1. Construction shall be in conformance with the specifications and details listed below:

- PAG Standard Specifications for Public Improvements, Volume 1 2015 Edition
- PAG Standard Details for Public Improvements, Volume 2 2015 Edition
- Pima County Natural Resources Parks and Recreation Department Standard Specifications and Details for Construction, 2016 Edition
- Pima County and City of Tucson Permitting and Design Manual, 2016 Edition
- Arizona Department of Transportation Standard Specifications for Roads and Bridges, Construction 2008 Edition
- Arizona Department of Transportation, Construction Standard Drawings, 2012 Edition

2. Asphalt concrete shall conform to PSSP Section 406.

3. Contractor shall comply with all applicable occupational safety and health administration regulations.

4. Contractor must obtain all permits required by governmental agencies before undertaking grading or construction work of any type within the public right-of-way.

5. A sealed and approved set of these plans shall be kept in an easily accessible location on the site at all times during construction.

6. Upon commencement of work, traffic control devices shall be posted and maintained by the Contractor until such time as the work is completed. All warning signs, barricades and traffic control devices shall be in conformance with the Manual of Uniform Traffic Control Devices 2009 (MUTCD 2009).

7. Utility locations shown on these plans were compiled based on project survey and mapping received from utility providers. Utility locations which are not specifically identified with actual utility locations are located approximately based on the best available information. Utility locations are not intended to be exact or complete. Prior to commencing construction, the Contractor shall verify the location of all utilities with the appropriate organizations. Contact "Blue Stake" at 1-800-762-5348 two full working days prior to beginning construction.

8. All staking is along the roadway construction baseline.

9. It is the Contractor's responsibility to maintain safe and reasonable access for pedestrians, emergency vehicles, and for vehicles servicing street lines, curb access ramps, walks, sidewalks, and any other Improvements damaged during construction. It is the responsibility of the Contractor to repair all damages caused by the Contractor. Any improvements damaged shall be repaired by the Contractor at no cost to the City.

10. Removal of cacti and other native plants shall be in accordance with the provisions of the Arizona Native Plant Law, SRS Chapter 7, January 1991.

11. Should conditions exist which are contrary to those shown on the plans, the City's plans shall not, in any way, relieve the Contractor and/or his/her subcontractors of their obligation to perform the work in conformance with the plans, specifications, contract documents, codes, and any other applicable regulations pertaining thereto.

12. The Contractor shall operate in a manner compliant with all applicable regulations of the City, County, State, and Federal Government.

13. Quantities, as shown on the bid schedule are estimated and the Contractor is advised that the final quantities of materials and work in place may differ from those indicated in the bid schedule.

14. Contractor shall verify all existing conditions and dimensions before starting work. Should conditions differ to those shown on the plans, the City’s Representative shall be notified prior to proceeding with the work.

15. At all times the Contractor shall maintain access to all driveways and culverts, and access through lane in either direction.

16. The Contractor shall call TOOT Landscape Architect, Gary Wittwer at (520) 837-6618 for information regarding dust pollution.

17. The Contractor shall obtain all necessary permits, or shall receive all necessary permits, before beginning the work. The Contractor shall be responsible for the proper maintenance and/or removal of all permits required for the work. Where work will cross public streets, the clear limit is necessary, the Contractor shall contact Tucson Electric Power (TEP) 10 days in advance of the proposed work, to arrange for temporary deactivation, or other measures deemed necessary to permit safe operation near overhead lines. The Contractor shall contact the TEP 10 working days in advance to arrange for bracing, installation, or removal. The Contractor shall provide driveable access to all TEP poles, cables, and facilities. Refer to www.tep.com, under Standard Details. Survey, equipment, or clearance shall be done in accordance with MUTCD 2009.

18. Aggregate base course shall conform to PSSP, Section 303.

19. It is the Contractor’s responsibility to furnish, haul, and apply all water required for compaction and for the control of dust from construction activity. The cost thereof is to be included in the estimate of the individual project.

20. Inspection by the City or the City’s Representative of the work called for on the plans shall not, in any way, relieve the Contractor and/or his/her subcontractors of their obligation to perform the work in conformance with the plans, specifications, contract documents, codes, and any other applicable regulations pertaining thereto.

21. The Contractor shall operate in a manner compliant with all applicable regulations of the City, County, State, and Federal Government.

22. Quantities, as shown on the bid schedule are estimated and the Contractor is advised that the final quantities of materials and work in place may differ from those indicated in the bid schedule.

23. Contractor shall verify all existing conditions and dimensions before starting work. Should conditions differ to those shown on the plans, the City’s Representative shall be notified prior to proceeding with the work.

24. All elevations, alignments, and distances given shall be verified by an Arizona registered Land Surveyor before construction.

25. At all times the Contractor shall maintain access to all driveways and culverts, and access through lane in either direction.

26. The Contractor shall call TOOT Landscape Architect, Gary Wittwer at (520) 837-6618 prior to removal of landscape plants or irrigation lines not shown on these plans. The City’s Representative shall be notified prior to proceeding with the work.

27. Access shall be provided to all businesses, residences, and street sidewalks at all times except when approved by the Engineer.

28. The Contractor shall comply with all regulations and requests by the Engineer regarding dust pollution.

29. Adjacent streets, curbs, and any other improvements shall be protected from any damage not caused by the Contractor.

30. Support and protection is required for all CenturyLink facilities during excavation. The relocation of CenturyLink facilities (or tie-ins) such as light poles by contacting Richard Rosoli at (520) 837-6801.

31. The Contractor must contact Southwest Gas for adjusting valves at least two weeks prior to the start of construction to arrange for temporary shut downs.

32. The warrantee and guarantee duration for all water work on this project is the same duration for the water system construction.

33. The Contractor shall contact Tucson Electric Power (TEP) 10 working days in advance for an estimate of the work to be performed to provide power service.

34. The Contractor shall not operate earth moving equipment and/or load carried by the equipment can reach to within fifteen (15) feet of active overhead or underground power lines rated at or under 50 kilovolts (kV). Greater clearances above power lines shall be arranged in advance of work to be done near power lines.

35. The following applies to work being done in close proximity to CenturyLink facilities. Support and protection is required for all CenturyLink facilities during construction. Blue staking for location of CenturyLink facilities must be completed prior to construction. Work with CenturyLink facilities requires two (2) years’ working days in advance of the final acceptance of the project.

36. Existing trees and other plants on adjacent private property may have overhanging branches that could be damaged during construction. Any damage caused during construction shall be replaced by the Contractor at no cost to the City. Any underground pipes, irrigation lines, irrigation controls, drains, structures, or obstructions designated by the City’s Representative shall be removed from project site by the Contractor.

37. The Contractor shall contact Southwest Gas for adjusting valves at least two weeks prior to the start of construction to arrange for temporary shut downs.

38. The Contractor shall not operate earth moving equipment and/or load carried by the equipment can reach to within fifteen (15) feet of active overhead or underground power lines rated at or under 50 kilovolts (kV). Greater clearances above power lines shall be arranged in advance of work to be done near power lines.

39. Support and protection is required for all CenturyLink facilities during excavation. The relocation of CenturyLink facilities (or tie-ins) such as light poles by contacting Richard Rosoli at (520) 837-6801.

40. The Contractor must contact Southwest Gas for adjusting valves at least two weeks prior to the start of construction to arrange for temporary shut downs.

41. The Contractor shall not operate earth moving equipment and/or load carried by the equipment can reach to within fifteen (15) feet of active overhead or underground power lines rated at or under 50 kilovolts (kV). Greater clearances above power lines shall be arranged in advance of work to be done near power lines.

42. Support and protection is required for all CenturyLink facilities during excavation. The relocation of CenturyLink facilities (or tie-ins) such as light poles by contacting Richard Rosoli at (520) 837-6801.

43. The warrantee and guarantee duration for all water work on this project is the same duration for the water system construction.

44. The Contractor shall contact Tucson Electric Power (TEP) 10 working days in advance for an estimate of the work to be performed to provide power service.

45. The Contractor shall not operate earth moving equipment and/or load carried by the equipment can reach to within fifteen (15) feet of active overhead or underground power lines rated at or under 50 kilovolts (kV). Greater clearances above power lines shall be arranged in advance of work to be done near power lines.

46. Support and protection is required for all CenturyLink facilities during excavation. The relocation of CenturyLink facilities (or tie-ins) such as light poles by contacting Richard Rosoli at (520) 837-6801.

47. The Contractor must contact Southwest Gas for adjusting valves at least two weeks prior to the start of construction to arrange for temporary shut downs.

48. The Contractor shall not operate earth moving equipment and/or load carried by the equipment can reach to within fifteen (15) feet of active overhead or underground power lines rated at or under 50 kilovolts (kV). Greater clearances above power lines shall be arranged in advance of work to be done near power lines.

49. Support and protection is required for all CenturyLink facilities during excavation. The relocation of CenturyLink facilities (or tie-ins) such as light poles by contacting Richard Rosoli at (520) 837-6801.
GENERAL WATER NOTES (CONT):

6. Water Meters and Water Boxes. The Contractor shall be responsible for all water meters and meter boxes affected by the work. This will include and be not limited to:
   A. Removal of existing meters, replacement coordination and installation of the new automatic meter reading (AMR) water meters.
   B. During the installation of water meters, a contractor must be on sight and all work must be coordinated with Tucson Water. All work that is performed on the water meters must be in accordance with the Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.
   C. All existing meters must be removed and replaced with new AMR meters as per the approved Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.
   D. All existing water meters must be removed and replaced with new AMR meters as per the approved Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.
   E. All existing water meters must be removed and replaced with new AMR meters as per the approved Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.

7. Fire Hydrant Shut Downs. Five (5) working days prior to shutting down of any fire hydrants or fire protection service lines the Contractor shall notify the City of Tucson Water Department Construction Inspector with a written report indicating the locations and dates of the fire protection service shut-downs. The Contractor shall notify the City of Tucson Water Department Construction Inspector when fire hydrants or fire protection services are back in service.

8. Existing Sign Posts. The Contractor shall be responsible for maintaining service to all water customers during construction. It shall be the Contractor’s responsibility to determine which services will be affected by this project. It may be necessary to accommodate the shutdown of a water system in order to complete the shutdowns. The Contractor shall be responsible for any damage to public sanitary sewer system, or the dropping of debris into a sanitary sewer system. A contractor notification shall be given to the City of Tucson prior to any work being performed in the sanitary sewer system. The Contractor shall be responsible for all costs to repair the system, including the release of sewage, the release of the sewer areas, and any regulatory permits. The City of Tucson shall be responsible for any damage as approved and directed by the City of Tucson Field Inspector.

9. Fire Protection Shut Down. Five (5) working days prior to shutting down of any fire hydrants or fire protection service lines the Contractor shall notify the City of Tucson Water Department Construction Inspector with a written report indicating the locations and dates of the fire protection service shut-downs. The Contractor shall notify the City of Tucson Water Department Construction Inspector when fire hydrants or fire protection services are back in service.

10. Water Meters and Meter Boxes. The Contractor shall be responsible for all water meters and meter boxes affected by the work. This will include and be not limited to:
   A. Removal of existing meters, replacement coordination and installation of the new automatic meter reading (AMR) water meters.
   B. During the installation of water meters, a contractor must be on sight and all work must be coordinated with Tucson Water. All work that is performed on the water meters must be in accordance with the Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.
   C. All existing meters must be removed and replaced with new AMR meters as per the approved Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.
   D. All existing water meters must be removed and replaced with new AMR meters as per the approved Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.
   E. All existing water meters must be removed and replaced with new AMR meters as per the approved Water Metering Procedures and Water Billing Policies. All water meters must be installed by a qualified installer.

11. Lead Free. The Contractor shall furnish and install all water meters, fittings, and appurtenances that are to be lead-free in accordance with the Safe Drinking Water Act of 2011 (amending Section 1417 of the Safe Drinking Water Act).
**Pavement Marking General Notes:**

1. All equipment/materials and construction shall meet or exceed the requirements contained in the current City of Tucson / Pima County (COT/PC) Standard Specifications and the Standard Details for Public Improvements, the special provisions, and the approved plans. All pavement markings shall be installed in accordance with the COT/PC Pavement Marking Design Manual.

2. The striping Contractor shall contact [John Swartz (520-791-4559)](mailto:john.swartz@tucsonaz.gov) at least three working days in advance of any pavement marking installation to schedule inspection and approval of pavement marking layout.

3. A meeting with the inspector and traffic engineering designate shall be scheduled to go over striping plans and striping changes a minimum of 48 hours in advance of striping activity on each sheet.

4. The permanent pavement markings may be modified as directed by the traffic engineer and approved by the COT project engineer or their designee.

5. The posted speed for Glenn Street is 30 mph.

6. All lane dimensions are measured from the center of lane line, center of double lane line, or face of curb unless otherwise noted.

7. The pavement marking drawings are schematic only. The Contractor shall follow all dimensions, applicable marking details, and specifications of the City of Tucson standards when installing pavement striping, symbols, legends, and markers.

8. Obliteration should be conducted to minimize the amount of striping layout that is needed. Temporary striping shall be made on a slightly higher, if necessary, in lieu of vertical panels or chip seal markers. Temporary paint shall be 15 mil (0.015") thick water-based paint placed on the three previous pavement surfaces. Temporary paint not required for "holder" striping on high visibility crosswalks.

9. Symbols and legends shall not be applied as temporary traffic control, unless directed by the traffic engineer.

10. The final longitudinal striping shall be 30 mil (0.030") thick extruded or ribbon thermoplastic retroreflective striping placed over the painted lane striping within 24 to 30 calendar days of the final pavement surface being completed. All previously exempted longitudinal markings shall be applied during the final longitudinal striping.

11. All thermoplastic striping shall be 60 mil (0.060") extruded thermoplastic. All thermoplastic symbols and legends shall be Type I preferred plastic pavement markings.

12. The Contractor shall be responsible for the layout and installation of parking markings.

13. It is the Contractor's responsibility to ensure that the final surface course is placed so that the construction joint is no more than one foot offset from the final striping.

14. All relevant pavement markers (RPMs) shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow. Type C pavement markers shall be installed so that the reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow.

15. All relevant pavement markers (RPMs) shall be installed per the current edition of the COT/PC pavement marking manual.

16. Blue raised pavement markers shall be placed adjacent to the crosswalks as shown on sheet 1-1 of the COT/PC Pavement Marking Design Manual. Cost considered included in project bid items.

17. All removal of existing pavement markings shall be accomplished in accordance with Section 701 of the PCC Standard Specifications. Painting over existing striping does not constitute approved striping obliteration.

18. Unless otherwise noted, all pavement markings shall be installed by the Contractor.

19. The Contractor shall be responsible for maintaining all striping until project is approved for "construction occupation" by the City of Tucson fully open to traffic, all punch list items are completed, and one year warranties begin.
The survey was performed using Global Positioning System (GPS) survey equipment, a GPS horizontal control was established offsite, and the data was used to create the final product. The survey was performed using a GPS receiver, and the data was then transferred to a computer for processing. The final product was then reviewed and approved by the project manager. The data was then sent to the client for review and approval. The client then approved the final product, and the project was closed.
**NOTES:**

1. **Record drawing existing structural section is 1" AC (Mix No. 3) on 4" AB. Contractor shall verify in field. Proposed structural section is 2" AC (Mix No. 3) 12' - 2.5" lifts with tack coat.**

2. **Existing curb to remain, unless otherwise noted. See plans for locations.**

3. **Sawcut lines not shown on plans for clarity.**

4. **See plans for lane transitions.**

5. **Match existing slope, approximately 2%.**

6. **See plans for lane geometry required at taper locations.**

7. **See plans for tapered buffer yards.**

**SIDEWALK AND CURB TYPICAL SECTION**

**TYPICAL SECTION**

*See plans for lane transitions.*

**MISCELLANEOUS EARTHWORK QUANTITIES**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Excavation (Driveways)</strong></td>
<td>75 CY</td>
</tr>
<tr>
<td><strong>Embankment (Buffer Yards)</strong></td>
<td>78 CY</td>
</tr>
</tbody>
</table>

**EARTHWORK NOTES:**

**Driveaway Earthwork to be paid for under Bid Item 2005003 Roadway Grading (Driveaways).**

**Buffer Yard Earthwork to be paid for under Bid Item 2005004 Rip and Reshape (Buffer Yards).**

Borrow material considered included in Bid Item. Approximate raw values are presented for information only. Excavated material for sidewalk not quantified in Earthwork table.
**Detail A1**

**Driveway Type A**

- **Driveway Control Station**
- **Existing Vertical Curb**
- **Existing Depressed Curb**

**Profile**

- **NOTES:**
  1. See staking sheets for dimensions and control point information.
  2. Driveway control point stations and widths are approximate. Contractor shall field verify the location and width of all driveways.
  3. For information not shown see PAC Std. Dtl. 206.
  4. Concrete driveway apron shall be paid under item #9080301.
  5. At paved driveways, sawcut and provide clean edge at back of driveway apron.

**Section A-A**

- **NOTES:**
  1. See staking sheets for dimensions and control point information.
  2. Driveway control point stations and widths are approximate. Contractor shall field verify the location and width of all driveways.
  3. For information not shown see PAC Std. Dtl. 206.
  4. 6' Thick Concrete shall be paid under item #9080303.

---

**Detail A2**

**Driveway Type B**

- **Driveway Control Station**
- **Existing Vertical Curb**
- **Existing Depressed Curb**

**NOTES:**

1. See staking sheets for dimensions and control point information.
2. Driveway control point stations and widths are approximate. Contractor shall field verify the location and width of all driveways.
3. For information not shown see PAC Std. Dtl. 206.
4. 6' Thick Concrete shall be paid under item #9080303.
NOTES:

1. Rip existing sub-base to depth specified prior to installation of curb. Rip and reshaping buffer yards to be paid under bid item #2050004.

2. Percolation test shall be conducted at each buffer yard location. See Special Provisions.

SECTION A-A

Buffer Yard Control Station

SECTION B-B

Buffer Yard Control Station

DETAIL B1

DETAIL B2

BUFFER YARD TYPE A

BUFFER YARD TYPE B

Remove Existing AC (5"

Remove Existing AC (5"

Hydroseed in Desert Cobble, Typ.

Hydroseed in Desert Cobble, Typ.

2' Concrete Curb Terminal Section
Per Detail D

2' Concrete Curb Terminal Section
Per Detail D

Concrete Header 6"x12"
Per PAG Std DM 213

Concrete Header 6"x12"
Per PAG Std DM 213

Rip 6'

Rip 6'

See Note 1

See Note 1

Scattered

Scattered

2"-4" Desert Cobble, 50% to 75% Coverage Scattered, Roadway

2"-4" Desert Cobble, 50% to 75% Coverage Scattered, Roadway

 existed Curb

 existed Curb

Meander flowline, Contractor to layout proposed flowline for approval by COT Landscape Architect prior to installation.

Meander flowline, Contractor to layout proposed flowline for approval by COT Landscape Architect prior to installation.
## Water Modifications Bid Schedule Material Quantities Summary

| Item Number | Item Description            | Sheet W7 | Sheet W8 | Sheet W9 | Sheet W10 | Sheet W11 | Sheet W12 | Sheet W13 | Sheet W14 | Sheet W15 | Sheet W16 | Totals |
|-------------|------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|        |
| 5108124     | POTABLE WATER, METER        |          |          |          |           |           |           |           |           |           |           |        |

### Miscellaneous Details and Material Quantities Summary

**Kimley-Horn**

1121 N. Congress Pl.
Suite 280
Tucson, AZ 85705
(520) 615-9191 Fax (602) 944-7423
NOTE: Per SD 309 Sheet 15, the cost of adjusting water meter boxes (M/B) shall be incidental to the cost of the project.

Not to Scale

** Meter Box in Hardscaped Areas

1. THE CONCRETE COLLAR MAY BE EXTENDED TO THE MAXIMUMS SHOWN TO COORDINATE WITH THE FINISHED SURFACE TREATMENT MODULE.
CONSTRUCTION NOTES:
1. Parking Capacitation and Signage
2. Concrete Sidewalk
3. 6" Thick Concrete
4. See Detail A2
5. See Details B1 and B2
6. Sidewalk Ramp
7. Refresh Pavement Arrows and Legends
8. Install New Bike Arrow and Legend
9. New Sign Post (Perforated) and Foundation for Sign Post (Perforated)
10. New Street Light and Sign Post (Perforated) and Foundation for Sign Post (Perforated)

DEMOliaTIONS:
1. Remove Existing 4C Pavement
2. Remove Existing Concrete Curb
3. Remove Existing Curb
4. Replace Existing Sign Post
5. Relocate Existing Mailbox

UTILITY NOTES:
1. Remove and Relocate Existing Street Light
2. See Staking Sheets for New Street Light Location
3. See Staking Sheets for New Street Light Location
4. Existing RBCU or Custom Mailbox

GENERAL NOTES:
1. All power poles and street light poles to remain in place unless otherwise noted
2. See staking sheets for control of curb returns, manholes and sidewalks
3. All water valves in pavement to be protected in place
4. Existing RBCU or Custom Mailbox to remain unless otherwise noted
PART 1 - To be completed by the Landscape Architect or Design Engineer

I. PROJECT DESCRIPTION
A. Owner, Name and Address:
   City of Tucson Address:
   Department of Transportation
   201 North Stone Ave.
   Tucson, Arizona 85719
B. Project TRACS Number:
   Project Number: 201 North Stone Ave.
C. Project Location:
   Glenn Street
D. Beginning Longitude (NAD 83):
   110° 54' 4.3" W
E. Ending Longitude (NAD 83):
   110° 54' 4.3" W
F. City:
   Tucson
G. County:
   Pima
H. Beginning Latitude (NAD 83):
   32° 15' 28.3" N
I. Ending Latitude (NAD 83):
   32° 15' 28.3" N
II. HYDROLOGIC INFORMATION
A. Project Size:
   Area (Ac.):
   5.2
B. Area to be Graded:
   1.1
C. Slope of the shoulder/bulkhead area:
   1.1
D. Erosion Protection:
   1.1
E. Permanent Erosion and Sediment Controls:
   1.1
F. Temporary Erosion and Sediment Control:
   1.1
G. Percent of the site:
   Impervious:
   1.1
H. Classification:
   High
I. Design:
   Minimum:
   1.1
J. Type of Cover:
   Seed:
   1.1
K. Area of cover:
   1.1
L. Soil Stabilization Measures:
   1.1
M. Soil Stabilization:
   1.1
N. Maintenance and Inspection:
   1.1
O. Frequency of Inspections:
   At least once every 1 calendar day, OK
   Every 14 calendar days and within 24 hours after a rainfall of 0.2" inches or more.
   NOTE: PAYMENT TO BE MADE ON SITE TO DETERMINE DEPTH OF BAREFALL
P. Inspection Procedures:
   1.1
Q. Compliance:
   1.1
R. Materials:
   1.1
S. Application:
   1.1
T. Drainage:
   with a density:
   1.1
U. Scheduling:
   1.1
V. MEASURES TO CONTROL EROSION AND SEDIMENT
   A. Temporary Erosion and Sediment Control:
      1.1
   B. Permanent Erosion and Sediment Control:
      1.1
   C. Soil Protection:
      1.1
   D. Erosion Control:
      1.1
   E. Sediment Control:
      1.1
   F. Controls:
      1.1
   G. Protection:
      1.1
   H. Measures:
      1.1
   I. Operations:
      1.1
   J. Maintenance:
      1.1
   K. Inspection:
      1.1
   L. Enforcement:
      1.1
   M. Reporting:
      1.1
   N. Record Keeping:
      1.1
   O. Certification:
      1.1
   P. Certification:
      1.1
   Q. Certification:
      1.1
   R. Certification:
      1.1
   S. Certification:
      1.1
   T. Certification:
      1.1
   U. Certification:
      1.1
   V. Certification:
      1.1
   W. Certification:
      1.1
   X. Certification:
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   Y. Certification:
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   Z. Certification:
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   AA. Certification:
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   BB. Certification:
      1.1
   CC. Certification:
      1.1
   DD. Certification:
      1.1
   EE. Certification:
      1.1
   FF. Certification:
      1.1
   GG. Certification:
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   HH. Certification:
      1.1
   II. Certification:
      1.1
   JJ. Certification:
      1.1
   KK. Certification:
      1.1
   LL. Certification:
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   MM. Certification:
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   NN. Certification:
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   OO. Certification:
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   PP. Certification:
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   QQ. Certification:
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   RR. Certification:
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   SS. Certification:
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   TT. Certification:
      1.1
   UU. Certification:
      1.1
   VV. Certification:
      1.1
   WW. Certification:
      1.1
   XX. Certification:
      1.1
   YY. Certification:
      1.1
   ZZ. Certification:
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   A.A. Certification:
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   B.B. Certification:
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   C.C. Certification:
      1.1
   D.D. Certification:
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   E.E. Certification:
      1.1
   F.F. Certification:
      1.1
   G.G. Certification:
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   H.H. Certification:
      1.1
   I.I. Certification:
      1.1
   J.J. Certification:
      1.1
   K.K. Certification:
      1.1
   L.L. Certification:
      1.1
   M.M. Certification:
      1.1
   N.N. Certification:
      1.1
   O.O. Certification:
      1.1
   P.P. Certification:
      1.1
   Q.Q. Certification:
      1.1
   R.R. Certification:
      1.1
   S.S. Certification:
      1.1
   T.T. Certification:
      1.1
   U.U. Certification:
      1.1
   V.V. Certification:
      1.1
   W.W. Certification:
      1.1
   X.X. Certification:
      1.1
   Y.Y. Certification:
      1.1
   Z.Z. Certification:
      1.1

PART 2 - To be completed by ADOT & CONTRACTOR

I. SCHEDULE OF MAJOR ACTIVITIES
A. Project Schedule:
   Start Date:
   End Date:
B. Construction Sequencing:
   Schedule (see additional sheets)
   Construction Activities:

II. INVENTORY OF POLLUTANTS
A. The materials or substances checked below are exempted from being tested during
   construction:
   - Paints
   - Wood
   - Metal
   - Soil
   - Other, Describe:

III. POLLUTION CONTROL MEASURES
A. Other Best Management Practices:

IV. SPILL PREVENTION AND RESPONSE
A. Spill Prevention:
   The procedures outlined in the Best Management Practices (BMP's) are to be followed.
   These procedures shall include:
   - BMP's
   - BMP's
   - BMP's
   - BMP's

V. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS
A. This Storm Water Pollution Prevention Plan (SWPPP) has been prepared in accordance
   with the latest updated version of ADOT's Erosion and Pollution Control Manual
   for Highway Design and Construction, published by ADOT's Environmental Division.
   SWPPP is in compliance with other Federal, State, Local, or Federal Regulations.

VI. POLLUTION PREVENTION PLAN CERTIFICATION
A. The operator/contractor as defined in ADOT's General Permit should sign the
   SWPPP at the completion of the project. ADOT retains the R. This SWPPP shall contain
   the SWPPP in accordance with CGP Part VIII. J, and with

VII. OTHER REQUIREMENTS
A. The materials or substances checked below are exempted from being tested during
   construction:
   - Paints
   - Wood
   - Metal
   - Soil
   - Other, Describe:

II. POLLUTION CONTROL MEASURES
A. Other Best Management Practices:

III. POLLUTION PREVENTION PLAN CERTIFICATION
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A. The materials or substances checked below are exempted from being tested during
   construction:
   - Paints
   - Wood
   - Metal
   - Soil
   - Other, Describe:
**NOTES:**

1. **Sediment Wattle (Discretionary)**
   - BMPs Quantities shown are for estimating and establishing unit cost only. Actual payment quantity shall be determined by the contractor and approved by the Engineer.
   - **Sediment Wattle Layout** shall refer to Detail E1. To prevent erosion from bypassing the wattle ends, the end of the bottom wattle shall be directed against the hillside. To prevent undermining, wattles to be 20" (Min) when designed against upgradient side of sediment.
   - To prevent water from bypassing the wattle ends, the end of the bottom wattle shall be directed against the hillside. To prevent undermining, wattles shall be turned up the slopes from the toe of the slope to form an "L" shape when applicable.
   - To prevent water from bypassing the wattle ends, the end of the bottom wattle shall be directed against the hillside. To prevent undermining, wattles shall be turned up the slopes from the toe of the slope to form an "L" shape when applicable.
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**Sediment Wattle Details**

1. **Sediment Wattles as constructed to grade and as designed by the Engineer.**
   - Select, install and maintain in accordance with good engineering practices.
   - **Installation and maintenance of Sediment Wattles shall not** negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
   - **Construction of cut slopes 2:1 and steeper in soil and rock materials that can be ripped shall be constructed, whenever possible, by Minibenching. Refer to Slope Minibenching BMP Details.**
   - **Installation of all ground preparation, furnishing, installing, maintenance, their removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.**

**Sediment Wattle Spacing Intervals**

<table>
<thead>
<tr>
<th>Slope Ratio (Min)</th>
<th>Maximum Spacing Interval</th>
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<tbody>
<tr>
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<tr>
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<td>40'</td>
</tr>
<tr>
<td>5:1</td>
<td>40'</td>
</tr>
</tbody>
</table>

**NOTES:**

1. **Top Row Shall not be Placed within 6'-0" of Edge of Pavement and 5'-0" from Outside Surface of Barrier.**
2. **For active salts, place rows of wattles closer together.**
3. **For soils with low erodibility, place rows of wattles further apart.**

**SECTION (NTS)**

- **Expense Wattle**
  - **Maximum Distance**
    - 15' (Min)
    - 20' (Max)

**APPROXIMATE BMPs TOTAL QUANTITIES SUMMARY**

<table>
<thead>
<tr>
<th>CONTROL ITEM DESCRIPTION</th>
<th>ITEM #</th>
<th>DETAIL</th>
<th>UNIT</th>
<th>TOTAL</th>
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