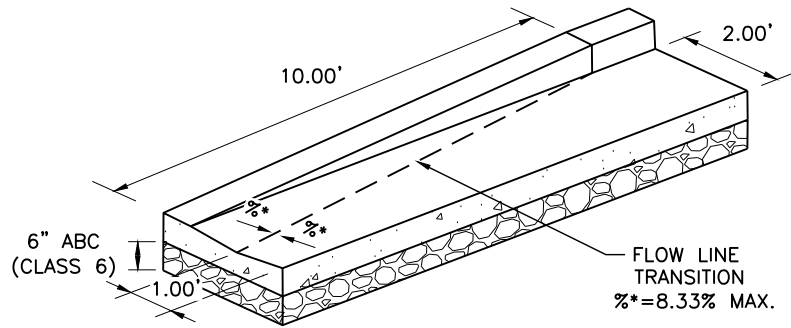
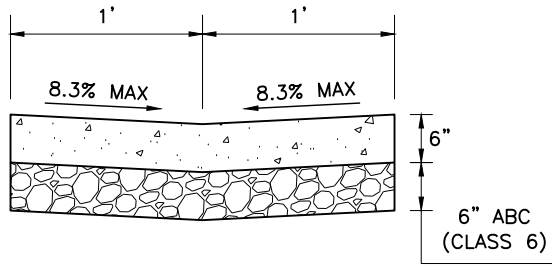


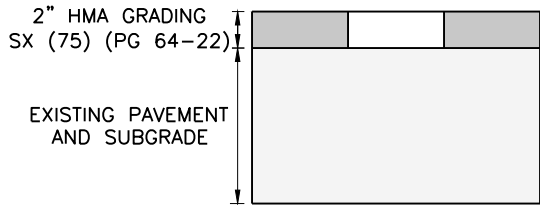
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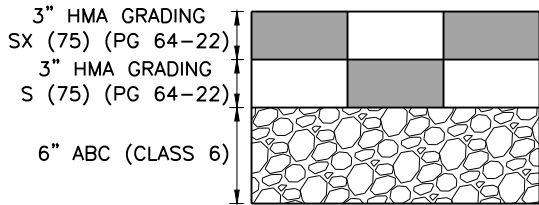
**DETAIL G – CURB & GUTTER
TRANSITION TO GUTTER TYPE 2**
NOT TO SCALE



**DETAIL H – GUTTER TYPE 2
ACROSS SOUTHERN DRIVEWAYS**
NOT TO SCALE



**DETAIL I – ARAPAHOE RD
MILL AND OVERLAY PAVEMENT SECTION**
NOT TO SCALE

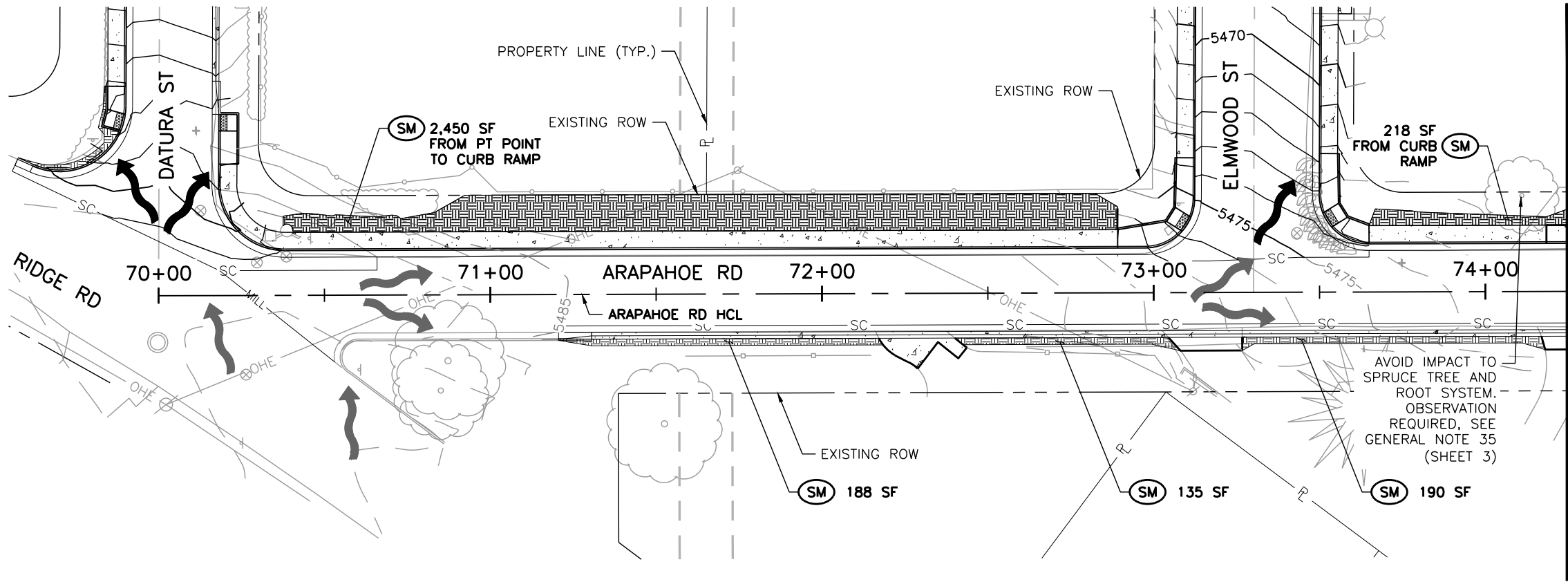


**DETAIL J – ARAPAHOE RD
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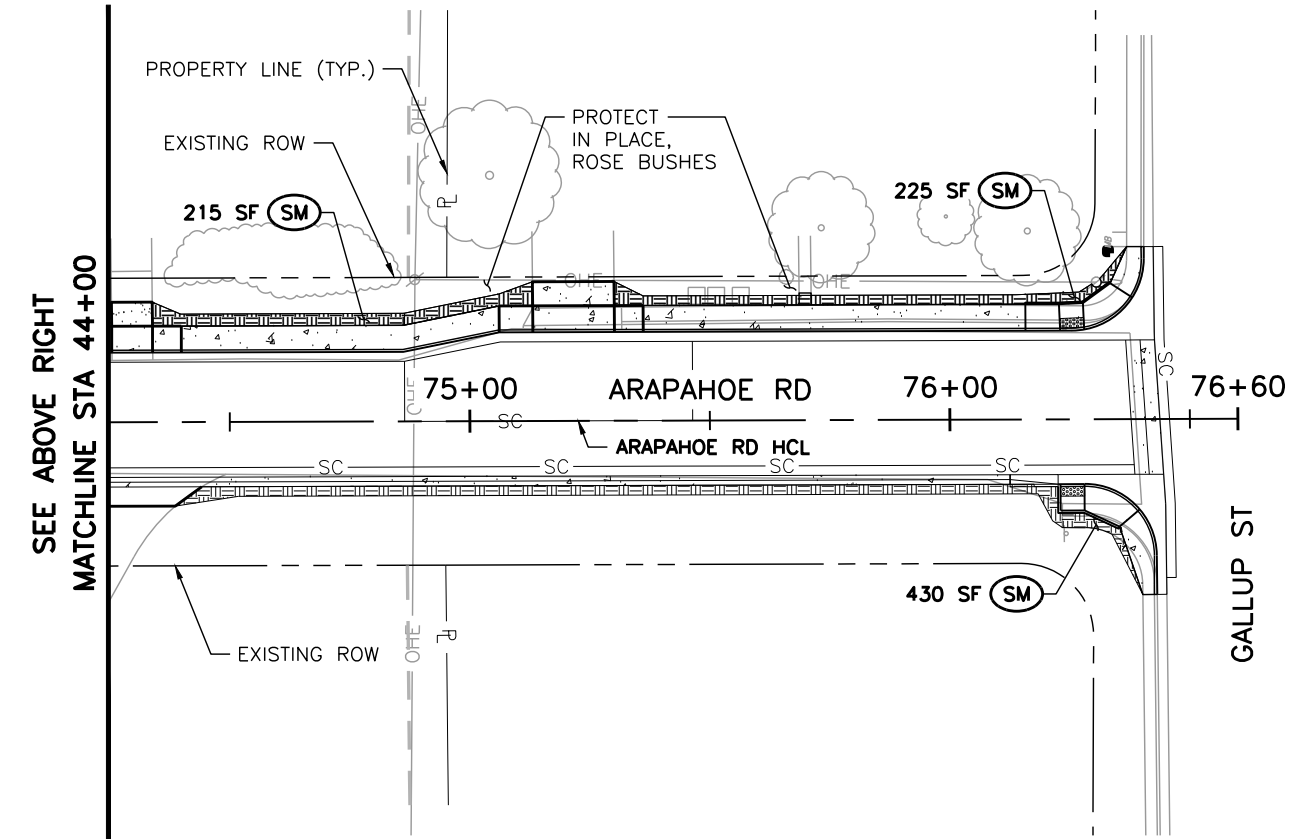
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benesch Alfred Benesch & Company 7979 E. Tufts Avenue, Suite 800 Denver, Colorado 80237 303-771-6868				Littleton Colorado Public Works & Engineering 2255 W Berry Avenue Littleton, Colorado 80120		No. Revisions:				Designer: LMW	
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						Structure Numbers		Subset Sheets: 9 OF 10		Sheet Number: 108 OF 109	

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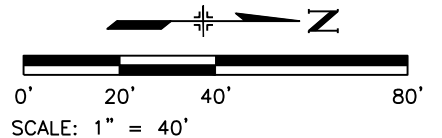
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LEGEND:

- SM** SEEDING AND MULCHING
- FLOW DIRECTION (EXISTING)
- FLOW DIRECTION (PROPOSED)

NOTES:

- FOR ADDITIONAL BMP MEASURES ON DATURA ST, REFER TO SHEET 76.
- FOR ADDITIONAL BMP MEASURES ON ELMWOOD ST, REFER TO SHEETS 91-92.
- EXISTING TOPO SURVEY IS MISSING ALONG PARTS OF ARAPAHOE RD, THEREFORE, THE SEEDING AND MULCHING EXTENTS SHOWN ARE APPROXIMATE.
- EROSION CONTROL MANAGEMENT SHALL BE LUMP SUM. SEEDING, MULCHING, AND TOPSOIL SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF WORK FOR LANDSCAPE RESTORATION AND SHALL BE LUMP SUM. BMPs SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL WORK WITH THE ENGINEER TO VERIFY THE INFORMATION SHOWN OR MODIFY AND FIELD-FIT AS NECESSARY.
- SEEDING, MULCHING, AND LANDSCAPE RESTORATION SHOULD MATCH EXISTING LANDSCAPING OR AS DIRECTED BY THE ENGINEER.



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Print Date: 4/29/2026
File Name: 151872.13.01-CD-10.05-ARAPAHOE-GESC-ALT.dwg
Horizontal Scale: 1"=40' Vertical Scale:
 Alfred Benesch & Company
7979 E. Tufts Avenue, Suite 800
Denver, Colorado 80237
303-771-6868

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Sheet Revisions		
Date:	Comments	Initials

Public Works & Engineering
2255 W Berry Avenue
Littleton, Colorado 80120

As Constructed
No. Revisions:
Revised:
Void:

2026 EUCLID NEIGHBORHOOD STREETS RECON. ARAPAHOE RD GESC PLAN		
Designer:	LMW	Structure Numbers
Detailer:	LMW	
Sheet Subset:	ARAPAHOE	Subset Sheets: 10 OF 10

Project No.
23-09
Sheet Number: 109 OF 109

PROJECT SPECIAL PROVISIONS
MODIFICATIONS TO COLORADO DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS

The technical specifications for this project shall be the Colorado Department of Transportation 2025 Standard Specifications for Road and Bridge Construction and the most current version of the Metropolitan Government Pavement Engineers Council (MGPEC) standards. The following special provisions supplement or modify the Standard Specifications and Supplemental Specifications and take precedence over the Standard Specifications, Supplemental Specifications, and plans.

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NOTICE TO BIDDERS

Pursuant to subsections 102.04 and 102.05, it is recommended that proposers on this project review the work site and plan details prior to submitting a proposal.

All inquiries and questions must be submitted in writing to the City of Littleton Procurement Specialist (RFP Designated Contact). From the date of issuance of the RFP through completion of the selection process, any proposer who contacts City employees other than the Designated Contact may be disqualified from further participation in the selection process, at the City's sole discretion. This supersedes any other subsections containing conflicting instructions regarding who to contact during the bid process.

The City will not be responsible for any oral instructions or interpretations given by or to anyone. It shall be conclusively presumed that the proposer did, before submitting a proposal, closely review the RFP, all exhibits/attachments, and other items relevant to the RFP.

The above-referenced individual or their designee are the only representatives of the City with authority to provide any information, clarification, or interpretation regarding the plans, specifications, and any other contract documents or requirements.

COMMENCEMENT AND COMPLETION OF WORK

The Contractor shall commence work under the Contract within seven (7) calendar days after date of the "Notice to Proceed" work shall be completed within **90 Calendar Days**. Minimum Salient features to be shown (for each bid schedule) on the Contractor's Progress Schedule are:

- 1) ROW Use Permit (CDOT & Littleton)
- 2) Traffic control setup per the approved MHT's for each phase of work.
- 3) Public Notification
- 4) Erosion Control
- 5) Removals
- 6) Earthwork/Subgrade
- 7) Curb & Gutter, Sidewalks, and Curb Ramps
- 8) Patching / Subgrade Repair
- 9) Asphalt Paving
- 10) Concrete Pavement
- 11) Striping
- 12) Clean Up
- 13) Landscape/Irrigation Repair (as necessary).
- 14) Final Acceptance

**REVISION OF SECTION 101
GENERAL PROVISIONS**

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

101 DEFINITIONS & TERMS

Technical Specifications related to construction materials and methods for the work embraced under this Contract shall consist of the Colorado Department of Transportation *Standard Specifications for Road and Bridge Construction* dated 2025.

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. A summary of redefinitions follows:

- | | |
|-------------------|--|
| Subsection 101.28 | “Department” shall mean the City of Littleton, Colorado. |
| Subsection 101.29 | “Chief Engineer” shall mean the City Engineer, Littleton, Colorado, or designated representative. |
| Subsection 101.39 | “Laboratory” shall mean Littleton, Colorado or their designated representative. |
| Subsection 101.51 | “Project Engineer” or “Project Manager” shall mean the City Engineer, Littleton, Colorado, or their designated representative. |
| Subsection 101.76 | “State” shall mean Littleton, Colorado (where applicable). |

**REVISION OF SECTION 105
CONTROL OF WORK**

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

105.13(a) CONSTRUCTION STAKES, LINES, AND GRADES

Shall include the following:

Roadway staking will include stakes for; fence, centerline, slopes, grades (bluetops), curb and gutter, sidewalk, and median barrier. Grade stakes for finished subgrade will not be set until the grade established by the slope stakes is constructed to within 0.3 foot of the finished subgrade elevation.

Bluetops shall be provided at the centerline and edge of paving for the roadway at 50-foot intervals and 25-foot intervals withing 100 feet of intersections prior to grade verification and paving.

105.17 REMOVAL OF UNACCEPTABLE WORK AND UNAUTHORIZED WORK

Shall include the following:

Contractor will verify all items to be removed and replaced with the Engineer. The Contractor shall verify, with the Engineer, any marked locations not included within the contract documents prior to any removal activities. Any removal NOT listed in the contract or otherwise verified and approved by the Engineer will be at the Contractor's expense.

Existing condition or damage to any adjacent infrastructure and/or structures shall be the responsibility of the Contractor to fully document prior to any work. The Contractor shall notify the Engineer of any existing damage and to confirm the various locations, and their limits, of existing damage prior to any work.

105.19 MAINTENANCE DURING CONSTRUCTION

Shall include the following:

The Contractor shall pave the roadway surface within seven (7) calendar days of milling operations. If traffic is to be placed on a milled surface the Contractor shall adequately protect all utility appurtenances or vertical milled faces by placing a wedge of asphalt or other means deemed acceptable to the Engineer. All costs associated with temporary asphalt, pavement markings or additional signage shall not be measured and paid for separately but shall be included in the work.

**REVISION OF SECTION 106
CONFORMITY TO THE CONTRACT OF HOT MIX ASPHALT**

Section 106 of the Standard Special Provisions is hereby revised for this project as follows:

Subsection 106.05 shall include the following:

For this project, Contractor process control testing of hot mix asphalt is mandatory and shall be completed in accordance with Table 106-1.

**REVISION OF SECTION 107
LEGAL RELATIONS & RESPONSIBILITY TO THE PUBLIC**

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

107.02 PERMITS, LICENSES, AND TAXES

Shall include the following:

Unless otherwise specified, the Contractor shall procure all required permits and licenses; pay all charges, fees, and taxes, including permits procured for this project by others; and give all notices necessary and incidental to the due and lawful prosecution of the work. The costs of these permits will not be paid for separately but shall be included in the work.

Prior to beginning work, the Contractor shall furnish the Engineer with a written list of all permits required for the proper completion of the contract. The list shall clearly identify the types of permits that must be obtained before work on any particular phase or phases of work can be started. Copies of the fully executed permits shall be furnished to the Engineer upon request.

107.07 PUBLIC CONVENIENCE AND SAFETY

Shall include the following:

The Contractor shall provide the following services on an ongoing basis throughout the duration of the project:

- (a) A contact person for the project shall be designated by the Contractor at the preconstruction conference. This individual shall be primarily responsible for maintaining communications with the Engineer and impacted residents/businesses; provide information on a regular basis to private individuals, local organizations interested in the project and the affected agencies.

- (b) The following agencies shall be coordinated with on an ongoing basis:

City of Littleton

South Metro Fire and Rescue

City of Littleton Police Department

Adjacent Businesses/Residents

RTD

- (c) A letter of introduction and notice of work shall be delivered to all affected landowners and tenants at least five (5) business days and no more than ten (10) business days prior to mobilization and the commencement of work for each project site.

- (d) Updates shall be on a weekly basis after mobilization and one (1) week prior to any major traffic switches.
- (e) The letter shall include the following as a minimum:
 - Contractor – Name, Address, Direct Phone Number
 - Field Superintendent – Name, Mobile Phone Number
 - Schedule (commencement date and duration) and description of work. Description of work shall include approximate length of time for spraying tack and paving operations restricting use of roadway.
 - Information regarding private property and repair procedures
- (f) The contractor shall notify each adjacent property owner in writing a minimum of forty-eight (48) hours prior to the commencement of construction activities at the corresponding address or location.
- (g) Payment for the above requirements will not be made separately but shall be included in the work.

107.10 BARRICADES AND SIGNS

Shall include the following:

Construction traffic control signs or devices not in use shall be removed from the roadway and pedestrian walkway (sidewalk & trails). Laying the sign down in a horizontal position or turning the sign parallel is not permitted on the sidewalk and/or within private property such as residential yards.

Variable Message Boards (VMB) shall contain the following information at a minimum: type of work, the scheduled week of work, and the phrase “ALTERNATE ROUTES ARE ADVISED”.

Any missing or defaced signs shall be replaced within twenty-four (24) hours.

"NO PARKING" signs shall be placed a minimum of forty-eight (48) hours in advance of any construction activities on all streets to be resurfaced where on-street parking is permitted. No Parking signs shall specify the date range and time where no parking will be allowed due to construction activities.

“Bump” and “Milled Surface” signs, or approved equivalents, shall be posted in sufficient number and proper locations to adequately notify the public of such roadway conditions.

Any other signs as required by the Traffic Engineer shall be placed.

When surface treatment work is performed by contract, Contractor shall supply and maintain all signs at Contractor’s expense.

For locations that do not have sufficient right-of-way available to store the sign(s) or device(s), they must be picked up or moved to an approved storage area. Signs that are placed in the medians must be dismantled, laid down, or relocated to the approved storage area.

107.12 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE *shall be revised to include the following:*

- (a) The contractor shall replace and/or repair all damaged landscaping within seven (7) days of completion of the adjacent removal and replacement.
- (b) Sod damage resulting from concrete removal and replacement shall be cleanly cut to the limits of the damaged area(s) and parallel to the sidewalk or curb and gutter and replaced at a minimum removal and replacement width of 18" wide for the full length of the damaged area(s).
- (c) Landscape rock, mulch and other miscellaneous landscaping and all other related materials shall be cleared and replaced in a condition equal to or better than before construction.
- (d) The contractor shall repair and/or replace any damaged irrigation pipes. The repairs or replacement must be completed within twenty-four (24) hours of the damage.
- (e) Continuous failure to complete repair in the time specified above may result in the suspension of additional work until the specified repairs have been made and are determined to be satisfactory by the Engineer. Additional contract time will not be given for such suspensions.

Unless otherwise specified in the Contract, all work listed above will not be measured and paid for separately but shall be included in the work.

**REVISION OF SECTION 108
PROSECUTION AND PROGRESS**

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

108.03 SCHEDULE

Shall include the following:

The contractor shall provide a construction schedule at the pre-construction meeting for review by the Engineer.

108.05 LIMITATION OF OPERATIONS

Shall include the following:

In residential areas, the Contractor shall limit hours of operation to **7:00 a.m. to 7:00 p.m. Monday thru Friday, 9:00 AM to 5:00 PM Saturday, and no work on Sunday** or as otherwise approved in writing by the Engineer.

108.09 FAILURE TO COMPLETE WORK ON TIME

Shall include the following:

A daily charge will be made against the Contractor for each calendar day that work is performed outside the working times listed in 108.09, Limitation of Operations. A penalty of \$500 per occurrence will be applied as Liquidated Damages.

REVISION OF SECTION 202
REMOVAL OF STRUCTURES AND OBSTRUCTIONS

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

202.12 BASIS OF PAYMENT *shall be revised to include the following:*

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Removal of Wall	LF
Removal of Median Cover Material (Stone)	SY
Removal of Sidewalk	SY
Removal of Curb	LF
Removal of Gutter	LF
Removal of Curb and Gutter	LF
Removal of Curb, Gutter, and Sidewalk	LF
Removal of Concrete Curb Ramp	SY
Removal of Brick Pavers	SY
Removal of Concrete Pavement	SY
Removal of Asphalt Mat	SY
Removal of Asphalt Mat (Planing)	SY
Removal of Asphalt Mat (Planing) (Special)	SY
Removal of Ground Sign	Each

When the Contract does not include pay items for removal of a particular type of structure or obstruction, the removal will not be paid for separately but shall be included in the work.

Sawcutting will not be paid for separately but shall be included in the removals work.

**REVISION OF SECTION 203
EXCAVATION AND EMBANKMENT**

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

203.02 EXCAVATION

Subsection 203.02 (c) is hereby deleted and replaced with the following:

- (c) Material that is free of organics but has excessive moisture shall not be classified as unsuitable for subgrade due to the presence of excessive water. It shall be the Contractor's responsibility to satisfy the moisture conditions specified in the Contract Documents for subgrade. The classification of material as unsuitable for subgrade shall be made by the Engineer.

203.13 METHOD OF MEASUREMENT *shall be revised to include the following:*

Proof rolling will not be measured and paid for separately but shall be included in the work as required.

203.12 BASIS OF PAYMENT *shall be revised to include the following:*

Any additional excavation and backfill made by the Contractor below the approved subgrade elevation, without the prior acceptance of the Engineer will be at the responsibility and expense of the Contractor. No additional payment will be made.

REVISION OF SECTION 208
EROSION CONTROL

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

208.12 BASIS OF PAYMENT *shall be revised to include the following:*

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Storm Drain Inlet Protection (Type I)	LF
Erosion Control Management	LS

Topsoil, native seeding, sod and mulching will be paid for under the force account for landscape restoration when specified by the Engineer as an appropriate restoration method.

**REVISION OF SECTION 210
RESET STRUCTURES**

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

Subsection 210.02 shall include the following:

Any work performed by the Contractor on a utility facility is subject to inspection and approval by the owning utility company. The Contractor is responsible for coordinating inspection with the owning utility.

The Contractor must submit notice to the Project Manager of water service outages in accordance with Denver Water standards. The Contractor shall give a minimum of 30-day notice to the owning utility company before any work that will affect their facilities. The Contractor shall not operate any water valves without permission of the owning utility company.

All structures within pavement areas shall be recessed a minimum of a quarter inch to maximum of half inch below finish grade. Structures within sidewalk area shall have a pedestrian lid and flush with finish grade.

Structures within the roadway surface shall be adjusted prior to placement of the final lift of asphalt. Manhole ring and cover assemblies shall be adjusted to finish grade on reconstructs (includes up to 18" from top of cone section to finish grade). Manholes located within overlays will require grade adjustment rings that can be mechanically secured to the existing manhole ring. All materials shall be approved by the owning utility.

Temporary construction plates must be inspected prior to use on the project by the project inspector. All plates shall be sized for the manhole intended to be covered, shall have centering devices, and shall be traffic load rated.

Subsection 210.10 shall include the following:

Valve Box Assembly. "Replacement and/or adjustment of valve boxes" shall involve removal of the existing valve box riser assembly, or a portion thereof, and installation of a new valve box assembly, and raising or lowering the new assembly to match construction activity grade (elevation). Unless otherwise specified, all required materials shall be supplied by the Contractor. All materials used for this item shall be approved by the owning utility for use.

Valve Boxes located within overlays will require grade adjustment risers that can be mechanically secured to the existing valve top. "Drop in" adjusting rings will not be allowed. All materials shall be approved by the owning utility.

All utility valve boxes shall be identified, functional and accessible at all times.

When adjusting valve boxes, the box shall be cleaned of all foreign debris such that the operating nut of the valve is fully accessible to operate. The Work shall be subject to inspection by and approval of the owning utility and is incidental to the pay item for adjusting water valves.

210.13 BASIS OF PAYMENT *shall be revised to include the following:*

Payment will be made under:

Pay Item	Pay Unit
Reset Ground Sign	Each
Reset Fence	LF
Adjust Manhole	Each
Adjust Valve Box	Each

**REVISION OF SECTION 212
LANDSCAPE RESTORATION**

SECTION 212 of the Standard Specifications is here revised for this project as follows:

DESCRIPTION

212.01 This work consists of restoring existing sod, landscaping (including existing walls), and sprinkler systems due to construction activities for curbs and sidewalks. The Contractor is also directed to the requirements of Revision of Section 107.12. Topsoil requirements shall comply with Section 207. Restoration of seeded and sodded areas shall comply with Section 212. Restoration of other landscaping materials, such as mulch and plantings, shall comply with Section 214.

CONSTRUCTION REQUIREMENTS

212.03 It is anticipated construction of curbs and sidewalks will affect existing miscellaneous landscape materials such as topsoil, sod, plantings, river rock, wood mulch, and other miscellaneous landscaping features. When the Contractor's construction operations for curbs and sidewalks affects existing landscaping, the Contractor shall document the landscaping prior to construction with photographs submitted to the Engineer.

The Contractor shall remove the landscape material to the limits required for construction and stockpile the material. Care shall be taken to not damage landscape materials during removal. Following completion of curbs and sidewalks the landscape material shall be restored to the areas.

Property owners shall be notified prior to removal of landscape materials, including information on schedule and restoration of the landscaping.

Any landscaping materials damaged by the Contractor's operations shall be replaced as directed by the Engineer at the Contractor's expense.

Grading and sidewalk construction may affect existing sprinkler heads and sprinkler lateral lines. If construction operations affect sprinkler systems, the sprinkler line shall be modified by capping or resetting as directed by the Engineer and coordinated with the adjacent property owner. Any sprinkler lines damaged shall be repaired as directed by the Engineer.

METHOD OF MEASUREMENT

212.07 Landscape Restoration will not be measured but shall be paid for as lump sum.

212.08 Payment will be made under:

Pay Item

Force Account - Landscape Restoration

Pay Unit

F/A

Payment shall include removal, hauling, stockpiling, resetting, restoration and replacement of any damaged landscape materials. Payment shall include sprinkler system capping, resetting and repairs. Topsoil and Sod will not be paid for separately but shall be included in this work item.

**REVISION OF SECTION 250
ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT**

SECTION 250 of the Standard Specifications is hereby revised for this project as follows:

250.03 GENERAL

Shall include the following:

Job materials and equipment may be stockpiled and stored at locations near the job site. A list of sites to be used for this purpose and written permission from the property owner shall be submitted to the Engineer for approval at least ten (10) days prior to any use. The proposed truck route for ingress and egress to such sites shall also be submitted to the Engineer for approval. Using such job-site storage requires the following:

1. Obtaining written permission from the property owner, which shall include a brief description of the area of the property to be used, the length of time the property will be used for this purpose, any access restrictions (i.e. times of day), and the name and phone number of the property owner. A copy of the written permission shall be submitted to the Project Manager at least one week prior to delivery of material to the site.
2. Keeping stockpiles and equipment confined to the approved area.
3. Providing security for job materials and equipment and for public safety at the site.
4. Keeping all access roads clean and in good condition.
5. Returning site to original condition.

Precautions shall be taken to ensure that stockpiles are carefully mixed just prior to use to ensure uniform distribution of the moisture, and that they do not become contaminated with over-sized seed rock, clay, silt or excessive amounts of moisture. The stockpile shall be kept in areas that drain readily. Segregation of the aggregate will not be permitted.

When surface treatment work is performed by contract, the Contractor shall be responsible for compliance with all requirements of this section. The Contractor shall hold the City and all its employees and representatives harmless from any injury or damage to property occurring as a result of Contractor's operations on property used for this purpose.

**REVISION OF SECTION 304
AGGREGATE BASE COURSE**

SECTION 304 of the Standard Specifications is hereby revised for this project as follows:

304.02 AGGREGATE *shall be revised to include the following:*

The minimum allowable R-value for Aggregate Base Course shall be 78. The specific gravity for the aggregates shall be greater than 2.0 at the source. The use of crushed reclaimed concrete material under some circumstances may be substituted for natural aggregate for use in roadbed stabilization upon review and written approval of the Engineer. Aggregate base course for use in shouldering and all-weather surfaces shall be natural and approved by the City of Littleton. All-weather surfaces will be required in-place at the end of each shift when traffic is not running on pavement. Base course from within the existing roadway section, if encountered, can be used as an all-weather surface.

Base course shall have a minimum unit weight of 125 pounds per cubic foot.

The Contractor shall have adequate Aggregate Base Course available for use on project as required by the Engineer.

304.08 BASIS OF PAYMENT *is deleted in its entirety and replaced with the following:*

Payment for aggregate base course shall be made at the applicable contract unit price for Aggregate Base Course and shall include full compensation for all transportation, materials, labor, equipment, supervision, tools, placement, compaction and all other appurtenant items to complete the work.

Excavation and removal of subgrade deemed unsuitable by the Engineer shall not be measured and paid of separately, but shall be included in the work.

Water will not be measured and paid for separately, but shall be included in the work.

If the Contractor utilizes imported crushed reclaimed concrete in lieu of aggregate base course, payment will be made on the accepted quantity of Aggregate Base Course, Class 6.

If the Contractor elects to utilize Aggregate Base Course to correct subgrade imperfections, over excavation of subgrade or control depths at their convenience this will not be paid for separately but shall be included in the work.

Pay Item

Aggregate Base Course (Class 6)

Pay Unit

CY

**REVISION OF SECTIONS 304 AND 703
AGGREGATE BASE COURSE (SHOULDER MATERIAL)**

Section 304 of the Standard Specifications is hereby revised for the project as follows.

Subsection 304.01 shall include the following:

This work consists of furnishing and placing recycled asphalt pavement (RAP), crushed concrete or virgin aggregate base course for shouldering material in accordance with these specifications and in conformity with the lines and details shown on the plans or established.

Subsection 304.02 shall include the following:

Aggregate Base Course (Shoulder Material) shall be 100 percent reclaimed asphalt pavement material, 100 percent recycled concrete aggregate or 100 percent crushed mineral aggregate conforming to the requirements of Table 703-3A.

Delete Subsection 304.04 and replace with the following:

304.04 Placing. Aggregate Base Course (Shouldering Material) shall be placed with a shouldering machine capable of shaping the material next to the roadway as shown in the plans. It shall be well compacted with a wheel roller after placement as directed by the Engineer. Aggregate Base Course (Shouldering Material) shall not be placed directly on new asphalt. Unless otherwise shown in the plans, stockpiling will not be permitted within the Right-of-Way for the project. The Contractor shall address these issues in the method statement for this work.

Subsection 304.07 shall include the following:

Aggregate Base Course (Shoulder Material) will be measured by the measured tons of material, completed and accepted.

Subsection 304.08 shall include the following:

The accepted quantities will be paid for at the contract unit price per ton.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Aggregate Base Course (Shoulder Material)	CY

Payment will be full compensation for all labor, materials, equipment, and other items necessary and incidental to the completion of the work. Processing, hauling, placing and compacting of the Aggregate Base Course (Shouldering Material) will not be measured and paid for separately, but shall be included in the work.

**REVISION OF SECTIONS 304 AND 703
AGGREGATE BASE COURSE (SHOULDER MATERIAL)**

Subsection 703.03 shall include the following:

The material Aggregate Base Course (Shoulder Material) shall conform to Table 703-3A and the following.

The plasticity index shall be less than 5 when tested in accordance with AASHTO T89 and AASHTO T90 respectively. The material shall not contain clay balls, vegetable matter, or other deleterious substances.

**Table 703-3A
GRADATION REQUIREMENTS - SHOULDER MATERIAL**

Sieve Size	Mass Percent Passing Square Mesh Sieve
50 mm (2")	100
25 mm (1")	85 - 100
19 mm (3/4")	75 - 100
12.5 mm (1/2")	55 - 90
9.5 mm (3/8")	45 - 80
4.75 mm (No. 4)	30-65* 25 – 55**
1.18 mm (No. 16)	5 - 25
75 µm (No. 200)	0 – 15* 0 – 5**

*Mineral Aggregate

**RAP

**REVISION OF SECTION 304 AND 403
AGGREGATE BASE COURSE AND HOT MIX ASPHALT TICKET COLLECTION**

Sections 304 and 403 of the Standard Specifications is hereby revised for this project as follows:

Subsection 304.08 and 403.05 shall include the following:

The Contractor shall collect the scale ticket on each load when it is delivered to the project site, and ensure that the information required in subsection 109.01 is shown on each ticket. The Contractor's ticket collector shall add the placement location to each scale ticket using stationing or mileposts and sign it.

The scale tickets shall be available on site for City of Littleton personnel to inspect.

Each day the Contractor shall provide to the Engineer envelopes which contain the previous day's signed tickets and the following:

1. On each envelope: Project number, date of delivery, type of material, daily total and cumulative total.
2. One of the following:
 - A. Two adding machine tape tabulations of the weight tickets with corresponding totals run and signed by different persons,
 - B. One signed adding machine tape tabulation of the weight tickets that has been checked and signed by a second person,
 - C. Signed check tape of computer scale tickets that have a cumulative total. These scale tickets must be consecutive and without voids adjustments.
3. A listing of any overweight loads on the envelope, including ticket numbers and amount over legal limit.
4. A comparison of the actual yield for each day's placement to the theoretical yield. Theoretical yield shall be based on the actual area paved, the planned thickness, and the actual density of the mixture being placed. Any variance greater than +2.5% shall be indicated on the envelope and a written explanation included.

All of the above items such as collected scale tickets, total tabulation sheets, over weight tickets, overweight permits, haul vehicle ID sheets, and etc. shall also be submitted electronically (scanned pdf format).

The Contractor shall provide a vehicle identification sheet that contains the following information for each vehicle:

- (1) Vehicle number
- (2) Length
- (3) Tare weight
- (4) Number of axles
- (5) Distance between extreme axles
- (6) All other information required to determine legal weight.
- (7) Legal weight limit.

**REVISION OF SECTION 403
HOT MIX ASPHALT**

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

Subsection 403.02 shall include the following:

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

Table 403-1						
Property	Test Method	Value For Grading				
				S(75)	SX(75)	Patching
Air Voids, percent at: N (design)	CPL 5115			3.5 – 4.5	3.5 – 4.5	3.5 – 4.5
Lab Compaction (Revolutions): N (design)	CPL 5115			75	75	75
Stability, minimum	CPL 5106			28	30	28
Aggregate Retained on the 4.75 mm (No. 4) Sieve for S, SX and SG, and on the 2.36mm (No. 8) Sieve for ST and SF with at least 2 Mechanically Induced fractured faces, % minimum*	CP 45			60%	60%	60%
Accelerated Moisture Susceptibility Tensile Strength Ratio (Lottman), minimum	CPL 5109 Method B			80	80	80
Minimum Dry Split Tensile Strength, kPa (psi)	CPL 5109 Method B			205 (30)	205 (30)	205 (30)
Grade of Asphalt Cement, Top Layer				PG58-28	PG58-28	PG58-28
Grade of Asphalt Cement, Layers below Top				PG58-28	PG58-28	PG58-28
Voids in the Mineral Aggregate (VMA) % minimum	CP 48			See Table 403-2	See Table 403-2	See Table 403-2
Voids Filled with Asphalt (VFA), %	AI MS-2			65-80	65-75	65-75
Dust to Asphalt Ratio Fine Gradation Coarse Gradation	CP 50			0.6 – 1.2 0.8 – 1.6	0.6 – 1.2 0.8 – 1.6	0.6 - 1.2 0.8 – 1.6
Note: AI MS-2 = Asphalt Institute Manual Series 2 Note: Mixes with gradations having less than 40% passing the 4.75 mm (No. 4) sieve shall be approached with caution because of constructability problems. Note: Gradations for mixes with a nominal maximum aggregate size of one-inch or larger are considered a coarse gradation if they pass below the maximum density line at the #4 screen. Gradations for mixes with a nominal maximum aggregate size of 3/4" to 3/8" are considered a coarse gradation if they pass below the maximum density line at the #8 screen. Gradations for mixes with a nominal maximum aggregate size of #4 or smaller are considered a coarse gradation if they pass below the maximum density line at the #16 screen. *Fractured face requirements for SF may be waived by RME depending on project conditions.						

All mix designs shall be run with a gyratory compaction angle of 1.25 degrees and properties must satisfy Table 403-1. Form 43 will establish construction targets for Asphalt Cement and all mix properties at Air Voids up to 1.0 percent below the mix design optimum. CDOT will establish the production asphalt cement and volumetric targets based on the Contractor's mix design and the relationships shown between the hot mix asphalt mixture volumetric properties and asphalt cement contents on the Form 429. CDOT may select a different AC content other than the one shown at optimum on the Contractor's mix design in order to establish the production targets as contained on the Form 43. Historically, Air Voids adjustments typically result in asphalt cement increases from 0.1 to 0.5 percent. Asphalt binder content shall conform to the following: minimum of 5.4% and a maximum of 6.1%. Contractors bidding the project should anticipate this change and factor it into their unit price bid.

Table 403-2

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

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

Hot mix asphalt for patching shall conform to the gradation requirements for Hot Mix Asphalt (Grading SX).

Subsection 403.03 shall include the following:

Delete subsection 403.05 and replace with the following:

403.05 The accepted quantities of hot mix asphalt will be paid for in accordance with subsection

401.22, at the contract unit price per ton for the bituminous mixture.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Hot Mix Asphalt (Grading S)(75)(PG 58-28)	Ton
Hot Mix Asphalt (Grading SX)(75)(PG 58-28)	Ton
Hot Mix Asphalt (Grading SX)(75)(PG 58-28) (Spot Variable Leveling)	Ton
Hot Mix Asphalt (Patching) (Asphalt)	Ton
Hot Mix Asphalt (Patching) (Asphalt)	SY
HMA Safety Edge	LF

Aggregate, asphalt recycling agent, asphalt cement, additives, hydrated lime, and all other work and materials necessary to complete each hot mix asphalt item will not be paid for separately but shall be included in the unit price bid. When the pay item includes the PG binder grade, any change to the submitted mix design's optimum asphalt cement content to establish production targets for the mix design/Form 43 will not be measured and paid for separately but shall be included in the work. No additional compensation will be considered or paid for any additional asphalt cement, plant modifications and additional personnel required to produce the HMA as a result in a change to the mix design asphalt cement content.

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

When the pay item does not include the PG binder grade, asphalt cement will be measured and paid for in accordance with Section 411. Asphalt cement used in Hot Mix Asphalt (Patching) will not be measured and paid for separately, but shall be included in the work.

Excavation, preparation, and tack coat of areas to be patched will not be measured and paid for separately, but shall be included in the work.

**REVISION OF SECTION 604
MANHOLES, INLETS, AND METER VAULTS**

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

Subsection 604.01 *shall include the following:*

During utility adjustments, the Engineer will identify existing manhole or utility ring and covers to be removed and replaced. Those castings identified to be replaced shall be supplied by the City or Utility Owner.

Subsection 604.06 *shall include the following:*

Removal and replacement of existing manhole and utility ring and covers will be measured by the Each. Payment shall be full compensation for all labor and materials necessary to perform the work including excavation and pick-up of ring and cover.

Manhole covers for City infrastructure shall conform to City Standard Detail SD-8.

Subsection 604.07 *shall include the following:*

PAY ITEM

Place Manhole Ring and Cover

UNIT

EA

**REVISION OF SECTION 608
SIDEWALKS AND BIKEWAYS**

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

608.03 Concrete Sidewalks and Bikeways is hereby revised to include the following:

(e) *Joints.* Newly constructed curb and gutter shall not be poured monolithically with adjacent curb ramps or sidewalks unless otherwise approved or directed by the Engineer.

**REVISION OF SECTION 614
SIGNS AND SIGN POSTS**

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

Subsection 614.02 shall include the following:

Sign posts and bases shall be steel galvanized perforated square tubing as supplied by Unistrut, or approved equal.

Signs shall use sign posts with 2-inch x 2-inch tube, with bases of 2.25-inch x 2.25-inch tube.

Bases shall be 3 feet long, embedded with 2 inches to 4 inches exposed above the ground, and the post inserted 18 inches to 24 inches into the base.

Subsection 614.09 shall include the following:

Sign panels shall be mounted to sign posts with oversized washers.

Subsection 614.14 shall include the following:

Pay Item

Steel Sign Post (2 x 2 Inch Telespar Tubing)

Pay Unit

Linear Foot

Sign post anchors, hardware and other incidental materials necessary for the proper installation of the item, will not be measured and paid for separately, but shall be included in the cost of the steel sign post.

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

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

Subsection 630.01 is revised to include the following:

1. Working hours shall be 7:00 a.m. to 7:00 p.m. Monday through Friday, 9:00 AM to 5:00 PM Saturday, and no work on Sunday in all residential areas, or as otherwise approved in writing by the Engineer.
2. A full closure of Euclid Avenue is acceptable.
3. All work done outside the times above must be approved by the Engineer in writing.

As required by, in descending order of precedence, these plans and special specifications, the current Standard Specifications, as augmented by the Colorado Department of Transportation M and/or S standards, and the current version of the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways.

Subsection 630.10 through 630.11 shall be modified to read:

Traffic control throughout the construction area is the responsibility of the Contractor. Before starting construction, the Contractor shall submit, in writing, the proposed Method of Handling Traffic (MHT) for the initial phase of construction. When a different MHT is required for a subsequent construction phase, it must be submitted two weeks prior to starting that phase. All proposed methods of handling traffic shall be approved, in writing, by the Engineer. No phase of construction shall start until an acceptable MHT has been received and approved by the Engineer. The proposed methods shall include, as a minimum, the following:

A detailed diagram which shows the location of all sign placements, including advance construction signs (if not previously approved) and speed limit signs; method length and time duration for lane closures; and location of flag persons.

A tabulation of all traffic control devices shown in the detailed diagram including, but not limited to: construction signs, vertical panels; vertical panels with lights; Type 1 and Type 2 barricades; cones and drum channelizing devices; concrete barrier (temporary); advance warning flashing or sequencing arrow panels.

Approval of the proposed MHT is intended to indicate all devices to complete the project safely. Such approval does not relieve the contractor of liability specifically assigned to him under the contract. The Contractor shall erect and maintain warning lights, signs, barricades, and sufficient safeguards around all excavations, embankments, stockpiles, equipment, and obstructions.

Non-metallic drums may be substituted for vertical panel channelizing devices if site dimensions allow.

The Contractor shall, at the preconstruction conference, designate one of their employees, other than the Superintendent, to be responsible for traffic control management. This responsibility shall include management for the contractor's signing and all other details covered by the specifications

which contribute to the convenience, safety, and orderly movement of traffic and to the comfort of the traveling public. The designated employee will have the Certification of the Traffic Control Supervisor as a Worksite Traffic Supervisor by the American Traffic Safety Services Association (ATSSA) in lieu of completion of the CDOT minimum training requirements.

Traffic control managements shall be maintained on a 24-hour per day basis. The contractor shall make arrangements so that the Traffic Control supervisor or their approved representative will be available on every working day, “on call” at all times and available upon the Engineer’s request at other than normal working hours. The Traffic Control Supervisor shall have an up-to-date copy of Part VI of the MUTCD, pertaining to traffic controls for street and highway constructions, and the approved MHT available at all times.

The contractor shall apply for and receive a City of Littleton right-of-way use permit (at no cost to the contractor) prior to commencing operations.

Due to the mobility of the operation, the contractor will need to provide traffic control consistent with the MUTCD. For sweeping operations, the contractor will need to provide an MHT.

The flagger’s STOP/SLOW sign paddle shall be 18 inches with letters six inches high.

The Contractor shall provide four (4) variable message boards for the duration of the project to be deployed at the City’s direction.

Specific traffic control requirements for this project are as follows:

- Full closures are permitted.
 - Unless the contractor is actively constructing or curing curb, gutter, sidewalk, or driveways, residential vehicular access shall be maintained between 5:00pm and 8:00am. During periods when driveways will not be accessible, Contractor shall provide residents three (3) days advanced notice.
- Traffic lanes shall be a minimum of 10 feet wide for each phase of construction when traffic lanes are maintained.
- Sidewalks shall be closed on only one side of the street at a time. When a sidewalk is closed, “Sidewalk Closed” signs shall be placed at the closure point and “Sidewalk Closed Ahead Cross Here” or “Pedestrian Detour” signs shall be placed at the next crosswalk prior. Where the next crosswalk prior is an unreasonable distance away, the Contractor shall provide a temporary interim crossing.

During non-construction periods (evenings, Sundays, holidays, etc.), vertical cuts or fills greater than 1.5 inches, resulting from construction operations within the right-of-way shall be temporarily sloped at a 3:1 or flatter slope and delineated at 25-foot intervals unless otherwise directed by the Engineer immediately after ceasing construction activities to safeguard the traveling public. The Contractor shall provide residential access using Aggregate Base Course (Class 6) adjacent to existing driveways. Payment will be made under the Force Account at the unit price for Aggregate Base Course (Class 6). Work shall include placement, shaping, compaction, maintenance, and removal of the temporary

residential access.

The Contractor shall detail safety provisions to comply with this requirement in the MHT. During non-construction periods (evenings, Sundays, holidays, etc.) all work shall be adequately protected to ensure the safety of vehicular and pedestrian traffic, as detailed in the Contractor's MHT. Excavations or holes shall be filled in and surfaced with temporary asphalt or an all-weather surface and protected with temporary barrier and fenced when unattended.

Subsection 630.13 is revised to include the following:

Prior Notification

The Contractor shall place "NO PARKING TOW AWAY ZONE" signs a minimum of 48 hours in advance.

The Contractor shall notify all residents in residential areas where work is scheduled with a 5-day notice and a 48-hour notice in advance of all construction operations. The Contractor shall distribute WRITTEN notices using door hangers to each individual residence in a form approved by the Project Manager and post signs in accordance with this section. The Contractor shall also notify all businesses in shopping and commercial areas where work is scheduled 5 days in advance of all construction operations. The Contractor shall also place signs on streets requiring no parking for operations a minimum of 48 hours in advance. The signs shall be R7-2 / R7-201, 201A as detailed in the Manual on Uniform Traffic Control Devices. The hours for parking restrictions on the signs shall conform to Revised Section 108.05. The contractor shall place sufficient signs within each block to notify residents of the parking restrictions and shall be responsible for maintaining all traffic control signs. Requests for towing may not be honored if the provisions of this specification are not met. All arrangements for towing vehicles in violation of the parking restrictions shall be made by the Contractor by contacting the CITY OF LITTLETON non-emergency phone number of 303-794-1551. It is advisable for field staff to have a physical copy of the Public Improvements Permit at all times.

Forms for resident and business notification shall be submitted to the Project Manager for approval prior to the start of construction and shall contain the following information at a minimum:

City of Littleton Logo & Contractor Logo
Project Name and Description
Name, address and telephone number of the Contractor
Description of the work (prior to mobilization, initial removals, paving)
Dates of the work (range of dates)
Contractor's contact person for citizen questions, (24-hour availability)

Towing

Vehicles shall be identified by the Engineer and shall be limited to any class of vehicle that is upright and on wheels. 'No Parking' signs shall have been in-place and maintained for a minimum of forty-eight (48) hours along the proposed street segment prior to towing a vehicle.

The Contractor shall make every reasonable attempt as determined by the Engineer, including but not limited to door-to-door investigation, to locate the owner/operator of the vehicle prior to initiating the towing process.

Towing shall be limited to towing a vehicle conflicting with the current or proposed work activities. Vehicles shall be towed using techniques that do not damage the towed vehicle or the roadway, adjacent structures, or other public property or assets. Vehicles shall be towed to a location designated by the Engineer at the time of towing, typically to an adjacent street beyond the proposed work area. **Towed vehicles shall be positioned in a legal parking space within a public roadway in a manner that permits through traffic.**

Immediately after towing a vehicle, the Contractor shall affix a notice to the windshield or other appropriate place on the motor vehicle, stating "This vehicle was parked within a Temporary Construction Work Zone. It was moved to this location by order of the City of Littleton Public Works.", or similar language approved by the Engineer.

The City shall not grant additional time or compensation for any resulting delays or loss of production because of failure to comply with the requirements of the Contract Documents including posting of notices and identifying and towing vehicles. Initial cost of towing will be the responsibility of the Contractor but can be reimbursed at a later date using the force account for the project if deemed reasonable by the Engineer and documentation of towing tickets can be provided by the Contractor.

Towing Tickets

The Contractor shall deliver a towing ticket identifying the following information:

- Date and time towing request received,
- Make, model, and license number of vehicle towed,
- Locations vehicle towed from and to, and
- Signature of an authorized City Representative with time and date work performed.

Towing Equipment Requirements

Towing equipment shall, at a minimum, be equipped with a power winch, two-way radio, ten-pound dry fire extinguisher, motorcycle sling, dollies or flatbed equipment, and other modern towing and safety devices. All equipment shall be in good working condition when reporting for use.

630.17 METHOD OF MEASUREMENT and 630.16 BASIS OF PAYMENT *are hereby deleted in their entirety and replaced with the following:*

Traffic control shall be paid on a lump sum basis to be paid for as follows: 50 percent of the Schedule amount upon first utilization and the remaining 50 percent of the Schedule amount when 75 percent of the original schedule amount has been earned.

In the event towing services are required, the Contractor shall be reimbursed \$150 per vehicle through the Force Account. Reimbursement shall be considered full compensation for coordination, mobilization, towing vehicles, mechanical work, fees, fuel, maintenance, and for furnishing all materials, labor, equipment, tools, and incidentals or related services necessary to complete the work. Any towing performed without required signage or pre-authorization will not be paid.

PAY ITEM

Traffic Control

UNIT

Lump Sum

FORCE ACCOUNT ITEMS

DESCRIPTION

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

BASIS OF PAYMENT

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

Force account work valued at \$5,000 or less, that must be performed by a licensed journeyman 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>Force Account Item</u>	<u>Quantity</u>	<u>Estimated Amount</u>
Force Account	F.A.	\$250,000.00
Force Account - Landscape Restoration	F.A.	\$100,000.00

PROJECT DESCRIPTION

The City of Littleton Public Works is concentrating on maintaining and preserving the condition of existing roadway infrastructure throughout the City. This project consists of furnishing all labor, equipment, and some materials necessary to reconstruct, rehabilitate, and maintain several residential streets within City limits. The anticipated work includes concrete pavement, asphalt paving, shoulder installation, concrete curb, gutter, and curb ramps, patching, signage, and adjusting manholes and valves.

LOCATION SCHEDULE

See attached construction documents.

CONSTRUCTION NOTES

Alternative construction sequences may be submitted but are subject to approval by the Engineer. Acceptance of alternatives will be based upon impacts to the public and cost.

Stockpiling location of material must be approved by the Engineer, or a written approval from property owner submitted.

All excess material will be disposed of off-site, or at an approved site by the Engineer.

Due to budget limitations, the City reserves the right to increase or decrease the total quantity to meet their needs. Repricing of the items will not be permitted due to a change in the planned quantity.

Work shall proceed at the direction of the City's Engineer or his designee.

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