



Department of Administrative Services

Purchasing and Contracts

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CLARK COUNTY, NEVADA BID NO. 603390-14 SPENCER STREET, WINDMILL LANE TO WARM SPRINGS ROAD & SERENE AVENUE, SPENCER STREET TO EASTERN AVENUE

August 19, 2014

ADDENDUM NO. 1

INVITATION TO BID

1. The Bid Opening date of August 21, 2014 at 2:15:00 p.m., **remains unchanged.**

CONTRACT DRAWINGS

2. *The following sheets are being reissued with this addendum.*
 - a. SHT – 9: Revised 8' grate inlet detail; inlet changed from cast-in-place to precast. Elevations on lateral detail 1 have been changed to coincide with elevations on plans.

SPECIAL PROVISIONS

3. *The following sections are being reissued with this addendum.*
 - a. Section 609 – Catch Basins, Manholes, and Inlets
 - b. Section 714 – Paint and Pavement Markings

Except as modified herein, all other bid specifications, terms, conditions, and special provisions shall remain the same.

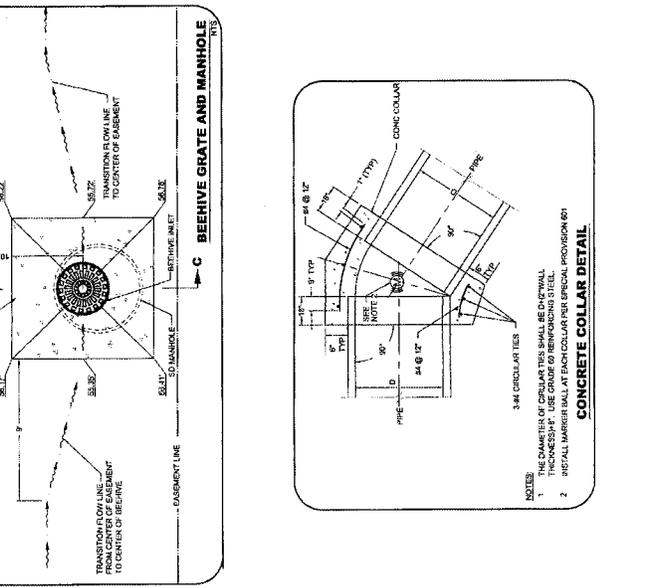
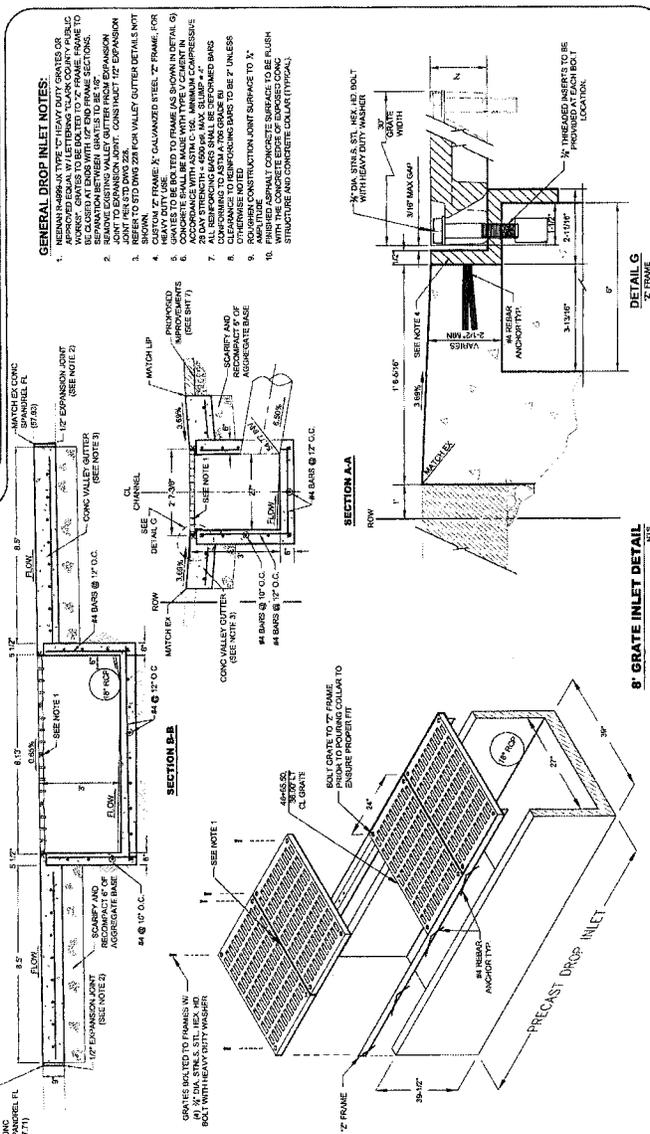
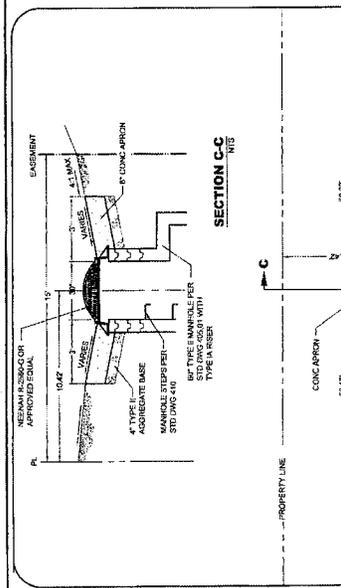
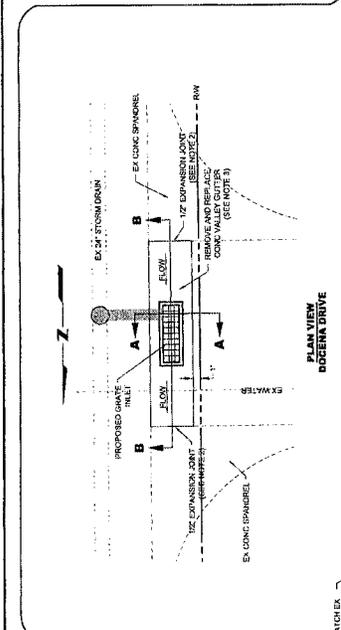
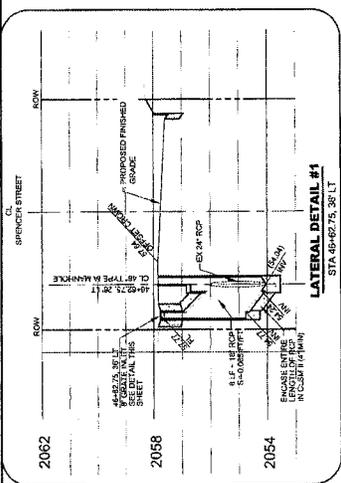
ISSUED BY:

A handwritten signature in black ink that reads "Thomas E. Boldt".

THOMAS E. BOLDT, C.P.M.
Senior Purchasing Analyst

Attachment(s): SHT – 9
Section 609
Section 714

Cc: Ray Falcon, P.E., Public Works
Joe Yatson, P.E., Public Works
Mike Mamer, Public Works
Cindy Beauchamp, Public Works



SCALE:	DESIGNED BY:	NO.:	9
DATE:	DRAWN BY:	NO.:	
PROJECT NO.:	CHECKED BY:	NO.:	
	DATE:	NO.:	

SPENCER STREET
DETAIL SHEET

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REV. NO.	DATE	DESCRIPTION	APPROVED

SECTION 609
CATCH BASINS, MANHOLES, AND INLETS
DESCRIPTION

609.02.01 GENERAL

The following is added to the subsection:

Pre-cast drop inlets can be used in-lieu of cast-in-place inlets upon approval of the Engineer that such drop inlets are shown to be equivalent or better in structural integrity and inlet capacity.

Grout shall conform to ASTM C476 and shall have a minimum strength of 2,000 psi. Fine grout shall be proportioned by volume of 1 part Portland cement and 2 and 1/4 to 3 parts sand. Coarse grout shall consist of 1 part Portland cement, 2 and 1/2 to 3 parts sand, and 1 to 2 parts coarse aggregate.

Laboratory design mixes are acceptable in lieu of the above proportions and are required if the maximum strength is more than 2,000 psi. Grout shall be of a fluid consistency, with proper proportions of sand to gravel, for pouring and pumping.

Pre-cast manhole riser sections and flat top manholes shall meet the requirements of ASTM C478.

All storm drain manhole access covers shall have a minimum diameter of thirty (30") inches.

Sanitary sewer manholes are governed by Section 630.

CONSTRUCTION

609.03.02 ADJUSTING CATCH BASIN, MANHOLE AND INLET COVERS

The following shall be added to this subsection:

Concrete collars for manholes shall be constructed in accordance with Standard Drawing No. 408.1.

The following subsection is added:

609.03.05 PRECAST CONCRETE MANHOLE BASES

Pre-cast concrete manhole bases may be used in lieu of cast-in-place concrete manhole bases. Their design and fabrication shall conform to the requirements of these contract provisions and the provisions of ASTM Specifications C478 for round base structures and C913 for rectangle or square box base structures. The precast bases shall conform to the basic dimensions shown on the Contract Drawings. The Contractor shall submit shop drawings prior to construction, showing typical design, reinforcing and structural details, and manufacturer's certifications as

required by the Engineer. The horizontal joint at the top of the precast bases shall be compatible with that of the precast wall sections.

All precast bases shall be free from cracks, damaged joints, exposed reinforcing, aggregate pockets, spalls, and dimensional distortions or other irregularities. All units rejected by the Engineer shall be tagged and removed from the job site immediately.

The precast bases shall be manufactured to contain openings in the wall, of minimum size, to receive the ends of storm drains. Such openings shall be accurately set to conform with the line and grade of storm drains. The ends of the pipes shall be accurately positioned in the openings and properly sealed and secured against movement for watertight connections per the provisions of applicable ASTM Specifications and manufacturer's recommendations. The manhole bases may be precast with pipe stubs for which the compensation shall be included in the bid item(s) of storm drain manhole(s). The pipe stubs shall be a minimum of two feet (2') in length or any approved length that allows structural integrity and proper pipe connections whichever is greater.

Manhole floors shall be made of Type V, Class A, concrete (minimum 3000 psi) and/or grout, as shown on the Contract Drawings and/or as required by the Engineer, and the work shall be free of any rough corners or sudden changes in direction such that a steady uniform flow with a minimum of wave action will be provided. Changes in direction and grade will consist of the straight line and/or largest curve radius the manhole diameter will permit. The surface of the manhole floors along the flowline shall be smooth as possible.

The precast (or cast-in-place) manhole bases shall be uniformly supported on a compacted (95% of maximum density per AASHTO T-180), level Type II aggregate base bedding foundation of minimum six inches (6") in depth and minimum six inches (6") beyond the perimeter of the manhole bases. The depth of the gravel bedding foundation may increase to a maximum of twelve inches (12") as required by the Engineer. Prior to placement of such bedding or foundation, the contractor shall scarify and recompact the subgrade a minimum of six inches (6") below the bottom of the bedding or foundation to 90% of maximum density per AASHTO T-180. The work specified in this paragraph will not be measured separately for payment but the cost thereof shall be considered as included in the bid item(s) of storm drain manhole(s).

When unstable subgrade is encountered, the Contractor shall immediately notify the Engineer for examination of the subgrade to determine further remedy and/or action. Any additional work required to replace unsuitable materials within the subgrade area measured from twelve inches (12") below the bottom of the manhole bases to the depth as determined by the Engineer shall be paid separately under the bid item trench over-excavation and compacted imported aggregate base (See Section 208).

METHOD OF MEASUREMENT

609.04.01 MEASUREMENT

Paragraph A is changed to read as follows:

(Size) drop inlets, (size) grate inlets, and (size) (type) manholes will be measured per each for each type and size as specified on the plans as a completed unit.

Vertically adjust storm drain manhole will be measured per each manhole adjusted, complete and accepted.

BASIS OF PAYMENT

609.05.01 PAYMENT

The following is added to this subsection:

The contract unit price paid per each for 60" type II manhole with beehive grate shall be full compensation for removing, furnishing and placing all materials, including excavation, backfill, subgrade preparation, bedding, foundation, manhole floors, pipe stubs, compaction, de-watering, shoring, concrete apron, forming, grout, concrete, steel reinforcement, all frames/grates and covers, concrete collars, adjusting covers to final grade, protection and restoration, if damaged, of all existing facilities, and for all labor, tools, equipment, and incidentals necessary to complete the work as shown on the drawings and/or as directed by the Engineer. Partial payment for storm drain manholes will not be made and will be measured for payment upon completion.

The contract unit price paid per each for 48" type IA manhole shall be full compensation for removing, furnishing and placing all materials, including excavation, backfill, subgrade preparation, bedding, foundation, manhole floors, pipe stubs, compaction, de-watering, shoring, forming, grout, concrete, steel reinforcement, all frames and covers, concrete collars, adjusting covers to final grade, protection and restoration, if damaged, of all existing facilities, and for all labor, tools, equipment, and incidentals necessary to complete the work as shown on the drawings and/or as directed by the Engineer. Partial payment for storm drain manholes will not be made and will be measured for payment upon completion.

The contract unit price paid per each for 40' drop inlet shall be full compensation for removing, furnishing and placing all materials, including excavation, backfill, compaction, de-watering, shoring, forming, grout, concrete, steel reinforcement, all frames, curb boxes, and grate covers, protection bars and plates, protection and restoration, if damaged, of all existing facilities, and for all labor, tools, equipment, and incidentals necessary to complete the work as shown on the drawings and/or as directed by the Engineer. Partial payment for drop inlets will not be made. Drop inlets will be measured for payment upon completion.

The contract unit price paid per each for 8' grate inlet shall be full compensation for removing, furnishing and placing all materials, including excavation, backfill, compaction, de-watering, shoring, forming, grout, concrete, steel reinforcement, joint filler, bond breaker/backing rod, joint sealant, pipe w/end plug, **precast drop inlet**, all frames and grate covers, protection bars and plates, protection and restoration, if damaged, of all existing facilities, and for all labor, tools, equipment, and incidentals necessary to complete the work as shown on the drawings and/or as directed by the Engineer. Partial payment for drop inlets will not be made. Drop inlets will be measured for payment upon completion.

Payment for 8' grate inlet shall also include compensation for removal and replacement of existing valley gutter as shown on the plans and as directed by the Engineer.

Payment for drop inlets shall also include compensation for removal of existing curb and gutter, and sidewalk where necessary to construct the drop inlet.

Payment for drop inlets shall also include compensation for constructing concrete curb and gutter and sidewalk to limits of three feet, 6-inches on each side of inlet opening or to limits of removal.

The contract unit price paid per each to vertically adjust storm drain manhole shall be full compensation to adjust manhole access covers to final grade of road surface, removal and replacement of existing concrete collars, adding or removing grade rings, replacement of manhole frames and covers if damaged, excavation, backfill, compaction, forming, grout, steel reinforcement, concrete, related items of work not otherwise provided for, and for all labor, tools and equipment necessary to complete the work as specified herein, as shown on the plans and as directed by the Engineer.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
60" Type II Manhole With Beehive Grate	Each
48" Type IA Manhole	Each
40' Drop Inlet	Each
8' Grate Inlet	Each
Vertically Adjust Storm Drain Manhole	Each

SECTION 714

PAINT AND PAVEMENT MARKINGS

PHYSICAL PROPERTIES AND TESTS

714.01.01 MATERIALS COVERED

Add the following:

Contractor shall provide and install the type(s) of pavement marking materials as specified in the plans. No substitutions of types of materials will be allowed.

714.03.05 PAINT FOR TRAFFIC STRIPING, PAVEMENT MARKING, AND CURB MARKING – GENERAL

Add the following:

Contractor shall use an approved material listed under Rapid Dry Waterborne Paint – Permanent Striping Formulations (Type II) in the current NDOT QPL that also meets the requirements set forth in the Standard Specifications and these special provisions. A material listed in the NDOT QPL is not guaranteed to be accepted for use on this project. Contractor's shop drawings/materials submittals for approval of materials that are in the NDOT QPL which do not meet the requirements in the Standard Specifications and the special provisions will be rejected.

714.03.06 PAVEMENT MARKINGS

Replace Sentence 4 in Subparagraph A.2.f with the following:

Type 2 pavement marking material shall also meet the "Heavy Traffic" performance criteria establish in the table below.

Type 2 film shall have a min. thickness of 0.065 inches and shall provide a minimum service period of 3 years.

Add the following:

Qualified Products List

For transverse pavement marking applications, Contractor shall use an approved material listed under Pavement Marking Tape (Type II) in the current NDOT QPL that also meets the Type 2 pavement marking material requirements set forth in the Standard Specifications and these special provisions. A material listed in the NDOT QPL is not guaranteed to be accepted for use on this project. Contractor's shop drawings/materials submittals for approval of materials that are in the NDOT QPL which do not meet the requirements in the Standard Specifications and the special provisions will be rejected.

The following products have been approved for transverse pavement marking applications in

this contract:

ATM - 400 Tape or approved equal. Product manufacturer shall provide specifications that prove it meets the criteria for "Heavy Traffic" applications. Note: Previously approved products that do not meet these criteria will not be accepted.

Replace Sentence 2 in Subparagraph B.3.e with the following:

Polyurea paint used for pavement markings shall conform to materials requirements listed in Subsection 714.03.11, "Polyurea Paint for Traffic Markings."

Replace Sentence 4 in Subparagraph B.3.g with the following:

Type 1 pavement marking material shall also meet the "Heavy Traffic" performance criteria establish in the table below.

Replace Subparagraph B.3.i, "Qualified Products List" with the following:

For longitudinal pavement marking applications, Contractor shall use an approved material listed under Pavement Marking Tape (Type IV) in the current NDOT QPL that also meets the Type 1 pavement marking material requirements set forth in the Standard Specifications and these special provisions. A material listed in the NDOT QPL is not guaranteed to be accepted for use on this project. Contractor's shop drawings/materials submittals for approval of materials that are in the NDOT QPL which do not meet the requirements in the Standard Specifications and the special provisions will be rejected.

714.03.11 POLYUREA PAINT FOR TRAFFIC MARKINGS

Add the following:

Qualified Products List

For longitudinal pavement marking applications, Contractor shall use an approved material listed under Paint Marking Material (Polyurea) in the current NDOT QPL that also meets the Polyurea Paint requirements set forth in the Standard Specifications and these special provisions. A material listed in the NDOT QPL is not guaranteed to be accepted for use on this project. Contractor's shop drawings/materials submittals for approval of materials that are in the NDOT QPL which do not meet the requirements in the Standard Specifications and the special provisions will be rejected.