CITY AND COUNTY OF DENVER
DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE
SPECIAL PROVISIONS
DENVER CITY SIDEWALK GAPS
DISTRICT 9 PACKAGE 8 GROUP B – E 44th AVENUE

General Contract Conditions shall be the City and County of Denver, Department of Public Works, "Standard Specifications for Construction General Contract Conditions," 2011 edition and hereinafter modified shall be used for this project.

STANDARD CONSTRUCTION SPECIFICATIONS

The Standard Construction Specifications for this Project shall consist of the applicable sections and subsections, numbered Section 200 through Section 700, of the "Colorado Department of Transportation Standard Specifications for Road and Bridge Construction" adopted in 2025 and as herein modified.

The Colorado Department of Transportation General Provisions consists of Sections 100 through 109 of the above mentioned specifications. With the exception of General Provision Sections 101, 102.03, 102.04, 102.05, 104.02, 105.11, 107.17, 109.04, all other General Provisions are not applicable to this Project and are hereby deleted. In place of the deleted sections, the City and County of Denver "Standard Specifications for Construction, General Contract Conditions," 2011 Edition, shall apply to this contract. Supplements or amendments to the Standard Specifications for Construction, General Contract Conditions are listed in the Special Contract Conditions.

The following Project Special Provisions supplement or amend the referenced "Standard Specifications for Road and Bridge Construction" adopted in 2025 by the Colorado Department of Transportation.

DETAILED CONSTRUCTION SPECIFICATIONS

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

STANDARD CONSTRUCTION DETAILS

It is the intent of the City to use applicable details from the Colorado Department of Transportation M&S Standards, the City of Denver's Wastewater Management Division Standard Details, and the Denver Water Department's Standard Drawings. Drainage related appurtenances shall follow the City and County of Denver (CCD), Department of Transportation and Infrastructure document titled "Storm Drainage and Sanitary Sewer Construction Detail and Technical Specifications". This document can be found at the following web address: https://www.denvergov.org

The Colorado Department of Transportation (CDOT) Special Provisions, Standard Special Provisions are to be used for the project. Use CDOT Project Special Provisions that revise the above-described documents and prevail over above described documents.

The Project Special Provisions supplement or amend provisions of the City and County of Denver "Construction Specifications" referenced Standard Construction Specifications.

DEFINITION OF PROJECT MANAGER: The term "PROJECT MANAGER" shall refer to the City's Build Project Manager. For all situations in which the Contractor requires clarification and direction (e.g. plan interpretation, changing field conditions, unknown utilities, etc.), the Contractor shall contact the Project Manager. The Contract Documents (plans, specifications, project special provisions, general conditions, reports, etc.) were prepared from and reference numerous sources. These sources use various terms to define the project's ownership and management team (e.g. Project Manager, Inspector, Construction Project Manager, etc.) For purposes of this project, all of these terms shall mean the Project Manager as defined above. When the term "Engineer" or "Owner" is used, the Contractor shall contact the Project Manager, and the Project Manager will coordinate with the Engineer or Owner as needed.

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The Colorado Department of Transportation's "Standard Specifications for Road and Bridge Construction", dated 2025, controls construction of this project. The following Special Provisions supplement or modify the Standard Specifications and take precedence over the Standard Specifications and Plans.

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CDOT STANDARD SPECIAL PROVISIONS (2025)

SSP Index 4-09-2024
(For 2025 Spec Book)

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DEFINITIONS 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 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 and County of Denver, Colorado.

Subsection 101.29 "Engineer" shall mean the Director of Transportation and Infrastructure, Denver, Colorado, or designated representative.

Subsection 101.39 "Laboratory" shall mean City and County of Denver, Colorado or their designated representative.

Subsection 101.51 "Project Engineer" shall mean the Director of Transportation and Infrastructure, Denver, Colorado, or designated representative.

Subsection 101.76 "State" shall mean City and County of Denver, Colorado (where applicable).

REVISION OF SECTION 201
CLEARING AND GRUBBING

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

Subsection 201.03 paragraph (a) shall be revised as follows:

Area Basis. The work to be paid for will be the number of square yards acceptable cleared and grubbed, including scalping, within the limits shown on the plans or staked by the Engineer.

Subsection 201.04 paragraph (a) shall be revised as follows:

Area Basis. The quantities will be paid for at the contract unit price bid per square yard for each pay item that appears in the bid schedule.

Subsection 201.04 shall be revised to include the following:

Pay Item	**Pay Unit**
Clearing and Grubbing	Square Yard (SY)

REVISION OF SECTION 202
REMOVAL OF SIDEWALK

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

Subsection 202.11 shall include the following:

Removal of Concrete Sidewalk will be measured by the square yard regardless of depth. Removal shall occur to the nearest concrete joint allowing for the specified work to be completed. If concrete saw cutting is required, it will not be paid for separately but shall be included in the work.

Removal of concrete sidewalk shall include concrete curb ramps and curb and gutter included with curb ramps designated to be removed.

Subsection 202.12 shall include the following:

Pay Item	**Pay Unit**
Removal of Concrete Sidewalk	Square Yard (SY)

REVISION OF SECTION 202
REMOVAL OF CURB AND GUTTER

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

Subsection 202.11 shall include the following:

Removal of Curb and Gutter will be measured by the linear foot regardless of depth or type. Removal shall occur to the nearest concrete joint allowing for the specified work to be completed. If concrete saw cutting is required, it will not be paid for separately but shall be included in the work.

Subsection 202.12 shall include the following:

Pay Item	**Pay Unit**
Removal of Curb and Gutter	Linear Foot (LF)

REVISION OF SECTION 202
REMOVAL OF PAVEMENTS

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

Subsection 202.11 shall include the following:

Removal of Asphalt Mat will be measured by the square yard regardless of depth. Sawcutting will not be paid separately and shall be included in the cost for Removal of Asphalt Mat.

Removal of Concrete Pavement will be measured by the square yard regardless of depth. Sawcutting will not be paid separately and shall be included in the cost for Removal of Concrete Pavement.

Subsection 202.12 shall include the following:

Pay Item	**Pay Unit**
Removal of Asphalt Mat	Square Yard (SY)
Removal of Concrete Pavement	Square Yard (SY)

REVISION OF SECTION 208
EROSION CONTROL

Section 208 of the Standard Construction Specifications is hereby removed in its entirety and replaced with the following:

PART I: DEFINITIONS

Definitions used for this Section shall consist of those listed in Title 1 of the City and County of Denver "Standard Specifications for Construction, General Contract Conditions", 2011 edition.

Definitions used for this Section hereby incorporate those identified within the City and County of Denver Construction Activities Stormwater Manual (CASM).

Additional Definitions applicable to this Section are listed heretofore:

Basis of Payment: The terms under which "Work" is paid, as a designated "Pay Item" in accordance with the quantity measured and the "Pay Unit."

Best Management Practices (BMPs): Schedules of activities, prohibitions of practices, installation of devices, maintenance procedures, and other management practices deployed to stabilize the construction site to prevent or reduce the pollution of State Waters (see definition below). Stormwater BMPs can be classified as "structural" (i.e., devices installed or constructed on a site) or "non-structural" (procedures, such as modified landscaping practices).

Colorado Department of Health and Environment (CDPHE): State of Colorado, Water Quality Control Division responsible for issuance of State Construction Stormwater Permit.

Construction Activities Stormwater Discharge Permit (CASDP): Permit issued by the City for compliance with City & County of Denver Revised Municipal Code and Department of Public Works Rules & Regulations concerning the discharge of pollutants in storm generated runoff from construction sites to Municipal Separate Storm Sewer System (MS4, see definition below) or State Waters, via the Municipal Separate Storm Sewer System (MS4).

Construction Activities Stormwater Manual (CASM): City and County of Denver Construction Activities Stormwater Manual (CASM), 2010 edition.

Colorado Department of Transportation (CDOT): State agency that has published standards for Erosion Control with accompanying Erosion Control Supervisor certification courses.

Erosion Control Supervisor (ECS): The Erosion Control Supervisor is assigned by the Contractor to perform duties as described in this Section. The ECS shall be properly trained in BMPs per requirements of Part V below and shall be under the direction of a Professional Engineer licensed in the State of Colorado when performing any modifications to the Project Stormwater Management Plan (SWMP).

Final Stabilization: Point of construction when all ground surface disturbing activities at the site have been completed and uniform vegetative cover has reached 70% of pre-disturbance vegetative cover, or equivalent permanent features have been employed. At this point, all temporary BMPs can be removed, all construction and equipment maintenance wastes have been disposed of properly; and all elements of the Stormwater Management Plan have been completed.

Major SWMP Modification: Changes to the original SWMP that removes or adds additional area to the Project or modifies the final hydrology or drainage of the Project. A Major SWMP Modification requires the submission of revised Stormwater Management Plan (SWMP) elements to the Permit Authority for review and approval. Any adjustments to a SWMP must be performed either by or under the direction of a Professional Engineer licensed in the State of Colorado.

Municipal Separate Storm Sewer System (MS4): A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

a) Owned or operated by a State, city, town, county, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of stormwater or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under Section 208 of the Federal Clean Water Act that discharges to State Waters;
b) Designed or used for collecting or conveying stormwater;
c) Which is not a combined sewer; and
d) Which is not part of a Publicly Owned Treatment Works (POTW).

Permit Authority: The Department authorized by the City to review and process CASDP Applications for Capital and/or governmental sponsored Projects. The responsible City department serving as the Permit Authority is the Public Works Project Controls Office. As a clarification, the Development Services Department of the City serves as the point of intake and permit processing center.

Permit Enforcement Authority: The Department authorized by the City to inspect and enforce CASDP Rules and Conditions for all construction Projects within the City's MS4 Boundary. The responsible City department serving as the Permit Enforcement Authority is the Wastewater Management Division of the Department of Public Works.

State Construction Stormwater Permit: Colorado Revised Statues require that all construction sites/development Projects, which, by definition, disturb one or more acres in area, shall be covered by a State issued general permit for construction activities. Information on the application requirements for the State permit can be obtained by phone at 303-692-3500; or by visiting their offices located at 4300 Cherry Creek Drive South, Denver, CO 80246–1530; or on the Web at: www.cdphe.state.co.us

State Waters: Any and all surface waters which are contained in or flow in or through this State, not to include waters in sewage systems, waters in treatment works of disposal systems, waters in potable water distribution systems, and all water withdrawn for use until use and treatment have been completed.

Examples of State Waters include, but are not limited to, perennial streams, intermittent or ephemeral gulches and arroyos, ponds, lakes, reservoirs, irrigation canals or ditches, wetlands, stormwater conveyances (when they discharge to a surface water), and groundwater.

Stormwater Management Plan (SWMP): The Stormwater Management Plan contains the requirements necessary to accomplish all of the following:

The SWMP establishes a minimum standard to construct, install, maintain, and remove required BMPs during the life of the Contract to prevent or minimize pollution of stormwater due to erosion, sediment transport, and construction related pollutant generated during all phases of the Project. A SWMP consists of the following elements:

(i) CASDP Narrative Worksheet with Narrative Report. The Narrative Report and supporting documents should fully address the methods to be used to prevent sediment, debris, and other pollutants from entering the MS4 and/or State Waters in and around the Project area. Proposed structural and non-structural BMPs should be described with sufficient implementation detail to ensure that the logical phases of the proposed construction Project meet the performance standards listed in the CASM.

(ii) Proposed site drawings and Best Management Practice (BMP) installation details as they apply to the site conforming to the Urban Storm Drainage Criteria Manual, Vol. 3, "Best Management Practices", most current version as issued by the Urban Drainage and Flood Control District (UDFCD), or those established by the City's Department of Public Works. If erosion control drawings were included within the bid documents for the Project, they shall be used for bid purposes and initial planning/deployment of BMPs on the Project. If provided drawings are signed/ sealed by a Professional Engineer, they have been pre-approved by the Permit Authority and may be used without revision for purposes of submitting for CASDP. If provided drawings do not have signature/seal of a Professional Engineer licensed by the State of Colorado, they will require revision by the Contractor with Professional Engineer signature/seal prior to submission to the City and County of Denver for CASDP.

(i) Supporting documentation related to proposed BMPs that are not currently identified in UDFCD Vol. 3 or as otherwise published by the City.

SWMP elements submitted to the City shall also meet currently established criteria of the CDPHE as the SWMP must meet all local, State and Federal requirements.

Substantial Completion of Erosion Control: Point of construction when permanent BMPs have been installed, initial growth is in place, and the site is waiting for vegetative cover to reach 70% of pre- disturbance vegetative cover.

PART II: DESCRIPTION

This Work shall consist of constructing, installing, maintaining, and removing when required, BMPs during the life of the Contract until Final Stabilization to prevent or minimize erosion, sedimentation, and pollution of any waters including storm, drainageways, MS4, State Waters, and/or wetlands. Work under this Section includes the Contractor obtaining required Permits, utilizing SWMP elements provided in the Contract, and/or SWMP elements specifically prepared by the Contractor as defined herein. The work shall also consist of providing on-going maintenance and monitoring of the SWMP as may be necessary due to the specific and/or dynamic needs of the Project as well as meet all requirements set forth within the CASM.

The Contractor shall coordinate the construction of temporary BMPs with the construction of permanent BMPs to assure economical, effective, and continuous erosion and sediment control and water pollution prevention throughout the construction period until Final Stabilization is achieved

When a provision of this Section or an order by the Permit Enforcement Authority requires that an action be immediate or taken immediately, it shall be understood that the Contractor shall at once begin effecting completion of the action and pursue it to completion in a manner acceptable to the Permit Enforcement Authority, and in accordance with applicable Permitting requirements.

PART III: MATERIALS

Materials to be used for BMPs shall conform to each specific detail as set forth within the Project SWMP or as

noted on the Contract Drawings.

PART IV: EROSION CONTROL PERMIT STATUS

The current SWMP status for the Project is as follows:

A CDPS-SCP is currently not required for this project as the proposed disturbed area and/or proximity to stream does not meet the minimum criteria for requiring a CASDP. All provisions of the following Parts V-VIII of this Section are hereby deleted and shall not be made part of the Project. However, the responsibilities for minimizing sediment pollution from the Project have not been waived, and as such, the City hereby requires the Contractor to perform as specified in the following notes.

"A CASDP Permit will not be required for this project, however, the Contractor and/or their authorized agents shall ensure that all potential pollutants generated during demolition, excavation, trenching, boring, grading, or other construction Work associated with this permit, be prevented from discharge to stormwater conveyance systems in the vicinity of the Project.

The 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 lines of storm drainage appurtenances 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.

The Contractor shall be held responsible for remediation of any adverse impacts to the CCD MS4, State Waters, waterways, wetlands, and or other public or private properties, resulting from work done as part of this Project.

The Contractor and/or their authorized agents shall insure that all loads of cut and fill material imported to or exported from the Project shall be properly covered to prevent loss of the material during transport on public rights of way." (Sec.49-552; Revised Municipal Code)

The use of rebar to anchor best management practices, other than portable toilets, is prohibited.

Approved erosion and sediment control 'Best Management Practices' shall be maintained and kept in good operating condition for the duration of the Project. All necessary maintenance and repair shall be completed immediately upon discovery of any deficiency or defect.

The Contractor and/or their authorized agents shall implement the following Best Management Practices (BMPs) on site during construction:

1. VEHICLE TRACKING CONTROL: This BMP is required at all access points for ingress/egress from off-site impervious surfaces to construction site pervious areas that are used by vehicular traffic or construction equipment.

2. 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.

3. INTERIM SITE STABILIZATION: This BMP is required to provide a measure for preventing the discharge of sediment from construction sites where overlot 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)

4. 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, periodically removed from the construction site, and properly disposed of.

5. 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.

6. CHUTE WASHOUT CONTAINMENT: Water used in the cleaning of cement truck delivery chutes shall be discharged into a predefined, bermed containment area on the job site. The required containment area is to be bermed so that wash water is totally contained. Wash water discharged into the containment area shall be allowed to infiltrate or evaporate. Dried cement waste shall be removed from the containment area and properly disposed of.
    a. The direct or indirect discharge of water containing waste concrete to the storm sewer system is prohibited (Sec.56-102a, c; Revised Municipal Code, City and County of Denver).

7. SWEEPING: 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 minimize dust. Flushing off paved surfaces with water is prohibited.

8. 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 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.

9. 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 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.

10. SAW CUTTING OPERATIONS: The Contractor shall protect all storm sewer facilities adjacent to any location where pavement cutting operations involving wheel cutting, saw cutting, or abrasive water jet cutting 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).

PART V: BASIS OF PAYMENT

Erosion Control items as specified in Part V will not be measured and paid for separately but shall be included in the project Force Account for Erosion Control.

Payment will be full compensation for all work, materials and equipment required to complete the item, including surface preparation, maintenance throughout the project, and removal upon completion of work.

Pay Item	Pay Unit
Storm Drain Inlet Protection (Type III)	Each (EA)
Concrete Washout Structure	Each (EA)
Vehicle Tracking Pad	Each (EA)
Sweeping (Sediment Removal)	Hour (HR)

REVISION OF SECTION 210
RESET STRUCTURES

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

Subsection 210.13 shall include the following:

Pay Item	**Pay Unit**
Reset Ground Sign	Each (EA)

REVISION OF SECTION 210
ADJUST STRUCTURES

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

Subsection 210.10 insert after the first sentence:
For this project, other structures include the existing inlets at the following locations as shown in the plans:

Northwest Corner of 44th Avenue and Grant Street
Northwest Corner of 44th Avenue and Logan Street

Subsection 210.13 shall include the following:

Pay Item	**Pay Unit**
Adjust Structure	Each (EA)
Adjust Valve Box	Each (EA)

REVISION OF SECTION 212
LANDSCAPE RESTORATION

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

Subsection 212.01 shall include the following:

Disturbance of existing landscaping shall be minimized wherever possible. Contractor shall notify the Engineer or Project Manager prior to any disturbance before beginning of work. Contractor shall document all existing conditions with the Engineer or Project Manager by means of video documentation before beginning of work.

Landscape restoration shall consist of the repair and/or replacement of all materials that may be damaged through the actions of the Contractor or his agents. If the area shown in the plans specified for landscape restoration consist of soil with no formal materials including plantings, grass, rock/wood mulch, etc., the restoration will be accomplished by the placement of crusher fines (Grey Breeze) as specified by CDOT.

Subsection 212.07 shall include the following:

Landscape restoration will be measured by the actual number of square yards restored and accepted by the Engineer.

Subsection 212.08 shall include the following:

Pay Item	**Pay Unit**
Landscape Restoration	Square Yard (SY)

REVISION OF SECTION 250
ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT

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

Subsection 250.01 shall include the following:

Excavation and drilling activities associated with the proposed project have the potential to encounter soil and groundwater that may have been impacted by petroleum products or previous releases of hazardous substances. Workers shall be alert during excavations for any visual or olfactory signs of contamination. If soil and/or groundwater contamination is encountered, work will stop immediately and the procedures outlined in the project's material management plan and Section 250 of Standard Specifications for Road and Bridge Construction shall be followed. The Contractor shall be responsible for the required workers' health and safety.

If contaminated groundwater is encountered, all groundwater brought to the surface shall not be directly discharged (or allowed to run off) into a storm sewer, wetlands, ditch, or any waters of the State. The water shall be contained in tanks or drums and properly disposed in accordance with all local, state and federal regulations.

Subsection 250.03 shall include the following:

The Contractor will prepare a material management plan (MMP) to ensure hazardous materials and contaminated groundwater are handled properly. The Contractor shall follow the MMP – Draft Template and MMP Checklist provided in Appendix A in drafting the MMP. The MMP will be submitted either prior to, or at the Pre-Construction Conference for review and approval by Denver EQ. The cost of the MMP will not be paid for separately but shall be included in the work.

The Contractor shall be responsible for the required worker health and safety and the public in accordance with all applicable local, state and federal regulations. The Contractor Health and Safety Officer and/or Monitoring Technician shall be on site as necessary during subsurface activities to ensure the safety of workers, as detailed in the CDOT Standard Specification 250 -Environmental, Health and Safety Management and this 250 Standard Specification revision. Denver EQ will also be contacted.

For proper handling of asbestos-contaminated soil, if any, the Contractor will follow all applicable Solid and Hazardous Waste Regulations and the procedures listed in the project's material management plan (MMP). Asbestos contaminated soil removal must be performed by a Certified Asbestos Inspector (CABI) to determine what, if any, controls must be instituted to allow future activity in the excavation area.

If petroleum contaminated soils are encountered, the Contractor must follow standard materials management for such soils. Any petroleum contaminated soils shall be loaded into a truck(s) and hauled to the Denver Arapahoe Disposal Site (DADS) as special waste.

If petroleum impacted groundwater is encountered, a hydrovac truck or some other method of containerization must be used to collect the water until it is tested for contaminants prior to discharge and proper disposal. Dewatering requirements include capturing any water encountered during caisson drilling and hauling it to a certified disposal facility.

As always, if unanticipated soil staining, odors, landfill gas or petroleum/solvent contaminated groundwater are discovered during construction activities, work should stop until an EQ environmental professional makes a determination on how best to proceed. Additionally, CDOT Spec. 250 must be followed at all times.

REVISION OF SECTION 250
ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT

Payment will be made under:

Pay Item	**Pay Unit**
Environmental Health and Safety Management	Lump Sum (LS)

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					
							Patching
Air Voids, percent at: N (design)	CPL 5115						3.5 – 4.5
Lab Compaction (Revolutions): N (design)	CPL 5115						8 100
Stability, minimum	CPL 5106						30
Aggregate Retained on the 4.75 mm (No. 4) Sieve for S, SX and SG, and on the 2.36mm (No. 8) Sieve for ST and SF with at least 2 Mechanically Induced fractured faces, % minimum*	CP 45						60
Accelerated Moisture Susceptibility Tensile Strength Ratio (Lottman), minimum	CPL 5109 Method B						80
Minimum Dry Split Tensile Strength, kPa (psi)	CPL 5109 Method B						205 (30)
Grade of Asphalt Cement, Top Layer							PG (64-22)
Grade of Asphalt Cement, Layers below Top							PG (64-22)
Voids in the Mineral Aggregate (VMA) % minimum	CP 48						See Table 403-2
Voids Filled with Asphalt (VFA), %	AI MS-2						65-75
Dust to Asphalt Ratio Fine Gradation Coarse Gradation	CP 50						 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. 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.

The hot mix asphalt shall not contain any reclaimed asphalt pavement.

Hot mix asphalt for patching shall conform to the gradation requirements for Hot Mix Asphalt Patch (Grading S)(100)(PG 64-22).

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

Subsection 403.03 shall include the following:

The Contractor shall use an approved anti-stripping additive. The amount of additive used shall be a minimum of 0.5 percent by weight of the asphalt cement. The additive shall be added at the refinery or at the hot plant. If liquid anti-stripping additive is added at the plant, an approved in-line blender must be used. The blender shall be in the line from the storage tank to the drier drum or pugmill. The blender shall apply sufficient mixing action to thoroughly mix the asphalt cement and anti-stripping additive. The Contractor shall construct the work such that

all roadway pavement placed prior to the time paving operations end for the year, shall be completed to the full thickness required by the plans. The Contractor's Progress Schedule shall show the methods to be used to comply with this requirement.

Patching depths shall match the existing pavement depths at each location. Tack coat shall be applied between each asphalt layer.

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 square yard for the bituminous mixture. If the existing asphalt mat is over 9" thick, the unit price will be increased in proportion to the additional thickness (18" asphalt mat will be paid at twice the unit price).

Payment will be made under:

Pay Item	**Pay Unit**
Hot Mix Asphalt Patch (Grade S)(100)(PG 64-22)	Square Yard (SY)

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 optimum asphalt cement content to establish production targets on the 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 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.

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 412
CONCRETE PAVEMENT

Section 412 of the Standard Specifications is hereby revised for this project as follows:

Subsection 412.24 shall include the following:

Payment will be made under:

Pay Item	**Pay Unit**
Concrete Pavement, 8” Thick	Square Yard (SY)

REVISION OF SECTION 603
CULVERTS AND SEWERS

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

Subsection 603.02 shall include the following:

All Reinforced Concrete Pipe constructed with this project shall be Class V Pipe (reinforced).

Concrete Collars shall consist of concrete Class B.

The Contractor shall use rubber gaskets for the installation of Reinforced Concrete Pipe. The rubber gasketed joints shall conform to the requirements of ASTM C 443M (ASTM C 443) and shall be flexible and able to withstand expansion, contraction, and settlement. All rubber gaskets shall be stored in as cool a place as practicable, preferably at 70 degrees Fahrenheit or less.

Subsection 603.12 shall include the following:

Concrete Class B, rebar, bolts, threaded rods, nuts, bedding, bituminous coating, and any other materials required for the construction of Concrete Collar (Special) shall not be paid for separately but shall be included in the cost of the pipe per linear foot measured along the bottom centerline.

Subsection 603.13 shall be deleted after the first paragraph and replaced with the following:

Payment will be made under:

Pay Item	**Pay Unit**
15 Inch Reinforced Concrete Pipe (Complete In Place)	Linear Foot (LF)

Structure excavation and structure backfill for Reinforced Concrete Pipe (Complete in Place) will not be measured and paid for separately but shall be included in the work.

Repair of damaged coatings will not be paid for separately and shall be included in the work.

REVISION OF SECTION 608
SIDEWALKS AND CURB RAMPS

Section 608 of the Standard Specifications is hereby revised to include:

Subsection 608.01 shall include the following:

Concrete Curb Ramp construction shall conform to the requirements of the City and County of Denver's Standard Details for Curb Ramps for the type specified. Construction of concrete curb ramps to include the installation of detectable warnings. Concrete Sidewalks shall be as shown on the plans and shall be 5 feet wide and 4 inches minimum thickness.

Subsection 608.02, delete in its entirety and replace as follows:

Materials shall meet the requirements specified in the following subsections: **Joint Fillers 705.01**

Concrete for sidewalks and curb ramps shall be Class "P", broom finish with natural color as specified in subsections **601.02** and **601.03**, except that No. 67 coarse aggregate shall be used.

Detectable warnings on curb ramps shall be Armor-Tile Tactile Systems or approved equal.

Alternate materials may be used, if pre-approved by the Engineer. 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 Engineer for approval prior to the start of work.

All concrete used for sidewalks 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 FIRBERMESH or FORTA FIBRE per cubic yard of concrete. The contractor shall submit a legible electronic copy of fibrous concrete reinforcement product data for use by the Engineer.

Concrete will be subject to inspection and tests as required to assure compliance with quality requirements.

Subsection 608.03 shall include the following:

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

Subsection 608.05 shall include the following:

Detectable warnings on 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.

Subsection 608.06 is hereby revised to include:

Payment will be made under:

Pay Item	**Pay Unit**
Concrete Sidewalk, 5' Wide, 4" Thick	Square Yard (SY)
Concrete Curb Ramp Type 1	Each (EA)
Concrete Curb Ramp Type 4	Each (EA)

Excavation to proposed subgrade elevation will not be paid for separately but shall be included in the work.

REVISION OF SECTION 608
SIDEWALKS AND CURB RAMPS

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.

REVISION OF SECTION 609
CURB AND GUTTER

Section 609 of the Standard Specifications is hereby revised to include:

Subsection 609.01 is hereby revised to include:

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

Paragraph 2 shall be deleted and replaced with the following:

Concrete for Curb and Gutter shall conform to the requirements for Class "P" concrete as specified in subsections **601.02** and **601.03**. When curb machines are used, the Contractor will be permitted to use AASHTO M 43 Size 57 or 67 aggregate in lieu of the coarse aggregate specified in Table 601-1, and a lesser slump will be permitted. Dowels are required in the curb and gutter when size 57 or 67 aggregate is used.

Subsection 609.03(a) is revised to include:

Excavation shall conform to the requirements of 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 Engineer to reject the work. Rejected work will be replaced or corrected by the Contractor at no expense to the City. The 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 City shall replace the work the expense of the Contractor.

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 Engineer, the Contractor shall remove and replace the unacceptable items at Contractor's expense.

Subsection 609.03(d) is hereby revised to include:

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 Engineer prior to construction.

Subsection 609.03(i) is hereby revised to include:

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 ¼" will require removal and replacement of such items at the Contractor's expense.

Subsection 609.07 is hereby revised to include:

Payment will be made under:

Pay Item	**Pay Unit**
6" Curb and Gutter – 2' Catch Pan	Linear Foot (LF)

REVISION OF SECTION 609
CURB AND GUTTER

Excavation to proposed subgrade elevation will not be paid for separately but shall be included in the work.

Payment shall be full compensation for labor and materials to construct to the dimensions shown on plans. Reconditioning, reinforcing steel, forms, finishing, jointing, backfill and curing, will be in accordance with these plans and specifications and will not be paid for separately.

REVISION OF SECTION 626
MOBILZATION

Subsection 626 of the standard specifications is hereby revised as follows:

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.

Pay Item	Pay Unit
Mobilization	Lump Sum (LS)

REVISION OF SECTION 626
PUBLIC INFORMATION SERVICES

Subsection 626 of the standard specifications is hereby revised as follows:

DESCRIPTION

Subsection 626.01 shall include the following:

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

At the preconstruction conference the Contractor shall introduce the Public Information Manager (PIM) for the project and present a public information plan and strategies or methods for communicating project activities. The Contractor shall prepare and submit a preliminary list of stakeholder groups and specific stakeholders that need to receive ongoing communication about the project.

The Contractor's PIM shall be a professional, having graduated from an accredited college or university with a bachelor's degree in Public Relations, Communications, or a closely related field of study. In addition, the PIM shall have two years experience in community outreach and partnership development or a comparable field. Related work experience may be substitute for the type of degree. The Project Manager, after consulting with the City's Public Relations Manager, will approve the Contractor's PIM prior to the preconstruction conference. The identity of the PIM and the PIM'S qualifications shall be submitted to the Project Manager five days in advance of the preconstruction conference.

The PIM shall be available on every working day, accessible and on call by cell phone or pager at all times and available upon the request of the Project Manager at other than normal working hours. The PIM shall communicate with the Project Manager daily.

The Contractor shall establish a Public Information office (PIO) equipped with a telephone and an answering machine or answering device with the capability to record a message from the caller. This may be a cell phone, but must be a local number. The PIO shall be equipped with a computer and an e-mail account. The PIO may or may not be located within the Contractor's regular office provided that the telephone has a local call number. The PIM shall record a friendly greeting on the project's published phone line each week, updating the message throughout the week, as necessary, depending on changes in work schedule, activities and traffic impacts. The recording shall include each week's forthcoming activities including work days, hours and expected traffic delays, posted detours, project completion date, and office hours. The PIM shall check the answering machine at least twice every calendar day, including weekends. The PIM shall respond to callers and e-mail inquiries as soon as possible, but at least within 24 hours. The PIM shall keep a logbook of all calls including the contact name, date of contact, date responded, the contact's comments, and the action the PIM took. A copy of this log shall be submitted to the Project Manager every two weeks or more frequently, as requested by the Project Manager.

The PIM shall maintain communications with businesses and individual residences, commuters, local government entities and all other stakeholders that are directly adjacent to and affected by the project. Using a communications method or strategy approved by the Project Manager, the Contractor shall notify stakeholders about the project two weeks prior to beginning any lane restrictions or project activities.

REVISION OF SECTION 626
PUBLIC INFORMATION SERVICES

Depending upon project impacts, contact with stakeholders may be required daily, weekly, monthly or periodically throughout the duration of the project. Communications tools could include hand flyers, door hangers, newsletters, mailers, using e-mail distribution lists, etc. All public information correspondence and subsequent updates must be approved by the Project Manager 48 hours before distribution.

Each communication tool shall include contact information, PIM's name, office phone, City and County of Denver Web-site address with City and County of Denver logo. Cell phone numbers and e-mail addresses shall be provided where service is available. The communication shall include the description of work, lane restrictions, a detour map if warranted, the anticipated start and completion dates, hours of operation and work schedule, and a Slow for the Cone Zone message.

The Contractor shall erect construction traffic signs with the dates the Contractor expects to initiate and complete construction and with the Contractor's public information office's or PIM's phone number at each major approach to the project. The signs shall conform to the requirements of Section 630 and shall be erected at least one week prior to the beginning of construction.

An individual project web-site will be developed and will be hosted on City and County of Denver's web site using the City and County of Denver template. The Contractor shall coordinate with the Project Manager to develop information for the project website in accordance with the City and County of Denver standard template. The site will be revised and maintained by the City and County of Denver.

The City and County of Denver's Project Manager will write and distribute all News Releases to the media and handle all media relations and outreach. The Contractor shall not provide information to the media without first consulting with Denver's Project Manager.

The Contractor superintendent or PIM shall submit weekly lane closure reports using the template provided by the Project Manager for posting on the project website.

The Public Information Services Contact Sheet shall include the following:

Owners:

City and County of Denver
Name: Nora Neureiter
Email: nora@nhnconsultingllc.com

Other Contacts:

CDOT
Name: Bob Wilson
Phone: 303-757-9431 Email: bob.j.wilson@state.co.us

Denver Fire Department
Phone: 720-913-3473 (Headquarters) 720-913-3421 (Division 1 – Operations)

Denver Police Department
Phone: 720-913-2000

REVISION OF SECTION 626
PUBLIC INFORMATION SERVICES

Denver Public Works Department:
Phone: 720-913-1311

Colorado State Patrol
Phone: 303-239-4501 (Denver Regional Communication Center)

BASIS OF PAYMENT

Subsection 626.02 shall include the following:

The Project Manager will monitor the PIM and all public information services. When the Contractor provides acceptable public information services in accordance with these specifications, partial payments for the pay item Public Information Services will be made as the work progresses. These partial payments will be made as follows:

When 5 percent of the original Contract amount is earned, 25 percent of the amount bid for this item will be paid.

When 10 percent of the original Contract amount is earned, 40 percent of the amount bid for this item, less all previous payments, will be paid.

When 25 percent of the original Contract amount is earned, 50 percent of the amount bid for this item, less all previous payments, will be paid.

When 75 percent of the original Contract amount is earned, 75 percent of the amount bid for this item, less all previous payments, will be paid.

When 100 percent of the original Contract amount is earned, 100 percent of the amount bid for this item, less all previous payments, will be paid.

Failure to provide acceptable public information services will result in withholding of progress payment for this item. Continued failure to provide the services required will result in non-payment of the corresponding percentage of the original bid item and may result in suspension of the work in those areas affected until acceptable public information services are provided by the Contractor.

For the purpose of public information services, the term “original Contract amount” as used above, shall mean the amount bid for the construction items on this Contract, not including the amounts bid for Public Information Services and Mobilization.

Payment for Public Information Services will be full compensation for all fliers, public information office, telephone lines, and all other labor and materials required to complete the item, except signs. Signs will be measured and paid for in accordance with Section 630.

Payment will be made under:

Pay Item	Pay Unit
Public Information Services	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 to the Project Manager, the proposed Method of Handling Traffic (MHT) for review and approval. The MHT shall be developed according to this section and the construction plans.

Subsection 630.06 Channelizing Devise (fixed) shall include the following:

Non-metallic drums or tubular markers may be substituted for vertical panel channelizing devices.

Subsection 630.09 General shall include the following:

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

Subsection 630.10(a), 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 Manager following approval of the Traffic Engineering Services 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 Manager 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(a)(1) shall be added as follows:

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:

- Tabulation of Traffic Engineering Items included in the plans for this project.
- Latest revised Standard Plan S-630-1, Traffic Controls for Highway Construction and Standard Plan S-630-2.

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 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 Manager. Weekend and nighttime work will be allowed with the prior written approval of the Project Manager. 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 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 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 Engineer.

8. The Access Maintenance Plan shall be coordinated with all affected owners, Denver Parks 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 Engineer, access may be maintained on an aggregate base course surfaces.

REVISION OF SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL

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 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 ensure the safety of vehicular and pedestrian traffic, as detailed in the Contractor's MHT. Excavations or holes shall be filled in or fenced when unattended.

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 Manager.

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 Manager.

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 Manager 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.

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 City of Denver.

19. All lane closures shall be subject to the approval of the Project Manager. 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 Manager. 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 Manager 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 630.10 (a) (12) 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.

Subsection 630.17 is hereby deleted and replaced with the following:

The Contractor shall furnish all other personnel – including flaggers, traffic control inspector, and traffic control supervisor - and other materials necessary to perform the Construction Zone Traffic Control as required and these quantities will not be measured but will be included in the cost of Traffic Control Management.

Temporary pavement markings for traffic control will not be measured and paid for separately, but shall be included in the work.

Subsection 630.18 shall be deleted and replace with the following:

All costs incidental to maintenance of access will not be paid for separately, but shall be included in the work.

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

Pay Item	Pay Unit
Traffic Control	Lump Sum (LS)

ALLOWANCE ITEMS
DESCRIPTION

This Special Provision contains the City and County of Denver's estimate for Allowance Items included in the Contract. The estimated amounts will be added to the total bid to determine the amount of the performance and payment bonds. Allowance work shall be performed as directed by the

Engineer and depicted elsewhere in these specifications.

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.

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.

Item Number	Allowance Items	Quantity	Estimated Amount
A/W 01	Landscape Restoration	1	$5,000
A/W 02	Erosion Control	1	$5,000

Allowance descriptions include:

A/W 01 Landscape Restoration– Disturbance of existing landscaping shall be minimized wherever possible. The Contractor shall notify the Engineer or Project Manager of any potential disturbance before beginning of work. The Engineer or Project Manager shall concur with the disturbance prior to the work. Landscape restoration shall consist of the repair and/or replacement of all landscape materials damaged through the actions of the Contractor or his agents, as concurred by the Engineer or Project Manager. This work may include but is not limited to sod, seeding, fencing, plantings, sprinkler systems and decorative features.

A/W 02 Erosion Control – This work consists of stormwater BMPs authorized and approved by the Engineer. This Allowance is to pay for all necessary work and materials for erosion control items not identified in the plans and at the Engineer's direction. Payment will be made based on time and materials used to perform the work. All items shall be pre-approved by the Engineer prior to installation or they will be at no cost to the project.

DENVER (ONLY) NOISE ORDINANCE PERMIT
VARIANCE APPLICATION TEMPLATE

This Special Provision contains the City and County of Denver's estimate for Allowance Items included in the Contract. The estimated amounts will be added to the total bid to determine the amount of the performance and payment bonds. Allowance work shall be performed as directed by the

Date
Subject: **Request for Variance to Noise Ordinance**
[location where work is to be performed]

Dear Ms. VanDerLoop,
· Name of company/organization seeking the variance
· What is being proposed, where it will occur, expected duration of project
· Brief history regarding proposed project
· Description of the community in the vicinity of the proposed project area

6 (a) Type and Timing of Claim:
· Specific description of proposed project (figures are helpful)
· Why does work need to be conducted at night? (CDOT can provide details to contractor)
· Are there limiting factors preventing this work from being conducted during the day? (CDOT can provide details to contractor)
· Requested variance duration; start and end dates
· Proposed work hours
· Types/categories of equipment being used for the project (if known, a detailed list should be provided as an appendix)
· Is this variance request contingent on other regulatory approvals/permits? (construction, demo, remediation)

6 (b) Date of Payment:
· [The Company's] date of payment is the date shown of this letter/request.

6 (c) Objections to Manager's Determinations:
· Specific items applicant may be in disagreement with concerning Department's recommendations or requirements

6 (d) (1) Hardship if Variance is Not Granted:
· Public safety concerns (CDOT can provide details to contractor)
· Logistical concerns
· Time constraints with a detailed explanation as to why they are necessary
· Cost considerations (specifics desirable)
· Document and evaluate possible alternatives

6 (d) (2) No Adverse Affects to Public Health:
- List expected noise levels to be generated (1) at the site where work is being performed, and (2) at the nearest sensitive receptor (CDOT can provide details to contractor from Roadway Construction Noise Model)
- Detail existing ambient sound levels (L90, Leq, Lmax) for the same areas (at least 1 night of pre-work monitoring; 9 p.m. to 7 a.m.; two nights (one weekday, one weekend) if work will occur on weekdays and weekends)
- How do the proposed levels compare with existing EPA or other guidance? (CDOT can provide details to contractor)
- Are there adverse health effects other than noise to be concerned with as a result of the proposed work? (CDOT can provide details to contractor)

DENVER (ONLY) NOISE ORDINANCE PERMIT
VARIANCE APPLICATION TEMPLATE

6(d) (3) Maintain Harmony with the Spirit and Purpose of the Ordinance:
(CDOT can provide details to contractor for sec 6(d) (3)

- Is the scope of work considerate of present and future community concerns?
- How does the scope of work seek to minimize impacts to the community?
- Have noise mitigation techniques been included and/or considered?
- Has a noise monitoring plan been considered or proposed?
- How will community outreach be conducted prior to the start of work?
- Has a community response plan been developed to deal with any future complaints? (contact name and number of on-site representative)

6 (e) Project Location and Haul Routes:

- Figures are preferable (CDOT can provide details to contractor)

6 (f) Petitioner Information
[Company Name and Address]
[Contact Person/Project Manager info]

6 (g) Petitioner's Signature
Sincerely,
[Name and Title]

Note: In addition to this template, CDOT can provide an example of a previously written (City and County of Denver) variance application at the contractor's request.

<u>The following field work summary of requirements will be the sole responsibility of the contractor for maintaining compliance with the Denver (only) Permit Variance agreements once granted by the Department of Environmental Health.</u>

1) **Construction Activity Allowable Noise Levels**: Unless the accommodations described in below are provided, construction noise levels shall not exceed:
    a. an hourly Leq of 75 dBA, or 5 dBA greater than an ambient hourly Leq measuring more than 75 dBa, or
    b. an Lmax of 86 dBA during the hours of 9:00 p.m. to 7:00 a.m. (Nighttime Hours)

2) **Hotel accommodations within eligibility zones**: (Contractor) shall make hotel accommodations available for persons residing within eligibility zones where Nighttime construction noise levels exceed allowable noise levels. The eligibility zone shall be determined by a sound study conducted by the (contractor) and approved by DEH prior to a seven-day notification period. During nighttime construction, (contractor) shall conduct noise monitoring to verify the sound study results and shall expand and may restrict the eligibility zone to the areas where the actual noise levels exceed an hourly Leq of 75 dB(A) or an Lmax of 86 dB(A). (Contractor) shall consider any special circumstances brought to their attention regarding individuals in the eligibility zone who cannot utilize hotel vouchers and who may be at risk during this period of time, e.g., residents of 24-hour health care facilities. (Contractor) shall make their best effort to accommodate the needs of such individuals during Construction Activity.

3) **Notifications**: Not less than seven days prior to commencement of construction during Nighttime Hours, (contractor) shall notify individual households located within a 1000 foot radius of the construction, as well as representatives of each affected Registered Neighborhood Organizations. Notice shall be in writing or by direct personal contact from (contractor) representative, and shall include the expected start time, expected duration, character of work activity planned, names and telephone numbers of available contact persons (for additional information or questions), contact numbers for complaints, and any other relevant parameters or programs. Households within the eligibility zone shall receive notice regarding their eligibility for hotel vouchers at the same time or earlier.

4) **Mitigation Requirements/Activity Restraints**: When construction is conducted during Nighttime Hours and such activity emits noise levels that exceed ambient noise levels at residential properties, (contractor) shall utilize best reasonable management practices to mitigate construction noise impacts to the adjacent property owners. Best reasonable management practices include the following:
    a. Using reasonable best efforts to complete the construction as quickly as possible.
    b. Minimizing nighttime construction duration near residential areas whenever possible.
    c. Re-routing of truck traffic away from residential streets when possible.
    d. Conducting truck loading, unloading and hauling operations so that noise levels are kept to a minimum
    e. Configuring equipment on the site to minimize back-up alarm noise, where practical and feasible (for example, by using circular movement of trucks).
    f. Shielding jackhammers, saws, and pavement breakers through use of an existing sound barrier wall or temporary barrier where practicable
    g. Maintaining all equipment to meet manufacturer's specifications.
    h. Informing employees, contractors and subcontractors performing construction of the general requirements of this variance and exercising best efforts to ensure that such employees, contractors and subcontractors follow best management practices in mitigating construction noise.

5) **Monitoring**: (Contractor) shall perform monitoring sufficient to demonstrate compliance with the requirements of the noise variance and to demonstrate to the community the noise levels that are present.
    a) Noise measurements shall be collected using ANSI guidelines for community noise monitoring
        i) Manufacturer's specifications for appropriate meter use shall be followed.
        ii) ii. All noise measurements shall be made using the A-weighted scale (dB(A)) and a slow response. Fast response measurements may be used to measure impact noise levels.
        iii) iii. Noise measurements shall be made at the nearest residential property line, unless physically impractical.
    b) All nighttime construction activity shall be initially monitored. Monitoring shall include spot measurements, as appropriate and hourly Leq. Monitoring shall be required for the following activity groups, but not be limited to:
        i) Joint Repair
        ii) ii. Milling Operations
        iii) Rubble load-out
        iv) Paving operations

c) Monitoring shall meet the following requirements:
    i) Each construction activity shall be monitored a minimum of two days for Lmax and hourly Leq levels to establish an activity baseline for each activity when initially undertaken, and to establish the expected worst case situation (outside lane).
    ii) Noise monitoring shall be provided in response to all noise complaints.
    (i) All noise monitoring data and documentation shall be provided to DEH at least weekly when applicable, and such data shall be available to the public from DEH. DEH and their designated representatives may inspect collected data more frequently.

d) The following documentation, in a manner and form mutually agreed upon by City/County of Denver, (contractor) and DEH, shall be provided for noise monitoring that is conducted:
    (i) Manufacturer names, model numbers, and serial numbers of each SLM and acoustical calibrator used.
    (ii) Software manufacturer, program and version.
    (iii) Dates of annual certified calibration of SLM, microphone and acoustical calibrator.
    (iv) Pre- and post- monitoring calibration data for the Sound Level Meter.
    (v) Date and specific location (address if appropriate) of monitoring.
    (vi) Start time and end time of monitoring
    (vii) Ambient weather conditions including temperature, relative humidity, wind speed and cloud cover.
    (viii) Signature of technician collecting the data
    (ix) List of each hourly Leq for the monitoring period, with associated Lmax levels.
    (x) All measurements associated with any unusual noise events that occurred, cause of such event if known, correction of such event (if any), and adjusted and unadjusted measurements.

6) **Complaint Notification and Response**: (Contractor) shall ensure that methods are available to receive, address, and respond to concerns raised by people in the community, through:
    a) Assuring that a field representative is available to respond to complaints regarding construction noise levels and provide monitoring. The field representative shall be empowered to shut down construction activity, authorize correction or remediation of sources of excess noise, and authorize resumption of construction activity as necessary to maintain compliance with allowable noise levels.
    b) Providing telephone access to a field representative during hours of project activities to receive complaints or comments from the public for the duration of the project. All complaints immediately shall be recorded, investigated and addressed as appropriate by the field representative and reported to DEH in a manner mutually agreed by DEH, City/County of Denver and (contractor) . A response, in a reasonable form requested by the caller, summarizing the investigation and any corrective actions taken by City/County of Denver and (contractor) shall be provided to the caller. Written copies of complaints received and responses by (contractor) shall be provided weekly to DEH and CDOT.

All application requirements and chapter 36 ordinance requirements regarding night time construction noise activities must be coordinated by the contractor with the City/County Denver. The contractor is fully responsible for the timely submittal of the variance application and fulfilling the requirements set forth by the City/County of Denver to allow construction activities during p.m. hours under the granted variance.

UTILITIES

Known and potential utilities within the limits of this project are:

Utility Company Address	Contact Name Email	Telephone
CenturyLink/Lumen 7759 S. Wheeling Ct. Englewood, CO 80112	Robert Davis relocations@lumen.com	800-526-3557
Denver Department of Transportation and Infrastructure - Wastewater Management 2000 West 3rd Ave. Denver, CO 80223	Public Works Permit Operations pwpermits@denvergov.org	303-446-3469
Denver Department of Transportation and Infrastructure - Transportation Services 201 Colfax Ave Denver, CO 80202	Public Works Permit Operations pwpermits@denvergov.org	303-446-3469
Denver Water Department 1600 West 12th Ave. Denver, CO 80204	Paul Peloquin Paul.Peloquin@denverwater.org	720-808-3618
MCI-Verizon 10000 Park Meadows Drive Lone Tree, CO 80124	Lane Grady lane.grady@verizon.com	303-827-9756
Xcel Energy - Builder's Call Line	bclco@xcelenergy.com	800-628-2121
Xcel Energy - Electric/Gas Distribution 1123 W. 3rd Ave Denver, CO 80223	Marissa Montoya marissa.l.montoya@xcelenergy.com	303-571-3720

Refer to Title 7 of the City and County of Denver General Contract Conditions.

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

In no way shall the contents of this utility specification contradict the Wastewater Capital Projects Management Standard Construction Specification. Any discrepancies identified by the Contractor shall be brought to the attention of the Project Engineer for clarification and resolution.

PART 1 - CONTRACTOR SHALL PERFORM THE WORK LISTED BELOW:

In accordance with the plans and specifications and as directed by the Engineer, the Contractor shall keep the utility company(s) advised of any work being done near their facility so that the utility company(s) can coordinate their inspections prior to the Contractor beginning work near these facilities.

The Contractor shall call for locates prior to commencing construction and identify any potential conflicts with existing buried utility facilities with the proposed construction, as shown on the plans or by field location markings. The Contractor shall coordinate with the Engineer to resolve any potential utility conflicts.
The Contractor shall coordinate project construction with the performance by the utility owner of each utility work element listed in Part 2 below.

Provide an accurate construction schedule to the owner of each utility within the project area. Provide each utility owner with periodic updates to the schedule. Conduct necessary utility coordination meetings, and provide other

necessary accommodations as directed by the Engineer. Notify each utility owner in writing, with a copy to the Engineer, prior to the time of work near each utility.

All Utility Companies

The Contractor will contact each utility company a minimum of 2 business days, unless otherwise noted, prior to working in the vicinity of the utility company's facilities so that the utility company can provide an inspector as necessary.

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.

Century Link/Lumen

The Contractor shall protect in place all CenturyLink facilities. If a conflict with the proposed improvements exists, the Contractor shall coordinate with the Engineer to modify the proposed construction plans to avoid impacting existing CenturyLink facilities. The Contractor shall coordinate with the Engineer for approval of any construction plan modifications.

Timing: The Contractor shall notify CenturyLink one week in advance of any construction operations commencing near CenturyLink facilities.

Denver Department of Transportation & Infrastructure – Wastewater Management and Transportation Services

The Contractor shall maintain access to existing sanitary manholes and traffic pull boxes at all times during construction. The Contractor shall contact the permit department prior to starting work to identify any possible conflicts with Department of Transportation & Infrastructure assets.

Timing: The Contractor shall notify the DOTI one week in advance of construction operations commencing near City facilities. The Contractor shall provide the utility owner written notice 5 days immediately prior to required inspections.

Denver Water

The Contractor shall maintain access to existing water manholes at all times during construction.

The Contractor shall protect in place all Denver Water facilities. If a conflict with the proposed improvements exists, the Contractor shall coordinate with the Engineer to modify the proposed construction plans to avoid impacting existing Denver Water facilities. The Contractor shall coordinate with the Engineer for approval of any construction plan modifications.

Timing: The Contractor shall notify Denver Water one week in advance of construction operations commencing near City facilities. The Contractor shall provide the utility owner written notice 5 days immediately prior to any required inspections.

Level 3 Communications

The Contractor shall protect in place all Level3 facilities. If a conflict with the proposed improvements exists, the Contractor shall coordinate with the Engineer to modify the proposed construction plans to avoid impacting existing Level3 facilities. The Contractor shall coordinate with the Engineer for approval of any construction plan modifications.

Timing: The Contractor shall notify Level3 one week in advance of any construction operations commencing near Level3 facilities.

MCI-Verizon

The Contractor shall protect in place all MCI-Verizon facilities. If a conflict with the proposed improvements exists, the Contractor shall coordinate with the Engineer to modify the proposed construction plans to avoid impacting existing MCI-Verizon facilities. The Contractor shall coordinate with the Engineer for approval of any construction plan modifications.

Timing: The Contractor shall notify MCI-Verizon one week in advance of any construction operations commencing near MCI-Verizon facilities.

Xcel Energy – Electric and Gas Distribution

The Contractor shall coordinate any Xcel utility relocations with the city through Terri Goodwin by calling 720-913-1764 or by email terri.goodwin@denvergov.org.

The Contractor shall call the Builder's Call Line 90 days prior to construction at 1-800-628-2121.

The Contractor shall protect in place all Xcel Energy electric and gas facilities. If a conflict with the proposed improvements exists, the Contractor shall coordinate with the Engineer to modify the proposed construction plans to avoid impacting existing Xcel Energy electric and gas facilities. The Contractor shall coordinate with the Engineer for approval of any construction plan modifications.

Timing: The Contractor shall notify Xcel Energy one week in advance of any construction operations commencing near Xcel Energy electric and gas facilities.

PART 2—UTILITY OWNERS SHALL PERFORM THE WORK LISTED BELOW:

Utility owners are not expected to make any adjustments to their facilities, but shall be notified when construction work is occurring close to their facilities

CenturyLink

The Contractor shall notify CenturyLink one week in advance of any construction operations commencing near CenturyLink facilities.

Denver Department of Transportation & Infrastructure –Wastewater Management

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 Department of Transportation & Infrastructure – Transportation Services

Denver Transportation Services 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

Denver Water 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.

Level3 Communications

The Contractor shall notify Level3 one week in advance of any construction operations commencing near Level3 facilities.

MCI-Verizon

The Contractor shall notify MCI-Verizon one week in advance of any construction operations commencing near MCI-Verizon facilities.

Xcel Energy – Electric and Gas Distribution

The Contractor shall notify Xcel Energy one week in advance of any construction operations commencing near Xcel Energy electric and gas facilities.

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 UNCC at phone no. **811** or **1-800-922-1987**, to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective owner. Utility service laterals shall also be located prior to beginning excavation or grading.

The locations of utility facilities as shown on the plan and profile sheets were obtained from the best available information. No warranty is made for the adequacy or accuracy of subsurface information provided. The Contractor shall cooperate with the utility owners in their relocation operations.

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