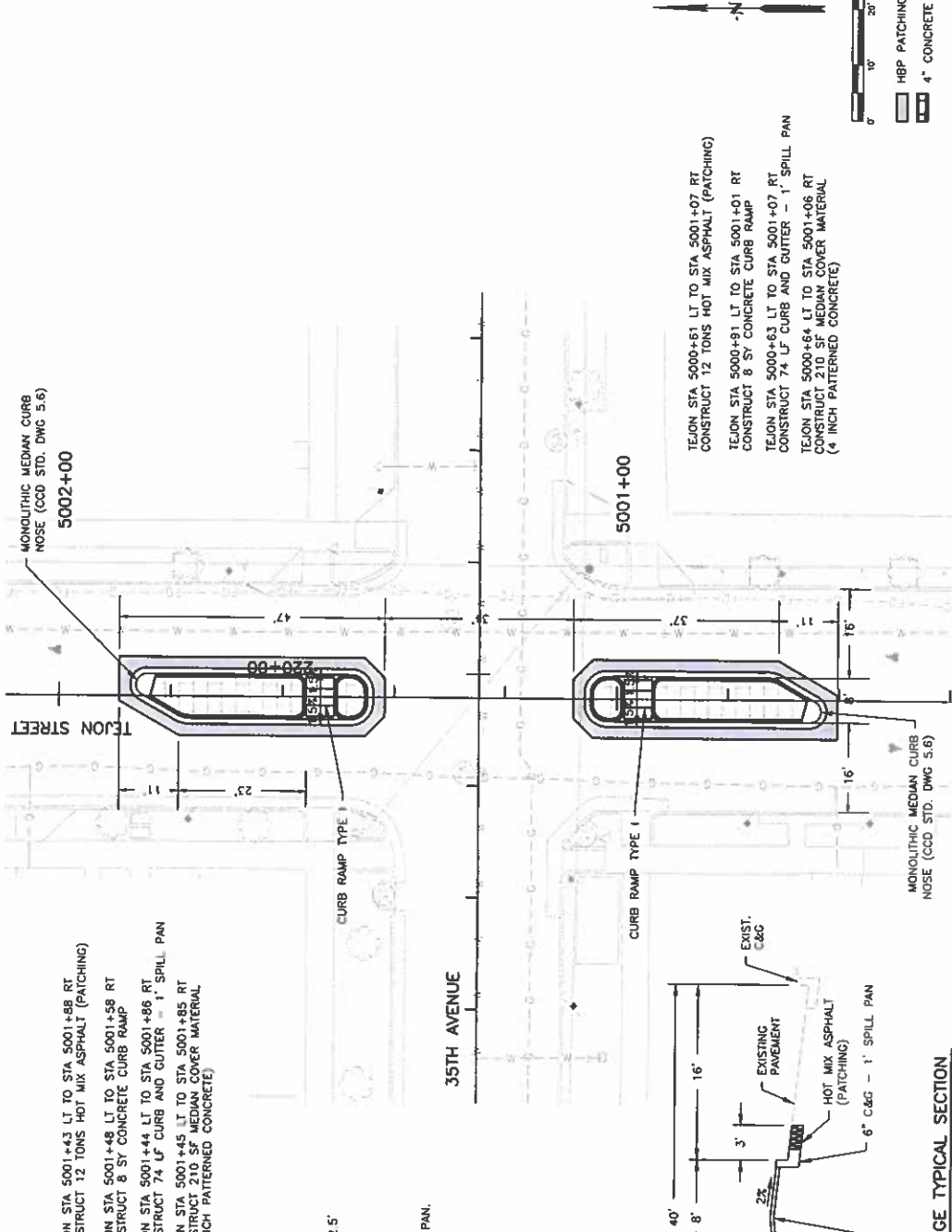


HBP PATCHING
 4" CONCRETE MEDIAN COVER MATERIAL

Print Date: 1/8/2019 12:01 PM File Name: 27886-RD-INTPL.DWG User: [redacted] City Project Manager: [redacted]		As Constructed No Revisions: Revised: Vtd:		INTERSECTION PLAN 35th AVENUE/IRVING STREET Designer: M. KRELL Detailer: L. BUSANSKY Structure Numbers PLAN Sheet Subsets: 4 of 5		Project Number 201627886 Sheet Number 20	
DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544				No Revisions: Revised: Vtd:		No Revisions: Revised: Vtd:	
AECOM 5200 South Quebec Street Greenwood Village, CO 80111 Phone: 303.896-2770		Sheet Revisions Date: [redacted] Comments: [redacted]		No Revisions: Revised: Vtd:		No Revisions: Revised: Vtd:	

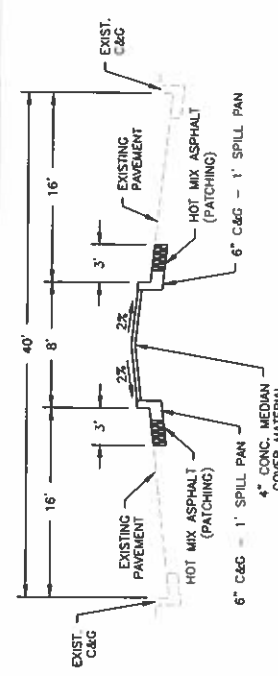


Know what's below.
Call before you dig.



TEJON STA 5001+43 LT TO STA 5001+88 RT
CONSTRUCT 12 TONS HOT MIX ASPHALT (PATCHING)
TEJON STA 5001+48 LT TO STA 5001+58 RT
CONSTRUCT 8 SY CONCRETE CURB RAMP
TEJON STA 5001+44 LT TO STA 5001+86 RT
CONSTRUCT 74 LF CURB AND CUTTER - 1' SPILL PAN
TEJON STA 5001+45 LT TO STA 5001+85 RT
CONSTRUCT 210 SF MEDIAN COVER MATERIAL
(4 INCH PATTERNEED CONCRETE)

- NOTE:
- MEDIAN COVER MATERIAL SHALL HAVE A 2.5'x2.5' VARIABLE BRUSHED PATTERN.
 - TRUNCATED DOMES SHALL BE INCLUDED IN THE COST OF THE CONCRETE CURB RAMP.
 - MEDIAN NOSE SHALL BE INCLUDED IN THE COST OF THE CURB AND CUTTER - 1' SPILL PAN.



MEDIAN REFUGE TYPICAL SECTION
NTS

TEJON STA 5000+61 LT TO STA 5001+07 RT
CONSTRUCT 12 TONS HOT MIX ASPHALT (PATCHING)
TEJON STA 5000+81 LT TO STA 5001+01 RT
CONSTRUCT 8 SY CONCRETE CURB RAMP
TEJON STA 5000+63 LT TO STA 5001+07 RT
CONSTRUCT 74 LF CURB AND CUTTER - 1' SPILL PAN
TEJON STA 5000+64 LT TO STA 5001+06 RT
CONSTRUCT 210 SF MEDIAN COVER MATERIAL
(4 INCH PATTERNEED CONCRETE)

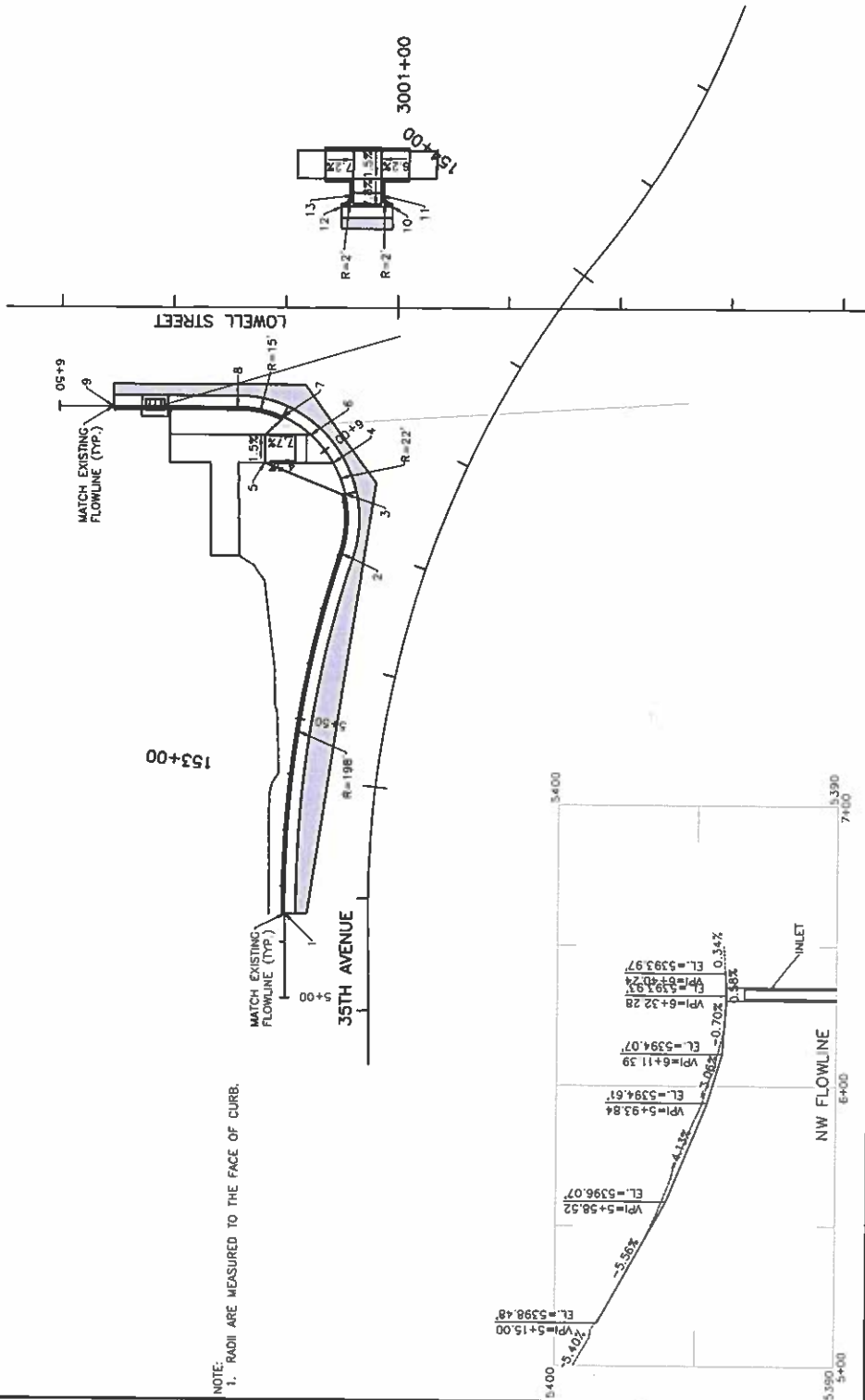
HBP PATCHING
 4" CONCRETE MEDIAN COVER MATERIAL

Print Date: 1/8/2019 12:01 PM File Name: 27886-RD-INTPLDWG User: [blank] City Project Manager: [blank]	Date: [blank] Comments: [blank]	No Revisions: [blank] Revised: [blank] Void: [blank]	As Constructed No Revisions: [blank] Revised: [blank] Void: [blank]	INTERSECTION PLAN 35th AVENUE/TEJON STREET Designer: M. KRELL Deliner: L. BUSANSKY Structure Numbers: [blank] PLAN Sheet Subject: [blank]	Project Number: 201627886 Sheet Number: 21 Sheet of 5
DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		DENVER THE CITY AND COUNTY OF DENVER		AECOM 4200 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-894-2770	



Know what's below. Call before you dig.

POINT	STATION	OFFSET	ELEVATION
1	152+77.34	15.00' LT	5399.48
2	153+37.91	15.00' LT	5395.16
3	153+47.31	18.13' LT	5394.71
4	153+51.25	22.22' LT	5394.50
5	153+47.27	33.70' LT	5395.06
6	153+53.91	27.93' LT	5394.30
7	3001+20.46	19.51' LT	5394.12
8	3001+28.66	17.75' LT	5394.12
9	3001+50.64	17.75' LT	5393.97
10	3001+01.07	18.10' RT	5393.57
11	3001+03.07	20.10' RT	5393.73
12	3001+08.07	20.10' RT	5393.74
13	3001+10.07	18.10' RT	5393.59



NOTE:
1. RADII ARE MEASURED TO THE FACE OF CURB.

As Constructed		Project Number	
No Revisions:	None	35TH AVENUE/LOWELL STREET	201627886
Revised:		Designer: M. KRELL	Structure Numbers
Void:		Detailer: L. BUSANSKY	Sheet Sheets: 3 of 6
		Sheet Subsets: DETAILS	Sheet Number 22

DEPARTMENT OF PUBLIC WORKS	
201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	
 DENVER <small>THE CITY AND COUNTY</small>	

Sheet Revisions	
Date:	Comments

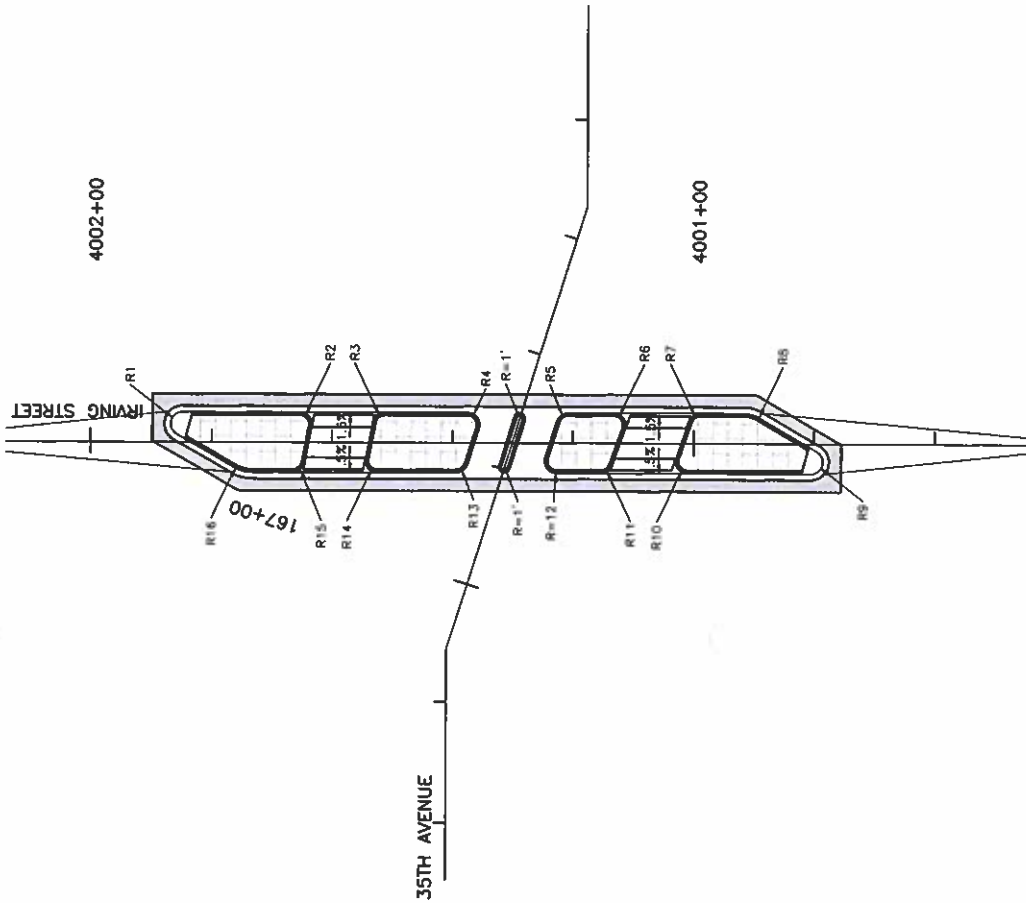
Print Date:	1/8/2019 12:01 PM
File Name:	27886-RD-DT-05.DWG
Plot Scale:	Vert. Scale:
City Project Manager:	
 <small>4200 South Quebec Street Denver, Colorado 80231 PHONE: 303-894-2770</small>	



Know what's below.
Call before you dig.

CURVE CENTER DATA			
CURVE	RADIUS	NORTHING	EASTING
R1	2'	403845.41	562919.44
R2	2'	403825.99	562919.50
R3	2'	403811.90	562919.54
R4	2'	403798.21	562919.58
R5	2'	403781.42	562919.62
R6	2'	403773.85	562919.65
R7	2'	403759.59	562919.69
R8	5'	403752.34	562916.71
R9	2'	403741.13	562913.74
R10	2'	403761.71	562913.68
R11	2'	403775.97	562913.64
R12	2'	403783.31	562916.62
R13	2'	403800.10	562913.57
R14	2'	403813.09	562913.53
R15	2'	403827.17	562913.49
R16	5'	403834.20	562916.47

- NOTE:
 1. MEDIAN COVER MATERIAL SHALL HAVE A 2.5'X2.5' VARIABLE BRUSHED PATTERN.
 2. RADII ARE MEASURED TO THE FACE OF CURB



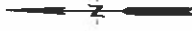
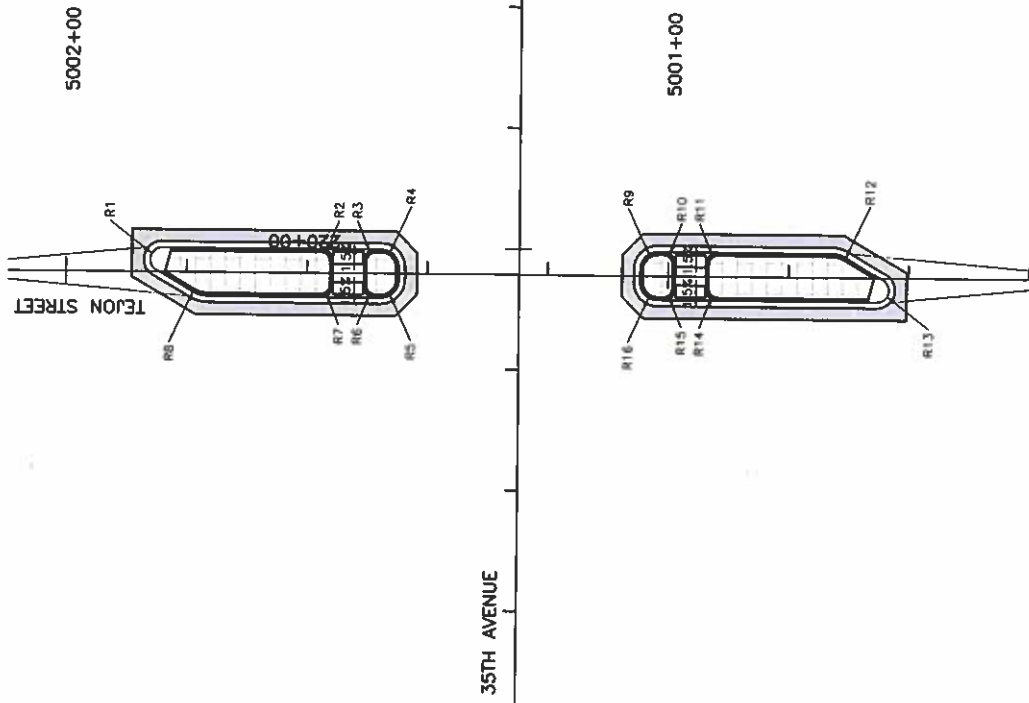
Plot Date: 1/8/2019 12:01 PM File Name: 27886-RD-01-05.DWG Plot Scale: Vert. Scale:		As Constructed No Revisions: Revised: Void:		Project Number 201627886	
Sheet Revisions Date: _____ Comments: _____ Init.: _____		DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		MEDIAN REFUGE DETAIL 35th AVENUE/IRVING STREET	
AECOM 8800 York Squire Street Greenwood Village, CO 80111 PHONE: 303-884-2770		Designer: M. KRELL Detailer: L. BUSANSKY Structure Numbers:		Sheet Subject: DETAILS Sheet Sheets: 4 of 6 Sheet Number: 23	



Know what's below.
Call before you dig.

CURVE CENTER DATA			
CURVE	RADIUS	NORTHING	EASTING
R1	2'	403055.68	568187.32
R2	2'	403829.22	568187.30
R3	2'	403820.22	568187.30
R4	3'	403819.22	568186.30
R5	3'	403819.72	568184.30
R6	2'	403820.22	568183.30
R7	2'	403829.22	568183.30
R8	5'	403847.96	568186.31
R9	3'	403773.22	568186.28
R10	2'	403772.22	568187.28
R11	2'	403763.22	568187.27
R12	5'	403744.48	568184.26
R13	2'	403736.76	568183.26
R14	2'	403763.22	568183.27
R15	2'	403772.22	568183.28
R16	3'	403773.22	568184.28

- NOTE:
1. MEDIAN COVER MATERIAL SHALL HAVE A 2.5'X2.5' VARIABLE BRUSHED PATTERN.
2. RADII ARE MEASURED TO THE FACE OF CURB.



- HBP PATCHING
- 4" CONCRETE MEDIAN COVER MATERIAL

Print Date: 1/8/2019 12:02 PM	As Constructed	Project Number
File Name: 27886-RD-01-05.DWG	Median Refuge Detail	201627886
Work: 35th	35th Avenue/Tejon Street	
City Project Manager	Designer: M. KRELL	Structure Numbers
	Detailer: L. BUSANSKY	Sheet Number
	Sheet Subject: DETAILS	5 of 6
		24

DEPARTMENT OF PUBLIC WORKS	
201 WEST COLFAX AVENUE DENVER, CO 80202	
PHONE: (720) 913-4501	FAX: (720) 913-4544

DENVER <small>THE REAL MILE CITY</small>	

Date:	Comments	In/L

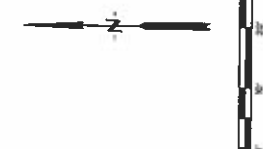
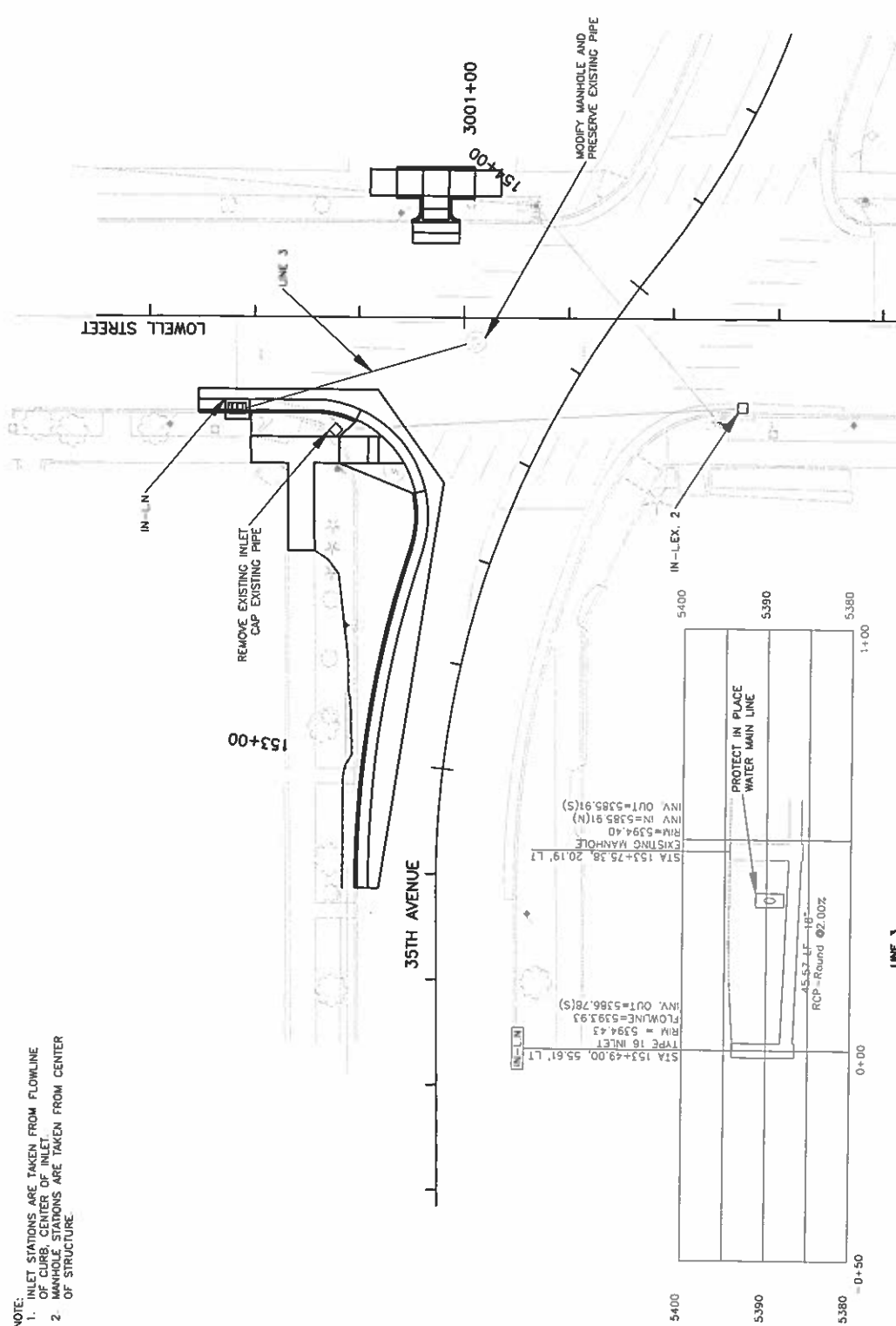
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9200 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-896-2700



Know what's below.
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- NOTE:
1. INLET STATIONS ARE TAKEN FROM FLOWLINE OF CURB, CENTER OF INLET.
 2. MANHOLE STATIONS ARE TAKEN FROM CENTER OF STRUCTURE.



Print Date: 3/23/2018 12:41 PM File Name: 27886-DR-PR.DWG Horiz. Scale: Vert. Scale: City Project Manager: 6200 South Quebec Street, Greenwood Village, CO 80111, PHONE: 303-894-2778 AECOM		DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		DRAINAGE PROFILE 35TH AVENUE/LOWELL STREET		Project Number 201627886						
As Constructed No Revisions: Revisions: Void:		Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>In/L</th> </tr> </thead> <tbody> <tr> <td>0000</td> <td></td> <td></td> </tr> </tbody> </table>		Date:	Comments	In/L	0000			Designer: T. EGGER Structure Numbers Detailer: C. LEVINSON Sheet Subcat: DRAINAGE Sheet Number: 25		Project Number 201627886
Date:	Comments	In/L										
0000												
LINE 3 STA 153+49.00 55.61' LT TYPE 16 INLET RIM = 5394.43 FLOWLINE=5393.93 INV. OUT=5386.78(S) INV. IN=5385.91(N) STA 153+75.38 20.19' LT EXISTING MANHOLE RIM=5394.40 INV. IN=5385.91(N) INV. OUT=5385.91(S) PROTECT IN PLACE WATER MAIN LINE 45.52 LF 16" RCP--Round @2.00% 0+50 0+00 5380 5390 5400 1+00		DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		As Constructed No Revisions: Revisions: Void:		Project Number 201627886						

TABULATION OF SIGNING

LOCATION	DIRECTION	STATION	SIEM PANEL SIZE	BACKGROUND COLOR	LEGEND / DESCRIPTION	ACTION	SIEM PANEL CLASS I #	SIEM PANEL CLASS I SIZE	SIEM PANEL CLASS I SPACING	NOTES
M 157H	EB	1010+00	12' x 18'	WHITE	TRUCKS VEHICLE STOP TO TRUCKS	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	12' x 18'	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL

TABULATION OF SIGNING

LOCATION	DIRECTION	STATION	SIEM CODE	BACKGROUND COLOR	LEGEND / DESCRIPTION	ACTION	SIEM PANEL CLASS I #	SIEM PANEL CLASS I SIZE	SIEM PANEL CLASS I SPACING	NOTES
M 157H	EB	1010+00	1010	WHITE	TRUCKS VEHICLE STOP TO TRUCKS	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL
M 157H	EB	1010+00	1010	GREEN	BI-CYCLE-SCTE	RELOCATE	6,25	12' x 18'	1	TO BE MANUFACTURED AS 1 SIGN PANEL

Project Number: 201827886

Designer: L. Busensky

Checker: M. Krell

Date: 3/23/2018

Sheet Number: 26

As Constructed

No Revisions:

Revised:

Void:

DEPARTMENT OF PUBLIC WORKS

201 WEST COLFAX AVENUE

DENVER, CO 80202

PHONE: (720) 913-4501

FAX: (720) 913-4544

DENVER

THE mile high city

Print Date: 3/23/2018 12:41 PM

File Name: 27886-IAB-SGN-01.DWG

Plot Scale: 1"=40'

City Project Manager: [Blank]

Sheet Revisions

Date:	Comments	Incl.
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Ver. Score:

0

0300 South Quebec Street

Denver, CO 80211

Phone: 303-957-5778



SUMMARY OF ROADWAY CONDITIONS

ITEM	MATERIAL CODE	DESCRIPTION	QUANTITY
01	D3.1 CCD Round Mount STD	REGULAR CROSSROAD SIGN: WHITE	64
02	D3.1 CCD Round Mount STD	REGULAR CROSSROAD SIGN: WHITE	11
03	D3.1 CCD Round Mount STD	REGULAR CROSSROAD SIGN: WHITE	3
04	D3.1 CCD Round Mount STD	REGULAR CROSSROAD SIGN: WHITE	3
05	D1.1c	BIKEWAY SIGN: WHITE	2
06	D1.2c	BIKEWAY SIGN: WHITE	30
07	D1.3c	BIKEWAY SIGN: WHITE	31
08	R3.1 (Special)	TRIAL SIGN: WHITE	7
09	R3.1 (Special)	TRIAL SIGN: WHITE	7
10	R3.1 (Special)	TRIAL SIGN: WHITE	7

ITEM	QUANTITY
STOCK SIGN COST (22) EACH TO ORDER	373.2
LABOR COST TO ORDER	32
SIGN MATERIAL COST TO ORDER	8.2
SIGN TOTAL COST TO ORDER	81

- NOTES:
- THIS SUMMARY IS FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE QUANTITIES AND MATERIALS LISTED.
 - THE CONTRACTOR SHALL VERIFY THE QUANTITIES AND MATERIALS LISTED.
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ITEM	DESCRIPTION	QUANTITY	ITEM	DESCRIPTION	QUANTITY
ITEM01	D3.1 CCD Round Mount STD	64	ITEM04	D3.1 CCD Round Mount STD	7
ITEM02	D3.1 CCD Round Mount STD	11	ITEM05	D3.1 CCD Round Mount STD	3
ITEM03	D3.1 CCD Round Mount STD	3	ITEM06	D3.1 CCD Round Mount STD	3
ITEM07	D3.1 CCD Round Mount STD	3	ITEM07	D3.1 CCD Round Mount STD	3
ITEM08	D3.1 CCD Round Mount STD	2	ITEM08	D3.1 CCD Round Mount STD	2
ITEM09	D3.1 CCD Round Mount STD	30	ITEM09	D3.1 CCD Round Mount STD	30
ITEM10	D3.1 CCD Round Mount STD	31	ITEM10	D3.1 CCD Round Mount STD	31
ITEM11	D3.1 CCD Round Mount STD	7	ITEM11	D3.1 CCD Round Mount STD	7
ITEM12	D3.1 CCD Round Mount STD	7	ITEM12	D3.1 CCD Round Mount STD	7

Print Date: 3/23/2018 12:41 PM
 File Name: S&S WITH BIKEWAYS 11-20.DWG
 Horiz. Scale: Vert. Scale:
 City Project Manager
AECOM
 6000 South Quebec Street
 Greenwood Village, CO 80111
 PHONE: 303-894-3770

Sheet Revisions

Date	Comments	By

DEPARTMENT OF PUBLIC WORKS
 201 WEST COLFAX AVENUE
 DENVER, CO 80202
 PHONE: (720) 913-4501
 FAX: (720) 913-4544

DENVER
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As Constructed

No Revisions:
 Revised:
 Void:

DESIGNER: M. HEUGH
 CHECKER: M. HEUGH
 DATE: M. HEUGH

SIGNING AND STRIPING PLAN
 35TH AVENUE BIKEWAY

Project Number: 201627866
 Sheet Number: 28
 Sheet Sheets: 3 of 4



Know what's Below.
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36 □ 6

↑ Wheeling 2.2

↔ Wheeling 0.5

↔ Wheeling 0.2

↔ Wheeling 1.7

↑ Wheeling 1.7

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36 □ 12

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36 □ 18

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File Name: S&S WITH BIKEWAYS 11-20.DWG
Horz. Scale: Veri. Scale:
City Project Manager: 8200 South Quebec Street, Greenwood Village, CO 80111, PHONE: 303-894-2370
AECOM

Sheet Revisions

Date:	Comments



DEPARTMENT OF PUBLIC WORKS
201 WEST OLFAK AVENUE
DENVER, CO 80202
PHONE: (720) 913-4501
FAX: (720) 913-4544

As Constructed
No Revisions:
Revised:
Void:

SIGNING AND STRIPING PLAN
35TH AVENUE BIKEWAY

Project Number
201627006
Design: M. HEUGH
Detail: M. HEUGH
Sheet Subst: S & S
Sheet Number
29



TABULATION OF PERMANENT PAVEMENT MARKINGS

Station	From	To	Epoxy Pavement Marking				Preformed Thermoplastic Pavement Marking				Total				
			Drum	Blank	Strip	Arrow	Word	Symbol	Strip	Arrow		Word	Symbol		
			880	159	2	8	180	668	240	75	1,640	397	51	182	65

- TRAFFIC PAVEMENT MARKING NOTES**
1. EPOXY PAVEMENT MARKING MATERIAL SHALL BE USED FOR LANE LINE AND CROSS LINES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 2. EPOXY PAVEMENT MARKING MATERIAL SHALL BE USED FOR THE SHARROW SYMBOL, BIKE SYMBOL AND BICYCLE STOP LINE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 3. 12" AND 24" WHITE STOP LINE SHALL BE REFLECTORIZED PREFORMED THERMO PLASTIC (MIN. 50 MIL THICKNESS) FULL WIDTH WITHOUT SEAMS.
 4. CROSSWALK MARKINGS SHALL BE REFLECTORIZED PREFORMED THERMO-PLASTIC (MIN. 50 MIL THICKNESS) FULL WIDTH WITHOUT SEAMS.
- 18" x 18" WHITE CROSSWALK BARS AT THESE LOCATIONS:
- LOWELL STREET
 - 24" x 10" WHITE CROSSWALK BARS AT THESE LOCATIONS:
 - CLYBURN STREET
 - PERRY STREET
 - IRVING STREET
 - TEJON STREET
5. AT LOWELL STREET, SINGLE YELLOW DASHED STRIPE ACROSS THE INTERSECTION SHALL BE INLAND PREFORMED PLASTIC TAPE UNLESS OTHERWISE APPROVED BY THE ENGINEER. DAMASK ARE 2' LONG LINES WITH 6" GAPS CENTERED IN EACH CROSS STREET TRAFFIC LANE.

SUMMARY OF PERMANENT PAVEMENT MARKING QUANTITIES

Epoxy Pavement Marking (sq ft)	Preformed Thermoplastic Pavement Marking (sq ft)		Inland Preformed Plastic Tape (sq ft)
	YELLOW	CHERRY	
195	2	2	45
PROJECT TOTAL	197	4	45

NOTES: 1- AS APPLICABLE USE FOR WHITE PAINT

FOR DETAILS OF PAVEMENT MARKING STRIPES AND LINES, CONSULT THE CITY OF DENVER STANDARD SPECIFICATIONS.

DEPARTMENT OF PUBLIC WORKS

201 WEST COUJAK AVENUE
DENVER, CO 80202
PHONE: (720) 913-4501
FAX: (720) 913-4544

DENVER
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TABULATION OF PAVEMENT MARKINGS

Project Number: 201627886

As Constructed

No Revisions:

Revised:

Void:

Designer: L. Buonsky
Structure: M. Kroll
Detailer:
Sheet Subject: STRIPING
Sheet Number: 1 of 1
Sheet Number: 30

Print Date: 3/23/2018 12:41 PM
 File Name: 27886-TAB-SR-01.DWG
 User: []
 Scale: []
 City Project Manager: []

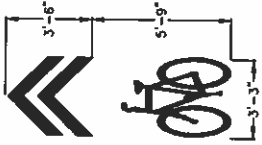
Sheet Revisions:

No.	Date	By	Comments
0000			

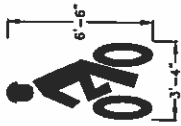
AECOM 8200 South Quebec Street
Greenwood Village, CO 80111
PHONE: 303-884-2770

NOTES:

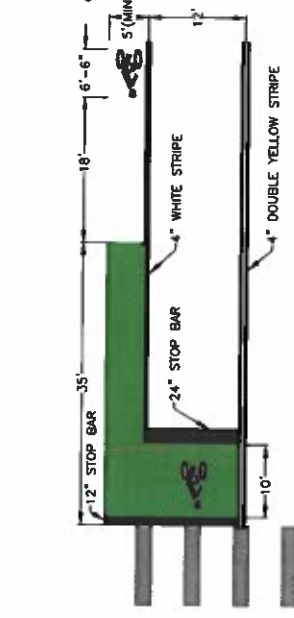
- 1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



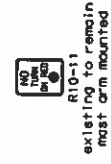
SHARROW SYMBOL MARKING
DETAIL



BIKE SYMBOL MARKING
DETAIL



BIKE BOX
MARKING
DETAIL



(A) NO PARKING ANY TIME
R10-1
12' x 18"



(B) STOP HERE ON RED
R10-5dL
24' x 30"



(C) TURNING VEHICLES
R10-15Sp
30' x 30"



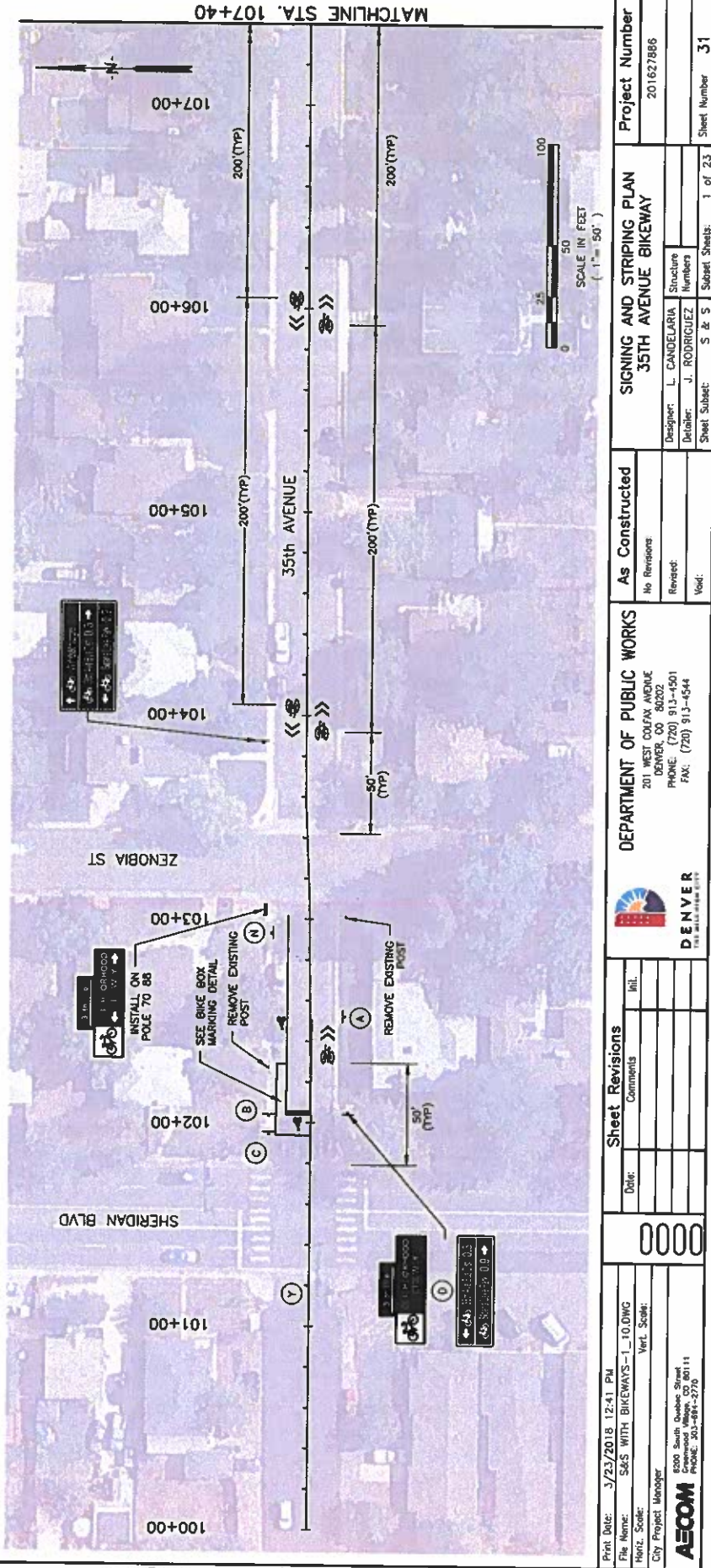
(D) BEGIN
M4-1
12' x 36"



Know what's below.
Call before you dig.



(N) NO PARKING ANY TIME
R7-1L
12' x 18"



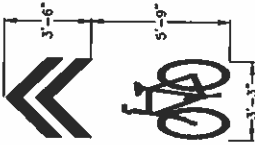
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File Name: S&S WITH BIKEWAYS-1-10.DWG	Design: L. CANDELARIA
Vert. Scale: 1" = 10.00'	Structure Numbers: J. RODRIGUEZ
City Project Manager: [Blank]	Sheet Subst: S & S
8000 South Quebec Street Denver, Colorado 80202 PHONE: 303-891-3770	As Constructed
AECOM	No Revisions:
	Revised:
	Week:
DEPARTMENT OF PUBLIC WORKS 201 WEST COLORED AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	
DENVER THE MILE HIGH CITY	
SIGNING AND STRIPING PLAN 35TH AVENUE BIKEWAY	
Sheet Number: 31	

Sheet Revisions	
Date:	Comments:

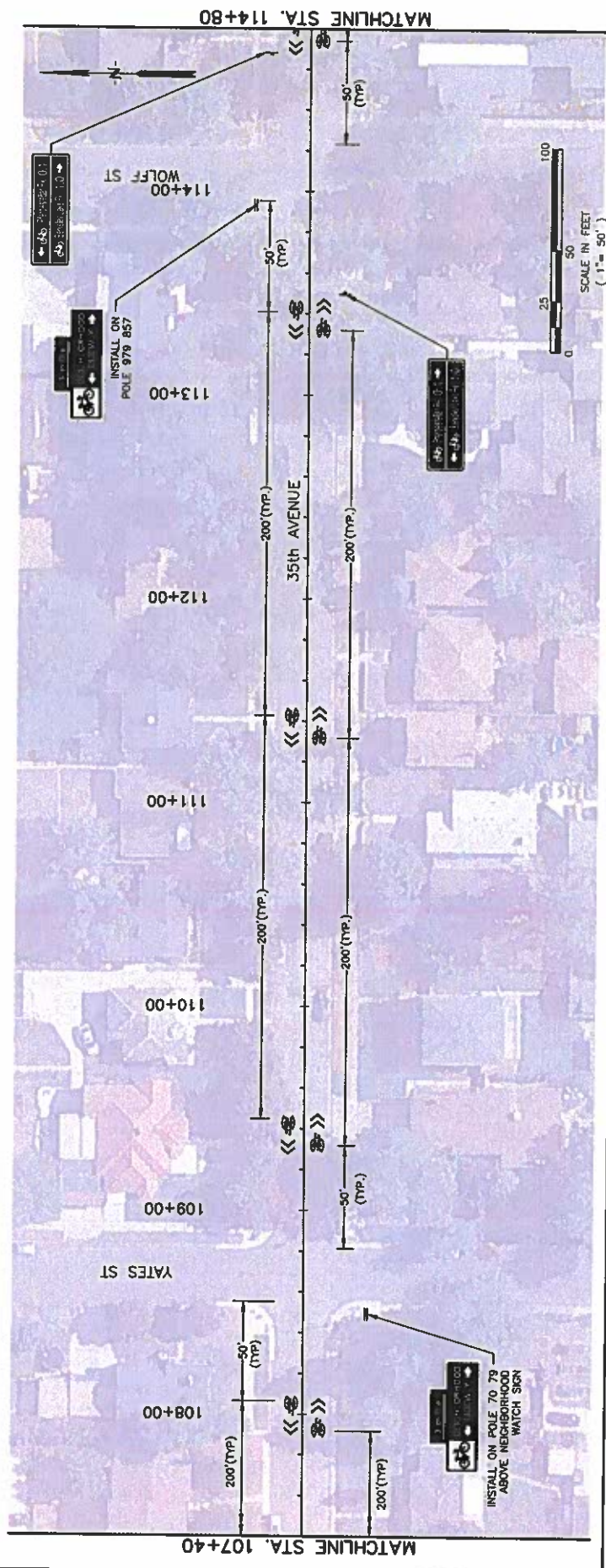


Know what's Below.
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NOTES:
1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



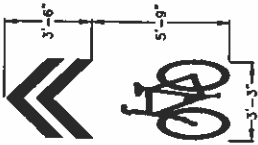
SHARROW SYMBOL MARKING DETAIL



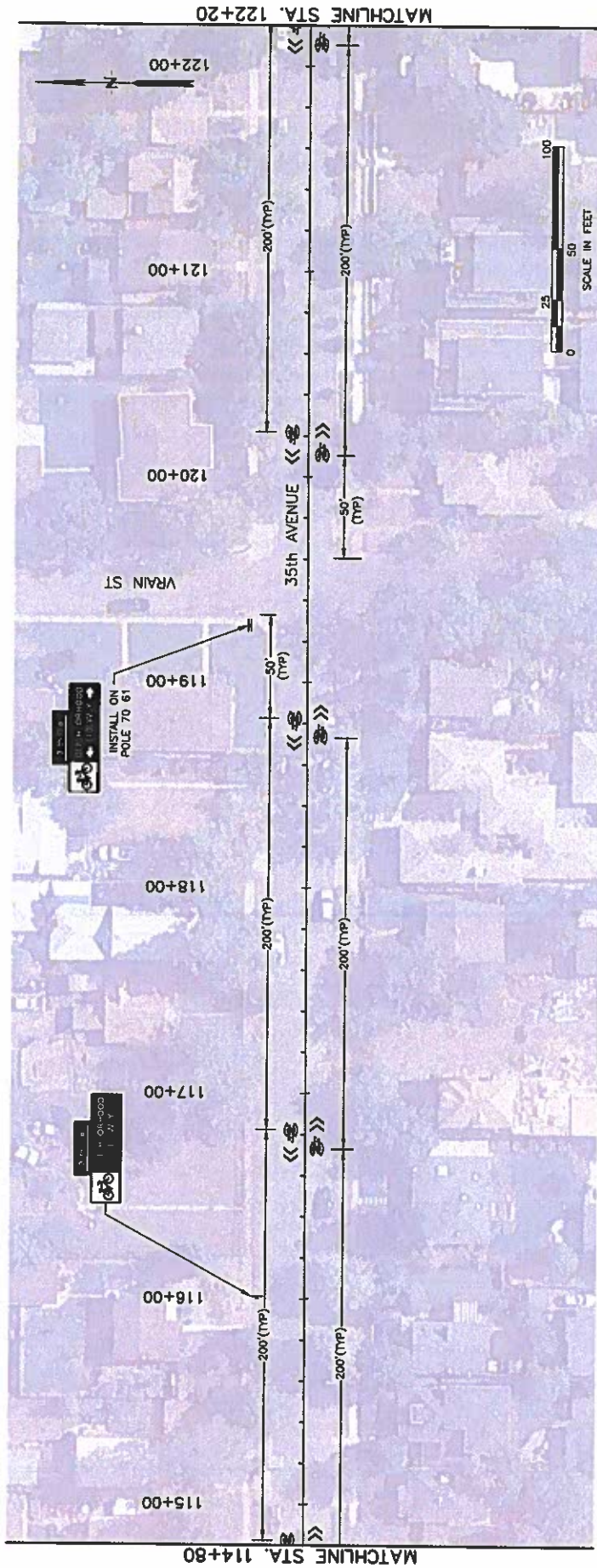
Print Date: 3/23/2018 12:42 PM File Name: S&S WITH BIKEWAYS-1-10.DWG Horiz. Scale: Vert. Scale: City Project Manager AECOM 6300 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-884-2770	0000 Sheet Revisions <table border="1"> <thead> <tr> <th>Date</th> <th>Comments</th> <th>By</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Date	Comments	By				DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544 DENVER <small>1938</small>	As Constructed No Revisions: Revised: Void:	SINGING AND STRIPING PLAN 35TH AVENUE BIKEWAY Designer: L. CANDELARIA Structure Numbers Detailer: J. RODRIGUEZ Sheet Submitt: S & S Submitt Sheets: 2 of 23	Project Number 201627886 Sheet Number 32
Date	Comments	By									



NOTES:
 1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.

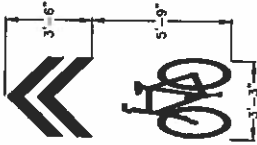


SHARROW SYMBOL MARKING DETAIL

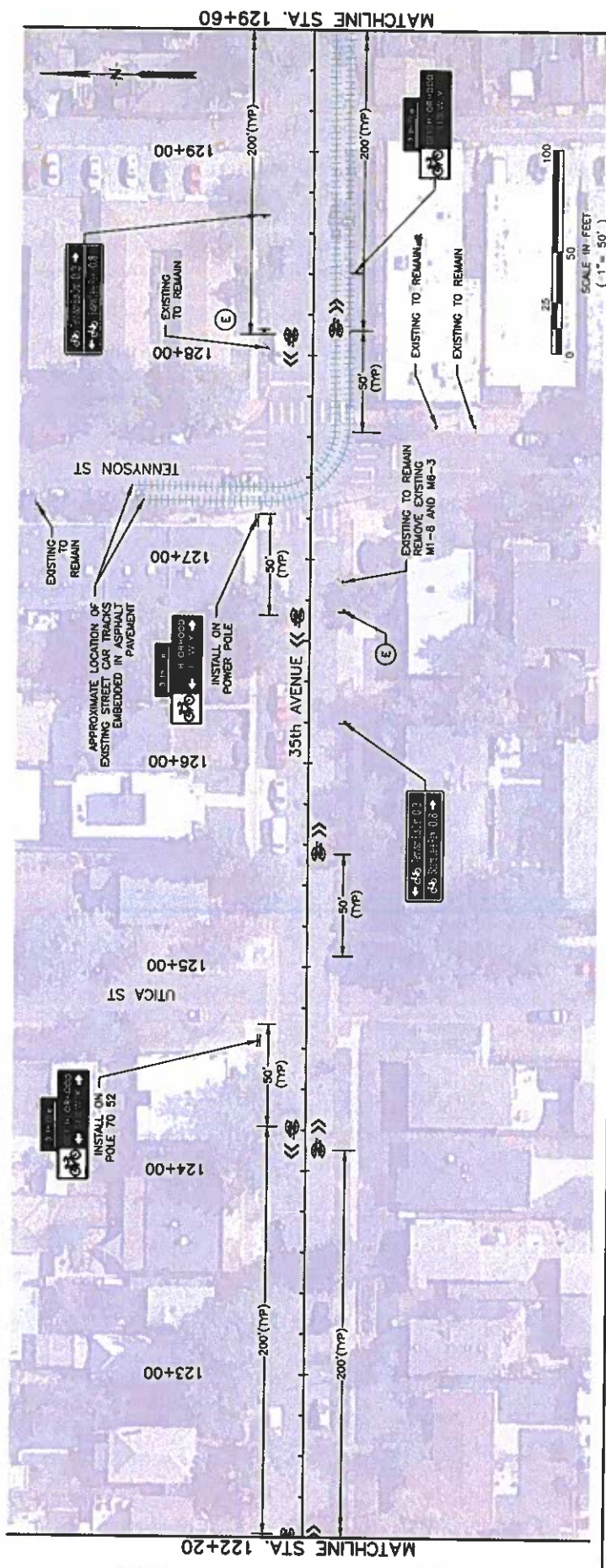
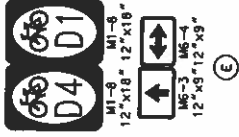


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Date:	Comments															

NOTES:
 1. ALL SIGNS SHALL BE LOCATED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



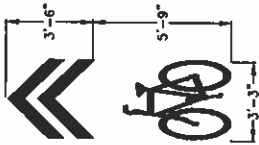
SHARROW SYMBOL MARKING DETAIL



Print Date: 3/23/2016 12:42 PM	File Name: S&S WITH BIKEWAYS - 1_10.DWG	Horiz. Scale: Vert. Scale:	City Project Manager: 6000 South Quebec Street, Denver, CO 80202, PHONE: 303-888-2770																										
<table border="1"> <thead> <tr> <th>Sheet Revisions</th> <th>Date</th> <th>Comments</th> <th>By</th> </tr> </thead> <tbody> <tr> <td>0000</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sheet Revisions	Date	Comments	By	0000				<table border="1"> <tr> <td colspan="2">DEPARTMENT OF PUBLIC WORKS</td> <td colspan="2">As Constructed</td> </tr> <tr> <td colspan="2">201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544</td> <td colspan="2">No Revisions: Revised: Void:</td> </tr> </table>		DEPARTMENT OF PUBLIC WORKS		As Constructed		201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		No Revisions: Revised: Void:											
Sheet Revisions	Date	Comments	By																										
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DEPARTMENT OF PUBLIC WORKS		As Constructed																											
201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		No Revisions: Revised: Void:																											
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SIGNED AND STRIPING PLAN		Project Number																											
35TH AVENUE BIKEWAY		201627886																											
Designer: L. CANDELARIA		Structure Numbers																											
Detailer: J. RODRIGUEZ		S & S																											
Sheet Subject: S & S		Sheet Number																											
		34																											
Sheet 4 of 23																													

NOTES:

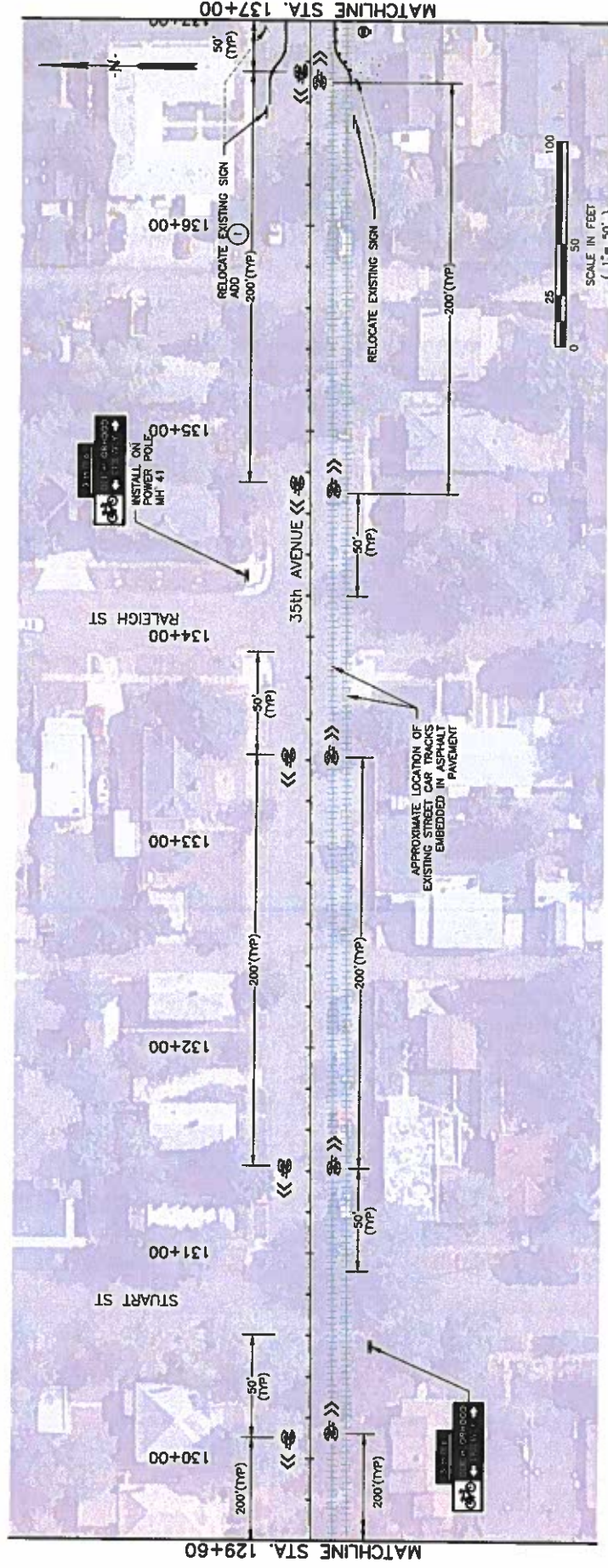
- 1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



SHARROW SYMBOL MARKING DETAIL



Know what's Below.
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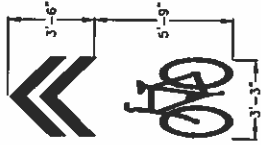


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File Name: S&S WITH BIKEWAYS-1_10.DWG		Design: L. CANDELARIA	
Horiz. Scale: Ver. Scale:		Detail: J. RODRIGUEZ	
City Project Manager		Structure Numbers	
AECOM 6000 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-884-2770		Sheet Subject: S & S	
Sheet Revisions		Subtotal Sheets: 5 of 23	
DATE:	REVISIONS:	Sheet Number: 35	

DEPARTMENT OF PUBLIC WORKS
201 WEST COLFAX AVENUE
DENVER, CO 80202
PHONE: (720) 913-4501
FAX: (720) 913-4544



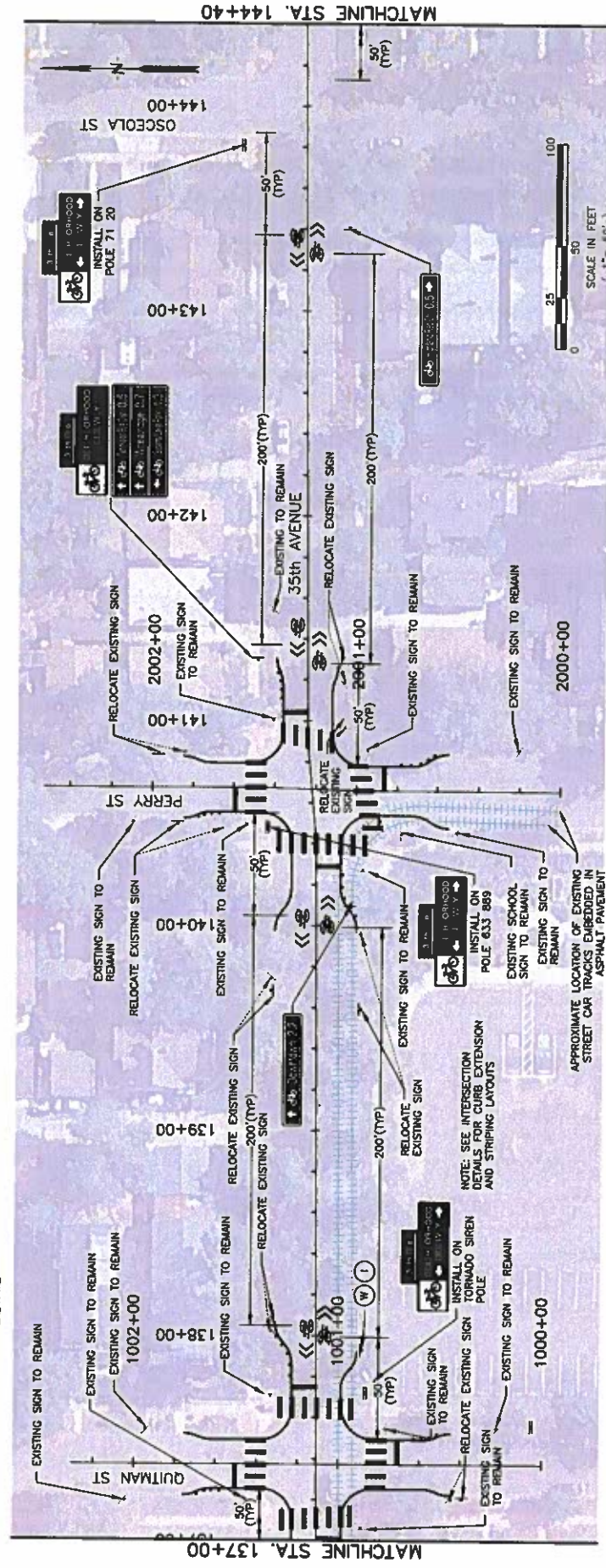
NOTES:
 1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



SHARROW
 SYMBOL MARKING
 DETAIL



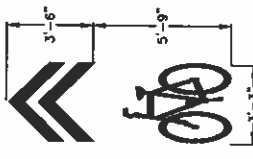
Know what's Below.
 Call before you dig.



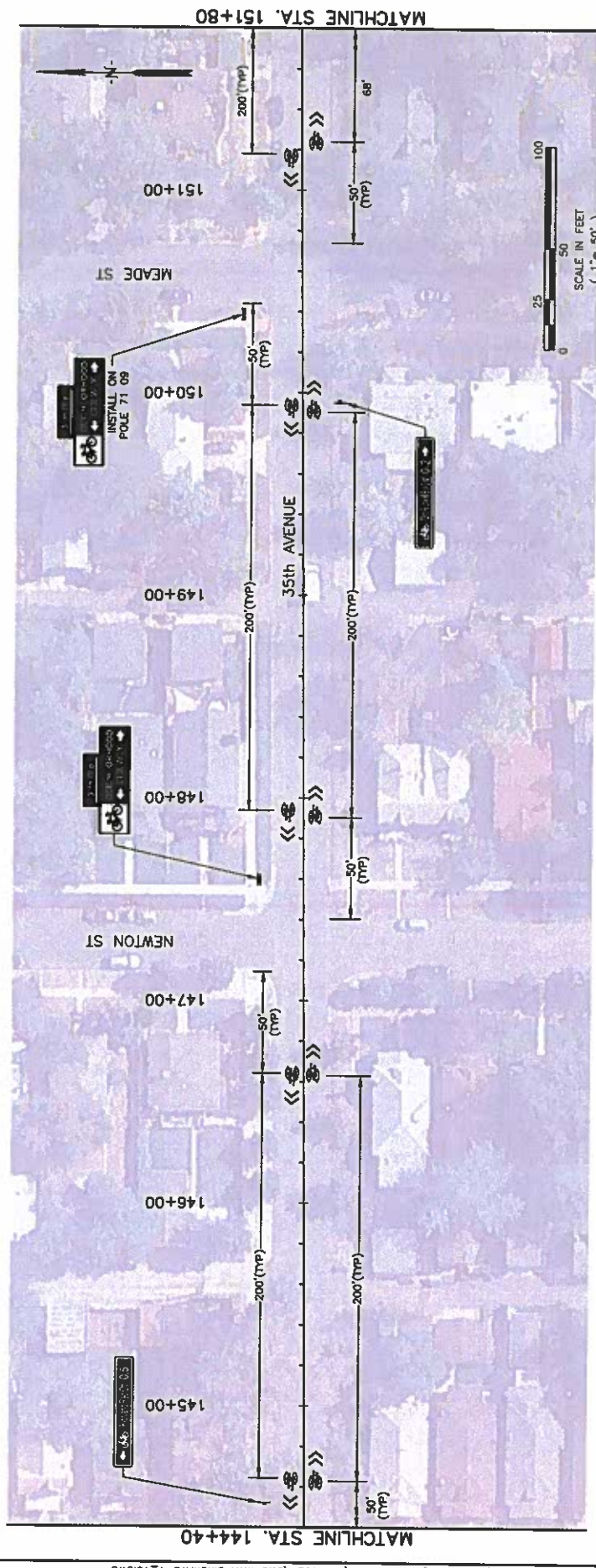
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AECOM 6000 South Quebec Street Denver, Colorado 80211 PHONE: 303-891-2770		DENVER THE COLORADO CAPITAL		Designer: L. CADELARIA Structure Numbers: Deliner: J. RODRIGUEZ	Sheet Number 36	
			Sheet Subject: S & S	Subject Sheets: 6 of 23		



NOTES:
 1. ALL SIGNS SHALL BE
 MOUNTED ON NEW SIGN POSTS
 UNLESS OTHERWISE NOTED.



SHARROW
 SYMBOL MARKING
 DETAIL

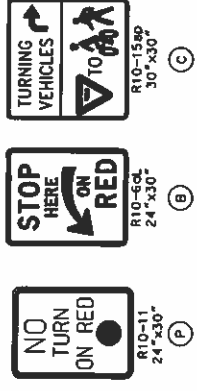
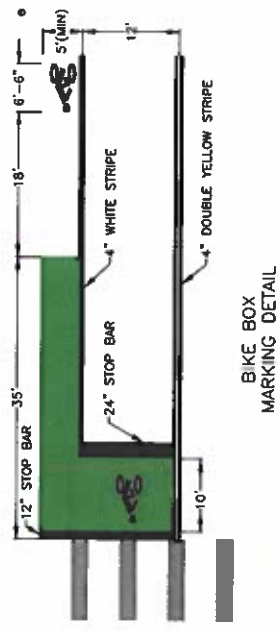
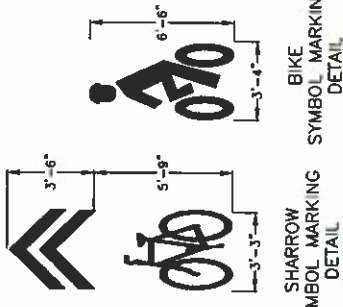


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File Name: S&S WITH BIKEWAYS - 1 - 10.DWG	Structure Numbers: 0000
City Project Manager: AECOM	Subplot Sheets: 7 of 23
City Project Manager: 6800 South Quebec Street, Greenwood Village, CO 80111, Phone: 303-894-2770	Sheet Number: 37
Department of Public Works 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	As Constructed: No Revisions
DENVER THE MILE HIGH CITY	Revised: Designer: L. CANDELARIA, October: J. RODRIGUEZ
Sheet Revisions	Void:
Date: Comments: Initials:	



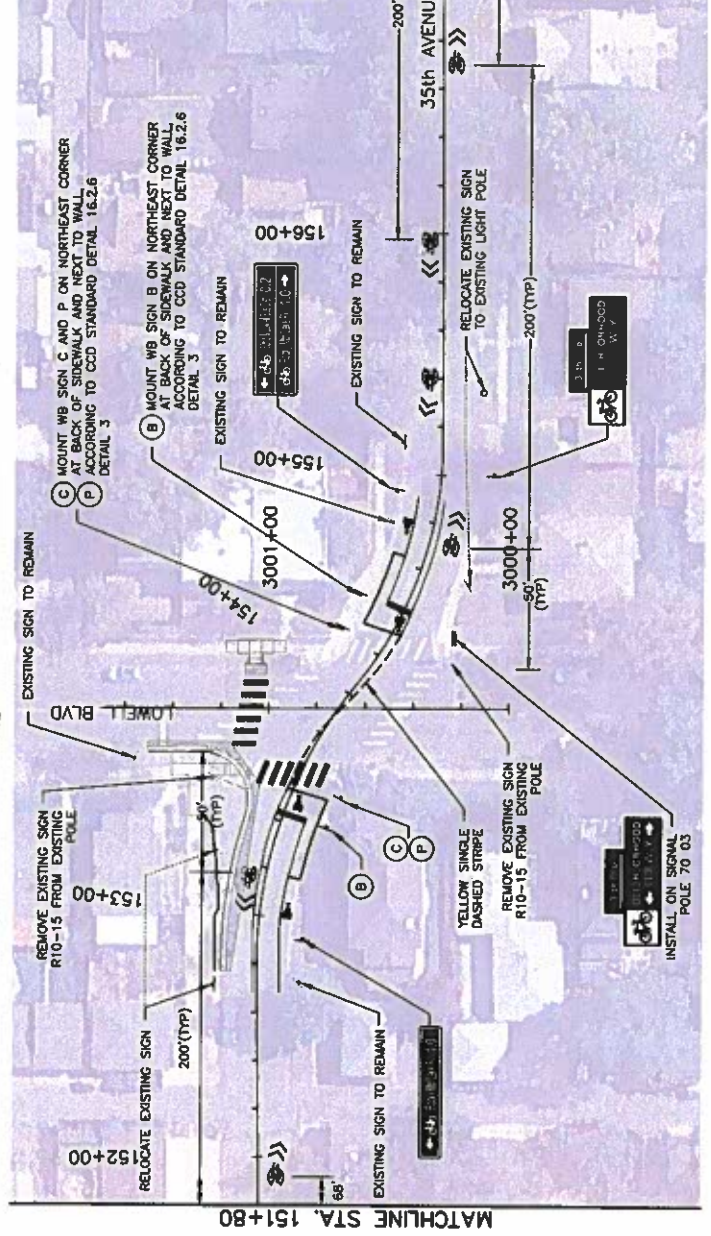
Know what's Below. Call before you dig.

- NOTES:
1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.
 2. SEE INTERSECTION DETAILS FOR CURB EXTENSION LAYOUT.



SHARROW MARKING SYMBOL MARKING DETAIL

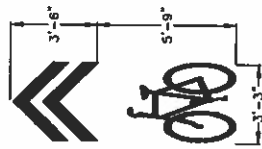
BIKE BOX MARKING DETAIL



Print Date: 3/23/2018 12:42 PM	File Name: S&S WITH BIKEWAYS-1_10.DWG	Sheet Revisions	Date:	0000	Sheet Number	201627886
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City Project Manager	6500 South Quebec Street Centennial, CO 80111 PHONE: 303-894-2770				As Constructed	
					No Revisions:	
					Revised:	
					Void:	
					As Constructed	
					Revised:	
					Void:	
					Department of Public Works	
					201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-6544	
					DESIGNER: L. CANDELARIA	
					DETAILER: J. RODRIGUEZ	
					Structure Numbers	
					Sheet Subject: S & S	
					Sheet Sheets: 8 of 23	
					Sheet Number	38



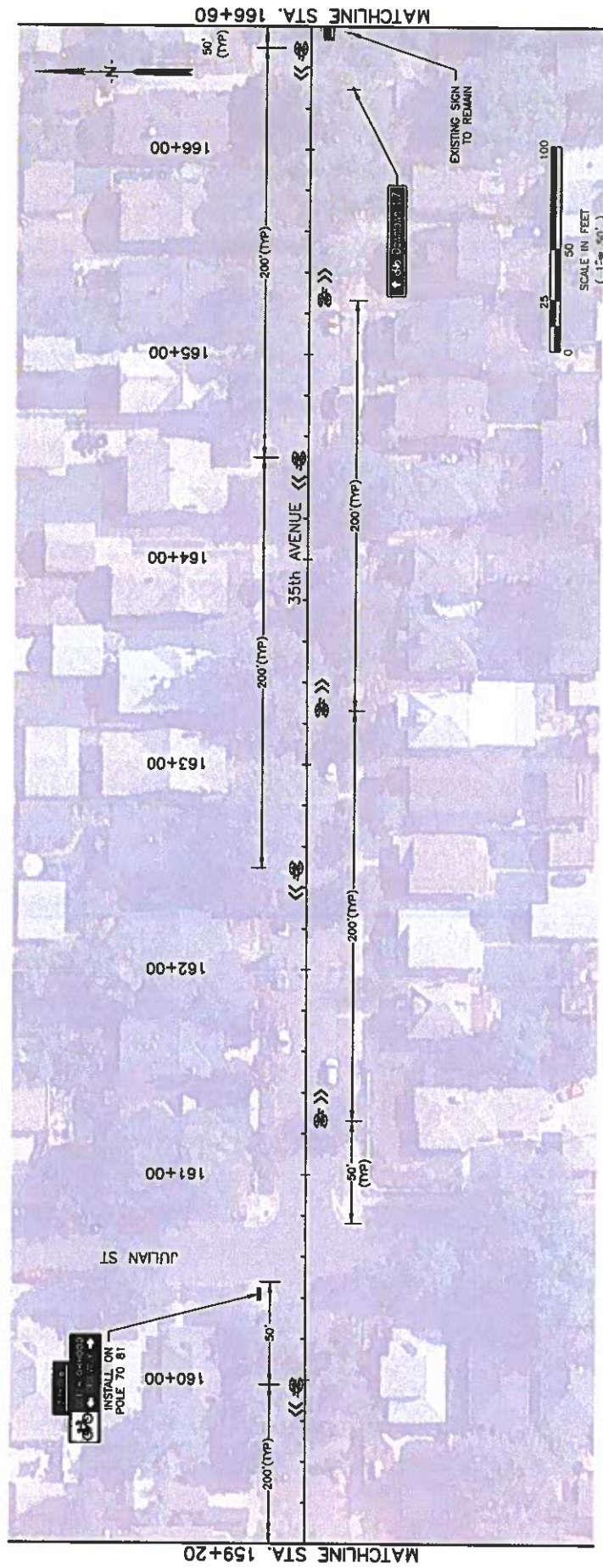
Know what's Below.
Call before you dig.



SHARROW
SYMBOL MARKING

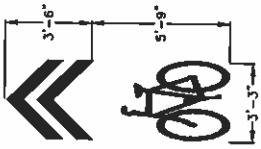
NOTES:

1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



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File Name: S&S WITH BIKEWAYS-1_10.DWG	Design: L. CANDELARIA
Rev: Scale: Ver: Scale:	Detail: J. RODRIGUEZ
City Project Manager	Structure Numbers
1800 Beckwith Street Colorado Springs, CO 80911 Phone: 303-694-2770	Sheet Subject: 5 & S
AECOM	Subject Sheets: 9 of 23
Sheet Revisions	Sheet Number: 39
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As Constructed	SIGNING AND STRIPING PLAN 35TH AVENUE BIKEWAY
No Revisions:	
Revised:	
Void:	
DEPARTMENT OF PUBLIC WORKS	
201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4344	
DENVER THE MILE HIGH CITY	
Sheet Revisions	
Date:	Rev:
Comments	

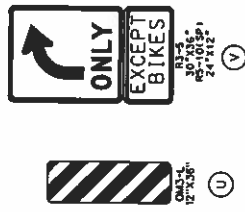
NOTES:
 1. ALL SIGNS SHALL BE MOUNTED ON SIGN POSTS UNLESS OTHERWISE NOTED.



SHARROW SYMBOL MARKING



SHARROW SYMBOL STRIPING DETAIL



U



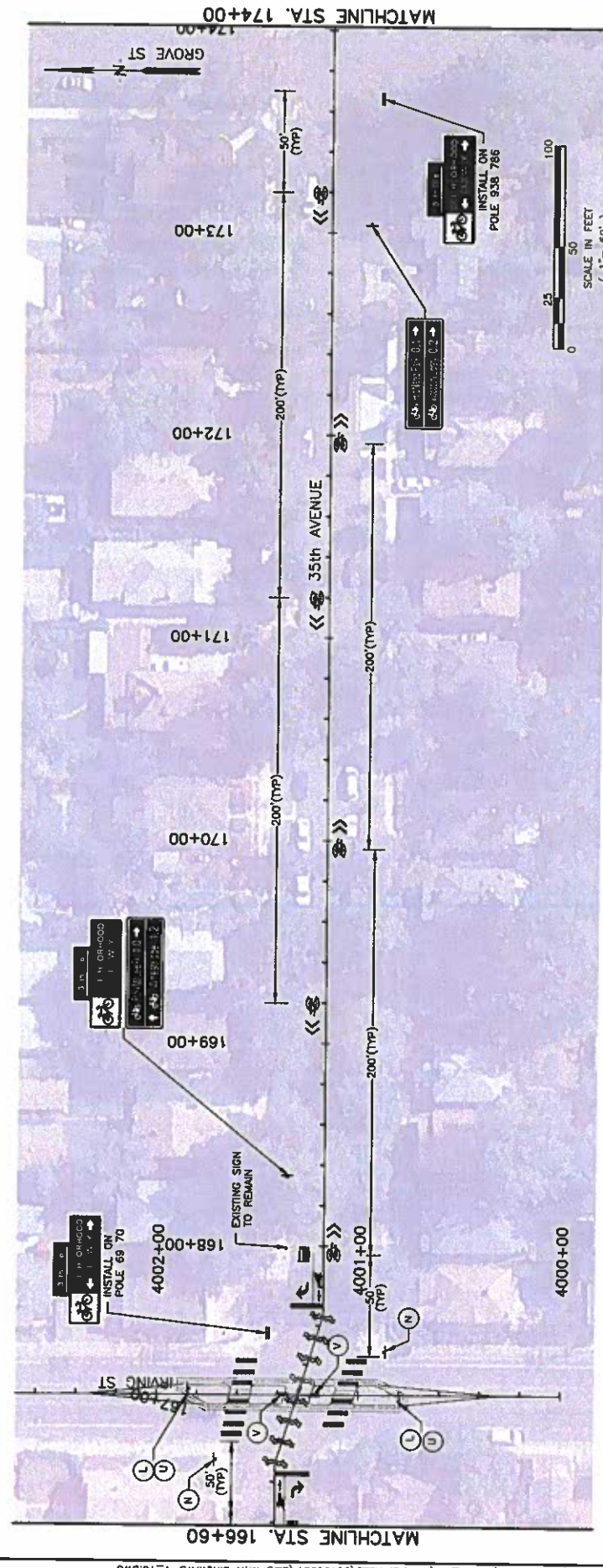
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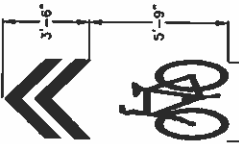


Print Date: 3/23/2018 12:42 PM	Project Number: 201627886
File Name: S&S WITH BIKEWAYS-1-10.DWG	Design: L. CANDELARIA
Plot: Scale: Vert. Scale:	Detail: J. RODRIGUEZ
City Project Manager: 8000 South Duquesne Street, Greenwood Village, CO 80111, PHONE: 303-894-2770	Sheet Subject: S & S
Sheet Revisions:	Sheet Number: 40
As Constructed:	Department of Public Works
No Revisions:	201 WEST COLFAX AVENUE, DENVER, CO 80202
Revised:	PHONE: (720) 913-1501
Void:	FAX: (720) 913-4544

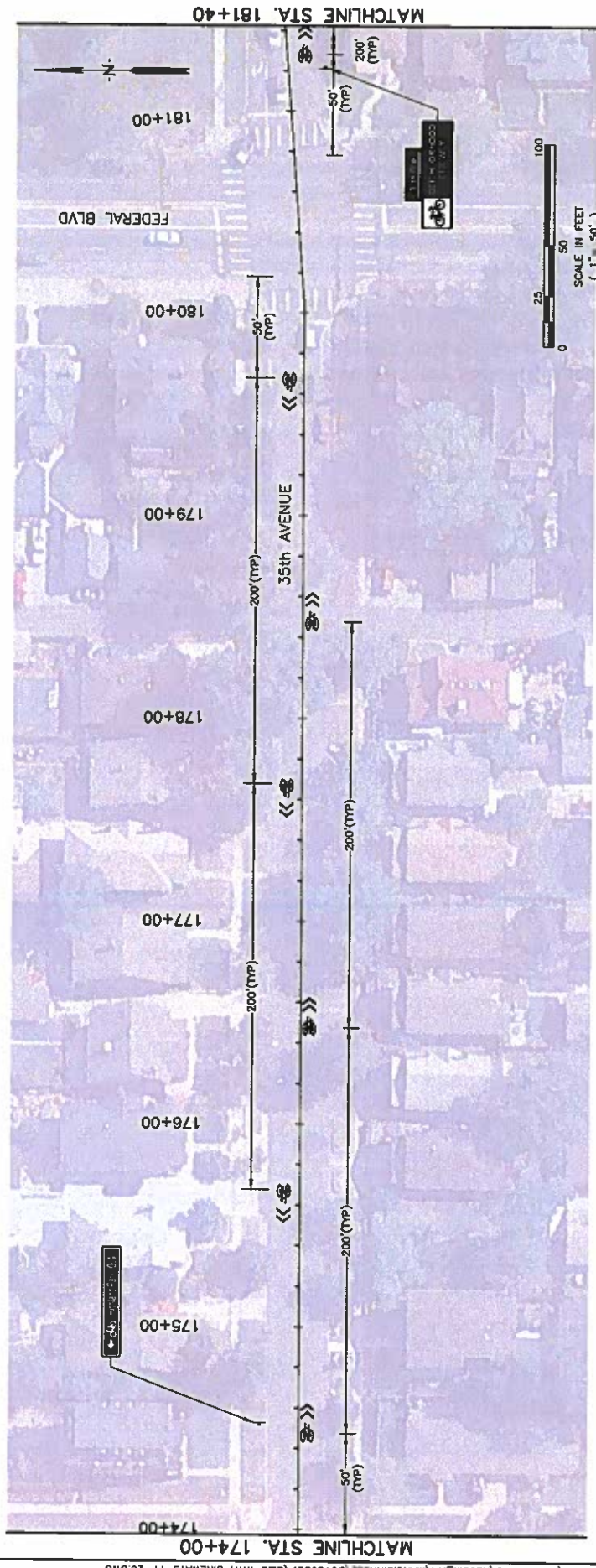


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NOTES:
1. ALL SIGNS SHALL BE LOCATED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



SHARROW SYMBOL MARKING DETAIL

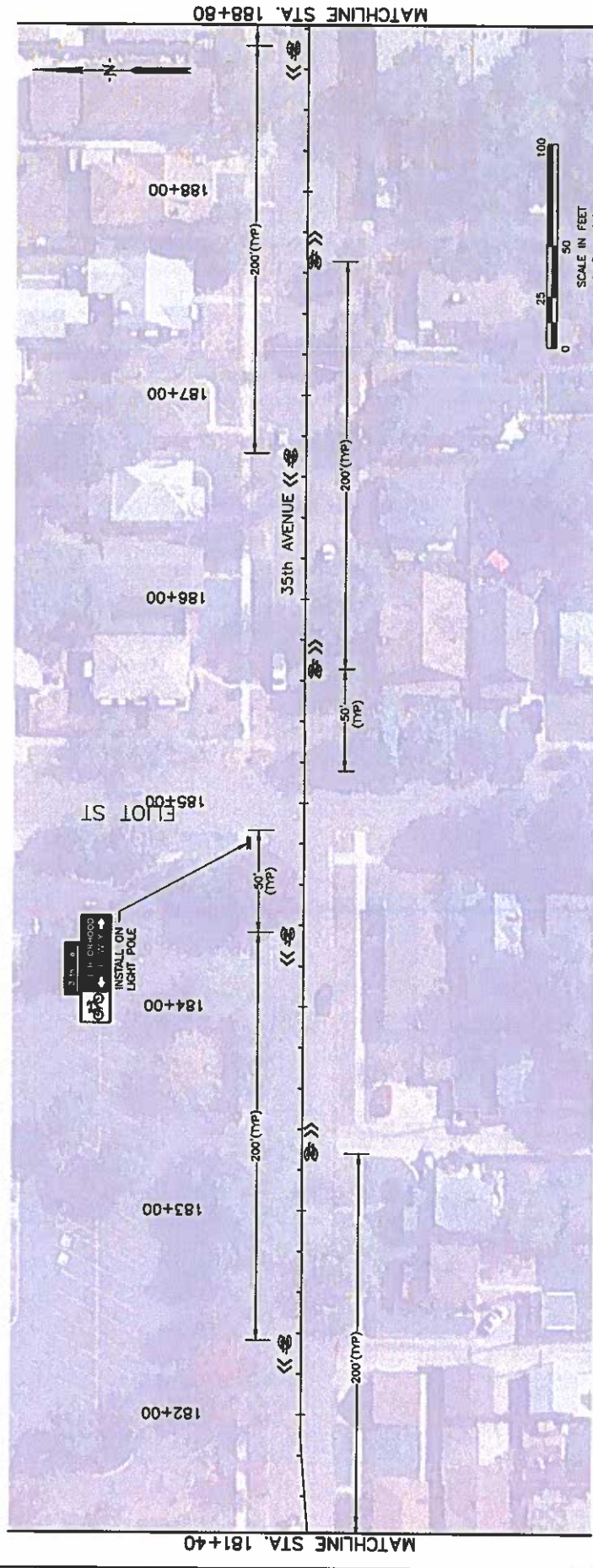
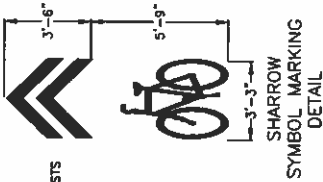


Print Date: 3/23/2018 12:42 PM File Name: S&S WITH BIKEWAYS 11-20.DWG Hritz, Scott City Project Manager AECOM 8800 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-866-2770		0000 Date: _____ Comments: _____ Init.: _____ _____ _____ _____		DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544 		As Constructed No Revisions: Revised: Void:		SIGNING AND STRIPING PLAN 35TH AVENUE BIKEWAY		Project Number 201627886	
SHEET REVISIONS 0000		Designer: M. HEUGH Detailer: M. HEUGH Structure Numbers Sheet Subject: 35th Ave		Sheet Subject: 35th Ave		Sheet Number: 4.1 Sheet of: 23		Submittal Sheets: 11 of 23		Submittal Sheets: 4.1	



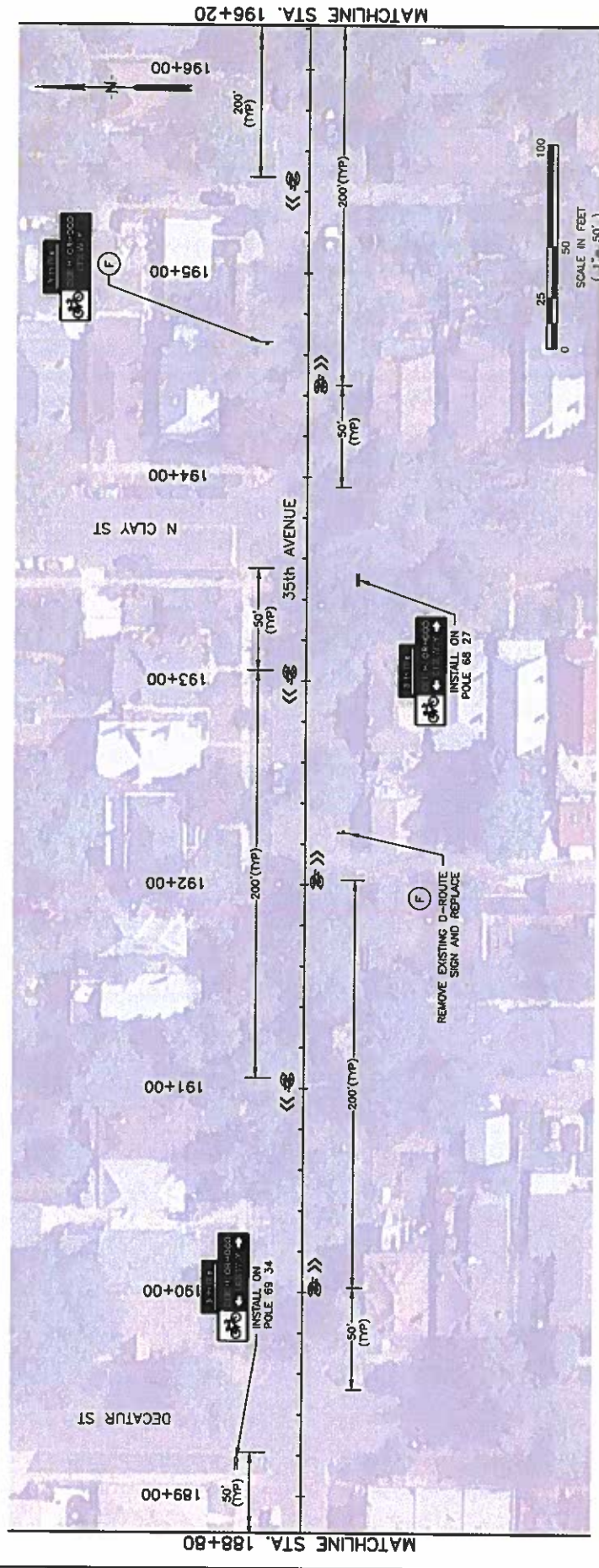
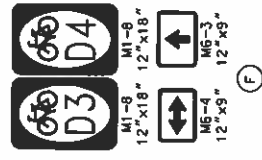
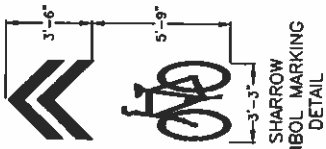
Know what's Below.
Call before you dig.

NOTES:
1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



Print Date: 3/23/2018 12:42 PM		Project Number: 201627866	
File Name: S&S WITH BIKEWAYS 11-20.DWG		SIGNED AND STRIPING PLAN 35TH AVENUE BIKEWAY	
Metric Scale: Vert. Scale:		Designer: M. HEUGH Detailer: M. HEUGH Structure Numbers	
City Project Manager		Sheet Subject: S & S	
AECOM 6500 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-894-2770		Sheet Sheets: 12 of 23	
As Constructed		Sheet Number: 42	
No Revisions:		Revised:	
Void:		Void:	
DEPARTMENT OF PUBLIC WORKS 201 WEST COUFAK AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544			
DENVER THE WORLD WIDE CITY			
Sheet Revisions		Date:	
Comments		0000	

NOTES:
 1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.

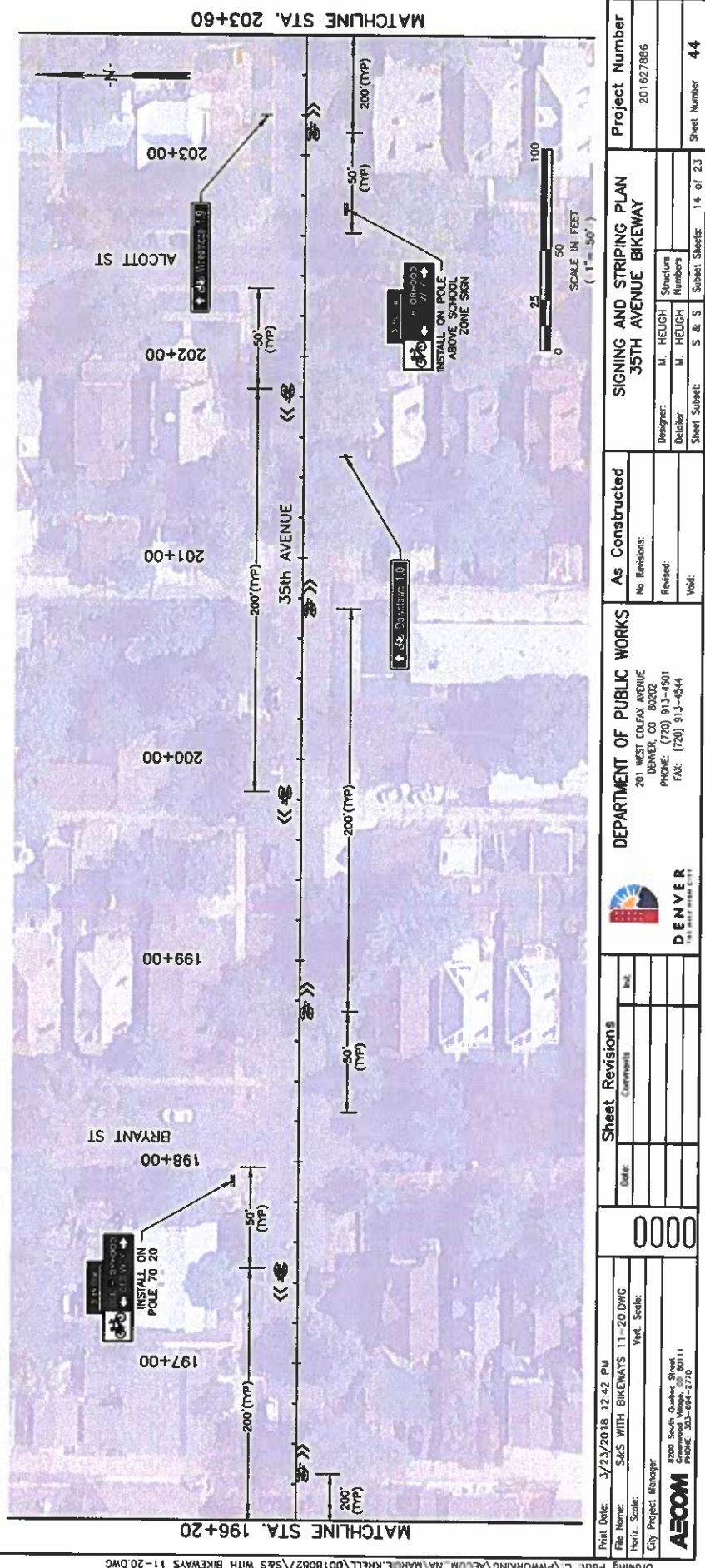
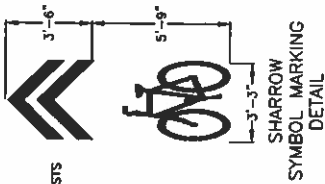


Print Date: 3/23/2018 12:42 PM	Sheet Revisions	As Constructed	Project Number
File Name: S&S WITH BIKEWAYS 11-20.DWG	Date: 0000	No Revisions:	201627886
Plot Scale: Vert. Scale:	Comments:	Revised:	Designer: M. HELICH
City Project Manager	Incl.:	Revised:	Detailer: M. HELICH
6808 South Quebec Street Denver, Colorado 80231 PHONE: 303-864-2770	0000	Void:	Structure Numbers
AECOM			Sheet Subject: S & S
			Sheet Number: 43



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NOTES:
1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



Print Date: 3/23/2018 12:42 PM		Project Number: 201627886	
File Name: S&S WITH BIKEWAYS 11-20.DWG		SIGNING AND STRIPING PLAN	
Metric Scale: Vert. Scale:		35TH AVENUE BIKEWAY	
City Project Manager		No. Revisions:	
AECOM		Revised:	
8808 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-694-2770		M. HELICH	
		Detailer:	
		S. de S.	
		Sheet Subject: 14 of 23	
		Sheet Number: 44	

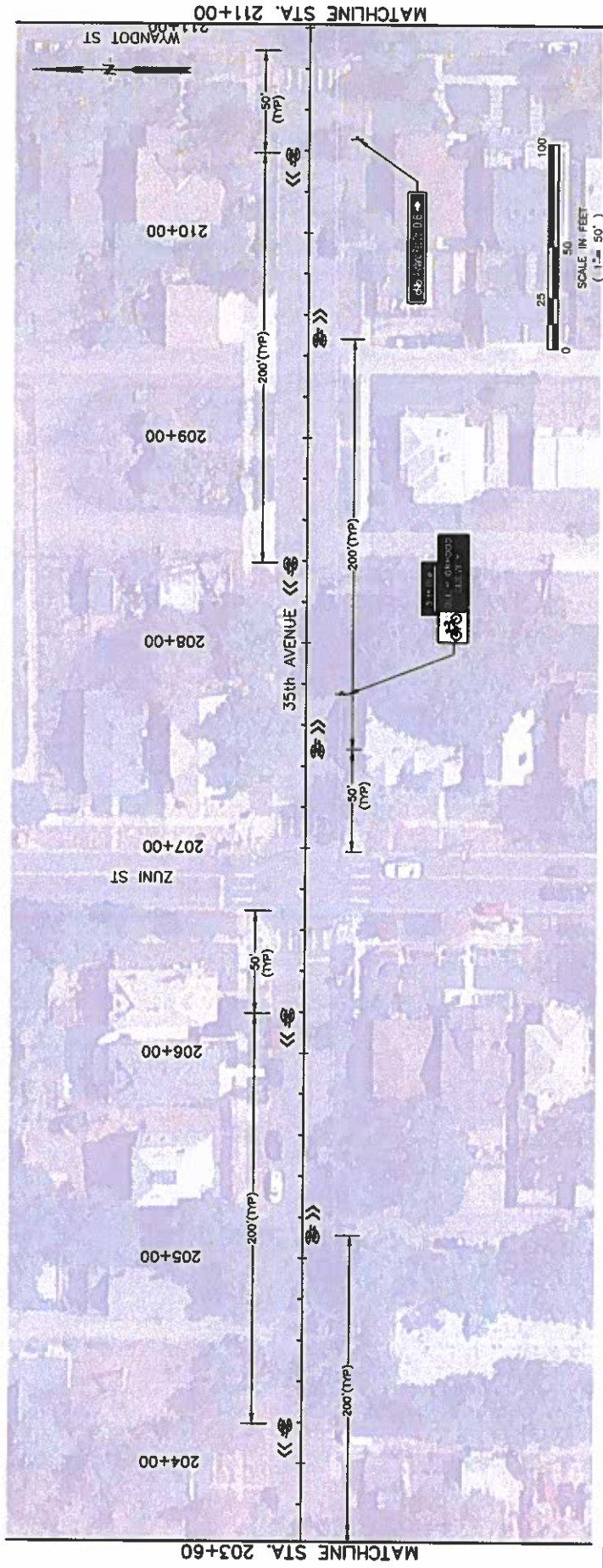
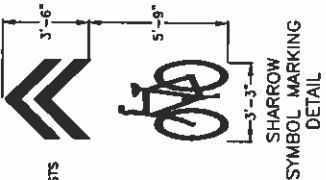
DEPARTMENT OF PUBLIC WORKS
201 WEST COLFAX AVENUE
DENVER, CO 80202
PHONE: (720) 913-4501
FAX: (720) 913-4544

DATE	COMMENTS	BY

0000



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Print Date: 3/23/2018 12:42 PM	Project Number: 201627866
File Name: S&S WITH BIKEWAYS 11-20.DWG	Project Name: S&S WITH BIKEWAYS
Print Scale: Vert. Scale:	Project Title: SIGNING AND STRIPING PLAN 35TH AVENUE BIKEWAY
City Project Manager: AECOM	Designer: M. HEUGH
8000 South Quebec Street Overland Park, KS 66111 PHONE: 303-881-2770	Detailer: M. HEUGH
	Sheet Subsets: S & S
	Sheet Sheets: 15 of 23
	Sheet Number: 45

Date:	Incl.

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DEPARTMENT OF PUBLIC WORKS
201 WEST COUAX AVENUE
DENVER, CO 80202
PHONE: (720) 913-4501
FAX: (720) 913-6544

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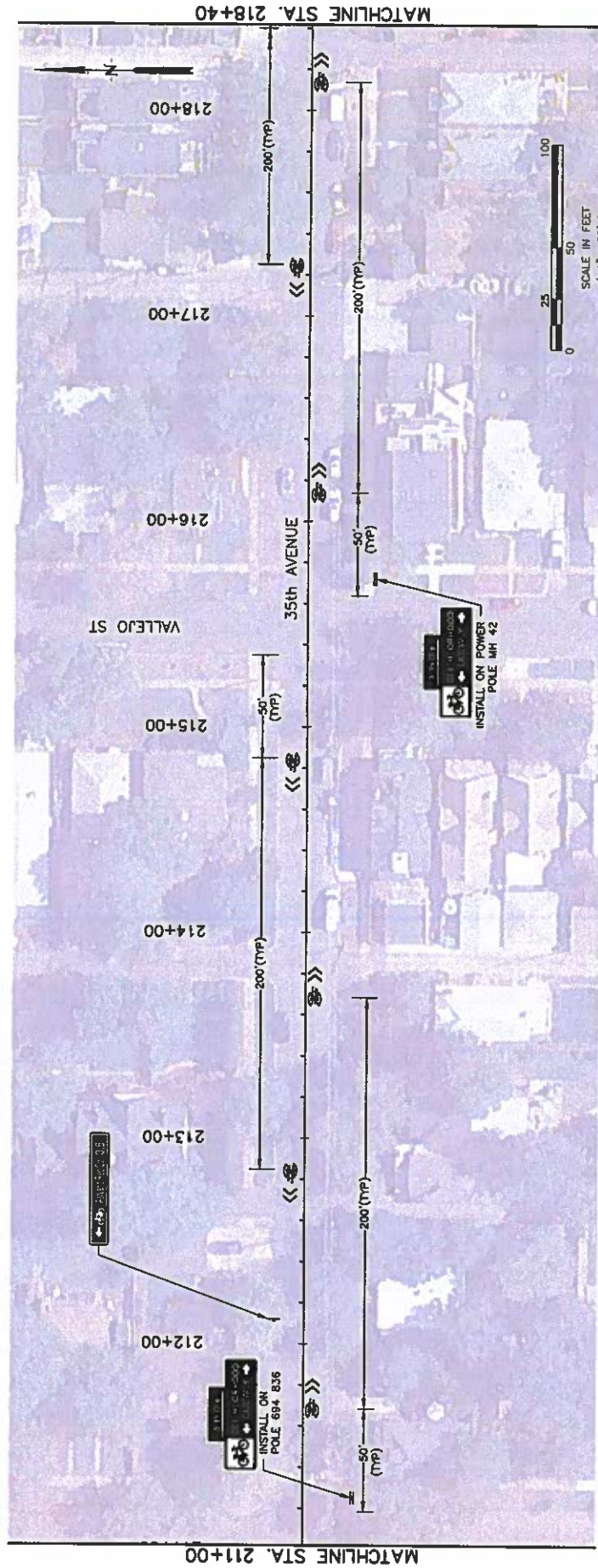
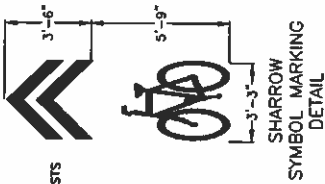
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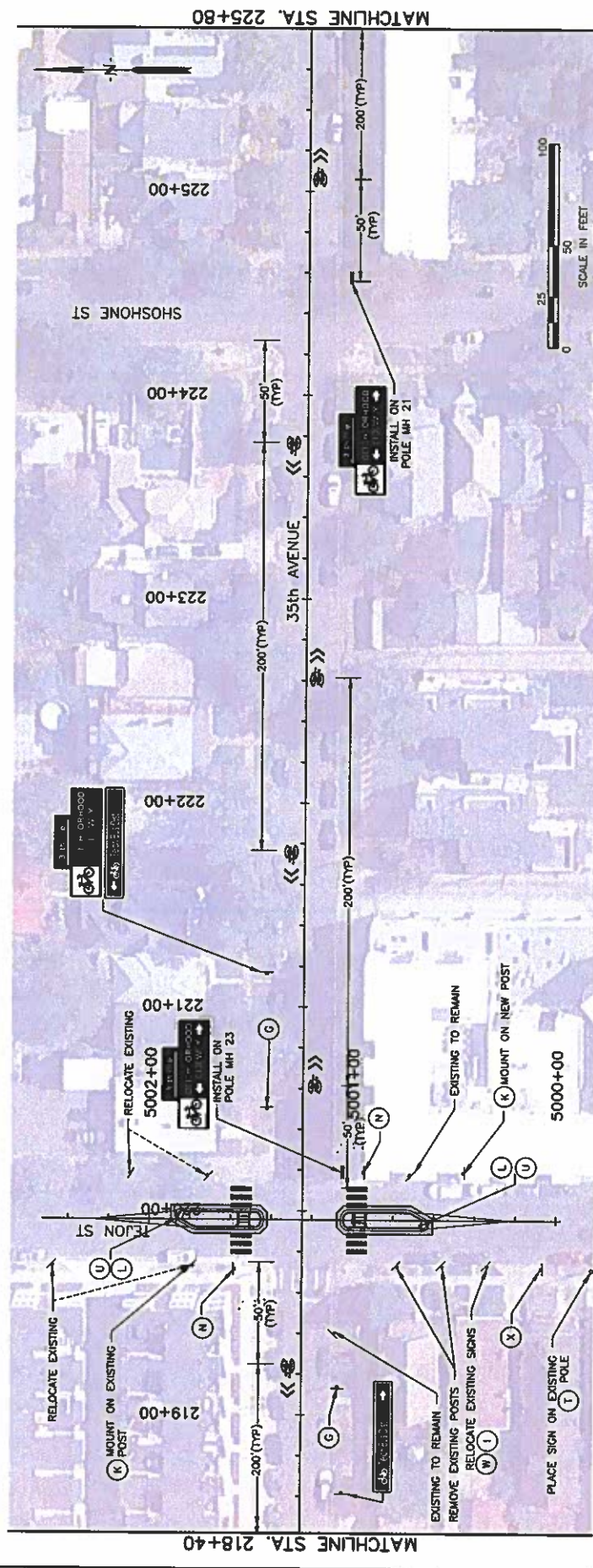
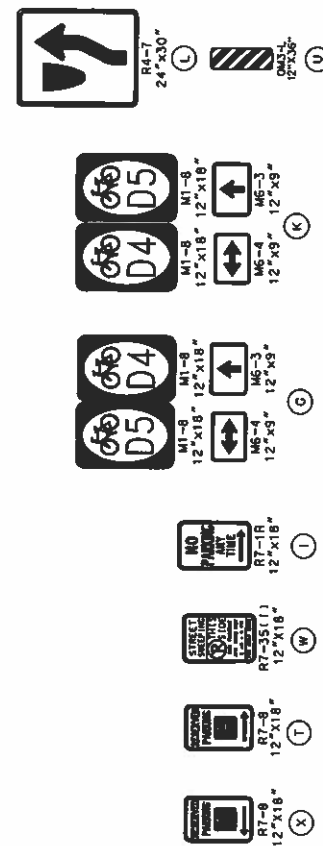
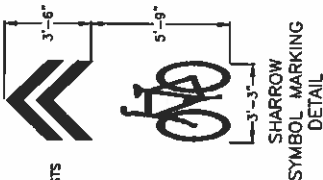
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1. ALL SIGNS SHALL BE MOUNTED ON NEW SIGN POSTS UNLESS OTHERWISE NOTED.



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File Name: S&S WITH BIKEWAYS 11-20.DWG	Design: M. HEUGH
Sheet Revisions: 0000	Checker: M. HEUGH
City Project Manager: AECOM	Structure Numbers: S & S
6808 South Quebec Street Denver, CO 80202 PHONE: 303-284-2770	Sheet Subject: 35th Avenue Bikeway
DEPARTMENT OF PUBLIC WORKS 201 WEST COVAX AVENUE DENVER, CO 80202 PHONE: (720) 813-4501 FAX: (720) 913-4544	As Constructed: No Revisions: No Revisions: No Revisions: No Revisions:
DENVER THE REAL MILE CITY	Sheet Number: 46

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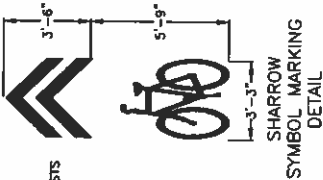
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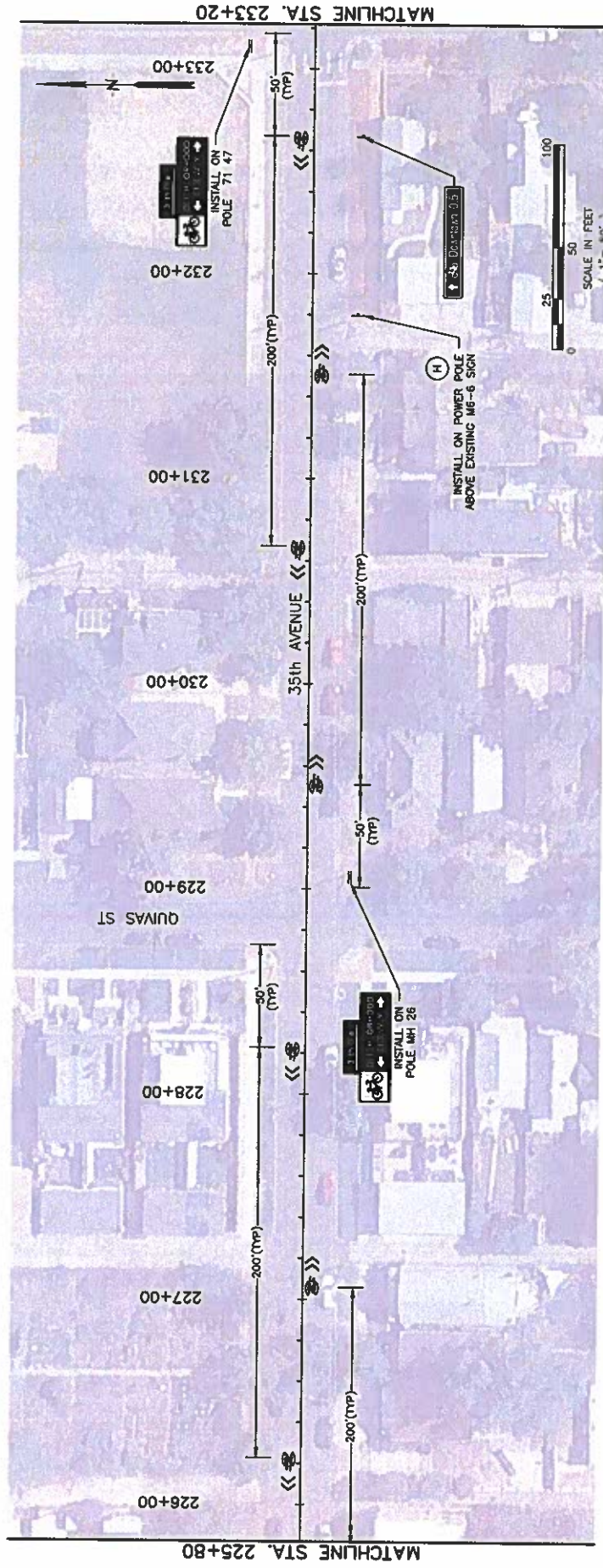
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DESIGNER: M. HEUGH DETAILER: M. HEUGH				SHEET SUBJECT: 5 B-5				SUBMIT SHEETS: 17 OF 23			
AECOM City Project Manager				Denver THE WORLD'S CENTER				SHEET NUMBER: 47			

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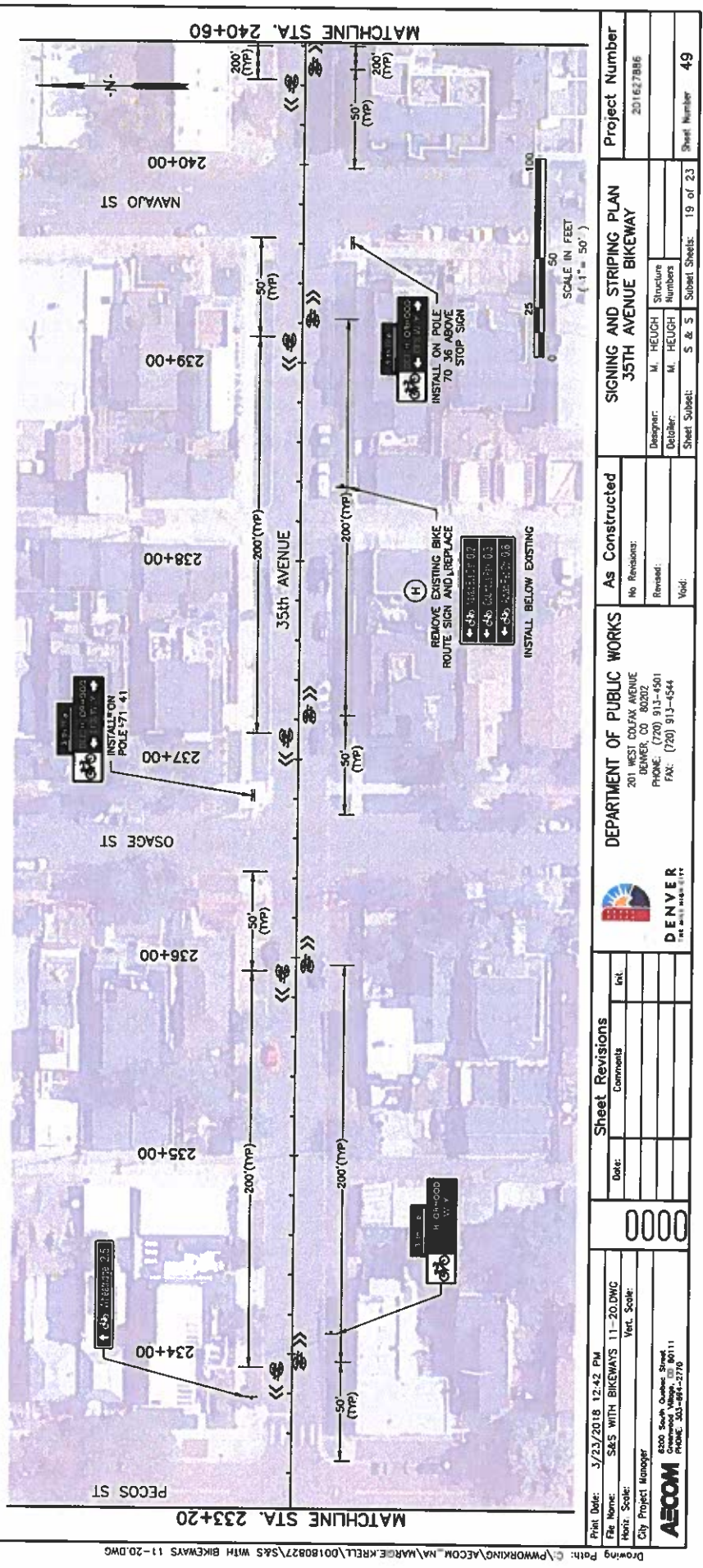
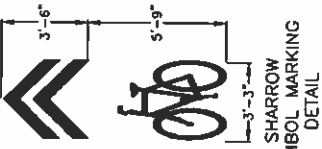


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File Name: S&S WITH BIKEWAYS 11-20.DWG	Structure Numbers: M. HELUCH
Plan Scale: Vert. Scale:	Detailer: M. HELUCH
City Project Manager:	Sheet Submitt: S & S
6500 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-894-2770	Sheet Sheets: 18 of 23
AECOM	Sheet Number: 48
SIGNING AND STRIPING PLAN	
35TH AVENUE BIKEWAY	
As Constructed No Revisions: Revisions: Void:	
DEPARTMENT OF PUBLIC WORKS 201 WEST COLOFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	
DENVER THE REALITY PARTNER	
Sheet Revisions Date: Comments:	
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Date:	No Revisions:	Project Number
Comments:	Revised:	201627886
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	Revised:	Structure Numbers
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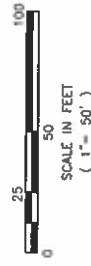
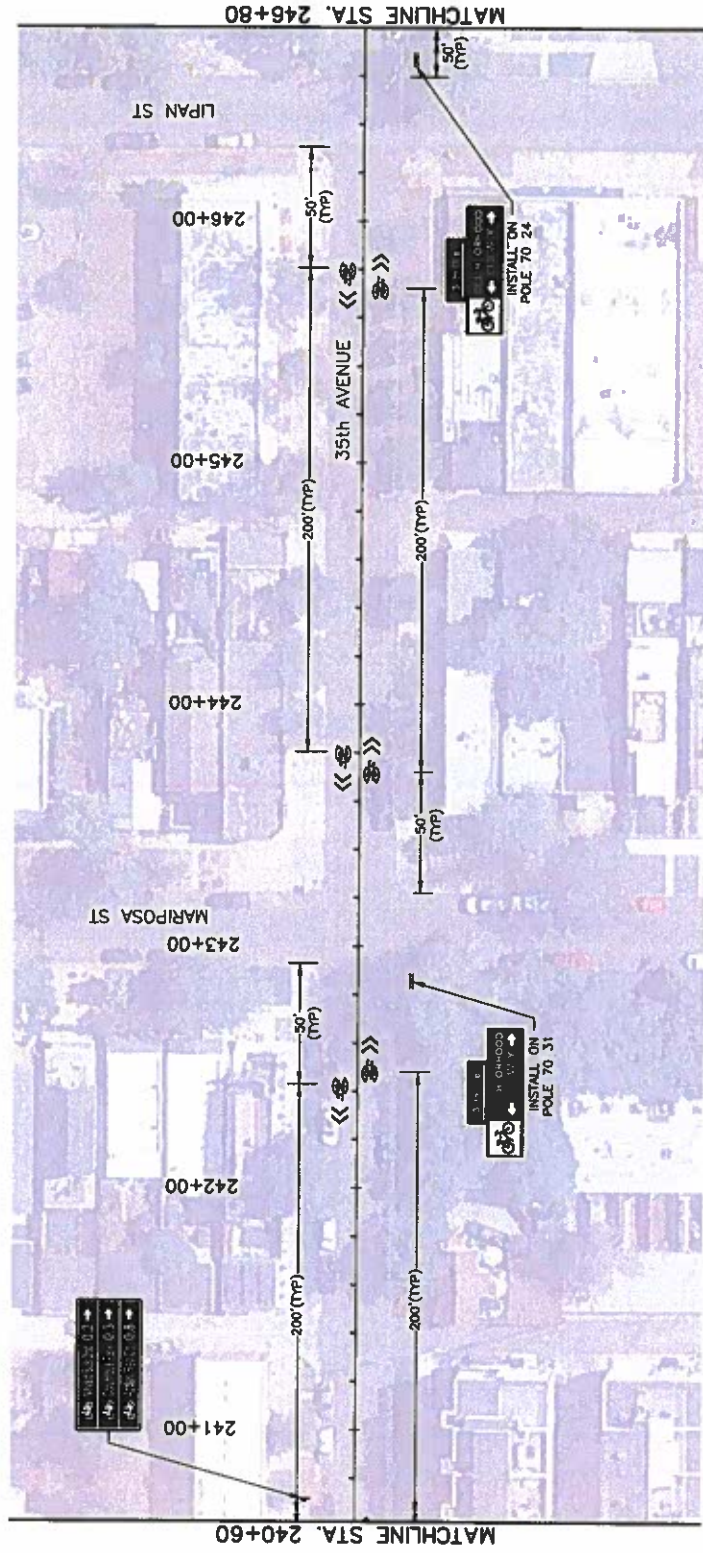
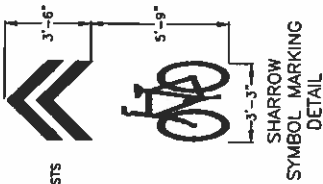
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 DENVER, CO 80202
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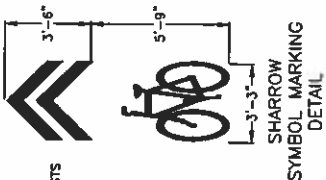
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DEPARTMENT OF PUBLIC WORKS 201 WEST COULAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		SIGNING AND STRIPING PLAN 35TH AVENUE BIKEWAY								
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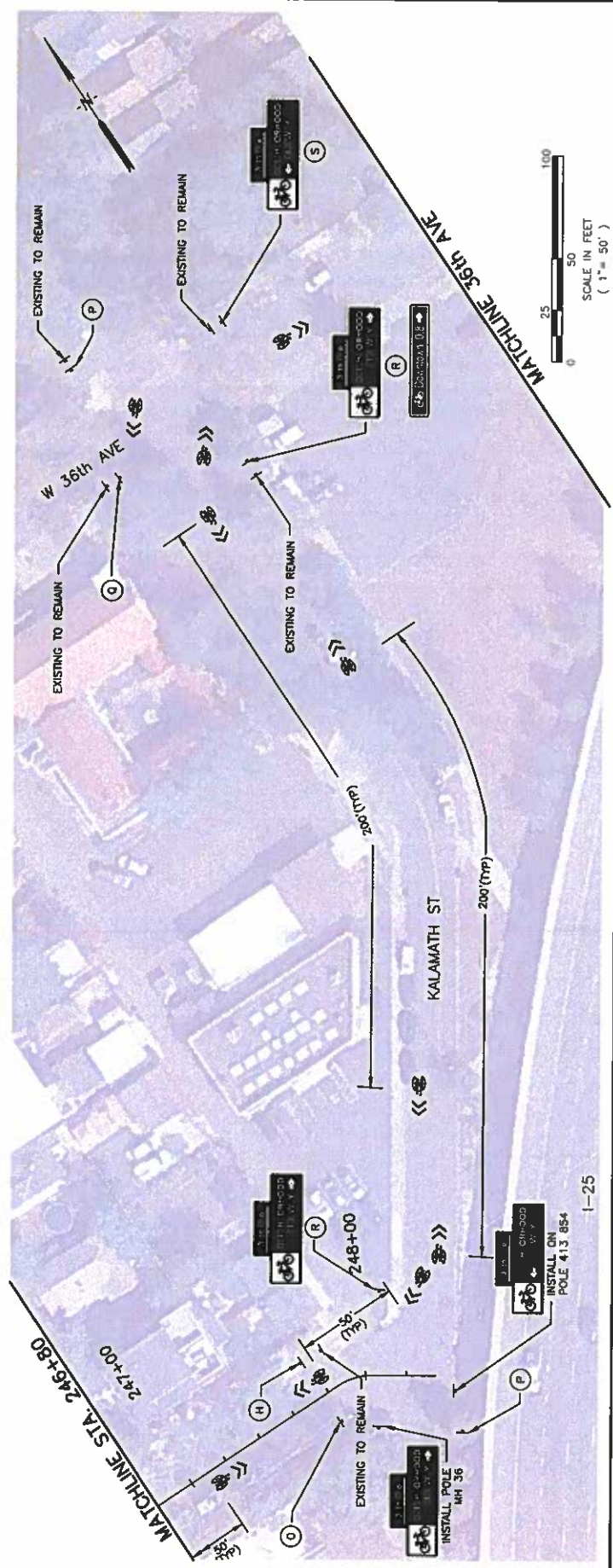


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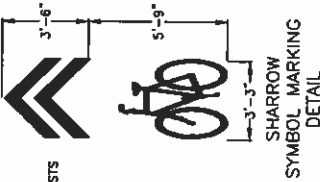
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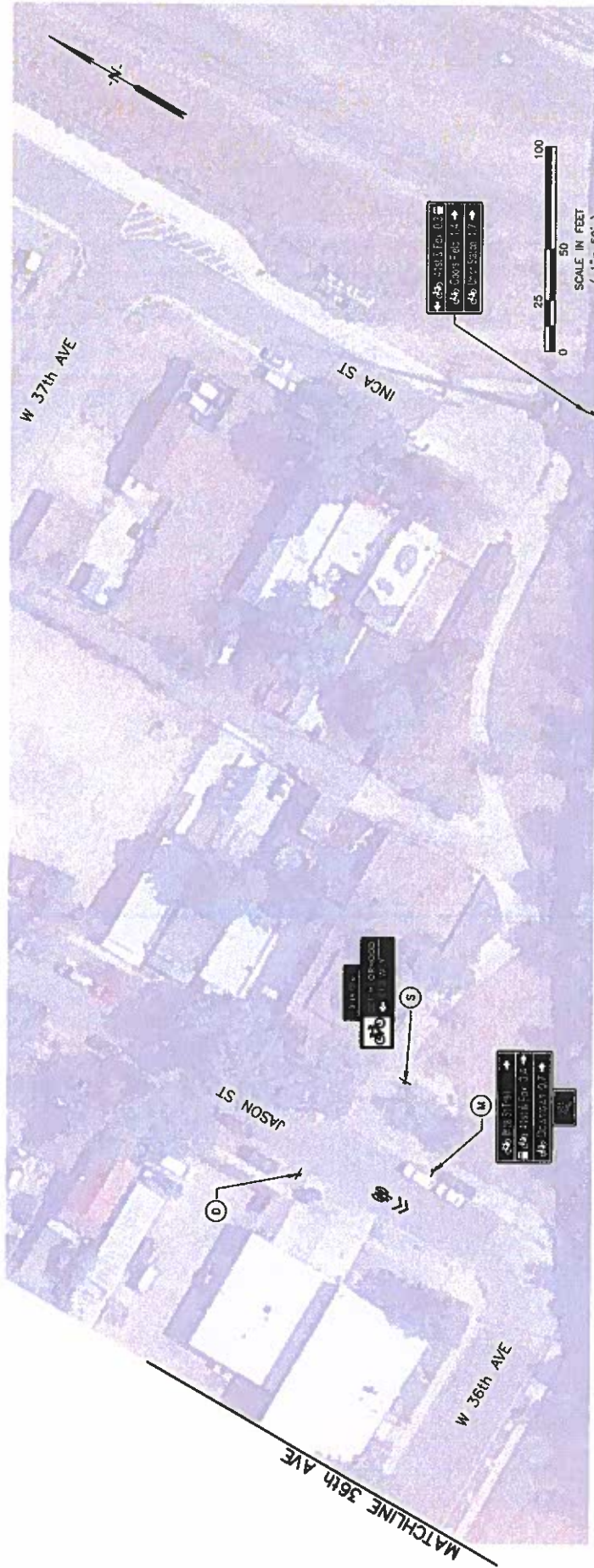
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AECOM 8500 South Quebec Street Centennial, CO 80111 PHONE: 303-884-2776		
As Constructed	DEPARTMENT OF PUBLIC WORKS 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544	SIGNING AND STRIPING PLAN 35TH AVENUE BIKEWAY
No Revisions:	DESIGNER: M. HEUGH	Structure Numbers
Revised:	DEFINER: M. HEUGH	
Void:		Sheet: 21 of 23
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NOTES:
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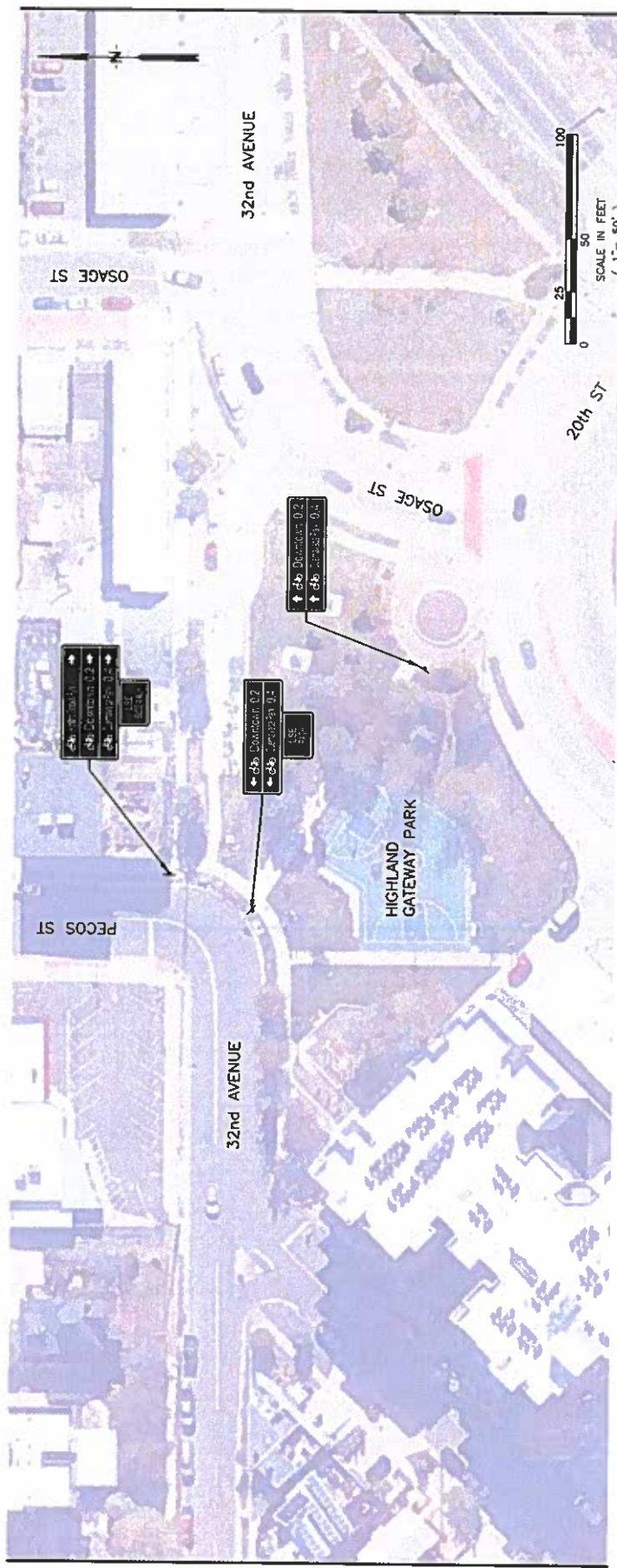
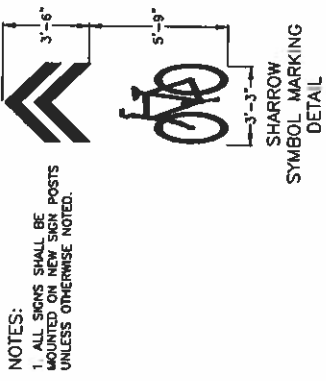


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City Project Manager		Void:	
8000 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-884-2770		Designer: M. HEUCH	Structure Numbers
AECOM		Detainer: M. HEUCH	
		Sheet Submittal: S & S	Sheet Number: 52
			Sheet Number: 22 of 23

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Print Date: 3/23/2018 12:42 PM	As Constructed	No Revisions Revised: Void:	Project Number 201627866														
File Name: S&S WITH BIKEWAYS 11-20.DWG	Department of Public Works 201 WEST OLEAV AVENUE DENVER, CO 80202 PHONE: (720) 913-4301 FAX: (720) 913-4544																
Horz. Scale:	DENVER <small>FOR THE PEOPLE OF COLORADO</small>	Designer: M. HEUGH Structure Numbers	Sheet Number 53														
Vert. Scale:	City Project Manager 6309 South Quebec Street Greenwood Village, CO 80111 PHONE: 303-694-2770	Detailer: M. HEUGH Numbers															
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Date	Comments	By															