WASHINGTON PARK
CITY DITCH IMPROVEMENTS
100% CONSTRUCTION DRAWINGS
OCTOBER 9TH, 2020
PROJECT NUMBER #: 2020-PROJMSTR-0000320, 2020-CIP-000173

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City and County of Denver
Parks and Recreation Department
Checked for General Compliance with applicable Denver Criteria, Plans, Specifications, and Standards.
APPROVED
APPROVED AS TO FORM
DRAWINGS AND DESIGN ADEQUACY ARE ACCEPTED BASED UPON THE PROJECT LANDSCAPE ARCHITECT’S ATTACHED SEAL OF REGISTRATION.

Approved by: Director of Planning                  Date
(Project Landscape Architect’s Professional Seal. Signature and Date)

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1. SURVEY PROVIDED BY JF SATO AND ASSOCIATES.
2. EXISTING CONTOUR INTERVAL IS 1 FOOT.
3. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF FIELD CONDITIONS VARY FROM SURVEY.
4. REFER TO CV1.0 FOR SURVEY INFORMATION.
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WASHINGTON PARK - CITY DITCH IMPROVEMENTS
CONSTRUCTION ACTIVITY STORMWATER MANAGEMENT PLAN
FOR REFERENCE ONLY

STANDARD NOTES FOR WATER QUALITY/NDDES
EROSION AND SEDIMENT CONTROL:

1. THE PERMITTEE AND/OR CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER PARTICULATE MATTER THAT MAY HAVE BEEN DEPOSSED OR ACCUMULATED IN THE FLOWING, STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAY OF THE CITY AND COUNTY OF DENVER AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER.

2. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM DRAINAGE SYSTEMS. ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER PARTICULATE MATTER THAT MAY HAVE BEEN DEPOSSED OR ACCUMULATED IN THE FLOWING, STORM DRAINAGE APPURTENANCES, AND PUBLIC RIGHTS OF WAY OF THE CITY AND COUNTY OF DENVER AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER. THE CONTRACTOR SHALL ADEQUATELY CLEAN UP THE DAMAGE AND CLEAN UP THE PROJECT SITE TO THE SATISFACTION OF ANY ADVERSE PARTY TO THE MUNICIPAL SEPARATE STORM DRAINAGE SYSTEM RECEIVING WATERS, WATERSHEDS, WATERS, AND/OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

3. SOIL STABILIZATION MEASURES SHALL BE IMPLEMENTED WITHIN FOURTEEN (14) DAYS FOLLOWING COMPLETION OF GRADING ACTIVITIES TO STABILIZE AREAS ADJOINING TO RECEIVING WATERS OR TO A DISTANCE OF 10 FT OR GREATER SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING COMPLETION OF GRADING ACTIVITIES. NOTE: PERMITS MAY REQUIRE STABILIZATION WITHIN TEN (10) DAYS OF COMPLETION OF GRADING ACTIVITIES. IN SUCH CASES, THE SHORTER TIMEFRAME SHALL APPLY TO PROJECTS WITHIN DENVER AS WELL.

4. THE DEVELOPER, GENERAL CONTRACTOR, GRADING CONTRACTOR, AND/OR THEIR AUTORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE SHALL BE COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT ON PUBLIC ROADS OR TRAFFIC (SEC. 64-612, REVISED MUNICIPAL CODE).

5. THE USE OF REBAR TO ANCHOR BEAK MANAGEMENT PRACTICES IS PROHIBITED. STEEL FENCE POSTS MAY BE USED ON A CASE BY CASE BASIS AND REQUIRE APPROVAL FROM THE CITY AND COUNTY OF DENVER, BEERER ON THE STORMWATER ENFORCEMENT INVESTIGATOR PRIOR TO INSTALLATION.

6. SOILS THAT WILL BE STORED FOR MORE THAN THIRTY (30) DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION WITHIN FOURTY-FOUR (44) DAYS OF STORM DRAINAGE SYSTEM CONSTRUCTION. STABILIZATION OF SOILS LOCATED WITHIN TEN FT OF RECEIVING WATERS, OR WITH A SURFACE AREA OF 0.1 FT OR GREATER SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING STORM DRAINAGE SYSTEM CONSTRUCTION. STABILIZATION AND PROTECTION OF THE STORM DRAINAGE SYSTEM MAY BE ACCOMPLISHED BY ONE OF THE FOLLOWING MEASURES: TEMPORARY PERMANENT STORMWATER RECAPTURE OPERATIONS, CHEMICALS, SOIL STABILIZER APPLICATION (REQUIRES SUBMITTAL), OR EROSION CONTROL. STABILIZATION OF SOILS IN LOCATED WITHIN TEN FT OF RECEIVING WATERS, OR A DRAINAGEWAY ON THE SITE PERIMETER. ADDITIONAL SEDIMENT CONTROLS SUCH AS DECKING, EROSION CONTROL, ETC. SHALL BE REQUIRED.

7. APPROVED EROSION AND SEDIMENT CONTROL "BEST MANAGEMENT PRACTICES" SHALL BE MAINTAINED AND KEPT IN GOOD ORDER FOR THE DURATION OF THE PROJECT. AT A MINIMUM, THE PERMITTEE OR CONTRACTOR SHALL PRODUCE AND RETAIN READILY AVAILABLE INSPECTION RECORDS FOR ALL BMPS AND AFTER SIGNIFICANT PREVENTION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY, AND EVENT STREET WEEPING TO BE COMPLETED BY THE CLOSE OF THE BUSINESS DAY OR ON AN AS NEEDED BASIS THROUGHOUT THE YEAR.

8. WATER USED IN THE CLEANING OF CONCRETE TRUCK DELIVERY HOSES SHALL BE DISCHARGED INTO A PERMITTED CONCRETE WASHOUT AREA ON THE JOB SITE. CONCRETE WOMAN OR COMMERCIAL AVAILABLE CONCRETE WASHOUT DEVICES THAT FULLY CONTAIN ALL WASH WATER AND RECLAIM ACCEPTABLE, WASH WATER-CONTAINING THE CONTAMINATED AREA OR DECK SHALL, BE ALLOWS TO INCREASE, Dewatered, AND OR BE DEPOSITED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. DREDGED WASTE IS TO BE REMOVED FROM THE CONTAMINATED AREA AND PROPERLY DISPOSING.

9. THE USE OF A PERMITTED CONCRETE WOMAN OR APPROVED CONCRETE WASHOUT EQUIPMENT IS REQUIRED. IT IS DUE TO THE PROJECT SITE, OR OF ANY OR ABOVE A MEANING TO PROVIDE APPROPRIATE CONCRETE WASHOUT DEVICES THAT FULLY CONTAIN ALL WASH WATER AND RECLAIM ACCEPTABLE, WASH WATER-CONTAINING THE CONTAMINATED AREA OR DECK SHALL, BE ALLOWS TO INCREASE, Dewatered, AND OR BE DEPOSITED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. DREDGED WASTE IS TO BE REMOVED FROM THE CONTAMINATED AREA AND PROPERLY DISPOSING.

10. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING SERIAL CUTTING, SAW CUTTING, OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DEPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS OR AS NEEDED THROUGHOUT THE WORK DAY.

11. THE EXCHANGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEMS IS PROHIBITED (SEC. 65-12A, C, REVISED MUNICIPAL CODE, CITY AND COUNTY OF DENVER).

12. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING SERIAL CUTTING, SAW CUTTING, OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DEPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS OR AS NEEDED THROUGHOUT THE WORK DAY.

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WASHING MACHINE / CITY OF DENVER DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE

100% CONSTRUCTION DOCUMENTS
CASM COVER
EC1.1

RECOMMENDED FOR CONSTRUCTION USE
CONSTRUCTION STAGING AREA, ASPHALT TO REMAIN DURING CONSTRUCTION AND REMOVE AT END OF PROJECT

SAWCUT EXISTING ASPHALT

CHAIN LINK FENCE TO BE REMOVED, ASPHALT TO REMAIN DURING REMOVED

EXISTING TREE, TO BE REMOVED, TYP.

LIMIT OF WORK

TREE PROTECTION ZONE, TYP.

CONCRETE SIDEWALK TO REMAIN

DENVER WATER FLUME AND EQUIPMENT TO REMAIN

BOULDER RIP RAP TO REMAIN

GRASMERE LAKE OVERFLOW STRUCTURE AND OUTFALL TO REMAIN

EXISTING CLAY PIPE WITH HEAD WALL TO BE REMOVED AND REPLACED

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BENCHMARK TO REMAIN

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BENCHMARK TO REMAIN

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LIMIT OF WORK

TREE PROTECTION ZONE, TYP.
TREE PROTECTION NOTES

1. Existing trees to be preserved in public right of way (ROW) or public place shall be protected per OCF standards and practices. Tree protection shall be:
   1.A. Installed prior to commencement of demolition and/or construction activities according to DEMOLITION LEGEND.
   1.B. Inspected and approved by OCF staff.
   1.C. Remain in place and as approved until certificate of occupancy or substantial completion and final acceptance is issued.

2. Tree protection requirements:
   2.A. Existing trees to be preserved in public right of way (ROW) or public place shall be protected per OCF standards and practices. Tree protection shall be:
   2.B. Installed six feet (6') chain link fencing prior to commencement of project construction activities.
   2.C. OCF staff shall inspect and approve boundaries of tree protection zones before commencement of demolition or construction activities.

3. Existing ROW or public place trees approved for removal by OCF must be protected in place until removed by an OCF-licensed tree contractor:
   3.A. An OCF tree removal permit is required.
   3.B. Tree removal permits are not included with building permits and/or plan approval and must be obtained separately from the OCF.
   3.C. Failure to protect trees until removal or removing without a OCF-issued permit will result in notice of violation and/or may include citations/fines.

4. Clear visibility into TPZ must be maintained. All construction banners, screens, barriers, and/or signs (except OCF-posted TPZ signs) must be semi-transparent and not impede inspection of TPZ by OCF staff.

5. For projects with a duration of 5 days or longer:
   5.A. Protected trees shall be deep-root watered at a minimum interval of once per week when temperatures are at or above 40-degrees F.
   5.B. Trees shall be watered at the rate of 20 gallons per inch caliper.
   5.C. Insect and disease treatments shall be applied when necessary or as ordered by OCF.

6. OCF may ask for documented proof of watering and/or treatment.

NOTES

1. Reference general notes CV1.1 for demolition notes.
TREE PROTECTION NOTES

1. EXISTING TREES TO BE PRESERVED IN PUBLIC RIGHT OF WAY (ROW) OR PUBLIC PLACE SHALL BE
   PROTECTED PER OCF STANDARDS AND PRACTICES. TREE PROTECTION SHALL BE:
   A. INSTALLED PRIOR TO COMMENCEMENT OF DEMOLITION AND/OR CONSTRUCTION ACTIVITIES
   B. INSPECTED AND APPROVED BY OCF STAFF.
   C. REMAIN IN PLACE AND AS APPROVED UNTIL CERTIFICATE OF OCCUPANCY OR SUBSTANTIAL
   COMPLETION AND FINAL ACCEPTANCE IS ISSUED.

2. TREE PROTECTION REQUIREMENTS:
   A. TREE PROTECTION ZONE (TPZ) SHALL BE INSTALLED AT THE DRIPLINE, FURTHEST EXTENT OF
      TREE CANOPY, OR IS EQUAL TO EIGHTEEN INCHES RADIALLY FROM THE TREE FOR EVERY
      ONE INCH OF TRUNK DIAMETER AT BREAST HEIGHT (DBH = 4.5' ABOVE SOIL LINE). WHICHSOEVER
      IS GREATER.
   B. INSTALL SIX FOOT (6') CHAIN LINK FENCING PRIOR TO COMMENCEMENT OF PROJECT
      CONSTRUCTION ACTIVITIES.
   C. OCF STAFF SHALL INSPECT AND APPROVE BOUNDARIES OF TREE PROTECTION ZONE(S)
      PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION ACTIVITIES.
   D. ONCE TPZ IS IN PLACE, THE FOLLOWING ARE NOT PERMITTED WITHIN TPZ WITHOUT PRIOR
      WRITTEN APPROVAL FROM OCF:
      1. ENTRANCE AND/OR ACCESS.
      2. MOVING, RESETTING, REMOVING OR ALTERING IN ANY MANNER.
      3. STORAGE OF MATERIALS/EQUIPMENT.
   E. "TREE PROTECTION ZONE" SIGNS SHALL REMAIN IN PLACE AS POSTED BY OCF AND SHALL BE
      REMOVED, TYP.
   F. TREE PRUNING FOR CLEARANCE ISSUES MUST HAVE PRIOR AUTHORIZATION BY OCF STAFF.
   G. NO ROOT 2 INCHES OR LARGER SHALL BE CUT; CONSULT WITH OCF STAFF.

3. EXISTING ROW OR PUBLIC PLACE TREES APPROVED FOR REMOVAL BY OCF MUST BE PROTECTED
   IN PLACE UNTIL REMOVED BY AN OCF-LICENSED TREE CONTRACTOR:
   A. AN OCF TREE REMOVAL PERMIT IS REQUIRED.
   B. TREE REMOVAL PERMITS ARE NOT INCLUDED WITH BUILDING PERMITS AND/OR PLAN
      APPROVAL AND MUST BE OBTAINED SEPARATELY FROM THE OCF.
   C. FAILURE TO PROTECT TREES UNTIL REMOVAL OR REMOVING WITHOUT A OCF-ISSUED PERMIT
      WILL RESULT IN NOTICE OF VIOLATION AND/OR MAY INCLUDE CITATIONS/FINES.

4. CLEAR VISIBILITY INTO TPZ MUST BE MAINTAINED. ALL CONSTRUCTION BANNERS, SCREENS,
   BARRIERS, AND/OR SIGNS (EXCEPT OCF-POSTED TPZ SIGNS) MUST BE SEMI-TRANSPARENT AND
   NOT IMPEDING INSPECTION OF TPZ BY OCF STAFF.

5. FOR PROJECTS WITH A DURATION OF 5 DAYS OR LONGER:
   A. PROTECTED TREES SHALL BE DEEP-ROOT WATERED AT A MINIMUM INTERVAL OF ONCE PER
      WEEK WHEN TEMPERATURES ARE AT OR ABOVE 40-DEGREES F.
   B. TREES SHALL BE WATERED AT THE RATE OF 20 GALLONS PER INCH CALIPER.
   C. INSECT AND DISEASE TREATMENTS SHALL BE APPLIED WHEN NECESSARY OR AS ORDERED
      BY OCF.
   D. OCF MAY ASK FOR DOCUMENTED PROOF OF WATERING AND/OR TREATMENT.

NOTES

1. REFERENCE GENERAL NOTES CV1.1 FOR DEMOLITION NOTES.

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</table>

DEMOLITION LEGEND

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- LANDSCAPE TO BE REMOVED
- LANDSCAPE TO BE REMOVED-BID ALT
- EXISTING COURT TO BE REMOVED
- EXISTING WATER EDGE
- TREE PROTECTION FENCE - ORANGE PLASTIC SAFETY FENCING
- TREE PROTECTION FENCE - GRASS
- CONSTRUCTION FENCE / TREE PROTECTION FENCE (CHAIN LINK)
- ASPHALT CONNECTION TO BRIDGE
- IRIGATION PIPE TO BE CAPPED
- IRIGATION PIPE TO BE CAPPED AND REMOVED, TYP.
- ASPHALT CONNECTION TO BRIDGE AND REMOVED, TYP.
- SAWCUT ASPHALT
- BRIDGE "X" AND ABUTMENT WALLS TO BE REMOVED
- EXISTING TREE, TYP.
- EXISTING TREE TO BE REMOVED
NOTES:
1. REFER TO SPECIFICATIONS FOR ALL MATERIALS CALLED OUT IN DETAILS.
2. LOCATE EXPANSION JOINTS EVERY 120' MAXIMUM, OR AS SHOWN ON THE PLAN.

01 CONCRETE PAVING

RE: PLAN FOR ADJACENT CONDITIONS

CRUSHER FINES PATH

02

EROSION CONTROL BLANKET EXTENDED TO THE TOP OF THE BANK & ANCHORED ENDS (GROWMIX CFR-200 100% CORR FIBER OR APPROVED EQUAL)

ENGRAINED ARMOR MIX

04

NOTES:
1. REFER TO SPECIFICATIONS FOR ALL MATERIALS CALLED OUT IN DETAIL.

WASHINGTON PARK CITY DITCH IMPROVEMENTS

Denver, Colorado
01 STONE STEPS & STONE VENEER WALL @ MOUNT VERNON GARDEN

- EXISTING CONCRETE WALK
- STONE STEPS & STEPS SLOPED TO DRAIN. 1/4" PER 1', TYP.
- CONCRETE FOOTER, RE-STRUCTURAL
- GEOTEXTILE FABRIC

- NOTE: STONE TO MATCH EXISTING RED SANDSTONE AT MOUNT VERNON GARDENS.
- CONTRACTOR SHALL VERIFY STAIR ELEVATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

- TYP. 1'-2"
- MIN.
- TYP. 3'-0"

02 STONE TERRACE

- EXISTING CONCRETE WALK
- COMPACTED BASE COURSE, TYP.
- CONCRETE FOOTER, RE-STRUCTURAL

- NOTE: TYP. 2"
- TYP. 2"
- TYP. 2" THICK STACKED STONE SLABS (TYP.)
- LEAN 1/8 COLLOIDAL CONCRETE IN LIFTS NO GREATER THAN THE HEIGHT OF EACH STEP (4 POURS) AFTER STEP IS PLACED.

03 GOOSE FENCE

- BURY STONE 2" BELOW F.G.
- ADJACENT SLOPED LANDSCAPE

- NOTE: TYP. STONE VENEER WALL BEYOND FLUSH
- BURY STONE 2" BELOW F.G.
- ADJACENT SLOPED LANDSCAPE

- TYP. CONCRETE CORE WALL, RE-STRUCTURAL
- CONCRETE PAVING
- CONCRETE FOOTER, RE-STRUCTURAL

- TYP. SANDSTONE CAPSTONE
- STONE VENEER
- CONCRETE CORE
- WALL FOOTER, RE-STRUCTURAL

- TYP. EXISTING CONCRETE WALK
- BURY STONE 2" BELOW F.G.
- ADJACENT SLOPED LANDSCAPE

- TYP. CONCRETE CORE WALL RE-STRUCTURAL

- GOOSE FENCE

- BURY STONE 2" BELOW F.G.
- ADJACENT SLOPED LANDSCAPE

- TYP. CONCRETE CORE WALL RE-STRUCTURAL

- GOOSE FENCE

- BURY STONE 2" BELOW F.G.
- ADJACENT SLOPED LANDSCAPE

- TYP. CONCRETE CORE WALL RE-STRUCTURAL

- NOTES:
- REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.
- FENCING SHALL BE "ORANGE PLASTIC SAFETY FENCING" MIN. 48" IN HEIGHT, TOP SECURED TO METAL T-POSTS WITH 12-GAUGE WIRE WOVEN THROUGH TOP OF FENCING FOR ENTIRE LENGTH.
- HEAVY DUTY T-POSTS SHALL BE PLACED SO THAT WIRE AND FENCE ARE TAUT.

- TYP. METAL T POST, TYP.
- 12-GAUGE WIRE, TYP.
- ORANGE PLASTIC SAFETY FENCING, TYP.
Prune only broken and dead wood from canopy per industry best practices. Use a 12" nylon tree strap with grommets on guy wire. Do not twist straps too tight. Use a 1/2" diameter white PVC pipe section on entire length of each wire. Use 14-Gauge galvanized wire, double strand. Leave 1" to 2" slack in wire to account for windward side and other opposite. Install posts to 2' depth in undisturbed subgrade, and add safety caps. Other staking methods must be pre-approved.

Deciduous Tree Fall Planting: Wrap trunk to first branch with specified tree wrap material. Secure at top with masking tape. Do not wrap rough bark trees. Remove trunk wrap in spring after the last frost.

Flare to top of first order roots. Set top of root flare/first order roots at or 1" to 2" above finish grade. Prune adventitious roots on trunk. Prune to a diameter or to outer edge of planting hole, whichever is greater. Use native soil or amended per soil test recommendations.

Form a 2" high soil saucer around planting hole at outside of transition zone. Finish Grade. Prior to digging, the Utility Notification Center of Colorado shall be contacted at 811 to locate underground utilities.

A planting permit from the Office of the City Forester (OCF) is required at all times, regardless of approved plans. Penalties shall be issued for trees planted without an OCF issued permit.

Tree planting shall not occur when daytime temperatures reach or exceed 90-degrees Fahrenheit, unless approved by OCF.

In general, all tree planting should be performed avoiding the hottest part of the day.

Only tree species approved by the OCF shall be planted. For a list of prohibited or suspended trees, visit the OCF website.

Trees shall not be planted in tree lawns less than five feet wide unless authorized by the OCF.

Trees shall be centered in tree lawns and/or planting areas. Where sidewalks are not present, trees shall be located as designated by the OCF.

Unless authorized by the OCF, trees shall be located:
- Outside street intersection sight distance triangle, measured 30 (thirty) feet along the Public Right of Way (PRW) in each direction from the corner.
- Min. 10 (Ten) feet from alleys and driveways.
- Min. 20 (Twenty) feet from stop signs and curb ramps.
- Min. 25 (Twenty-five) feet from street lights.
- Min. 15 (Fifteen) feet from small cell towers.
- Min. 8 (Eight) feet from RTD light rail lines.

If overhead utility wires exist, only trees with an expected mature size that meet current clearance regulations may be planted.

Hand spread wood mulch may be used to protect the root ball and help retain moisture. Contractor may obtain mulch from City Forestry Department. Reuse at site after construction & no longer necessary. Coordinate with owner's representative.

Tree spacing shall be based on projected mature canopy size and above restrictions, or as approved by the OCF.

All electric fixtures and utilities, including but not limited to outlets and lights, shall be located at outside perimeter of tree planting areas within hardscape. In tree lawns, fixtures shall be placed minimum 3 (three) feet radially from base of trunk.

When planting is completed, contact Forestry@denvergov.org for final inspection.

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# 7 - BRIDGE S

**Description**
Pedestrian Bridge  
Concrete Slab without Wingwalls

**Deficiencies**
Embankment erosion at bridges corners

**Recommendations**
Place vegetated or hard edged erosion control at bridge corners

**Estimated Minimum Repair Cost**
$0
#6 - BRIDGE V

**Description**
Pedestrian bridge  
Steel Joists with wood deck  
Slots for gate installation on east end

**Deficiencies**
Scour holes at ends of wingwalls

**Recommendations**
Provide vegetated or hard edged erosion control at ends of Wingwalls  
Clean debris from bearing seats  
Place bearing seat protection on sides of abutments to deter debris accumulation

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<th>Estimated Minimum Repair Cost</th>
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#4 - BRIDGE X

**Description**
Pedestrian bridge
Steel joists with wood deck

**Deficiencies**
Scour pockets at northeast corner
Poor steel joists detailing
Accumulation of debris at bearing seats
Utility is a possible debris catch

**Recommendations**
Place vegetated or hard edged erosion control along ditch banks
Construct concrete abutments under the lower chords of steel joists
Raise utility to above bridge lower chord

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Appendix I - 11
#4 - BRIDGE X

**Description**

Pedestrian bridge  
Steel joists with wood deck

**Deficiencies**

Scour pockets at northeast corner  
Poor steel joists detailing  
Accumulation of debris at bearing seats  
Utility is a possible debris catch

**Recommendations**

Place vegetated or hard edged erosion control along ditch banks  
Construct concrete abutments under the lower chords of steel joists  
Raise utility to above bridge lower chord

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<td>$4,500</td>
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</table>
Landmark Preservation Comments/Responses

- Photographs of the existing site – each section of the ditch that will be part of this project, as well as photos of the one bridge to remain (S) and the three bridges to be replaced (V, W, X)? See attached photos from the Washington Park – City Ditch Restoration Improvements Assessment and Recommendations report from July 2009

- On sheet S2.1, could you provide material info for the stanchions? Are they metal, concrete, stone?
  The stanchions are concrete and are to match the Bridge S

- Could you provide a cut sheet or photograph of the proposed stone material for the stone terraces?
  The stone will be a red sandstone to match previous improved phases along City Ditch to the north and east in Washington Park. In the attached photos, these are from the Downing Street phase where we reused the red sandstone slabs from areas along the ditch that were using the stone to stop erosion along the banks.

- And a question about the plastic goose fence: will it be up all year long?
  Goose fencing will remain up year round for at least one year