

MEMORANDUM

Region II – Design
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COLORADO
Department of
Transportation

Construction Project

FSA 0503-081

Proj. Code: 19751

DATE: November 20, 2014

TO: All Holders of Plans for Project FSA 0503-081

SUBJECT: Revision No. 1 (to be acknowledged in all Bid Proposals)

Bid Proposal:

Revised Schedule – Prospective bidders not using EBS must submit their bids on the revised schedule dated 11/20/14 or the bid will be rejected. For EBS use the Amendment posted on the CDOT web site.

Project Special Provisions:

Page 1a – 2a: Revised Index

Page 18a: Deleted Revision of Section 201 – Clearing and Grubbing – Protection of Prairie Dogs

Pages 42a – 44a: Revised Revision of Section 240 – Protection of Migratory Birds Biological Work Performed by a CDOT Biologist

Pages 118a – 119a: Revised Force Account Items

Pages 126a – 1276a: Added Revision of Section 240 – Black Tailed Prairie Dog Management (Western Burrowing Owl)

Standard Special Provisions:

No revision Standard Special Provisions

Project Plan Sheets:

Sheet 1a – Revised Index of Sheets

Sheet 12a – Deleted Item 240-00100 – Prairie Dog Management

Sheet 16a – Revised quantity for item 630-80363 – Drum Channelizing Device (With Light) (Flashing)

Sheet 17a – Added items; 700-70035 – Prairie Dog Management (Burrowing Owl) and 700-70060 – Adjust Utility

Sheet 181a – Revised Notes 1 and 15

Sheet 182a – Deleted item 240-00100 – Prairie Dog Management

Sheet 237a – Revised quantity for item 630-80363 – Drum Channelizing Device (With Light) (Flashing)

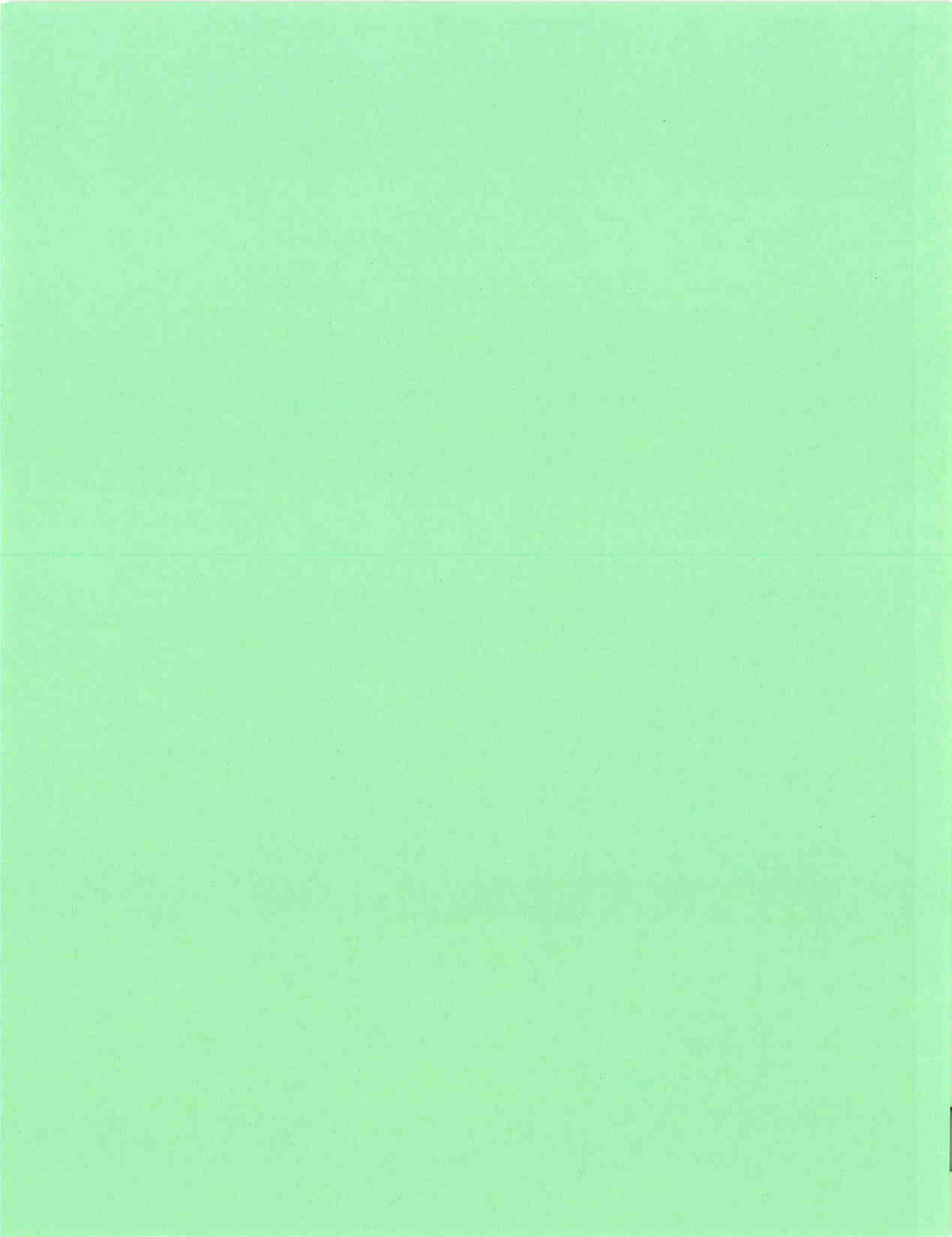
It is requested that you substitute the enclosed revisions in your copy of the plan documents and destroy those sheets superseded by this transmittal.

The Department will open bids for this project on December 4, 2014.

This revision is authorized by Dan T. Dahlke, Region 2 Resident Engineer.

Enclosure

cc: Duran / Stiller, Printing Center
M. Pyle, Bid Plans
G. Martinez, Business Programs
M. Gray, Constr. Contracts
G. Demos, Cost Estimating
Central Files
Hu, R-2 South Program Engineer
Dahlke, R-2 Resident Engineer
Phillips / Garcia, R2 South Program Design
Sandoval, Project Engineer



**COLORADO
DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISIONS
US 50 - McCulloch Blvd to Wills Blvd**

The 2011 Standard Specifications for Road and Bridge Construction controls construction of this project. The following special provisions supplement or modify the Standard Specifications and take precedence over the Standard Specifications and plans.

PROJECT SPECIAL PROVISIONS

	Page
Index to Project Special Provisions	(November 20, 2014) 1a-2a
Index to Standard Special Provisions	(November 06, 2014) 3-4
Notice to Bidders	(November 06, 2014) 5
Commencement and Completion of Work	(November 06, 2014) 6-7
Contract Goal (Combined)	(November 06, 2014) 8
OJT Contract Goal	(November 06, 2014) 9
Revision of Section 102 – Project Plans and Other Data	(November 06, 2014) 10
Revision of Sections 105 – Contractor Submittals	(November 06, 2014) 11
Revision of Sections 105, 106, And 203 – Conformity to the Contract of Embankment	(November 06, 2014) 12-13
Revision of Section 107 – Safety Critical Work	(November 06, 2014) 14-15
Revision of Section 107 – Legal Relations and Responsibility to Public	(November 06, 2014) 16
Revision of Section 108 – Prosecution and Progress	(November 06, 2014) 17
Revision of Section 201 – Clearing and Grubbing – Protection of Prairie Dogs	(November 06, 2014) 18
Revision of Section 202 – Removal of Structures and Obstructions	(November 06, 2014) 19
Revision of Section 202 – Removal and Trimming Trees	(November 06, 2014) 20-21
Revision of Section 202 – Removal Asphalt Mat (Planing)	(November 06, 2014) 22-24
Revision of Section 202 – Removal of Mat from Bridge	(November 06, 2014) 25
Revision of Section 202 – Removal of Portions of Present Structure	(November 06, 2014) 26-27
Revision of Section 203 – Excavation and Embankment Materials	(November 06, 2014) 28-29
Revision of Section 206 – Excavation and Backfill for Structures	(November 06, 2014) 30
Revision of Section 206 – Shoring	(November 06, 2014) 31
Revision of Section 207 – Topsoil	(November 06, 2014) 32
Revision of Section 208 – Permanent BMP as Constructed Survey	(November 06, 2014) 33
Revision of Section 209 – Watering and Dust Palliatives	(November 06, 2014) 34
Revision of Section 210 – Reset Microwave Vehicle Radar Detector	(November 06, 2014) 35-37
Revision of Section 210 – Relay Riprap	(November 06, 2014) 38
Revision of Section 217 – Herbicide Treatment	(November 06, 2014) 39-41
Revision of Section 240 – Protection of Migratory Birds	
Biological Work Performed by a CDOT Biologist	(November 20, 2014) 42a-44a
Revision of Section 304 – Aggregate Base Course	(November 06, 2014) 45
Revision of Section 401 – Hot Mix Asphalt Compaction (Pneumatic Tire Rollers)	(November 06, 2014) 46
Revision of Section 403 – Hot Mix Asphalt	(November 06, 2014) 47-49
Revision of Section 403 – Hot Mix Asphalt Ticket Collection	(November 06, 2014) 50
Revision of Section 506 – Soil Riprap	(November 06, 2014) 51
Revision of Section 514 – Pedestrian Railing (Steel) (Special)	(November 06, 2014) 52-53
Revision of Section 522 – Duplex Coating System	(November 06, 2014) 54-59
Revision of Section 603 – Storm Sewer Pipe	(November 06, 2014) 60-61
Revision of Section 603 – Reinforced Concrete Pipe	(November 06, 2014) 62
Revision of Section 604 – Manholes and Inlets	(November 06, 2014) 63

PROJECT PECIAL PROVISIONS

	Page
Revision of Section 606 – Guardrail	(November 06, 2014) 64
Revision of Section 606 – Bridge Rail Type 10 (Special)	(November 06, 2014) 65
Revision of Section 608 – Detectable Warnings	(November 06, 2014) 66-67
Revision of Section 613 – Wiring	(November 06, 2014) 68
Revision of Section 613 and 715 – Electrical Conduit & Pull Boxes	(November 06, 2014) 69-72
Revision of Section 614 – Variable Message Sign (Led) (Overhead)	(November 06, 2014) 73-85
Revision of Section 614 – Intersection Detection System (Camera Reset)	(November 06, 2014) 86-87
Revision of Section 614 – Traffic Signal Controller – Operations	(November 06, 2014) 88
Revision of Section 614 – Fiber Optic Cable (Single Mode)	(November 06, 2014) 89-95
Revision of Section 620 – Field Facilities	(November 06, 2014) 96-99
Revision of Section 621 – Detour Pavement	(November 06, 2014) 100-101
Revision of Section 625 – Construction Surveying	(November 06, 2014) 102
Revision of Section 626 – Public Information Services	(November 06, 2014) 103-105
Revision of Section 627 & 713 – Epoxy Pavement Marking (Special)	(November 06, 2014) 106-108
Revision of Section 627 & 713 – Performed Thermoplastic Pavement Marking	(November 06, 2014) 109-110
Revision of Section 630 – Impact Attenuators (Temporary)	(November 06, 2014) 111-112
Revision of Section 630 – Portable Message Sign Panel	(November 06, 2014) 113-114
Revision of Section 703 – Aggregates	(November 06, 2014) 115
Revision of Section 715 – Lighting and Electrical materials	(November 06, 2014) 116-117
Force Account Items	(November 20, 2014) 118a-119a
Traffic Control Plan – General	(November 06, 2014) 120-122
Utilities	(November 06, 2014) 123-125
Revision of Section 240 – Black Tailed Prairie Dog Management (Western Burrowing Owl)	(November 20, 2014) 126a-127a

**REVISION OF SECTION 108
PROSECUTION AND PROGRESS**

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

Subsection 108.08 shall include the following:

The Contractor shall establish daily working hours, Monday through Friday during daylight hours, for the project and submit them to the Engineer for approval along with his Progress Schedule; all work performed by the Contractor or any of the Contractor's agents during a working day shall be accomplished within these pre-established working hours. Neither the Contractor nor any of the Contractor's agents shall work during times outside of the daily working hours without written approval by the Engineer. Requests for changes in working hours shall be submitted to the Engineer in writing at least 48 hours before the proposed change in working hours would take effect. Working hours outside of these times will not be allowed unless it is necessary due to weather restrictions or to comply with safety requirements or as specified by the plans and specifications by the plans and specifications and approved by the Engineer.



-3-
**REVISION OF SECTION 217
HERBICIDE TREATMENT**

Pre-treat all noxious weed populations in areas where disturbance is planned. Imported topsoil will be minimized during construction, and if necessary pre-treated with herbicides. Noxious weeds observed in and near the construction area at the start of construction will be treated with herbicides or physically removed to prevent seeds blowing into disturbed areas during construction.

All plant and mulch materials used on the site must be inspected and regulated by the Weed Free Forage Act, Title 35, Article 27.5 Colorado Revised Statutes (CRS). Certified weed-free mulch will be used for reclamation, and all seed mixes and nursery materials used for reclamation will be free of noxious weed seeds, roots, and rhizomes. All mulches, erosion bales, and erosion logs used at the site will be certified weed-free.

During construction and reclamation/reseeding all areas disturbed by construction and adjacent undisturbed vegetation should be monitored for noxious weeds in the spring, mid-summer, and fall, or as long as construction activities are active. Monitoring personnel should be familiar with identification of the noxious weed species and native species that may resemble them.

All weed control actions should be recorded, including the date, personnel, methods used, areas of application, and result of any follow-up surveys with noxious weed monitoring results also recorded and kept on file.

Saltcedar/Tamarisk - For saltcedar/tamarisk, herbicide shall be applied while the plant is actively growing and translocating nutrients, preferably after the plant has bloomed and prior to dormancy. Herbicide shall not be applied in the spring, under any circumstance. All saltcedar/tamarisk on the project shall be treated at the beginning of the project. Any saltcedar/tamarisk that has survived or re-sprouted 3 months after treatment shall be sprayed again. Sprouts shall be 4-8' in length prior to application. To insure all stumps or stems are covered with herbicide, an oil-soluble dye shall be added to the chemical mixture, which allows the applicator to see the amount of coverage.

Basal bark application:

Garlon 4: Mix Garlon 4 at 25% volume/volume (v/v) +75% volume/volume oil carrier. Use a hand-held spray bottle or backpack sprayer with a low volume solid cone or flat fan nozzle to apply the mixture to the lower 12-15" of the stems. Spray to completely wet the entire circumference of the stem, but not to the point of run-off.

BASIS OF PAYMENT

Subsection 217.03 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Noxious Weed Management	Square Yard

Clearing and grubbing will be measured and paid for in accordance with Section 201. Mowing will not be measured and paid for separately, but shall be included in the work.

**REVISION OF SECTION 240
PROTECTION OF MIGRATORY BIRDS
BIOLOGICAL WORK PERFORMED BY A CDOT BIOLOGIST**

Section 240 is hereby revised to include the following:

The Contractor is advised that migratory birds and nests were identified at the Wild Horse Dry Creek bridge and within the project area in a survey done in the summer of 2013 (June and July), as identified on the environmental plan sheets. ~~Western Burrowing Owls could also be present in Prairie Dog Colonies.~~

DESCRIPTION

240.01 This work consists of protecting migratory birds during construction.

MATERIALS AND CONSTRUCTION REQUIREMENTS

240.02 The Contractor shall schedule clearing and grubbing operations and work on structures to avoid taking (pursue, hunt, take, capture or kill; attempt to take, capture, kill or possess) migratory birds protected by the Migratory Bird Treaty Act (MBTA).

(a) *Vegetation Removal.* When possible, vegetation shall be cleared prior to the time active nests are present. Vegetation removal activities shall be timed to avoid the migratory bird breeding season which begins on April 1 and runs to August 31. All areas scheduled for clearing and grubbing between April 1 and August 31 shall first be surveyed within the work limits by a CDOT biologist for active migratory bird nests. The CDOT biologist will also survey for active migratory bird nests within 50 feet outside of the work limits. Project personnel shall enter areas outside CDOT right of way only if a Form 730, *Permission to Enter Property*, has been signed by the property owner. The Contractor shall avoid all active migratory bird nests. The Contractor shall avoid the area within 50 feet of the active nests or the area within the distance recommended by the biologist until all nests within that area have become inactive. Inactive nest removal and other necessary measures shall be incorporated into the work as follows:

1. *Tree and Shrub Removal or Trimming.* Tree and shrub removal or trimming shall occur before April 1 or after August 31 if possible. If tree and shrub removal or trimming will occur between April 1 and August 31, a survey for active nests will be conducted by the CDOT biologist within the seven days immediately prior to the beginning of work in each area or phase of tree and shrub removal or trimming. The Contractor shall notify the Engineer at least ten working days in advance of the need for the CDOT biologist to perform the survey.

If an active nest containing eggs or young birds is found, the tree or shrub containing the active nest shall remain undisturbed and protected until the nest becomes inactive. The nest shall be protected by placing fence (plastic) a minimum distance of 50 feet from each nest to be undisturbed. This buffer dimension may be changed if determined appropriate by the CDOT biologist and approved by the Engineer. Work shall not proceed within the fenced buffer area until the young have fledged or the nests have become inactive.

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

2. *Grasses and Other Vegetation Management.* Due to the potential for encountering ground nesting birds' habitat, if work occurs between April 1 and August 31, the area shall be surveyed by the CDOT biologist within the seven days immediately prior to ground disturbing activities. The Contractor shall notify the Engineer at least ten working days in advance of the need for the CDOT biologist to perform the survey.

-2-

**REVISION OF SECTION 240
PROTECTION OF MIGRATORY BIRDS
BIOLOGICAL WORK PERFORMED BY A CDOT BIOLOGIST**

The undisturbed ground cover to 50 feet beyond the planned disturbance, or to the right of way line, whichever is less, shall be maintained at a height of 6 inches or less beginning April 1 and continuing until August 31 or until the end of ground disturbance work, whichever comes first.

If birds establish a nest within the survey area, an appropriate buffer of 50 feet will be established around the nest by the CDOT biologist. This buffer dimension may be changed if determined appropriate by the CDOT biologist and approved by the Engineer. The Contractor shall install fence (plastic) at the perimeter of the buffer. Work shall not proceed within the buffer until the young have fledged or the nests have become inactive.

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

(b) *Work on structures.* The Contractor shall prosecute work on structures in a manner that does not result in a taking of migratory birds protected by the Migratory Bird Treaty Act (MBTA). The Contractor shall not prosecute the work on structures during the primary breeding season, April 1 through August 31, unless he takes the following actions:

- (1) The Contractor shall remove existing nests prior to April 1. If the Contract is not awarded prior to April 1 and CDOT has removed existing nests, then the monitoring of nest building shall become the Contractor's responsibility upon the Notice to Proceed.
- (2) During the time that the birds are trying to build or occupy their nests, between April 1 and August 31, the Contractor shall monitor the structures at least once every three days for any nesting activity.
- (3) If birds have started to build any nests, the nests shall be removed before they are completed. Water shall not be used to remove the nests if nests are located within 50 feet of any surface waters.
- (4) Installation of netting may be used to prevent nest building. The netting shall be monitored and repaired or replaced as needed. Netting shall consist of a mesh with openings that are $\frac{3}{4}$ inch by $\frac{3}{4}$ inch or less.

If an active nest becomes established, i.e., there are eggs or young in the nest, all work that could result in abandonment or destruction of the nest shall be avoided until the young have fledged or the nest is unoccupied as determined by the CDOT Biologist and approved by the Engineer. The Contractor shall prevent construction activity from displacing birds after they have laid their eggs and before the young have fledged.

If the project continues into the following spring, this cycle shall be repeated. When work on the structure is complete, the Contractor shall remove and properly dispose of netting used on the structure.

(c) ~~Work in/adjacent to prairie dog colonies. Prairie dog colonies are known to occur in or adjacent to CDOT ROW within the project area, as shown on the Environmental Plan Sheets. Western burrowing owls occupy prairie dog colonies. Therefore any work occurring within these limits during the nesting season (March 15—October 31) will require a burrowing owl survey prior to work commencing. A minimum of 10 business days prior to any work in areas with Prairie Dog colonies, the Contractor shall request, through the CDOT Project Engineer, that a Western Burrowing Owl Survey be performed by a qualified biologist. If prairie construction activities are initiated during the nesting season for burrowing owls (March 15 to October 31), a burrowing owl survey is required. If burrowing owls are identified, the qualified biologist shall assist the Contractor in locating and installing safety barrier fencing (silt fencing) within 150 feet of the work zone to protect active~~

-3-

**REVISION OF SECTION 240
PROTECTION OF MIGRATORY BIRDS
BIOLOGICAL WORK PERFORMED BY A CDOT BIOLOGIST**

~~burrows from construction activities during the nesting season (March 15—October 31). Work shall not proceed within the 150-foot buffer until the young have fledged or the nests have become inactive.~~

(d) Taking of a Migratory Bird. The taking of a migratory bird shall be reported to the Engineer. The Contractor shall be responsible for all penalties levied by the U. S. Fish and Wildlife Service (USFWS) for the taking of a migratory bird.

METHOD OF MEASUREMENT

~~240.03 Removal of nests (excludes Western Burrowing Owls work) will be measured by the actual number of man-hours spent removing inactive nests just prior to and during the breeding season, April 1 through August 31. During this period, the Contractor shall submit to the Engineer each week for approval a list of the workers who removed nests and the number of hours each one spent removing nests.~~

Netting will be measured by the square yard of material placed to keep birds from nesting on the structure. Square yards will be calculated using the length of netting measured where it is attached to the ground and the average height of the netting where it is attached to the structure

BASIS OF PAYMENT

240.04 The accepted quantities measured as provided above will be paid for at the contract unit price for each of the pay items listed below that appear in the bid schedule.

Payment will be made under:

Pay Item	Pay Unit
Removal of Nests	Hour
Netting	Square Yard

Payment for Removal of Nests will be full compensation for all work and material required to complete the work.

Payment for netting will be full compensation for all work and material required to complete the item. Overlaps of netting will not be measured and paid for separately, but shall be included in the work. Maintenance and replacement, removal, and disposal of netting will not be measured and paid for separately, but shall be included in the work.

Clearing and grubbing will be measured and paid for in accordance with Section 201. Mowing will not be measured and paid for separately, but shall be included in the work.

Removal and trimming of trees will be measured and paid for in accordance with Section 202.

Fence (Plastic) will be measured and paid for in accordance with Section 607.

-2-

**REVISION OF SECTION 715
LIGHTING AND ELECTRICAL MATERIALS**

Section 715.05 Ballasts, LED Drivers, and Induction Lamp Power Generators shall be amended to include the following:

LED power supplies: LED power supplies shall have an input voltage of 240VAC/60Hz and the output voltage shall be per LED manufacturer's specifications. The output voltage shall be regulated automatically and continuously by an integral electronic voltage regulator to maintain the LED voltage within a tolerance of +/- 5%. The output current shall be regulated automatically and continuously by an integral electronic current regulator to maintain the current within a tolerance of +/- 5%. All electronics of the power supply and the LEDs shall be protected from all electrical surges, including but not limited to lightning strikes and stray current in rebar and concrete. Surge protection shall be integral to the LED power supply.

FORCE ACCOUNT ITEMS

DESCRIPTION

This special provision contains the Department's estimate for force account items included in the Contract. The estimated amounts marked with an asterisk will be added to the total bid to determine the amount of the performance and payment bonds. Force Account work shall be performed as directed by the 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>Estimated Quantity</u>	<u>Amount</u>
F/A 01 Minor Contract Revisions	F.A.	\$ 269,600*
F/A 02 Partnering	F.A.	\$ 10,000
F/A 03 Asphalt Pavement Incentive	F.A.	\$ 85,000
F/A 04 Fuel-cost Adjustment	F.A.	\$ 70,000
F/A 05 Roadway Smoothness Incentive	F.A.	\$ 45,000
F/A 06 Asphalt Cement Cost Adjustment	F.A.	\$ 87,000
F/A 07 OJT Colorado Training Program	Hour	1,920
F/A 08 Interim Surface Repair	F.A.	\$ 1,000
F/A 09 Furnish and Install Electric Service	F.A.	\$ 5,000
F/A 10 Erosion Control	F.A.	\$ 7,500
F/A 11 DRB Standing Committee	F.A.	\$ 5,000
F/A 12 Removal of Asbestos and	F.A.	\$ 15,000
F/A 13 Adjust Utility	F.A.	\$ 5,000
F/A 14 Prairie Dog Management (Burrowing Owl)	F.A.	\$ 5,000

*To be included in the bond amount

F/A 01 Minor Contract Revision

This work consists of minor work authorized and approved by the Engineer which is not included in the contract drawings or specifications and which is necessary to accomplish the scope of the work on this contract.

F/A 02 Partnering

This work consists of Partnering activities as described in the Standard Special Provision titled "Partnering Program."

F/A 03 Asphalt Pavement Incentive

Asphalt Incentive Payments will be made in accordance with the Standard Specification Section 105.05 Conformity to the Contract of Hot Mix Asphalt.

F/A 04 Fuel Cost Adjustment

This force account item makes adjustments to pay items for changes in fuel costs in accordance with the Standard Special Provision "Revision of Section 109 – Fuel Cost Adjustment."

-2-

FORCE ACCOUNT ITEMS

F/A 05 Roadway Smoothness Incentive

Roadway Smoothness incentive payments will be made in accordance with the Standard Specification 105.07 Conformity to Roadway Smoothness Criteria of HMA.

F/A 06 Asphalt Cement Cost Adjustment

Contract cost adjustments will be made to reflect increases or decreases in the monthly average price of asphalt cement from the average price for the month proceeding the month in which bids were received for the Contract. These cost adjustments are not a change to the contract unit prices bid.

F/A 07 OJT Colorado Training Program

This work includes the cost of maintaining the on-the-job training program in compliance with the Standard Special Provision "On the Job Training."

F/A 08 Interim Surface Repair

F/A 09 Furnish and Install Electric Service

This work consists of furnishing and installing electric service to traffic signals and the roundabout lighting controller.

F/A 10 Erosion Control

This force account item will be utilized at the Engineer's discretion to protect existing facilities and prevent erosion from impacting areas outside of the right-of-way.

F/A 11 DRB Standing Committee

This force account item is used to reimburse the Contractor for CDOT's portion of Dispute Review Board Costs in accordance with the Standard Special Provision "Revision of Section 105 – Disputes and Claims for Contract Adjustments."

F/A 12 Removal of Asbestos and Lead Based Paint

Structure K-18-CW may contain either asbestos and/or lead based materials, and shall be handled as per Section 250 of the Standard Specifications. This force account item is to reimburse the Contractor for work associated these materials.

F/A 13 Adjust Utility

This work consists of the adjustment (relocation) of the fiber optic line as necessary on page 41 of the plans.

F/A 14 Prairie Dog Management (Burrow Owl)

This work consists of protection of the Black Tail Prairie Dog and Burrowing Owls in accordance to Revision of Section 240 – Black Tailed Prairie Dog Management (Western Burrowing Owl).

TRAFFIC CONTROL PLAN – GENERAL

The key elements of the Contractor's method of handling traffic (MHT) are outlined in subsection 630.09.

The components of the TCP for this project are included in the following:

- (1) Subsection 104.04 and Section 630 of the Standard Specifications.
- (2) Schedule of Construction Traffic Control Devices.
- (3) Latest revised Standard Plan S-630-1 (02/27/2013), Traffic Controls for Highway Construction and Standard Plan S-630_2
- (4) Construction Traffic Control and Phasing Plans, included in Plans

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

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

1. During the construction of this project, traffic shall use the present or reconstructed traveled roadway.
2. The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time, unless directed to do so.
3. During construction, only one lane may be closed to traffic at any time in either direction. Traffic shall not be delayed for more than 10 minutes or as directed by the Engineer.
4. The schedule for traffic control signing and devices are totaled to allow the Contractor to work at two locations at one time for a maximum length of one half mile per location.
5. Advance notice of the construction shall be provided to the traveling public. The VMS shall be set up a minimum of one week in advance of the beginning of construction.
6. Prior to starting construction, the Contractor shall notify the CDOT R2 Traffic Engineer, Local Jurisdiction traffic engineer, State Patrol, City of Pueblo, Pueblo West Metro District and Pueblo County, and the local media of the date the Contractor intends to start construction and the expected duration of Construction activities.
7. The Contractor shall coordinate all work with major sporting events and graduation ceremonies through the University and special events through the City of Pueblo.
8. Traffic control devices shall not be stored on the shoulder or slopes of any roadway except behind guardrail unless laid flat outside of the approved clear zone; nor shall traffic control devices be stored in any landscaped area unless otherwise designated or permitted.
9. The Contractor may propose an alternative method of maintaining traffic for the project. Alternative proposals shall be submitted in writing to the Engineer for consideration. Written approval from the Engineer shall be obtained prior to beginning any work using the proposed alternative.
10. The Contractor shall perform work Monday thru Friday, 7 am to 7 pm, unless otherwise approved by the Engineer. If any night work is approved by the Engineer, all costs associated with this work, including but not limited to, lighting for the work, lighting for flagging stations, additional Traffic Control Supervisor, etc., shall not be paid for separately but shall be included in the cost of the work.

-3-
UTILITIES

least two (2) business days, not including the day of notification, prior to commencing such operations. The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at (8-1-1) or 1-800-922-1987 to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective company. Utility service laterals shall also be located prior to beginning excavating or grading.

The location of utility facilities as shown on the plan and profile sheets, and herein described, were obtained from the best available information.

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

**REVISION OF SECTION 240
BLACK-TAILED PRAIRIE DOG MANAGEMENT (WESTERN BURROWING OWL)**

Section 240 of the Standard Specification is hereby added for this project as follows:

DESCRIPTION

Subsection 240.01 shall include the following: This work shall consist of protecting Black-tailed Prairie Dogs. The Contractor shall coordinate clearing and grubbing operations to avoid impacts to the Black-tailed Prairie Dog.

MATERIALS

240.02 The Contractor shall furnish all material and equipment of sufficient type and size to complete the BTPD management.

CONSTRUCTION REQUIREMENTS

Subsection 240.03 shall include the following:

Prairie dog colonies are known to occur on or adjacent to CDOT ROW within the project area, as shown on the Environmental Plan Sheets. A minimum of 10 business days prior to any work in areas with Prairie Dog colonies, the Contractor shall request, through the CDOT Project Engineer, that a Prairie Dog survey be performed by a qualified biologist. Should active Prairie Dog colonies be found, from approximately July 1 to March 15 (mid-summer to mid-spring), a CDOT Project Engineer designated qualified biologist shall assist the contractor in passive relocation of prairie dogs, if construction cannot avoid the prairie dog colony. During the pupping season from approximately March 15 to July 1 (mid-spring to mid-summer), as determined by the CDOT Project Engineer designated qualified biologist, disturbance of Prairie Dog colonies will not be allowed. No staging of equipment, vehicles, or materials will be allowed within any prairie dog colony at any time.

Passive relocation method:

The Contractor shall install silt fences in a manner that creates a rectangular enclosure that limits the prairie dogs field of view. These enclosures will be constructed as to avoid blocking access to residences. Silt fence shall be entrenched to a depth of 6 inches.

Phase I: Silt fence is to be installed parallel to the highway at the minimum distance necessary for ground disturbance in the work area where prairie dogs are present, but not to exceed the limits of disturbance shown on the plans. Should the planned disturbance exceed the limits of disturbance shown on the plans, relocation methods other than passive relocation may be necessary at the discretion of the CDOT qualified biologist to include live trapping or other means.

Phase II: Grade the area between the silt fence and highway to a depth of 6 inches.

Phase III: Install silt fence 5 feet off the edge of existing oil in the same areas fenced in Phase I. Perpendicular fencing may be installed, as recommended by the qualified biologist, to reduce prairie dog sight distance within each enclosure.

Phase IV: Re-grading of the area should occur as necessary (i.e. at least once a day) until the prairie dogs have left the work area (approximately 3 days). Once the contractor no longer sees any evidence of prairie dogs in the work area (i.e. prairie dogs or new burrows), they shall call the qualified biologist to resurvey the area so a final clearance can be given.

Exclusion during the pupping season:

If construction occurs between March 15 – July 1 (within the prairie dog “pupping” season, as determined by the qualified biologist), no work will be allowed within any active prairie dog colonies.

The qualified biologist shall assist the contractor in locating and installing barrier fencing (silt fencing) to protect active prairie dog colonies from construction activities during the “pupping” season (March 15 - July 1).

-2-

**REVISION OF SECTION 240
BLACK-TAILED PRAIRIE DOG MANAGEMENT (WESTERN BURROWING OWL)**

Work in adjacent to prairie dog colonies. Prairie dog colonies are known to occur in or adjacent to CDOT ROW within the project area, as shown on the Environmental Plan Sheets. Western burrowing owls occupy prairie dog colonies. Therefore any work occurring within these limits during the nesting season (March 15 – October 31) will require a burrowing owl survey prior to work commencing. A minimum of 10 business days prior to any work in areas with Prairie Dog colonies, the Contractor shall request, through the CDOT Project Engineer, that a Western Burrowing Owl Survey be performed by a qualified biologist. If prairie construction activities are initiated during the nesting season for burrowing owls (March 15 to October 31), a burrowing owl survey is required. If burrowing owls are identified, the qualified biologist shall assist the Contractor in locating and installing safety barrier fencing (silt fencing) within 150 feet of the work zone to protect active burrows from construction activities during the nesting season (March 15 – October 31). Work shall not proceed within the 150 foot buffer until the young have fledged or the nests have become inactive.

Contractor shall contact CDOT Environmental Manager one week prior to onsite prairie dog management. If prairie dog trapping is required, the Contractor shall also contact the CDOT Project Engineer and CDOT Region 2 Public Relations 30 days prior to onsite prairie dog management.

240.03 Measurement and Payment

Measurement and payment for Prairie Dog Management will be paid for under the items F/A – Prairie Dog Management (Burrowing Owl). Included in the items is all labor, materials, and equipment and permits required to complete the work.

Applying for and obtaining permits, hiring licensed specialists, trapping, transporting, euthanizing, parasite and disease management (including pesticides and other chemicals), and all other activities necessary to properly remove the BTPD in accordance with all of the requirements of the CDOT BTPD policy will not be measured and paid for separately, but shall be included in the work.

Partial payments for Prairie Dog management will made according to the following schedule:

- 50 percent of the bid amount will be paid on the first pay request that work associated with Prairie Dog Management is required for construction
- When 50 percent of the original contract amount is earned, 75 percent of the bid amount will be paid
- 100 percent of the bid amount will be paid on the final pay request upon request acceptance

Payment will be made under:

Pay Item	Pay Unit
F/A – Prairie Dog Management (Burrowing Owls)	F.A.



Oversight / NHS

FHWA REGION VIII OVERSIGHT? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

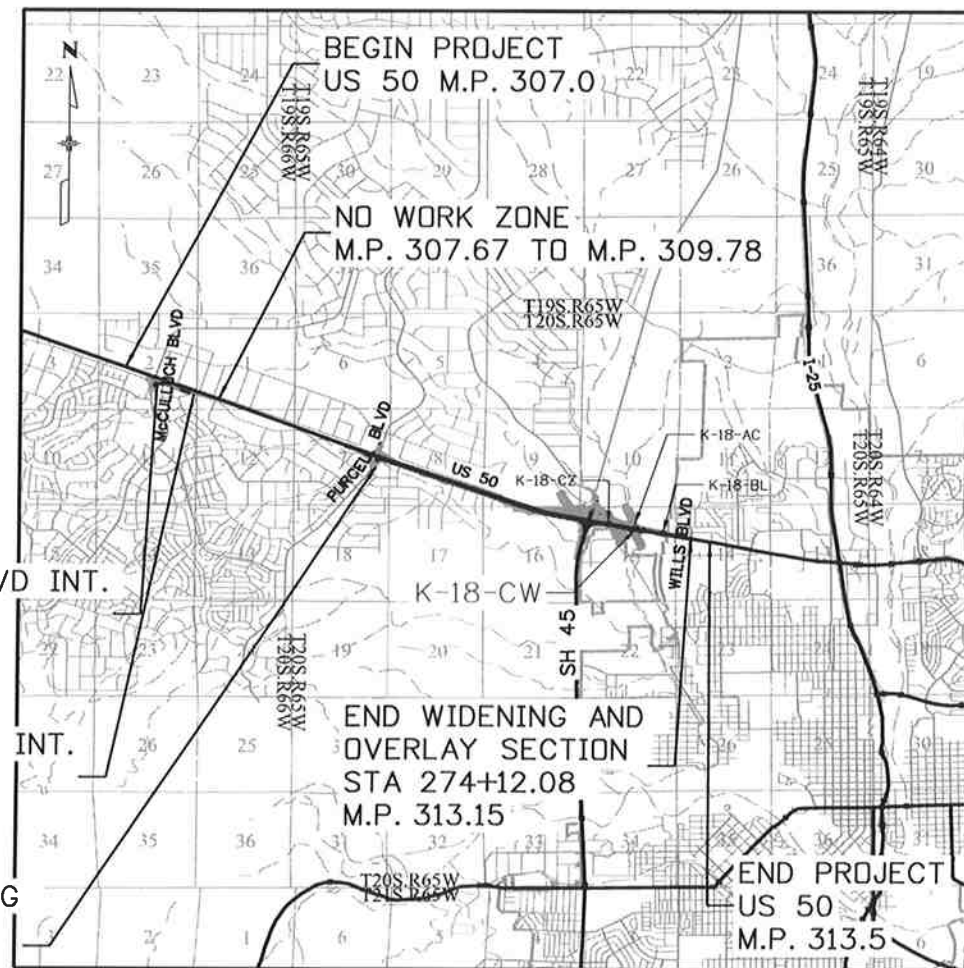
Related Projects:	
P. E. UNDER PROJECT:	FSA 0503-081
Project Number	19751
Project Code:	
R.O.W. Projects:	
R.O.W. Project Description	FSA 0503-081 19751

TABULATION OF LENGTH & DESIGN DATA

STATION	FEET	
	ROADWAY US 50	MAJOR STR.
BEGIN FSA 0503-081 ON US 50		
BEGIN APPROACH TO PROJECT ON US 50 = M.P. 307.0		
BEGIN McCULLOCH BLVD INTERSECTION IMPROVEMENTS STA. 700+37.13 = MP 307.34		
END McCULLOCH BLVD INTERSECTION IMPROVEMENTS STA. 721+41.51 = MP 307.67	1,754.0	
NO WORK ZONE MP 307.67 TO 309.78		
BEGIN US 50 WIDENING AND OVERLAY STA. 97+13.10 = MP 309.78	14,560.5	
BEGIN STRUCTURE K-18-CW STA. 242+73.64 = M.P. 312.56		233.1
END STRUCTURE K-18-CW STA. 245+06.76 = MP 312.60		
END US 50 WIDENING AND OVERLAY STA. 274+12.08 = MP 313.15	2,901.6	
BEGIN APPROACH TO PROJECT = MP 313.5		
END FSA 0503-081 ON US 50		
TOTAL	19,216.2	233.1
SUMMARY OF PROJECT LENGTH	FEET	MILES
MAJOR STRUCTURE	233.1	0.04
PROJECT GROSS LENGTH	19,449.3	3.7

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. FSA 0503-081 UNITED STATES HIGHWAY NO. 50 PUEBLO COUNTY CONSTRUCTION PROJECT CODE NO.19751

SHEET NO.	INDEX OF SHEETS
(R-1) 1a	TITLE SHEET
2	STANDARD PLANS LIST
3	GENERAL NOTES
4-9	TYPICAL SECTIONS
10-11	SUMMARY OF APPROXIMATE QUANTITIES
(R-1) 12a	SUMMARY OF APPROXIMATE QUANTITIES
13-15	SUMMARY OF APPROXIMATE QUANTITIES
(R-1) 16a-17a	SUMMARY OF APPROXIMATE QUANTITIES
18-27	TABULATIONS
28-43	UTILITY PLAN
44-45	GEOMETRY PLAN
46-53	REMOVALS AND RESETS
54-70	ROADWAY PLAN AND PROFILE
71-77	INTERSECTION DETAILS
78-89	GEOTECHNICAL/BORING SHEETS
90-91	ENGINEERING GEOLOGY
92-96	SURVEY CONTROL DIAGRAM
97-101	RIGHT OF WAY PLANS
102-117	GRADING AND DRAINAGE PLANS
118-119	POND DETAILS
120-128	DRAINAGE DETAILS
129-140	CROSS PIPE PLAN AND PROFILES
141-144	STORM SYSTEM PLAN AND PROFILE
145-146	STORM SYSTEM LATERAL PROFILES
147-178	BRIDGE PLANS
179	RAILROAD BRIDGE SLOPE PAVING MODIFICATIONS
180	HEADWALL DETAIL
(R-1) 181a-182a	ENVIRONMENTAL PLAN
183-200	ENVIRONMENTAL PLAN
200-204	STORMWATER MANAGEMENT NOTES
205-220	STORMWATER MANAGEMENT PLAN - INITIAL
221-236	STORMWATER MANAGEMENT PLAN - FINAL
(R-1) 237a	TABULATION OF TRAFFIC ENGINEERING ITEMS
238-245	CONSTRUCTION PHASING
246-278	CONSTRUCTION TRAFFIC CONTROL (CTC)
279-282	TRAFFIC SIGNAL PLANS AND TABULATION
283-285	SIGNING AND PAVEMENT MARKING TABULATION
286-301	SIGNING AND STRIPING PLAN
302-303	CLASS III CROSS SECTIONS
304	ITS PLAN AND TABULATION



PROJECT LOCATION MAP



DESIGN DATA	US 50 (EB)
MAXIMUM RADIUS OF CURVE	6,844 FT.
MAXIMUM GRADE	5.20%
MINIMUM S.S.D. HORIZONTAL	495 FT.
MINIMUM S.S.D. VERTICAL	495 FT.
MAXIMUM DESIGN SPEED	65 MPH
2035 DESIGN TRAFFIC	DHV = 4,493 vph ADT = 43,425 vpd
DHV TRUCK %	6.40%
CLEAR ZONE DISTANCE (TANGENT)	24 FT.
CLEAR ZONE DISTANCE (XXX MIN. RADIUS)	24 FT.
CONSTRUCTION CLEAR ZONE (MIN 18')	18 FT.

BEGIN McCULLOCH BLVD INT. IMPROVEMENTS
M.P. 307.34

END McCULLOCH BLVD INT. IMPROVEMENTS
M.P. 307.67

BEGIN US 50 WIDENING AND OVERLAY
STA 97+13.10
M.P. 309.78

END WIDENING AND OVERLAY SECTION
STA 274+12.08
M.P. 313.15

END PROJECT US 50
M.P. 313.5

Print Date: 11/21/2014	(R-1) 0000
File Name: 19056DES_TitleSht_Revision_1.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information DTD	
JFS&A J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120	

Sheet Revisions		
Date:	Comments	Init.
11/20/14	Revision 1	GV

Colorado Department of Transportation

902 Erie Avenue
Pueblo, CO 81001
Phone: 719-562-5509 FAX: 719-546-5702

Region 2 DTD

As Constructed	Contract Information
No Revisions:	Contractor:
Revised:	Resident Engineer:
Void:	Project Engineer:
	PROJECT STARTED: / / ACCEPTED: / /
	Comments:

Project No./Code	FSA 0503-081
	19751
Sheet Number	1a

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										STRUCTURE K-18-CW		PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.
			212-00006	Seeding (Native)	ACRE	19.6												19.6	
			212-00010	Seeding (Lawn)	LB	5												5	
			212-00025	Seeding (Shrubs)	LB	5												5	
			212-00032	Soil Conditioning	ACRE	10												10	
			212-00040	Soil Preparation (Lawn)	ACRE	1												1	
			213-00002	Mulching (Weed Free Hay)	ACRE	20												20	
			213-00061	Mulch Tackifier	LB	6												6	
			213-00150	Bonded Fiber Matrix	ACRE	1												1	
			214-00205	Deciduous Tree (5 Gallon Container)	EACH	2												2	
			214-01015	Willow Cuttings	EACH	1,100												1,100	
			216-00042	Soil Retention Blanket (Biodegradable Straw/Coconut)	SY	2,420												2,420	
			216-00301	Turf Reinforcement Mat (Class 1)	SY	17												17	
			217-00020	Herbicide Treatment	HOUR	80												80	
			240-00010	Removal of Nests	HOUR	40												40	
			240-00020	Netting	SY	50												50	
			240-00100	Prairie Dog Management	L S	1												1	
			250-00010	Environmental Health and Safety Management	L S	1												1	
			250-00050	Monitoring Technician	HOUR	80												80	
			250-00110	Health and Safety Officer	HOUR	80												80	
			250-00200	Material Handling (Stockpile)	CY	100												100	
			250-00210	Solid Waste Disposal	CY	50												50	
			250-00220	Hazardous Waste Disposal	CY	50												50	
			304-06000	Aggregate Base Course (Class 6)	TON	57,645												57,645	
			306-01000	Reconditioning	SY	29,529												29,529	
			403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	105												105	
			403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	20,957												20,957	
			403-34841	Hot Mix Asphalt (Grading SX) (100) (PG 64-22)	TON									243				243	
			403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	15,555												15,555	
			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	13,023												13,023	
			412-00600	Concrete Pavement (6 Inch)	SY	20												20	
			420-00102	Geotextile (Erosion Control) (Class 1)	SY									4,199				4,199	
			420-00112	Geotextile (Drainage) (Class 1)	SY	567												567	

Print Date: 11/21/2014		Sheet Revisions Date: 11/20/14 Comments: Quantity deleted Init.: GV		Colorado Department of Transportation  902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 Region 2		As Constructed No Revisions:		US 50 WEST PURCELL BLVD. TO WILLS BLVD.		Project No./Code FSA 0503-081	
File Name: Rev_L_19056DES_SAO.dgn						Designer: Detailer: Subset:		Structure Numbers of		19751 Sheet Number 12a	
Horiz. Scale: 1:200 Vert. Scale: As Noted						Revised:		Designer:		Structure Numbers	
 J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120				Region 2		DTD		Designer:		Structure Numbers	

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										STRUCTURE K-18-CW		PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.
			614-87011	Fiber Optic Cable (Single Mode) (24 Fiber)	LF	50												50	
			614-87524	Splice Fiber Optic Cable (24 Strand)	EACH	1												1	
			618-00142	Prestressed Concrete I (BT42)	LF										730			730	
			620-00002	Field Office (Class 2)	EACH	1												1	
			620-00012	Field Laboratory (Class 2)	EACH	1												1	
			620-00020	Sanitary Facility	EACH	1												1	
			621-00450	Detour Pavement	SY	611												611	
			625-00000	Construction Surveying	L S	1												1	
			626-00000	Mobilization	L S	1												1	
			626-01000	Public Information Services	L S	1												1	
			627-00007	Epoxy Pavement Marking (Special)	GAL	179												179	
			627-00011	Pavement Marking Paint (Waterborne)	GAL	400												400	
			627-30205	Thermoplastic Pavement Marking (Word-Symbol)	SF	93												93	
			627-30210	Thermoplastic Pavement Marking (Xwalk-Stopline)	SF	903												903	
			630-00000	Flagging	HOUR	3,808												3,808	
			630-00007	Traffic Control Inspection	DAY	127												127	
			630-00012	Traffic Control Management	DAY	238												238	
			630-80001	Flashing Beacon (Portable)	EACH	10												10	
			630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	3												3	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	43												43	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	91												91	
			630-80344	Construction Traffic Sign (Special)	SF	165												165	
			630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	6												6	
			630-80359	Portable Message Sign Panel	DAY	4												4	
			(R-1) 630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	75 200												75 200	
			630-80370	Concrete Barrier (Temporary)	LF	3,000												3,000	
			630-80380	Traffic Cone	EACH	100												100	
			630-85011	Impact Attenuator (Temporary)	DAY	50												50	
			700-70010	FORCE ACCOUNT =====	F A	1												1	
			700-70011	F/A Partnering	F A	1												1	
			700-70012	F/A Asphalt Pavement Incentive	F A	1												1	

Print Date: 11/21/2014		Sheet Revisions			Colorado Department of Transportation		As Constructed		US 50 WEST PURCELL BLVD. TO WILLS BLVD.		Project No./Code	
File Name: Rev.1...19056DES_SAO.dgn		Date:	Comments	Init.	 902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702		No Revisions:		Designer: Detailer: Subset:		FSA 0503-081	
Horiz. Scale: 1:200 Vert. Scale: As Noted		11/20/14	Quantity change	GV			Revised:				Structure Numbers	
 J.F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120							Void:				19751 Subset Sheets: of	
					Region 2		DTD				Sheet Number 16a	

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										STRUCTURE K-18-CW		PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.
			700-70016	F/A Fuel Cost Adjustment	F A	1												1	
			700-70018	F/A Roadway Smoothness Incentive	F A	1												1	
			700-70019	F/A Asphalt Cement Cost Adjustment	F A	1												1	
			700-70021	F/A On-The-Job Trainee	HOUR	1,920												1,920	
			700-70031	F/A INTERIM SURFACE REPAIR	F A	1												1	
			700-70082	F/A Furnish & Install Electrical Service	F A	1												1	
			700-70380	F/A Erosion Control	F A	1												1	
			700-70594	F/A DRB Standing Committee	F A	1												1	
			700-73351	F/A Removal of Asbestos and Lead Based Paint	F A	1												1	
			R-1 700-70035	F/A Prairie Dog Management (Burrowing Owl)	F A	1												1	
			R-1 700-70060	F/A Adjust Utility	F A	1												1	

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Horiz. Scale: 1:200 Ver l. Scale: As Noted		11/20/14	F/A Quantity Added	GV	Region 2		Revised:		19751		
 J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120		 CDOT Region 2		DTD		Void:		Designer: Detailer: Subset:		Structure Numbers Subset Sheets: of Sheet Number 17a	



Know what's below.
Call before you dig.

ENVIRONMENTAL GENERAL NOTES:

~~1. IF CONSTRUCTION IS TO OCCUR DURING THE MIGRATORY BIRD NESTING SEASON, (BETWEEN APRIL 1 AND AUGUST 31 AND BETWEEN MARCH 15 AND OCTOBER 31 FOR WESTERN BURROWING OWLS) THE CONTRACTOR SHALL FOLLOW CDOT'S PROJECT SPECIAL PROVISION 240, (PROTECTION OF MIGRATORY BIRDS), WHICH REQUIRES A SURVEY. THE CDOT PROJECT ENGINEER SHALL DESIGNATE A QUALIFIED BIOLOGIST TO PERFORM THE SURVEY.~~

1. IF CONSTRUCTION IS TO OCCUR DURING THE MIGRATORY BIRD NESTING SEASON (BETWEEN APRIL 1 AND AUGUST 31), THE CONTRACTOR SHALL FOLLOW CDOT'S PROJECT SPECIAL PROVISION 240 PROTECTION OF MIGRATORY BIRDS WHICH REQUIRES A SURVEY. ALSO, IF CONSTRUCTION IS TO OCCUR BETWEEN THE NESTING SEASON FOR WESTERN BURROWING OWLS (MARCH 15 AND OCTOBER 31), THE CONTRACTOR SHALL FOLLOW CDOT'S PROJECT SPECIAL PROVISION 240 (BLACK TAILED PRAIRIE DOG MANAGEMENT (WESTERN BURROWING OWL), WHICH REQUIRES A SURVEY. THE CDOT PROJECT ENGINEER SHALL DESIGNATE A QUALIFIED BIOLOGIST TO PERFORM THE SURVEYS. (R-1)

IF MIGRATORY BIRDS ARE IDENTIFIED, CDOT REGION 2 ENVIRONMENTAL PERSONNEL SHALL COORDINATE WITH THE DESIGN PROJECT MANAGER TO SHOW BIRD NESTS AND POTENTIAL NESTING HABITAT IN THE PLAN. THE CDOT BIOLOGIST SHALL RECORD THE LOCATION OF EACH PROTECTED NEST, BIRD SPECIES, PROTECTION METHODS USED, AND DATE INSTALLED. A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER. THESE PROTECTION METHODS SHALL REMAIN IN PLACE DURING THE NESTING SEASON (BETWEEN APRIL 1 AND AUGUST 31).

2. THE CONTRACTOR SHALL PERFORM CONSTRUCTION ACTIVITIES TO AVOID UNNECESSARY IMPACTS TO VEGETATION, INCLUDING TREES AND SHRUBS. PROTECTIVE FENCING WILL BE USED TO IDENTIFY THESE AREAS, AS NOTED ON THE STORMWATER MANAGEMENT PLAN. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT THEIR OWN EXPENSE. TREES NOT DESIGNATED FOR REMOVAL WILL BE PROTECTED WITH ORANGE FENCING (PLASTIC). THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT OR DISTURB ANY AREA NOT APPROVED BY THE ENGINEER.

3. RIPARIAN/ STREAM BANK (SENATE BILL 40) RESOURCES ALONG WILD HORSE DRY CREEK WILL BE RESTORED, AS NOTED IN THE STORMWATER MANAGEMENT PLAN. PLANTING OF TREES AND SHRUBS WILL FOLLOW CDOT'S STANDARD SPECIFICATION 214 - PLANTING AND PROJECT SPECIAL PROVISION 217 HERBICIDE TREATMENT.

THE CONTRACTOR SHALL REMOVE TWO TREES AS SHOWN ON PAGES ENV-3 AND ENV-13. THE LOCATION AND TYPE OF TREES TO BE RE-PLANTED BY THE CONTRACTOR SHALL BE AS DIRECTED BY CDOT ENGINEER AND REGION 2 ENVIRONMENTAL STAFF.

4. EROSION CONTROL BEST MANAGEMENT PRACTICES INCLUDED IN THE STORMWATER MANAGEMENT PLAN WILL ADDRESS THE POTENTIAL IMPACTS TO THE PLAINS LEOPARD FROG, NORTHERN LEOPARD FROG AND TRIPLOID COLORADO CHECKERED WHIPTAIL. IF CONSTRUCTION ACTIVITIES ARE TO OCCUR BETWEEN MARCH 1 AND JULY 31 AT SITES THAT CONTAIN HABITAT FOR THE PLAINS LEOPARD FROG AND NORTHERN LEOPARD FROG (WILLIAMS CREEK AND WILD HORSE DRY CREEK, THE CDOT STAFF BIOLOGIST AND THE COLORADO PARKS AND WILDLIFE WILL BE CONSULTED PRIOR TO CONSTRUCTION TO DETERMINE ACTIONS NECESSARY TO AVOID AND MINIMIZE IMPACTS. ALSO, APPLICATION OF HERBICIDES NEAR PERMANENT BODIES OF WATER WILL BE RESTRICTED DURING THE PERIOD OF FROG METAMORPHOSIS (JUNE TO AUGUST).

EROSION CONTROL BEST MANAGEMENT PRACTICES INCLUDED IN THE STORMWATER MANAGEMENT PLAN WILL ALSO ADDRESS THE POTENTIAL IMPACTS TO THE MASSASAUGA RATTLESNAKE AND THE TRIPLOID COLORADO CHECKERED WHIPTAIL. IF CONSTRUCTION ACTIVITIES ARE TO OCCUR BETWEEN MARCH 1 AND JULY 31 AT SITES THAT CONTAIN HABITAT FOR THE MASSASAUGA RATTLESNAKE, THE CDOT STAFF BIOLOGIST WILL BE CONSULTED PRIOR TO CONSTRUCTION TO DETERMINE ACTIONS NECESSARY TO AVOID AND MINIMIZE IMPACTS.

5. THE CONTRACTOR SHALL OBTAIN ANY OR ALL APPLICABLE AIR POLLUTION EMISSION NOTICE (APEN) OR FUGITIVE DUST CONTROL PLAN APPROVALS REQUIRED BY THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) AND LOCAL REGULATORY AGENCIES FOR THIS PROJECT (PER SUBSECTION 107.24 OF THE STANDARD SPECIFICATIONS). THE CONTRACTOR SHALL PROVIDE COPY(S) OF THE APPROVED PERMITS OR NOTIFICATIONS TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION OR COMMENCEMENT OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE APPLICATION FOR AND MANAGEMENT OF THIS PERMIT.

6. THE CONTRACTOR SHALL MAINTAIN EQUIPMENT ON A REGULAR BASIS. EQUIPMENT WILL BE SUBJECT TO INSPECTION BY THE ENGINEER TO ENSURE MAINTENANCE. ALSO, THE CONTRACTOR SHALL NOT ALLOW EXCESSIVE IDLING OF INACTIVE EQUIPMENT OR VEHICLES.

7. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DUST CONTROL PLAN THAT DETAILS METHODS FOR MITIGATION OF FUGITIVE DUST RESULTING FROM THE WORK, INCLUDING DUST FROM THE BRIDGE. THE DUST CONTROL PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO WORK COMMENCEMENT. PREPARATION OF THIS PLAN SHALL BE INCLUDED IN THE COST OF THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.

WATER SHALL BE USED AS A DUST PALLIATIVE AS DETAILED IN CDOT STANDARD SPECIFICATION 209 WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. WATER FOR A DUST PALLIATIVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK. CONTAMINATED GROUNDWATER SHALL NOT BE USED AS A DUST PALLIATIVE.

DUST CONTROL FOR THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

8. THE CONTRACTOR IS ADVISED THAT KNOWN SOIL AND GROUNDWATER CONTAMINATION HAS BEEN IDENTIFIED IN THE EASTERN PORTION OF THE PROJECT LIMITS BETWEEN WILLS BLVD AND THE BURLINGTON NORTHERN SANTA FE RAILROAD TRACKS. IF ANY CONTAMINATED SOILS ARE ENCOUNTERED, THEY SHALL BE PROPERLY BE STOCKPILED, SAMPLED, AND DISPOSED OF IN ACCORDANCE WITH SUBSECTION 250.03(d) OF THE STANDARD SPECIFICATIONS AND THE CONTRACTOR'S HEALTH AND SAFETY PLAN. PAYMENT FOR THIS WORK, IF ENCOUNTERED SHALL BE IN ACCORDANCE WITH THIS CONTRACT.

9. GROUNDWATER MONITORING WELLS ARE LOCATED WITHIN PROJECT LIMITS AS SHOWN ON SHEET ENV-15. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF GROUNDWATER WELLS PRIOR TO CONSTRUCTION. IF NECESSARY, WELL ABANDONMENT/RELOCATION/RESET SHALL BE IN ACCORDANCE WITH SUBSECTION 202 OF THE CDOT STANDARD SPECIFICATIONS AND IN COORDINATION WITH CDOT ENVIRONMENTAL STAFF.

10. THIS PROJECT REQUIRES A COLORADO DISCHARGE PERMIT SYSTEM CONSTRUCTION DEWATERING PERMIT. THE CONTRACTOR WILL OBTAIN THE DEWATERING PERMIT PRIOR TO CONSTRUCTION.

11. THIS PROJECT REQUIRES A COLORADO DISCHARGE PERMIT SYSTEM STORMWATER CONSTRUCTION PERMIT (CDPS-SCP). ALL PERMIT REQUIREMENTS SHALL BE ADHERED TO BY THE CONTRACTOR. CDOT WILL OBTAIN THE CDPS-SCP PRIOR TO ADVERTISEMENT AND TRANSFER TO THE CONTRACTOR.

12. WETLANDS EXIST WITHIN THE LIMITS OF THE PROJECT AS SHOWN ON SHEETS ENV-13 THROUGH ENV-14. 10 DAYS PRIOR TO MOBILIZATION, THE CDOT ENGINEERING PROJECT MANAGER WILL BE NOTIFIED, WHO WILL SCHEDULE WITH A QUALIFIED BIOLOGIST FOR A WETLANDS / RIPARIAN FIELD REVIEW. THE QUALIFIED BIOLOGIST WILL LOCATE AND DELINEATE WITH MARKERS, SUCH AS PIN FLAGS, SENSITIVE RIPARIAN AND / OR WETLAND AREAS TO AVOID AND / OR PROTECT. ONCE THE ABOVE RIPARIAN / WETLAND AREAS ARE MARKED, THE CONTRACTOR WILL INSTALL SAFETY BARRIER FENCING (ORANGE FENCING) TO PROTECT WETLANDS / RIPARIAN AREAS FROM CONSTRUCTION ACTIVITIES.

13. IF HISTORICAL OR ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED OR UNEARTHED DURING CONSTRUCTION, WORK WILL BE HALTED IMMEDIATELY IN THE VICINITY OF THE FIND. THE CDOT ENGINEER SHALL CONTACT THE CDOT CULTURAL RESOURCES SPECIALIST PROMPTLY. THE PROCESS IS OUTLINED IN SUBSECTION 107.23 OF CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR PROCEDURES REGARDING UNEXPECTED DISCOVERIES DURING CONSTRUCTION.

14. THE CONTRACTOR IS ADVISED THERE ARE AREAS OF PALEONTOLOGICAL CONCERN WITHIN THE LIMITS OF THE PROJECT. IF ANY SUB-SURFACE FOSSILS OR OTHER POTENTIALLY SIGNIFICANT FOSSILS ARE FOUND ANYWHERE WITHIN THE US 50 WEST PROJECT LIMITS DURING CONSTRUCTION, WORK IN THE IMMEDIATE VICINITY SHALL BE TEMPORARILY SUSPENDED. THE CDOT PROJECT ENGINEER SHALL NOTIFY THE CDOT PALEONTOLOGIST TO ASSESS THE SIGNIFICANCE OF THE FIND AND MAKE FURTHER RECOMMENDATIONS.

~~15. THE CONTRACTOR SHALL FOLLOW CDOT'S PROJECT SPECIAL PROVISION 201 (CLEARING AND GRUBBING) FOR ALL ACTIVITIES THAT AFFECT BLACK TAILED PRAIRIE DOGS WITHIN THE PROJECT FOOTPRINT. PAYMENT FOR BTPD MITIGATION WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. CDOT'S BTPD POLICY CAN BE FOUND IN SUBSECTION 102- PROJECT PLANS AND OTHER DATA. (R-1)~~



15. THE CONTRACTOR SHALL FOLLOW CDOT'S PROJECT SPECIAL PROVISION 240 BLACK-TAILED PRAIRIE DOG MANAGEMENT (WESTERN BURROWING OWL) FOR ALL ACTIVITIES THAT AFFECT BLACK TAILED PRAIRIE DOGS WITHIN THE PROJECT FOOTPRINT. CDOT'S BTPD POLICY CAN BE FOUND IN SUBSECTION 102- PROJECT PLANS AND OTHER DATA.

16. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND CROSS SECTIONS. THE CDOT PROJECT ENGINEER SHALL CONTACT THE CDOT ENVIRONMENTAL STAFF IF ANY DISTURBANCE BEYOND THESE LIMITS IS EXPECTED TO OCCUR.

17. THE CONTRACTOR SHALL CONSIDER THE SCHEDULE FOR NIGHT WORK TO TRY AND AVOID WORKING WITHIN 500 FEET OF RESIDENCES THAT MAY BE IMPACTED BY TEMPORARY LIGHTING OR CONSTRUCTION NOISE.

18. NOXIOUS WEED MANAGEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FOLLOW THE PROCEDURES IDENTIFIED IN THE PROJECT SPECIAL PROVISION 217 - HERBICIDE TREATMENT. ONLY A COLORADO LICENSED SUPERVISOR OR CERTIFIED OPERATOR SHALL APPLY HERBICIDES. ALL HERBICIDES WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. IN ADDITION TO THE SPECIFIC MANAGEMENT ACTIONS LISTED IN PROJECT SPECIAL PROVISION 217 - HERBICIDE TREATMENT, THE FOLLOWING PREVENTATIVE MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE SPREAD OF NOXIOUS WEEDS IN CONSTRUCTION AREAS:

- THE AREA OF GROUND DISTURBANCE WILL BE KEPT TO THE MINIMUM NECESSARY.
- MINIMIZE IMPORTED TOPSOIL DURING CONSTRUCTION.
- AREAS WITH DENSE NOXIOUS WEED POPULATIONS WILL NOT BE USED FOR TOPSOIL SALVAGE.
- ALL AREAS PLANNED FOR TOP SOIL SALVAGE WILL BE TREATED FOR NOXIOUS WEEDS PRIOR TO SALVAGE.
- ONLY HERBICIDES APPROVED FOR USE IN WATER WILL BE USED IN OR WITHIN 25 FEET OF WETLANDS OR OTHER WATER FEATURES.
- BROADCAST HERBICIDE SPRAYING WILL ONLY BE APPROVED THROUGH WRITTEN CONSENT OF THE ENGINEER AND SHALL BE APPLIED WHEN WEATHER CONDITIONS (INCLUDING WIND) ARE SUITABLE FOR SUCH WORK.
- ENGINEER WILL BE NOTIFIED 24 HOURS PRIOR TO HERBICIDE APPLICATION.

Print Date: 11/20/2014		Sheet Revisions			Colorado Department of Transportation		As Constructed		US 50 WEST ENVIRONMENTAL PLAN SHEETS GENERAL NOTES		Project No./Code	
File Name: 19506LAND_ENVI_Plan01.dgn		Date:	Comments	Init.	 902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 Region 2 DTD		No Revisions:		Designer: KAB Detailer: KAB Structure Numbers		FSA 0503-081	
Horiz. Scale: 1:1 Vert. Scale: As Noted		11/20/14	REVISED COMMENT	KAB			Revised:				Sheet Subset: ENVIRO	
 6300 South Syracuse Way, Suite 600 Centennial, CO 80111 Phone: 303.721.1440 Fax: 303.721.0832							Void:				Sheet Number 181a	



Know what's below.
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NOXIOUS WEEDS TREATMENT INFORMATION

NOXIOUS WEED	TREATMENT NAME	AREA (S.Y.)
CANADA THISTLE	AMINOPYRALID	45
DIFFUSE KNAPWEED	AMINOPYRALID	410
HOARY CRESS	METSULFURON	80
LEAFY SPURGE	AMINOPYRALID	20
MUSK THISTLE	AMINOPYRALID	185
PERENNIAL PEPPERWEED	GLYPHOSATE	200
TAMARISK	TRICLOPYR	1370

APPROXIMATE SUMMARY OF ENVIRONMENTAL QUANTITIES

ITEM NO	NAME	AMOUNT	PAY UNIT
202-00010	REMOVAL OF TREE	2	EA
202-04100	ABANDON WELL	4	EA
214-00205	DECIDUOUS TREE (5 GAL)	2	EA
214-01015	WILLOW CUTTING	1100	EA
217-00020	HERBICIDE TREATMENT	80	HR
240-00010	REMOVAL OF NESTS	40	HR
240-00020	NESTING	50	CY
240-00100	PRAIRIE DOC MANAGEMENT	1	LS
250-00010	ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT	1	LS
250-00050	MONITORING TECHNICIAN	80	HR
250-00110	HEALTH AND SAFETY OFFICER	80	HR
250-00200	MATERIAL HANDLING (STOCKPILE)	100	CY
250-00210	SOLID WASTE DISPOSAL	50	CY
250-00220	HAZARDOUS WASTE DISPOSAL	50	CY
607-11525	FENCE (PLASTIC)	1575	LF

(R-1)

Print Date: 11/20/2014	Sheet Revisions			 Colorado Department of Transportation 902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 Region 2 DTD	As Constructed No Revisions: Revised: Void:	US 50 WEST ENVIRONMENTAL PLAN SHEETS GENERAL NOTES Designer: KAB Detailer: KAB Sheet Subset: ENVIRO		Project No./Code	
File Name: 19506LAND_ENVI_Plan02.dgn	Date: 11/20/14	Comments: REMOVE QUANTITY	Init.: KAB					FSA 0503-081	
Horiz. Scale: 1:1	Vert. Scale: As Noted			 6300 South Syracuse Way, Suite 600 Centennial, CO 80111 Phone: 303.721.1440 Fax: 303.721.0832	Structure Numbers Subst Sheets: ENV-2 of 19	19751		Sheet Number 182a	

Note 11:23:53 PM 11/20/2014 - 19506LAND_ENVI_Plan02.dgn
 11/20/2014 - CDDT-DefaultPrinter-V8i.plt:fg CDDT-PerTable.tbl

TABULATION OF TRAFFIC ENGINEERING ITEMS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTALS
202-00040	REMOVAL OF ELECTRICAL CONDUIT *	LF	30
202-00250	REMOVAL OF PAVEMENT MARKING *	SF	12,700
202-00720	REMOVAL OF CCTV CAMERA	EA	1
202-00750	REMOVAL OF LUMINAIRE	EA	4
202-00805	REMOVAL OF OVERHEAD SIGN STRUCTURE *	EA	1
202-00810	REMOVE OF GROUND SIGN	EA	46
202-00825	REMOVAL OF FLASING BEACON	EA	2
202-00827	REMOVAL OF PULL BOX *	EA	6
202-00831	REMOVAL OF TRAFFIC SIGNAL HEAD	EA	2
202-00840	REMOVAL OF TRAFFIC SIGNAL POLE	EA	3
202-00858	REMOVAL OF PEDESTAL POLE	EA	1
202-00860	REMOVAL OF PEDESTRIAN PUSH BUTTON	EA	2
210-00476	RESET MICROWAVE VEHICLE RADAR DETECTOR (MVRD)	EA	3
210-00750	RESET LIGHT STANDARD *	EA	1
210-00815	RESET SIGN PANEL	EA	1
210-00825	RESET FLASHING BEACON	EA	2
210-00858	RESET PEDESTAL POLE	EA	1
210-00890	RESET INTERSECTION DETECTION SYSTEM (CAMERA)	EA	6
503-00012	DRILLED CAISSON (12 INCH)	LF	7
503-00018	DRILLED CAISSON (18 INCH)	LF	4
503-00036	DRILLED CAISSON (36 INCH)	LF	19
503-00048	DRILLED CAISSON (48 INCH)	LF	74
604-39050	MANHOLE (TRAFFIC MANAGEMENT SYSTEM)	EA	4
613-00200	2 INCH ELECTRICAL CONDUIT	LF	90
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	659
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	800
613-07023	PULL BOX (24"X36"X24")	EA	8
613-07039	PULL BOX (30"X48"X18")	EA	1
613-10000	WIRING	LS	1
613-13006	LUMINARE (LED) (8500 LUMENS)	EA	4
613-40010	LIGHT STANDARD FOUNDATION *	EA	1
614-00011	SIGN PANEL (CLASS I)	SF	131
614-00012	SIGN PANEL (CLASS II)	SF	335
614-00013	SIGN PANEL (CLASS III)	SF	385
614-00615	STEEL SIGN POST (W6X15)	LF	128
614-01502	STEEL SIGN SUPPORT (2 IN RD) (POST AND SOCKET)	LF	70
614-01572	STEEL SIGN SUPPORT (2-1/2 IN RD SCH 40) (POST AND SLIP BASE)	LF	290
614-03002	CONCRETE FOOTING (TYPE 2)	EA	8
614-10147	VARIABLE MESSAGE SIGN LED (OVERHEAD)	EA	1
614-32400	MONOTUBE OVERHEAD SIGN CANTILEVER (24 INCH DIAMETER)	EA	1
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EA	8
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	11
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EA	3
614-72860	PEDESTRIAN PUSH BUTTON	EA	7
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY	EA	1
614-81150	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-50 FOOT MAST ARM)	EA	1
614-81160	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-60 FOOT MAST ARM)	EA	2
614-87011	FIBER OPTIC CABLE (SINGLE MODE) (24 STRAND)	LF	50
614-87524	SPLICE FIBER OPTIC CABLE (24 STRAND)	EA	1
621-00450	DETOUR PAVEMENT	SY	611

* FOR INFO ONLY




NOTE:
SCHEDULE OF TRAFFIC CONTROL DEVICES PROVIDED FOR INFORMATION ONLY.

TABULATION OF TRAFFIC ENGINEERING ITEMS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTALS
627-00007	EPOXY PAVEMENT MARKING (SPECIAL)	GAL	179
627-00011	PAVEMENT MARKING PAINT (WATERBORNE)	GAL	400
627-30405	PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL)	SF	93
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK-STOPLINE)	SF	903
630-00000	FLAGGING	HR	3,808
630-00007	TRAFFIC CONTROL INSPECTION	DAY	127
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	238
630-80001	FLASHING BEACON (PORTABLE)	EA	10
630-80335	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EA	3
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EA	43
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EA	91
630-80344	CONSTRUCTION TRAFFIC SIGN (SPECIAL)	SF	165
630-80358	ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (C TYPE)	EA	6
630-80359	PORTABLE MESSAGE SIGN	EA	4
630-80363	DRUM CHANNELIZING DEVICE (WITH LIGHT) (FLASHING)	EA	75-200
630-80370	CONCRETE BARRIER (TEMPORARY)	LF	3,000
630-80380	TRAFFIC CONE	EA	100
630-85011	IMPACT ATTENUATOR (TEMPORARY)	DAY	50

SCHEDULE OF TRAFFIC CONTROL DEVICES

SIGNS					
SIGN CODE	LEGEND	DIMENSION	PANEL SIZE		
			A	B	Special
			EA	EA	SF
FASTER	COLORADO AT WORK SIGN (SPECIAL)	66X60			165
G20-5	WORK ZONE	36X24	20		
G20-10	XYZ/CONSTRUCTION/THANKS YOU/555-555-5555	48X48		8	
G20-11	ROAD WORK INFORMATION	48X48		7	
M1-4	U.S. ROUTE SIGN	36X36	1		
M1-5A	STATE ROUTE SIGN	36X36	1		
M3-3	CARDINAL DIRECTION	36X18	1		
M3-4	CARDINAL DIRECTION	36X18	1		
M5-1L	ADVANCE TURN ARROW	30X21	2		
R1-2	YIELD	36X36	1		
R2-1	SPEED LIMIT	36X48		21	
R2-6(ap)	FINES/DOUBLE	36X24	6		
R3-7r	MANDATORY MOVEMENT RIGHT	30X30	1		
R4-1	DO NOT PASS	36X48		2	
R11-2	ROAD/CLOSED	48X30		4	
R52-6a	BEGIN FINES DOUBLE IN WORK ZONE	36X48		7	
R52-6b	END FINES DOUBLE IN WORK ZONE	36X48		8	
W1-2l	HORIZONTAL ALIGNMENT LEFT	48X48		2	
W1-4BL	REVERSE CURVE	48X48		2	
W1-4l	REVERSE CURVE	48X48		1	
W1-6r	ONE-DIRECTION LARGE ARROW RIGHT	60X30		2	
W1-9-3a	MIDDLE LANE CLOSED	48X48		2	
W3-3	SIGNAL AHEAD	48X48		2	
W4-1r	MERGE RIGHT	48X48		1	
W5-1	ROAD NARROWS	48X48		2	
W5-2	BRIDGE NARROWS	48X48		2	
W9-2l	LANE ENDS MERGE LEFT	48X48		1	
W12-1	DOUBLE ARROW	36X36	1		
W16-2a	ADVANCE DISTANCE	30X24	8		
W20-1	ROAD WORK	48X48		8	
W21-5	SHOULDER WORK	48X48		2	
W24-1aL	DOUBLE REVERSE CURVE LEFT	48X48		5	
W24-1aR	DOUBLE REVERSE CURVE RIGHT	48X48		2	
PROJECT TOTALS			43	91	165

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Horiz. Scale: 1:30 Vert. Scale: As Noted	11/20/14	Qty change	GV								
 J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120			 Region 2		DTD						

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