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SECTION 2
CITY OF SUNNYSIDE
STANDARD SPECIFICATIONS
ROADWAY

2-1 CLEARING AND GRUBBING

2-1.01 GENERAL

Clearing and grubbing shall consist of the removal of all asphalt, concrete, or bituminous pavement built upon earth or granular base materials, granular base materials, all trees, brush, stumps, vegetation, mailboxes, extruded curbs, abandoned culverts (metal, pvc, concrete, or HDPE), miscellaneous concrete boxes or vaults, headwalls, sign, post, or lamp concrete footings, buildings, lumber, trash piles, rubbish, objectionable materials, and fencing within the project limits. The Contractor shall complete all clearing and grubbing well in advance of grading. All fencing and mailboxes shall be salvaged and/or relocated at the direction of the ENGINEER.

2-1.02 CONSTRUCTION

Prior to construction, the Contractor shall be required to install and erect all storm water/sediment pollution control measures as described within these specifications, as shown on the plans and, or, as indicated on any permit required for construction.

Clearing and grubbing shall be done in accordance with SWSS Sections 2-01.1, 2-01.2, 2-01.3, 2-02 and all subsections, and as herein modified.

2-1.03 LOCATION REFERENCE FOR EXISTING UTILITIES

Prior to removal of pavement or excavation around existing utilities, the CONTRACTOR shall reference all existing utilities with a minimum of two references. A reference drawing and notes shall be prepared, and two copies given to the City representative prior to removal of any existing utilities structure. When new valves or manholes are constructed in conjunction with the street construction, they shall be similarly referenced prior to continuing work over the utility.

2-1.04 MEASUREMENT AND PAYMENT

The unit contract price for "Clearing and Grubbing," per Lump Sum, shall be full compensation for all labor, equipment, materials, and all other incidentals including referencing all utilities, as required to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

The unit contract price for "Storm Water /Sediment Pollution Control," shall be per Lump Sum, and shall be full compensation for all labor, equipment, materials, and all other incidentals including maintenance thereto during the entire length of the project and the removal and disposal thereof, as required to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-2 ROADWAY EXCAVATION

2-2.01 GENERAL

Roadway excavation shall consist of excavation and grading of the roadway and driveway areas as shown on the PLANS; to the finished elevation of the subgrade as shown in the plan details; and shall be defined as unclassified and shall consist of the excavation and disposal of all material, regardless of its nature and no additional compensation will be made for the various different types of soil or other in-place materials which may be encountered unless a separate bid item is provided in the contract SPECIFICATIONS and bid proposal. Construction staking shall be provided as specified in Section 1-40 of these SPECIFICATIONS.

Unsuitable material encountered below the natural ground surface (lying within embankment areas or below the grading plane (plan excavation limits), in areas of excavation shall be excavated and disposed of off site. Unsuitable material is defined as material the ENGINEER determines to be:

1. of such unstable nature as to be incapable of being compacted to specified density, using ordinary means and methods, at optimum moisture content; or
2. too wet to be properly compacted and circumstances prevent suitable in-place drying prior to incorporation into the work; or
3. otherwise unsuitable for the planned or intended use.

The removal and disposal of unsuitable material shall be at the sole discretion of the ENGINEER

2-2.01(A) OVER EXCAVATION

Where over excavation is required by the plans or as directed by the Engineer, the Contractor shall be required to over excavate a minimum depth of two (2) feet below the lowest grading plane, or deeper as directed by the Engineer, and shall place pit run material, as approved by the Engineer, to the elevation of the lowest grading plane.

2-2.02 CONSTRUCTION

Excavation shall be done in accordance with SWSS Section 2-03, Sections 2-03.1 through 2-03.3 (18) and as herein modified by these SPECIFICATIONS Section 2-2.03 through 2-5. All unsuitable or excess materials shall be removed from the site and placed in a disposal site provided by the CONTRACTOR, per Section 1-15 of these SPECIFICATIONS, or unless stated otherwise in the special provisions.

2.2.03 CONTRACTOR PROVIDED WASTE SITE

Unless otherwise specified, the CONTRACTOR shall provide all disposal and waste sites. Disposal and waste sites shall meet all requirements of the Yakima County District Health Department and Chapter 173-304 WAC. When a waste site exceeds two thousand cubic yards of inert waste and demolition waste during the life of the landfill, the CONTRACTOR shall obtain and pay all costs as required to obtain a solid waste handling facility permit from the Health Department.

2-2.04 MEASUREMENT AND PAYMENT

The measurement for Roadway Excavation shall be per Cubic Yard, determined by average end area method as measured on the approved plans, prior to excavation and shall be based on the quantities listed in the proposal; unless, in the opinion of the ENGINEER, sufficient change occurs which requires recalculation or re-measurement of the quantities.

The measurement for Unsuitable Excavation / Over Excavation shall be per Cubic Yard, calculated using the Average End Area Method, after excavation.

The unit contract price for "Roadway Excavation," per Cubic Yard, shall be full compensation for all labor, equipment, materials, and all other incidentals required to excavate, load, haul, place, or otherwise dispose of the excavated material in accordance with the PLANS and SPECIFICATIONS, or as directed by the ENGINEER.

The unit contract price for "Unsuitable Excavation / Over Excavation and Pit Run Material as approved by the Engineer", shall be per Cubic Yard, calculated by field measurement of the trench using the Average End Area Method or estimated per load based upon the size and number of

the bucket loads removed, and shall be full compensation for furnishing all labor, materials, equipment required to excavate, load, haul, place, or otherwise dispose of the excavated material and placement to grade of all backfill material, and for all other incidentals in accordance with the plans and specifications, or as directed by the Engineer.

2-3 BORROW EXCAVATION

2-3.01 GENERAL

When called for on the PLANS or where directed by the ENGINEER, borrow excavation shall consist of suitable material obtained from pits for the construction of embankments, subgrade, planting strips, sidewalk areas or shoulders, and other facilities as directed by the ENGINEER. Borrow excavation shall be approved by the ENGINEER and shall be secured by the CONTRACTOR at his own expense and from a source in which the materials are approved by the ENGINEER.

2-3.02 MEASUREMENT AND PAYMENT

Unless provided in the Special Provisions, a separate measurement and payment will not be made for borrow excavation. If sufficient on-site excavated material is not available, the CONTRACTOR shall determine or verify the amount of borrow excavation required, if any.

All costs of providing borrow excavation shall be incorporated into the Embankment in Place bid item(s).

2-4 EMBANKMENT IN PLACE

2-4.01 GENERAL

Excavation materials determined to be suitable for fill material by the ENGINEER shall be spread and compacted in fill areas as indicated on the PLANS.

2-4.02 CONSTRUCTION

Embankment shall be accomplished using select native or imported material in accordance with SWSS Section 2-03.3(14)C, and as herein modified. Minimum density shall be 95 percent measured in accordance with ASTM D-698 Standard Proctor Density.

2-4.03 MEASUREMENT AND PAYMENT

The measurement for "Embankment in Place" shall be per Cubic Yard, and based on the quantities listed in the proposal or as measured complete in-place; unless in the opinion of the ENGINEER, sufficient change occurs which requires recalculation or re-measurement of the quantities.

The unit contract price for "Embankment in Place," per Cubic Yard, shall be full compensation for all labor, equipment, materials, and all other incidentals required to complete the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-5 SUBGRADE

2-5.01 GENERAL

Subgrade preparation shall be prepared in accordance with SWSS Section 2-06 and as herein modified.

2-5.02 MEASUREMENT AND PAYMENT

All work required under this section shall be considered incidental to Section 2-2 Roadway Excavation of these SPECIFICATIONS, and no additional compensation will be made for any work including placement of materials or work thereof, and, or additional labor as required to prepare the subgrade to the grading plane as specified and shown on the PLANS and within the SPECIFICATIONS.

2-6 TOP COURSE

2-6.01 GENERAL

The CONTRACTOR shall furnish and place three-quarters inch (3/4") minus crushed surfacing top course, per SWSS Section 9-03.9(3), and in accordance with SWSS Section 4 and as herein modified. The three-quarters inch (3/4") minus crushed surfacing top course shall be placed to the depth as indicated on the PLANS and DETAILS. Crushed surfacing top course shall be constructed in layers not to exceed six inches (6") in depth.

2-6.02 MEASUREMENT AND PAYMENT

Measurement and payment for "Top Course," per Cubic Yard or per Ton, shall be full compensation for all labor, equipment, materials, including hauling, spreading, stockpiling, shaping, sloping, watering, and compaction completely in-place and all other incidentals required to furnish and place top course to the finished lines and grades in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-7 BASE COURSE

2-7.01 GENERAL

The CONTRACTOR shall furnish and place one and one quarter inch (1-1/4") minus crushed surfacing base course, per SWSS Section 9-03.9(3), and in accordance with SWSS Division 4 and as herein modified. Crushed surfacing base course shall be constructed in layers not to exceed six inches (6") in depth.

2-7.02 MEASUREMENT AND PAYMENT

Measurement and payment for "Base Course," per Cubic Yard or per Ton, shall be full compensation for all labor, equipment, material, including hauling, spreading, stockpiling, shaping, sloping, watering, and compaction completely in-place and all other incidentals required to furnish and place base course to the finished lines and grades in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-8 ASPHALT CONCRETE PAVEMENTS

2-8.01 GENERAL

Asphalt Concrete Pavement shall be as per SWSS Section 5-04 and as herein modified.

Asphalt concrete pavement shall be either "Class B ", or "Class G", and shall be placed at the locations and compacted to the depth as shown on the PLANS. Pavement depths two inches (2") and less shall be placed as a single lift, unless otherwise shown on the PLANS. Pavement depths greater than two inches (2") shall be placed as multiple lifts in accordance with Section 2-8.03 of these SPECIFICATIONS or as directed by the ENGINEER.

2-8.02 MATERIALS

1. "Class B" asphalt concrete pavement shall have aggregate gradation and asphalt requirements in accordance with SWSS Section 9-03.8(6) except that the asphalt content shall not be less than 5.7 percent plus or minus 1/2 percent, unless specifically approved by the City ENGINEER after evaluation of the CONTRACTOR's mix design. Asphalt material shall be PG 58-22 in accordance with SWSS Section 9-02.1(4) or as required in the Special Provisions. "Class B" asphalt concrete pavement shall be used for all base lifts as per Section 2-8.03 of these SPECIFICATIONS.
2. "Class G" asphalt concrete pavement shall have aggregate gradation and asphalt requirements in accordance with SWSS Section 9-03.8(6). The mix shall be designed for maximum stability, without causing bleeding of the asphalt. The asphalt content shall be per the approved mix design, except that the asphalt content shall not be less than 6.0 percent, plus or minus 1/2 percent, unless specifically approved by the City ENGINEER, after evaluation of the CONTRACTOR's mix design. Asphalt material shall be PG 58-22 in accordance with SWSS Section 9-02.1(4) or as required in the Special Provisions.

2-8.03 MIX DESIGN

An approved mix design will be required prior to paving on all projects.

The CONTRACTOR will be required to provide a mix design as per SWSS Section 5-04.3(7)A and as herein modified. All costs to prepare the mix design shall be considered incidental to the unit price for the asphalt pavement complete in-place.

2-8.04 CONSTRUCTION REQUIREMENTS

Asphalt concrete pavement shall be constructed in accordance with SWSS Section 5-04 for all projects involving Federal and State funds, loans or grants, and shall herein be modified as follows for all projects involving only CITY funds or private development funds:

The minimum temperature of the asphalt, when placed on the road surface, shall be no less than 260 degrees Fahrenheit.

Asphalt concrete placement shall be subject to the weather limitations of SWSS 5-04.3 (16).

Delete SWSS Section 5-04.3(10) B Control, and insert the following:

The acceptable level of compaction shall be 92 percent of the maximum density as determined by WSDOT Test Method 705.

Unless otherwise required by the special provisions or contract drawings "Class B" asphalt concrete paving shall be used for all paving lifts and "Class G" asphalt concrete pavement, shall typically be used for utility adjustments.

2-8.05 MEASUREMENT AND PAYMENT

Measurement and Payment for Asphalt Concrete Pavement shall be accordance with SWSS Section 5-04 for all projects involving Federal and State funds, loans or grants, except as follows:

For all projects involving only local CITY funds or private development funds the following section shall be used for measurement and payment for all Asphalt Concrete pavements:

The unit contract price for "Asphalt Concrete Pavement ", per Ton, shall be full compensation for all labor, equipment, and materials including, but not limited to: permanent placements of all asphalt paving materials, tack coat, anti-stripping additive, temporary striping, removing temporary striping, temporary placement of all asphalt paving materials for patching, filling, leveling, or construction of temporary roads for construction access or detour routes, watering, compaction, finish grading, hauling, stockpiling, loading, and all other incidentals as may be required to achieve a finished asphalt pavement surface, complete in-place, the lines and grades as shown on the PLANS and to complete the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-9 WEIGHING

Equipment for the weighing of crushed stone surfacing materials and bituminous surfacing materials shall be in accordance with SWSS Section 1-09.2 Weighing Equipment, and shall also include the use of commercially-owned scales that are approved by the ENGINEER.

All scales used shall be tested and sealed at the expense of the CONTRACTOR.

The CONTRACTOR shall furnish the ENGINEER with two copies of each weigh ticket with each load at the point of delivery. The CONTRACTOR shall furnish a copy of daily bunker sheets on request by the ENGINEER at the end of each day's operation.

There shall be no specific payment for the weighing of any materials and all efforts required by the CONTRACTOR to comply with this provision shall be included in the cost of those materials.

2-10 CONCRETE CURB AND GUTTER

2-10.01 GENERAL

Where shown on the PLANS, the CONTRACTOR shall construct integral curb and gutter as shown on the City of Sunnyside Standard Drawing 2-10.

2-10.02 MATERIALS AND CONSTRUCTION

Concrete materials shall meet the strength requirements as set forth in the City of Sunnyside Standard Drawing 2-14, Class 5. Construction shall be in conformance with SWSS Section 8-04.3 and as herein modified. Cement concrete curb and gutter shall be provided with dummy contraction joints at ten (10) foot centers. Full depth mastic material shall be placed in the curb and gutter at the points of tangency on all curb returns. Cold weather protection shall be provided per SWSS Section 5-05.3(14).

SWSS Section 8-04.3(1) shall be modified to eliminate the requirement to use state concrete mix design for slip form constructed curb and gutter. Concrete mix design shall be subject to approval of the ENGINEER.

The CONTRACTOR shall apply curing compound to the exposed surfaces in accordance with SWSS Section 5-05.3(13)A. Curing compounds shall meet the following requirements:

The compound shall be a liquid that, at the time of application, is free from suspended matter. It shall be sufficiently low in viscosity to result in an even, uniform coating when applied by spraying.

The compound shall be sufficiently transparent and free from permanent color to result in no pronounced change in color from that of the natural concrete at the conclusion of the curing period. The compound shall, however, contain a dye of color strength sufficient to render the film distinctly visible on the concrete for a period of at least four hours after application. Application rate and type of compound shall be subject to the approval of the ENGINEER.

When tested for moisture retaining effectiveness by the WSDOT "Test for Moisture Reading Effectiveness of Concrete Curing Compounds", the loss of moisture shall not exceed two grams per specimen.

The CONTRACTOR shall provide at all points of terminus on curb and gutter a three-eighths inch (3/8") mastic material prior to installing a concrete bullnose sloped at a 45 degree angle to the ground surface, unless otherwise directed by the ENGINEER.

2-10.03 MEASUREMENT AND PAYMENT

Depressed curb for driveway entrances and for wheelchair ramps shall be incidental to this item.

The unit contract price for "Concrete Curb and Gutter," per Linear Foot, shall be full compensation for all labor, equipment, materials, including Portland Cement Concrete, placing and stripping all formwork, applying all curing compounds, frost protection, finishing, and all other incidentals required to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-11 CEMENT CONCRETE DRIVEWAYS

2-11.01 GENERAL

The CONTRACTOR shall construct cement concrete driveways where shown on the PLANS or as directed by the ENGINEER. The concrete driveways are defined as that portion of the concrete sidewalks along the curb which is depressed for use as a driveway. Unless identified on the PLANS, all driveways will be identified by the ENGINEER prior to construction. All construction shall be in accordance with SWSS Section 8-14.03 as herein modified and the City of Sunnyside Standard Drawing 2-10.

2-11.02 MEASUREMENT AND PAYMENT

Measurement for "Concrete Driveway", per Each, beginning at the top of transition from one side, across the apron, and ending at the top of transition on the other side, and shall include driveway-sidewalk section only; depressed curb in front of the driveway section will be included under "Concrete Curb and Gutter" bid items.

The unit price for "Concrete Driveway", per Each, shall be full compensation for all labor, equipment, including all Portland Cement Concrete, placing and stripping all formwork,

construction and placement of aggregate base, reinforcement steel / wire mesh or fiberglass additive and materials, applying all curing compounds, frost protection, finishing, and all other incidentals required to construct the driveway in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-12 CONCRETE SIDEWALKS

2-12.01 GENERAL

Where shown on the PLANS, the CONTRACTOR shall construct cement concrete sidewalks in accordance with SWSS Section 8-14.3 as herein modified, by Sunnyside Standard Drawing 2-10.

At the termination points of new curb, gutter, and sidewalk, the CONTRACTOR shall construct a ramp with either asphalt concrete pavement or cement concrete from the top of the sidewalk to the existing ground surface as per Section 2-25 of these SPECIFICATIONS.

2-12.02 MEASUREMENT AND PAYMENT

Measurement and payment for "Concrete Sidewalk," per Square Yard, shall be full compensation for all labor, equipment, materials, including Portland Cement Concrete, placing and stripping all formwork, construction and placement of aggregate base, reinforcement steel / wire mesh or fiberglass additive materials, applying all curing compounds, frost protection, finishing, constructing terminal endpoint ramps, construction of all sidewalk transitions to concrete driveways, and all other incidentals required to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-13 PEDESTRIAN RAMPS

2-13.01 GENERAL

Unless specifically directed otherwise by the ENGINEER, the CONTRACTOR shall construct pedestrian access ramps, in accordance with City of Sunnyside Standard Drawing No. 2-12, or 2-12 A as applicable, at all curb returns, street crossings, and in traffic islands where the traffic island interferes with normal pedestrian traffic. Costs for placement of cement concrete for all ramps shall be incidental to sidewalk and curb construction.

2-13.02 MEASUREMENT AND PAYMENT

Costs for the placement of the truncated dome inserts as shown on standard drawings shall be per Each, and shall include the preparation of the cement concrete to install the truncated dome insert, and shall be considered incidental to the installation of the insert, and shall include the truncated dome insert material, and all other materials, formwork, labor and equipment necessary to install a complete truncated dome insert.

All depressed cement concrete curb and gutter, together with sidewalk required to construct the pedestrian ramp in accordance with all applicable ADA requirements, shall be considered incidental to the construction of "Concrete Curb and Gutter", and "Concrete Sidewalk" and "Truncated Dome Insert", respectively, and no additional compensation for all labor, equipment, materials, and all other incidentals will be offered to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-14 SURFACE RESTORATION BEHIND SIDEWALK

2-14.01 GENERAL

As indicated on the PLANS or as directed by the ENGINEER, the CONTRACTOR shall grade, slope, and restore those areas located between the back of the new sidewalk with top soil and similar landscaping materials. Driveway sections and existing private walks, parking areas and driveways shall be restored by patching with asphalt concrete pavement or cement concrete, to ensure a smooth transition between the existing and new installations.

2-14.02 MATERIALS

All materials used to meet the requirements of this Section shall be in accordance with the applicable sections of these SPECIFICATIONS.

2-14.03 MEASUREMENT AND PAYMENT

Placement of all "Surface Restoration Behind Sidewalk," shall be considered incidental to the construction of "Concrete Sidewalk," and "Concrete Driveway", respectively, and no additional compensation for all labor, equipment, materials, and all other incidentals will be offered to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-15 MONUMENTS

2-15.01 GENERAL

The CONTRACTOR shall install monuments at the following locations: PC, PT and PI (small radius curves where PI fall within the existing Right of Way), and all roadway intersections. The monuments shall be in accordance with the City of Sunnyside Standard Drawing 2-8, and Standard Specification 8-13 as herein modified.

2-15.02 MEASUREMENT AND PAYMENT

The unit contract price for "Install Monument," per Each, shall be full compensation for all labor, equipment, materials, field surveys including labor and recording documents, Professional Survey services, and all other incidentals required to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-16 THIS SECTION LEFT INTENTIONALLY BLANK

2-17 CURB AND GUTTER REMOVAL

2-17.01 GENERAL

Where shown on the PLANS, or as directed by the ENGINEER for added driveways, the CONTRACTOR shall saw cut and remove the existing curb and gutter as identified, along with the removal of a minimum of two (2) foot wide strip (exact width shall be determined by the Engineer) of asphalt paving along the length of the curb to be removed. All waste materials shall be removed from the project and disposed of at a site provided by the CONTRACTOR.

2-17.02 MEASUREMENT AND PAYMENT

The unit contract price for "Curb and Gutter Removal," per Linear Foot, shall be full compensation for all labor, equipment, materials, and all other incidentals including asphalt cutting and removal, required to perform the work in accordance with the PLANS and SPECIFICATIONS, or revisions or as directed by the ENGINEER.

2-18 SIDEWALK/DRIVEWAY REMOVAL

2-18.01 GENERAL

Where shown on the PLANS, or as directed by the ENGINEER, the CONTRACTOR shall saw cut and remove the existing sidewalk and driveways. All waste material shall be removed from the project and disposed of at a site to be provided by the CONTRACTOR.

2-18.02 MEASUREMENT AND PAYMENT

The unit contract price for "Sidewalk/Driveway Removal," per Square Yard, shall be full compensation for all labor, equipment, materials, and all other incidentals required to perform the work in accordance with the PLANS and SPECIFICATIONS, revisions or as directed by the ENGINEER.

2-19 UTILITY ADJUSTMENT TO GRADE

2-19.01 GENERAL

All new and existing water valve boxes, manhole rings and covers, catch basin rings and grates, sewer cleanouts, street monumentation and any other castings within the work area shall be referenced by the CONTRACTOR per Section 2-1.03 of these SPECIFICATIONS. In those instances where existing manholes are required to be lowered, and adequate adjustment rings are not available, the CONTRACTOR shall excavate and remove a section of manhole and provide adjustment rings, a replacement section, and cone or flat top as required for lowering. After the placement of the final finished lift of asphalt pavement, the CONTRACTOR shall adjust all utility covers to the finished pavement grade. The casting shall be adjusted and a concrete collar placed per Standard Drawing 3-4. The casting shall be adjusted in accordance with the City of Sunnyside Standard Drawing 3-4 or as directed by the ENGINEER.

2-19.02 MATERIALS AND CONSTRUCTION

The existing pavement shall be cut neatly around the cast iron frame. The existing asphalt and road base materials shall be removed and the cast iron frame adjusted to finished grade by the use of concrete adjusting rings as shown on the City of Sunnyside Standard Drawing 3-4. All road base rock materials and native subgrade materials removed during the adjustment of the castings to grade shall be replaced with concrete. Concrete shall be protected for a minimum of 16 hours prior to placement of the asphalt concrete pavement patch. A shorter time period may be granted by the ENGINEER if traffic conditions warrant that a shorter time would be to the benefit of the City.

2-19.03 MEASUREMENT AND PAYMENT

Measurement and payment for "Utility Adjustment to Grade," as specified in this section shall be per Each and shall be full compensation for cutting and removing asphalt, adjusting blocks or rings, resetting new and existing frames to finished grade, replacing frames damaged during construction, placing concrete, grouting as required, labor, equipment, materials, including installation of valve nut extensions, and all other incidental work required to complete the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

The unit contract price for "Lower Existing Manhole", per Each, shall be full compensation for furnishing all labor, materials, equipment, excavation, backfill, salvage and all other incidentals required to lower an existing manhole where adequate adjustment rings are not available as specified herein and as directed by the ENGINEER. A separate measurement and payment will be made on completion of paving for adjusting existing casting to grade for those manholes previously lowered.

2-20 UTILITY CONDUIT TRENCH EXCAVATION AND BACKFILL

2-20.01 GENERAL

When called for in the contract special provisions, or when called for on the contract PLANS, the CONTRACTOR shall provide all trench excavation and backfill for all road utility conduit crossings. The CONTRACTOR shall pay all applicable utility provider's permit fees, obtain the conduit material, if furnished by the appropriate utility provider and install all conduits for the crossings per the appropriate utility provider's specifications.

2-20.02 TRENCH EXCAVATION AND BACKFILL

Trench excavation for utility conduit installation shall be in accordance with SWSS Sections 8-20.3 and Section 2-09.3 for "Structure Excavation Class B" and as herein modified. Trench excavation shall provide for a minimum of thirty inches (30") of cover material over the top of the finished conduit grade.

Trench backfill material shall consist of 1 ¼" minus crushed surfacing materials as specified in SWSS section 9-03.9(3) and be compacted by means chosen by the CONTRACTOR to achieve a minimum of 95 percent maximum density when tested in accordance with SWSS Section 2-09.3(1)E as herein modified. Compaction shall be done in such a manner as to preclude future settlement.

The Contractor shall place controlled density fill (CDF) per SWSS section 2-09.3(1)E at all locations where one or more utility crossings exist within the trench or as directed by the ENGINEER. The volume of the CDF to be used shall be determined as follows:

Length: measured a minimum of three (3) feet on each side of the intersection crossing of the two utilities;

Width: The width of the open trench;

Depth: Measured from the bottom of trench to a minimum of two (2) inches above the highest crown of pipe within the trench.

The CONTRACTOR shall use appropriate means and methods to prevent all utilities from "floating" when using CDF materials for back fill.

2-20.03 MEASUREMENT AND PAYMENT

The unit contract price for "Utility Conduit Trench Excavation and Backfill," per Cubic Yard, shall be full compensation for all labor, equipment, materials, including all saw cutting, removal and disposal of all surface and unsuitable excavated material, importation of all bedding and backfill material, placement and compaction of all materials, marking tape, locate wires and locator posts, placement of all finished surfacing materials to final road grade, permit fees, and all other incidentals required to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-21 INSTALL BARRICADE

2-21.01 GENERAL

The CONTRACTOR shall furnish and install the Type III Barricade as shown on the construction PLANS in accordance with the current MUTCD, Section 6F-5F, and as shown on City of Sunnyside Standard Drawing 2-13.

2-21.02 MEASUREMENT AND PAYMENT

When a separate bid item is included in the bid proposal, the unit contract price for "Install Type III Barricade", per Each, shall be full compensation for all labor, equipment, materials, and all other

incidentals required to complete the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-22 INSTALL END-OF-ROAD MARKER

2-22.01 GENERAL

The CONTRACTOR shall furnish and install the 18-inch diamond reflectorized red panel end-of-road marker, as shown on the construction PLANS in accordance with the City of Sunnyside Standard Drawing 7-4.

2-22.02 MEASUREMENT AND PAYMENT

The unit contract price for "Install End-of-Road Marker," per Each, shall be full compensation for all labor, equipment, and materials required to complete the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-23 SOIL RESIDUAL HERBICIDES

2-23.01 GENERAL

Where shown in the PLANS, special provisions, or directed by the ENGINEER, the CONTRACTOR shall apply one application of an approved soil residual herbicide to prevent vegetation damage to the asphalt pavement. The soil residual herbicide to be used shall not have a detrimental chemical reaction to the asphalt pavement or damage the pavement. Application of the herbicide shall be a uniform spray in accordance with the manufacturer's recommendations and applied by a certified licensed applicator.

Prior to beginning clearing and grubbing, the CONTRACTOR shall investigate the work site to determine whether a direct contact herbicide such as Round-Up will be required in addition to the herbicide, to kill deep rooted foliage, such as alfalfa and sagebrush. Applications shall be made as needed to kill the vegetation. The specified soil residual herbicide shall be applied to the prepared subgrade prior to placing base rock.

The material to be used must be registered for use under pavement in the State of Washington by the Washington State Department of Agriculture. Before use, the CONTRACTOR shall submit to the ENGINEER and obtain approval of the material to be used and the proposed rate of application. The following information shall be included in the request for approval of the material: name of material, state registration number, manufacturer, and proposed rate of application.

Application of the herbicide shall be performed in accordance with SWSS 5-04.3(5)D as herein modified.

2-23.02 MEASUREMENT AND PAYMENT

The unit contract price for "Soil Herbicide," per Acre, shall be full compensation for furnishing all materials, labor, equipment, and all other incidentals required to complete the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-24 EXTRUDED CONCRETE CURB

2-24.01 GENERAL

Extruded concrete curb shall be installed where shown and as detailed on the PLANS or as directed by the ENGINEER.

2-24.02 MATERIALS AND CONSTRUCTION

All materials and construction shall be in accordance with the City of Sunnyside Standard Drawings 2-11 and 2-14 and SWSS Section 8-04.3 as herein modified.

2-24.03 MEASUREMENT AND PAYMENT

The unit contract price for "Extruded Concrete Curb," per Linear Foot, shall be full compensation for all labor, equipment, materials, and all other incidentals necessary for complete installation in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-25 SIDEWALK RAMPS

2-25.01 GENERAL

At all terminal end points of concrete sidewalks, the CONTRACTOR shall construct a sidewalk ramp as per City of Sunnyside Standard Drawing 2-15. Maximum slope on the ramp shall be 12:1. All construction and materials shall be as per Sections 2-6, 2-8 and 2-12 of the City of Sunnyside Standard SPECIFICATIONS.

2-25.02 MEASUREMENT AND PAYMENT

Construction of all "Sidewalk Ramp", shall be considered incidental to the construction of "Concrete Curb and Gutter", and "Concrete Sidewalk," respectively, and no additional compensation for all labor, equipment, materials, and all other incidentals will be offered to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-26 REMOVAL OF EXISTING STREET SIGNS

2-26.01 GENERAL

Traffic control measures shall be completed per Section 7 of these SPECIFICATIONS. Prior to beginning roadway construction, all signing and traffic control shall be in place and approved by the ENGINEER. Following completion of the installation of all required construction signing, detour signing, temporary stop signs, or other signing required by the traffic control plan or ENGINEER, the CONTRACTOR shall notify the inspector to schedule the removal of all existing City signs and posts by the Public Works Department crews. The CONTRACTOR shall allow a minimum of five working days for removal of the City signs and posts. The CONTRACTOR shall be fully responsible for all damage to the City signs as a result of his operations, prior to removal by the City crews.

2-26.02 MEASUREMENT AND PAYMENT

Removal of all existing street signs, shall be considered incidental to the contract for construction of the planned improvements and no additional compensation for all labor, equipment, materials, and all other incidentals will be offered to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-27 PROTECTION OF SEWER AND STORM SEWER MANHOLES

2-27.01 MANHOLE PROTECTION

Prior to beginning pavement removal, grading or excavation work in the vicinity of City sewer and storm sewer manholes, the CONTRACTOR shall install a 3/4-inch plywood, steel plate, or equal, cover at the bottom of the manhole over the channels. The protective manhole channelization cover shall be fully capable of preventing construction debris from entering the sewer or storm sewer channel or piping. This protective measure shall be in addition to covers placed over the upper manhole cover or sections.

All costs for repair and damages as a result of sewer blockages that result from improper protection of the manhole by the CONTRACTOR are the responsibility of the CONTRACTOR and will be billed to the CONTRACTOR. In addition, when City crews are called and required to clean the sewer main, or manhole(s) as a result of the CONTRACTOR's improper protection of the manhole, the CONTRACTOR will be billed for the City's maintenance costs.

Following completion of paving and adjustments, all collected debris and protective covers shall be removed by the CONTRACTOR. All labor, equipment and materials as required to complete the specified work shall be considered incidental to the other project work.

2-27.02 MEASUREMENT AND PAYMENT

Manhole protection efforts shall be considered incidental to the contract for construction of the planned improvements and no additional compensation for all labor, equipment, materials, and all other incidentals will be offered to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-28 CATCH BASIN PROTECTION

2-28.01 GENERAL

All existing and new catch basins on the project shall be protected by a manufactured sediment trap. The manufactured sediment trap shall be the "ultra drain guard" sediment only model 9226, as manufactured by BMP, or the sediment insert as manufactured by Specialty Products L.L.C., or equals. The trap shall be manufactured for the removal of dirt, sand and other sediment from stormwater using a minimum 8 oz. per square yard 180 EX non-woven polypropylene geotextile fabric, or approved equal. The trap shall have a round, or square shaped top, designed to insert under the catch basin grate, without folding. The sediment trap shall extend into the catch basin a minimum of 24-inches. Following placement, the excess fabric shall be trimmed approximately three inches outside of the grate.

On City administered contracts, the CONTRACTOR shall supply and install a manufactured sediment trap in each catch basin and secure the top under the grate of all existing and new catch basins on the project and downstream as directed by the ENGINEER. The top edges of the fabric shall be firmly sealed under the grate. Following completion of the construction project, the CONTRACTOR shall remove the sediment trap from all catch basins and clean the catch basin sumps.

On developer and permit projects, catch basins shall be protected as specified above. Where site work, building construction, home construction, etc. will be proceeding after the street construction is completed, the street CONTRACTOR shall remove the initial sediment trap and reinstall clean sediment trap, following cleaning of the catch basin sump. The initial sediment trap may be cleaned and reinstalled, providing that it is free of tears and holes.

Following completion of the street construction and during lot development and building construction, the building CONTRACTOR(s) will be required to provide silt fences, place course rock at the back of the driveway entrances, as required to keep dirt knocked off of vehicle tires and take other measures as required to maintain a clean street. When dirt does accumulate in the street or parking lot, the CONTRACTOR will be required to periodically shovel and sweep the pavement, as his operation requires. Failure of the builder to safeguard the street and other pavement areas, will require the builder to clean and maintain the catch basin filters contaminated by his activities; and in addition, if the builder fails to maintain the site as herein described, a building stop work order may be issued, or if the City crews, or City hired CONTRACTOR is required to clean up after the builder's activities, the builder will be billed for the City's clean up costs.

Following completion of the majority of the building activity in each development, the City Street Department will remove the filter traps from all catch basins.

2-28.02 MEASUREMENT AND PAYMENT

Catch Basin protection efforts shall be considered incidental to the contract for construction of the planned improvements and no additional compensation for all labor, equipment, materials, and all other incidentals will be offered to perform the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

2-29 ASPHALT CONCRETE PAVEMENT OVERLAY

2-29.01 GENERAL

This SPECIFICATION covers the furnishing of labor, equipment and materials required to construct one or more overlay courses of asphalt concrete pavement upon existing bituminous or asphalt wearing surfaces to the depth as indicated on the plans or as directed by the ENGINEER.

2-29.02

MATERIALS

A. TACK COAT

The tack coat shall be heated emulsified asphalt, cationic grade C.S.S.-1, in conformance with the requirements of the SWSS Section 5-04.3(5)A and 9-02.1(6) as herein modified. The tack coat shall be applied at the rate of 0.04 to 0.08 gallons per square yard of retained asphalt. The emulsified asphalt may be diluted with water at a rate not to exceed one (1) part water to one (1) part emulsified asphalt or as approved by the ENGINEER.

B. SYNTHETIC PAVEMENT OVERLAY FABRIC

Upon completion of all crack repairs and surface preparation, the Contractor shall place across the middle 48 feet (24feet each side of centerline) a synthetic paving fabric. This material shall be PetroMat non-woven paving fabric or an approved equivalent. The installation and placement of the fabric, and the application rate of the emulsified asphalt tack, shall be in accordance with the manufacturer's specifications for such material.

The Contractor shall be made aware of the fact that some lateral asphalt cracks extend beyond the limits of fabric placement as described above. The Engineer shall determine if any additional fabric shall be placed over the extended cracks.

Measurement and payment for "Synthetic Pavement Overlay Fabric" shall be made per Square Yard, and shall include all labor, equipment, materials,

and incidentals necessary, including the emulsified asphalt tack and application thereof, to complete this task, as described in these Contract Specifications or per the manufacturer specifications for installation of the same.

C. ASPHALT CONCRETE PAVEMENT

Asphalt concrete pavement shall be constructed in accordance with SWSS Section 5-04 for all projects involving Federal and State funds, loans or grants, and shall herein be modified as follows for all projects involving only CITY funds or private development funds:

Asphalt concrete overlay materials shall be one or more of the following asphalt mixtures, as per Section 2-8 of these SPECIFICATIONS.

2-29.03 CONSTRUCTION REQUIREMENTS

A. GENERAL

Paving shall be completed per the applicable provisions of SWSS Section 5-04 and as herein modified by these special provisions.

B. PREPARATION OF ROADWAY

Preparation of asphalt and bituminous surfaces shall be in accordance with SWSS Section 5-04.3(5)A or as directed by the ENGINEER to best meet surface and weather conditions and as herein modified. Tack coat shall be applied as required to provide a retained asphalt of .04 to .08 gallons per square yard. All overlay surfaces shall be swept by the CONTRACTOR prior to paving, unless otherwise provided for in the contract special provisions.

C. ASPHALT CONCRETE PAVEMENT PLACEMENT

Asphalt concrete pavement shall be constructed in accordance with SWSS Section 5-04 for all projects involving Federal and State funds, loans or grants, and shall herein be modified as follows for all projects involving only CITY funds or private development funds:

The minimum temperature of the asphalt, when placed on the road surface, shall be no less than 260 degrees Fahrenheit.

SWSS Section 5-04.3(10)A shall be modified so that the use of pneumatic-tired rolling equipment shall be approved by the ENGINEER prior to paving operations.

Unless otherwise required by the special provisions or contract drawings "Class B" asphalt concrete paving shall be used for all paving lifts and "Class G" asphalt concrete pavement, shall typically be used for utility adjustments and pre-leveling courses.

D. PROTECTING EXISTING IMPROVEMENTS

The CONTRACTOR shall cover all castings, such as manhole lids, water valve boxes, monuments, clean-outs, and catch basin grates, etc., with a suitable material covering to protect them from asphalt materials being sprayed, splashed, or spilled. Existing concrete structures shall also be protected from liquid asphalt materials. Manhole channels shall be protected during utility adjustments as required to prevent debris from entering the channel.

The CONTRACTOR shall be responsible for cleaning asphalt material from all such structures when, in the opinion of the ENGINEER, protection, as required, is not taken or is insufficient.

All costs for repair and damages as a result of sewer blockages that result from improper protection of the manhole by the CONTRACTOR, are the responsibility of the CONTRACTOR and will be billed to the CONTRACTOR. In addition, when City crews are called and required to clean the sewer main or manhole(s) as a result of the CONTRACTOR's improper protection of the manhole, the CONTRACTOR will be billed for the City's maintenance costs.

E. LOCATION REFERENCE FOR VALVE BOXES AND MANHOLES

Prior to removal of pavement or excavation around existing utilities, the CONTRACTOR shall reference valve boxes and manholes with a minimum of two references. A reference drawing and notes shall be prepared, and two copies given to the City representative prior to removal of valve boxes or manhole covers. When new valves or manholes are constructed in

conjunction with the street construction, they shall be similarly referenced prior to continuing work over the utility.

2-29.04 WEIGHING

All weighing of the ACP Overlay shall be per Section 2-9 of these Specifications.

2-29.05 UTILITY ADJUSTMENT TO GRADE

Any monument, manhole, valve box, clean-out, air-release valve, etc., which in the opinion of the ENGINEER requires adjustment to finished grade, shall be brought to grade after placing asphalt concrete pavement, by removing or adding adjustment rings.

The existing pavement shall be cut to a neat diameter adequate to accommodate the cast iron frame and pavement patch. The existing asphalt and road base materials shall be removed and the cast iron frames adjusted to finish grade by the use of concrete adjusting rings and/or as shown by City of Sunnyside Standard Drawing 3-4. The CONTRACTOR may also elect to use prefabricated cast iron adjusting devices with the approval of the ENGINEER.

2-29.06 MEASUREMENT AND PAYMENT

Payment will be made for each of the following bid items as they may appear on the contract proposal.

ASPHALT CONCRETE PAVEMENT

The unit contract price for "Asphalt Concrete Pavement ", per Ton, shall be full compensation for all labor, equipment, and materials including, but not limited to: permanent placements of all asphalt paving materials, tack coat, anti-stripping additive, temporary striping, removing temporary striping, for, temporary placement of all asphalt paving materials for patching, filling, leveling, or construction of temporary roads for construction access or detour routes, watering, compaction, finish grading, hauling, stockpiling, loading, and all other incidentals as may be required to achieve a finished asphalt pavement surface, complete in-place, the lines and grades as shown on the PLANS and to complete the work in accordance with the PLANS and SPECIFICATIONS or as directed by the ENGINEER.

ADJUST CASTINGS TO GRADE

The unit contract price for "Utility Adjustment to Grade", shall be on a per Each basis and shall be full compensation for all asphalt cutting, removal and disposal of waste materials, adjusting block

and/or rings, resetting new or existing frames to finished road grade, placing concrete, grouting as required, asphalt pavement patch, supply new materials and replacement of substandard valve boxes including installation of valve nut extensions, manhole covers where directed, and all other incidental work, labor and equipment work, labor, and equipment necessary to adjust the particular casting to grade.

2-30 TRAFFIC CONTROL

2-30.01 GENERAL

Traffic control personnel and/or devices will be required when the CONTRACTOR is working in public right-of-way, to direct and protect vehicular and pedestrian traffic.

All traffic control devices shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices." The CONTRACTOR's attention is hereby directed to the requirements of Section 6 of these SPECIFICATION's.

2-31 ASPHALT PATCHING

2-31.01 GENERAL

The work covered in this section shall apply to the removal and replacement of sections of rough or deteriorated paved surfaces which require repair prior to being overlaid with asphalt concrete pavement.

2-31.02 MATERIALS

A. CRUSHED ROCK

The 1 ¼" crushed rock shall be per SWSS Section 9-03.9(3), and shall be compacted to 95 percent maximum density measured in accordance with SWSS Section 4-04.3(5).

B. ASPHALT PAVEMENT

"Class G" or "B Modified" asphalt concrete pavement shall be in accordance with Section 3-1.02 of these SPECIFICATION'S.

When patching and when widening existing pavement, the CONTRACTOR shall apply an approved asphalt tack coat, per Section 3-1.02(A), to the vertical edges of the cut lines of the patch to seal and bond the new asphalt to the existing pavement.

2-31.03 CONSTRUCTION

Where shown on the plans or as directed by the ENGINEER, the CONTRACTOR shall neat cut the existing asphalt surfacing a minimum of six inches (6") outside the edges of the damaged surface to be removed. All pavement cuts shall be made with straight edges and vertical faces. The deteriorated asphalt, together with any unsatisfactory native or base materials, shall be broken up, loaded, hauled away, and disposed of by the CONTRACTOR at a disposal site secured by the CONTRACTOR.

The subgrade within the patch area shall be prepared in accordance with SWSS 2-06 and as herein modified unless otherwise provided by the contract special provisions. The subgrade shall be compacted to provide for the placement of six inches (6") of 1 ¼" minus crushed rock and two inches (2") of asphalt concrete pavement, on all neighborhood streets and a minimum of nine inches (9") of 1 ¼" minus crushed rock and three (3") of ACP on all other streets.

2-31.04 MEASUREMENT AND PAYMENT

The unit contract price for "Asphalt Patching," per Square Yard, shall be full compensation for furnishing all labor, materials, equipment and all other incidentals required to complete the work as specified or as directed by the ENGINEER.

2-32 PRELEVELING ASPHALT

2-32.01 GENERAL

The work covered in this section shall apply to the placing of asphalt paving materials on existing paved or oiled surfaces to fill and smooth out minor surface depressions and irregularities.

2-32.02 CONSTRUCTION

The paved surface area to be leveled shall be prepared in accordance with SWSS Section 5-04.3 (5)A.

2-32.03 MATERIALS

Tack coat and asphalt materials used in the performance and completion of this item shall be accordance with the requirements of Section 3-1.02(A) and 3-1.02(B) of these SPECIFICATION's.

2-32.04 MEASUREMENT AND PAYMENT

When provided for in the bid proposal, the unit contract price for "Preleveling Asphalt," per Ton, shall be full compensation for furnishing all labor, equipment, materials, and all other incidentals required to complete the work as specified or as directed by the ENGINEER. When a separate bid item is not provided, all costs for preleveling shall be incorporated into the bid items as provided for in the bid proposal.

2-33 CRACK SEALANT

2-33.01 GENERAL

Crack sealant shall be installed in accordance with Section 5-04.3(5) C of the State of Washington Standard SPECIFICATIONS, except as herein modified, and the manufacturers recommendations. Materials shall meet the requirements of Section 9-04.10 of the State of Washington Standard SPECIFICATIONS.

Sealant shall be applied at all cracks greater than 1/8-inch, including joints at street-cut patches, utility adjustments and at the joint between the pavement and the concrete curb and gutter. Cracks shall be cleaned using a compressed hot air/propane lance capable of burning off vegetation, heating and blowing the crack clear. The sealant shall be squeegee flushed with the pavement and allowed to cure, prior to removing traffic control. Crack sealant shall not be applied to alligatored pavement, except for minor areas adjoining a crack being sealed, unless alligatored pavement sealing is required by the contract special provisions.

2-33.02 MEASUREMENT

Measurement for "Crack Sealant", shall be made along the centerline of the specified streets. The CONTRACTOR shall make all site investigations necessary as to the quantity of crack sealing to be performed at each location.

2-33.03 PAYMENT

The unit contract price, per mile of street for "Crack Sealant" shall be full compensation for all labor, equipment, materials and all incidentals required to install crack sealant in accordance with the manufacturer's recommendations, the State of Washington Standard SPECIFICATIONS and these special provisions.

2-33.04 TRAFFIC CONTROL

The CONTRACTOR shall provide traffic control per City of Sunnyside Standard SPECIFICATIONS Section 6. The CONTRACTOR shall conduct his operations so as to maintain two-way traffic at all times.

2-33.05 NOTIFICATIONS

The CONTRACTOR shall provide written notification to businesses and property owners a minimum of 24-hours, and a maximum of 72-hours, in advance of commencing crack sealing operations or blocking parking areas at any of the project locations. The notices shall provide a brief explanation of the scope of work and the name and phone number of a CONTRACTOR contact person. The CONTRACTOR shall provide barricades, cones, etc. as required for parking area closures following distribution of notices. All costs for providing and distributing notices, and for providing and erecting barricades, cones, etc. for parking area closures shall be included in the lump sum contract price for "Traffic Control".

2-33.06 TAXES

The City of Sunnyside is exempt from paying sales tax for crack sealing. The CONTRACTOR shall include applicable use taxes into the unit bid prices as provided in the bid proposal.