City of Weslaco

"The City on the Grow"

David Suarez, Mayor
Olga M. Noriega, Mayor Pro-Tem, District 3
Leo Muñoz, Commissioner, District 1
Greg Kerr, Commissioner, District 2
Gerardo "Jerry" Tafolla, Commissioner, District 4
Letty Lopez, Commissioner, District 5
Fidel L. Pena, III, Commissioner, District 6

Mike R. Perez, City Manager

April 21, 2016

Parking Lot @ Mayor Pablo G. Peña City Park

Re: Clarifications for Addendum No. 1

Bidders:

As per our Pre-Bid Meeting on April 20, 2016, please find the requested clarifications below:

1. Sheet C-2 – Existing BBQ Pits, Trash Cans, Tables, Seats and Trees will be removed by City Parks Department Personnel.
2. Sheets C-2 and C-5 – Northeast paved area. This area will have asphalt removed, flexible base reworked and new 2" HMAC placed. Curb and gutter will remain in place.
3. Sheet C-6 – Erosion control measures have been extended in the northeast area.
4. Sheet C-9 – Detail for pavement cross-section has been modified to show 2" of HMAC, 8" of Flexible Base and 6" of Subbase with 2% lime treatment per weight.
5. Specification 00627 – has been removed.
6. Pavement markings call outs have been added.
7. Ensure SW3P is maintained through the duration of construction. Failure to comply will entitle construction inspectors to stop work.

Should you need additional information or have any questions, please call the Planning Department at (956) 447-3403.

Sincerely,

, PE

Mardoqueo Hinojosa, P.E., CFM
Planning Director/City Engineer

TITLE SHEET

Document 00001

TITLE SHEET

PROJECT MANUAL
FOR
CITY OF WESLACO
Parking Lot @ Mayor Pablo G. Peña City Park

FOR

WESLACO, TEXAS

CITY ENGINEER

Signature

4/21/16 Addendum No. 1

Date

END OF DOCUMENT

Page Intentionally Blank

Document 00003

TABLE OF CONTENTS

SUPPLEMENTARY CONDITIONS

ADDENDA

(For filing) Documents listed "for filing" are to be provided by the Bidder and are not included in this Project Manual unless indicated for example only. The Document numbers and titles hold places for actual documents to be submitted by the Contractor during the bid, post-bid, or construction phase of the Project.

*1 For newspaper publication; not included as part of Project Manual.

SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

DIVISION 2-3 – TECHNICAL SPECIFICATIONS FOR WATER LINE INSTALLATION

END OF DOCUMENT

Page Intentionally Blank

Document 00405

SCHEDULE OF UNIT PRICE WORK

This Document, constitutes a Supplement to Document 00310 - Form of Proposal.
When a Contract is awarded, this Document becomes a supplement to Document 00500 - Form of Agreement Between Owner and Contractor.

Base Bid					
SPEC NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE (in figures)	UNIT TOTAL (in figures)
02316-1	EXCAVATION (ROADWAY)	3424	CY	$	$
02318	EXCAVATION (DETENTION)	1186	CY	$	$
02221-1	REMOVE ASPHALT PAVEMENT	369	SY	$	$
02221-2	REMOVE CONCRETE SIDEWALK	15	SY	$	$
02221-3	REMOVE CONCRETE CURB & GUTTER	477	LF	$	$
02100	SITE CLEARING	1	LS	$	$
01573-1	TEMPORARY SEDIMENT CONTROL FENCE	662	LF	$	$
01575	CONSTRUCTION ENTRANCE	78	SY	$	$
01573-2	INLET PROTECTION FILTER FABRIC	2	EA	$	$
03132	LIME TRT (EXIST MATL) (2% BY WEIGHT)	3611	SY	$	$
02047	FLEXIBLE BASE Type E Grade 3	3740	SY	$	$
02741	D-GR HMA TY-D (2IN THK)	3337	SY	$	$
02744	CUT & RESTORE PAVEMENT	220	SY	$	$
02771-1	CONCRETE CURB & GUTTER (18IN)	760	LF	$	$
02771-2	CONCRETE CURB (6IN)	1587	LF	$	$
02771-3	CONCRETE VALLEY GUTTER (3FT)	440	LF	$	$
02775	CONCRETE SIDEWALK (5FT)	585	LF	$	$
02771-4	CONCRETE FLUME (2FT)	30	LF	$	$
01561	TRENCH EXCAVATION PROTECTION	316	LF	$	$
02720-1	12IN HDPE PIPE	46	LF	$	$
02720-2	18IN HDPE PIPE	125	LF	$	$
02720-3	24IN HDPE PIPE	396	LF	$	$
03532-1	RIP-RAP (4IN)	5	CY	$	$
03532-2	CONCRETE SLOPED-END SECTION	3	EA	$	$
02720-4	GRATE INLET (2FTx2FT)	1	EA	$	$
02720-5	GRATE INLET (4FTx4FT)	1	EA	$	$
	GALVANIZED PLATE (5FTX1FT)	1	EA	$	$
	CONCRETE WHEEL STOPS	23	EA	$	$
02580-1	REFL PAV MRK TY I (W) 4IN (SLD)	1521	LF	$	$
02580-2	REFL PAV MRK TY I (W) 24IN (SLD)	32	LF	$	$
02580-3	REFL PAV MRK TY I (W) (ARROW)	3	EA	$	$
02580-4	REFL PAV MRK TY I (W) (DBL ARROW)	1	EA	$	$
02580-5	REFL PAV MRK TY I (W) (SYMBOL)	4	EA	$	$

	MISCELLANEOUS SIGNS & HARDWARE	21	EA	$	$
	ELECTRICAL CONDUIT	160	LF	$	$
	CONCRETE BOLLARDS	4	EA	$	$
	CONCRETE DUMPSTER PAD	8	CY	$	$
02711	WOOD FENCE (8FT)	30	LF	$	$
01725	FIELD SURVEYING	1	LS	$	$
				Base Bid Total	$
In case of DISCREPANCIES, Unit Price RULES OVER Unit Total and Total Amounts.					

TOTAL BID PRICE (Total Unit Prices)

$_____

Notes:

(1) United States Dollars. In the event of a discrepancy, this column shall govern.

Project:_____

Project No._____ Bidder's Signature:_____

Company:_____ Name: _____

Date:_____ Title:_____

END OF DOCUMENT

Section 02047

FLEXIBLE BASE

PART 1 GENERAL

1.01 SECTION INCLUDES

This work shall consist of furnishing and placing a foundation course for surface courses or for other base courses.

1.02 MEASUREMENT AND PAYMENT

A. Unit Prices.

1. Flexible base will be measured by the square yard of surface area of completed, placed thickness and accepted work based on the width of flexible base as shown on the plans.

2. The accepted quantities of flexible base of the type, grade, and compaction method specified will be paid at the contract unit price per square yard, complete in place.

3. All sprinkling, rolling, and manipulation required will not be paid for directly, but will be considered incidental work.

4. Passing "Density Control" tests shall be paid by the OWNER. Failing "Density Control" tests shall be paid by the CONTRACTOR.

5. The unit prices bid shall each be full compensation for shaping and fine grading the roadbed; for securing and furnishing all materials, including all royalty and freight involved; for furnishing scales and labor involved in weighing the material when required; for loosening, blasting, excavating, screening, crushing and temporary stockpiling when required; for loading all materials for all hauling and delivering. on the road; for spreading, mixing, blading, dragging, shaping and finishing and for all manipulation, labor, tools and incidentals necessary to complete the work.

6. Refer to Section 01270 - Measurement and Payment for unit price procedures.

B. Stipulated Price (Lump Sum). If Contract is Stipulated Price Contract, payment for work in this Section is included in total Stipulated Price.

1.03 SUBMITTALS

A. Conform to requirements of Section 01330 - Submittal Procedures.

B. Submit material and details of following items for approval:

1. Proposed material source location
2. Proctor of the material
3. Liquid Limit of the material
4. Plasticity Index of the material
5. Wet Ball Mill of the material
6. Gradation of the material

PART 2 PRODUCTS

2.01 MATERIALS

A. Flexible base shall be composed of either caliche (argillaceous limestone, calcareous or calcareous clay particles, with or without stone, conglomerate, gravel, sand or other granular materials), crushed stone, or gravel.

B. When lime stabilization of the sub-grade is specified, the flexible base is to be added in accordance with Section 260, Lime stabilization.

C. Materials for flexible base shall be crushed as necessary to comply with the requirements hereinafter specified.

D. Materials shall consist of durable course aggregate particles mixed with approved binding materials.

2.02 FLEXIBLE BASE LIME STABILIZATION

Where shown on the plans, or directed by the ENGINEER, material for flexible base shall be lime stabilized in accordance with the provisions of Section 020XX – Lime Stabilization.

2.03 FLEXIBLE BASE TYPES

Material Types. Do not use fillers or binders unless approved. Furnish the type specified on the plans in accordance with the following:

Type A. Crushed stone produced and graded from oversize quarried aggregate that originates from a single, naturally occurring source. Do not use gravel or multiple sources.

Type B. Crushed or uncrushed gravel. Blending of 2 or more sources is allowed.

Type C. Crushed gravel with a minimum of 60% of the particles retained on a No. 4 sieve with 2 or more crushed faces as determined by Tex-460-A, Part I. Blending of 2 or more sources is allowed.

Type D. Type A material or crushed concrete. Crushed concrete containing gravel will be considered Type D material. Crushed concrete must meet the requirements in Section 247.2.1.3.2., "Recycled Material (Including Crushed Concrete) Requirements," and be managed in a way to provide for uniform quality. The Engineer may require separate dedicated stockpiles in order to verify compliance.

Type E. Caliche, iron ore or as otherwise shown on the plans.

TABLE 1

Property	Test Method	Grade 1–2	Grade 3	Grade 4[2]	Grade 5
Sampling	Tex-400-A				
Master gradation sieve size (cumulative % retained)	Tex-110-E			As shown on the plans	
2-1/2"		0	0		0
1-3/4"		0–10	0–10		0–5
7/8"		10–35	–		10–35
3/8"		30–65	–		35–65
#4		45–75	45–75		45–75
#40		65–90	50–85		70–90
Liquid Limit, % Max	Tex-104-E	40	40	As shown on the plans	35
Plasticity Index, Max[1]	Tex-106-E	10	12	As shown on the plans	10
Plasticity index, Min[1]		As shown on the plans	As shown on the plans	As shown on the plans	As shown on the plans
Wet ball mill, % Max	Tex-116-E	40	–	As shown on the plans	40
Wet ball mill, % Max increase passing the #40 sieve		20	–	As shown on the plans	20
Min compressive strength, psi	Tex-117-E			As shown on the plans	
lateral pressure 0 psi		35	–		–
lateral pressure 3 psi		–	–		90
lateral pressure 15 psi		175	–		175

2.04 PHYSICAL REQUIREMENTS

A. All flexible bases shall, when tested in accordance with standard laboratory test procedures, meet the physical requirements set forth in Table 1.

B. Testing of flexible base materials shall be in accordance with the following test procedures:

TEST	TESTING PROCEDURE
Preparation for soil constants and sieve analysis	TEX-101-E
Liquid Limit	TEX-104-E
Plastic Limit	TEX-105-E

Plasticity Limit	TEX-106-E
Sieve Analysis	TEX-110-E
Wet Ball Mill	TEX-116-E
Triaxial Test	TEX-117-E (Part I or II)

C. Unless otherwise specified on the plans, samples for testing the material for Soil Constants, Gradation and Wet Ball Mill shall be taken prior to the compaction operations.

D. Unless otherwise specified on the plans, samples for triaxial tests shall be taken from the stockpile or from production, as directed by the ENGINEER, where stockpiling is required and from production where stockpiling is not required.

2.05 MATERIAL TOLERANCES

A. The limits establishing reasonable close conformity with the specified gradation and plasticity index are defined by the following:

1. The ENGINEER may accept the material, providing not more than 2 of 10 consecutive gradation tests performed are outside the specified limits on any individual or combination of sieves by no more than 5% and where no two consecutive tests are outside the specified limits.

2. The ENGINEER may accept the material providing not more than 2 of 10 consecutive plasticity index samples tested are outside the specified limit by no more than two points and where no two consecutive tests are outside the specified limit.

2.05 STOCKPILING:

A. When specified on the plans, the material shall be stockpiled prior to delivery on the road. The stockpile shall be not less than the height indicated and shall be made up of layers of material not to exceed the depth shown on the plans.

B. After a sufficient stockpile has been constructed as specified on the plans, the CONTRACTOR may proceed with loading from the stockpile for delivery to the road.

C. In loading from the stockpile for delivery to the road, the material shall be loaded by making successive vertical cuts through the entire depth of the stockpile.

D. If the CONTRACTOR elects to produce the Type "A" material from more than one material or more than one source, each material shall be crushed separately and placed in separate stockpiles so that at least 75 percent of the material in the course aggregate stockpiles will be retained on the No. 4 sieve and at least 70 percent of the material in the

fine aggregate stockpile will pass the No. 4 sieve.

E. The materials shall be combined in a central mixing plant in the proportions determined by the ENGINEER to produce a uniform mixture which meets all of the requirements of the specification. In the event that combinations of the materials produced fail to meet all of the specification requirements, the CONTRACTOR will be required to secure other materials which will meet specifications requirements.

F. The central mixing plant shall be either the batch or continuous flow type, and shall be equipped with feeding and metering devices which will add the materials into the mixer in the specified quantities.

G. Mixing shall continue until a uniform mixture is obtained.

PART 3 - EXECUTION

3.01 PREPARATION OF SUBGRADE:

A. Flexible base shall be constructed as specified herein in one or more courses in conformance with details, lines and grades shown on the plans, and as established by the ENGINEER.

B. Type roadbed shall be excavated and shaped in conformity with the typical sections shown on the plans and to the lines and grades as established by the ENGINEER.

C. All unstable or otherwise objectionable material shall be removed from the subgrade and replaced with approved material.

D. All holes, ruts and depressions shall be filled with approved material and, if required, the subgrade shall be thoroughly wetted with water and reshaped and rolled to the extent directed in order to place the subgrade in an acceptable condition to receive the base material.

E. The surface of the subgrade shall be finished to line and grade as established and in conformity with the typical section shown on plans, and any deviation in excess of 1/2 inch in cross section and in a length of 16-feet measured longitudinally shall be corrected by loosening, adding or removing material, reshaping and recompacting by sprinkling and rolling.

F. Sufficient subgrade shall be prepared in advance to insure satisfactory prosecution of the work.

G. Material excavated in the preparation of the subgrade shall be utilized in the construction of adjacent shoulders and slopes or otherwise disposed on as directed, and any additional material required for the completion of the shoulders and slopes shall be secured from sources indicated on plans or as directed by the Engineer.

3.02 PLACEMENT OF FIRST COURSE - ALL MATERIAL TYPES

A. Immediately before placing the base material, the subgrade shall be checked as to conformity with grade and section.

B. The material shall be delivered in approved vehicles of a uniform capacity, and it shall be the charge of the CONTRACTOR that the required amount of specified material shall be delivered in each 100- foot station.

C. Material deposited upon the subgrade shall be spread and shaped the same day.

D. In the event inclement weather or other unforeseen circumstances render impractical the spreading of the material during the first 24-hour period, the materials shall be scarified and spread as directed by the Engineer.

E. The material shall be sprinkled, if directed, and shall then be bladed, dragged and shaped to conform to typical sections as shown on plans.

F. All areas and "nests" of segregated coarse or fine material shall be corrected to removed and replaced with well graded material, as directed by the ENGINEER.

G. If additional binder is considered desirable or necessary after the material is spread and shaped, it shall be furnished and supplies in the amount directed by the ENGINEER. Such binder material shall be carefully and evenly incorporated with the material in place by scarifying, harrowing, brooming or by other approved methods.

H. The course shall be compacted by method of compaction hereinafter specified as the "Ordinary Compaction" method or the "Density Control" method of compaction as indicated on the plans, or as directed by the ENGINEER.

1. When the "Ordinary Compaction" method is to be used, the following provisions shall apply:

a. The course shall be sprinkled as required and rolled as directed until a uniform compaction is secured. Throughout this entire operation, the shape of the course shall be maintained by blading and the surface upon completion shall be smooth and in conformity with the typical sections shown on plans and to the established lines and grades.

b. In that area on which pavement is to be placed, any deviation in excess of 1/4 inch in cross section in a length of 16 feet measured longitudinally shall be corrected by loosening, adding or removing material, reshaping and recompacting by sprinkling and rolling.

c. All irregularities, depressions or weak spots which develop shall be corrected immediately by scarifying the areas affected, adding suitable material as required, reshaping and recompacting by sprinkling and rolling.

2. When the "Density Control" method of compaction is to be used, the following provisions shall apply:

a. The course shall be sprinkled as required and compacted to the extent necessary to provide not less than the percent density as hereinafter specified under "Density".

b. In addition to the requirements specified for density, the full depth of the flexible base shown on the plans shall be compacted to the extent necessary to remain firm and stable under construction equipment.

c. After each section of flexible base is completed, density tests shall be performed as required by the ENGINEER. If the material fails to meet the density requirements, it shall be reworked as necessary to meet the density requirements.

d. Throughout this entire operation, the shape of the course shall be maintained by blading, and the surface upon completion shall be smooth and in conformity with the typical sections shown on the plans and to the established lines and grades.

e. In that area on which pavement is to be placed, any deviation in excess of 1/4 inch in cross section in a length of 16 feet measured longitudinally shall be corrected by loosening, adding or removing material, reshaping and recompacting by sprinkling and rolling.

f. All irregularities, depressions or weak spots which develop shall be corrected immediately by scarifying the areas affected, adding suitable material as required, reshaping and recompacting by sprinkling and rolling.

I. Should the base course, due to any reason or cause, lose the required stability, density or finish before the surfacing is complete, it shall be recompacted and refinished at the sole expense of the CONTRACTOR.

3.05 PLACEMENT OF SUCCEEDING COURSES - ALL MATERIAL TYPES

A. Construction methods shall be the same as prescribed for the first course.

B. Prior to placing the surfacing on the completed base, the base shall be "dry cured" to the extent directed by the ENGINEER.

3.06 DENSITY CONTROL

A. When the "Density Control" method of compaction is indicated on the plans, each course of flexible base shall be compacted to the percent density shown on the plans.

B. The testing will be as outlined in TX DOT Test Method Tex-114-E.

C. It is the intent of this specification to provide the base material below the finished surface of the roadway not less than 98 percent of the density as determined by the compaction ratio method.

D. Field density determination shall be made in accordance with TX DOT Test Method Tex-115-E.

3.07 TOLERANCES

A. When tolerances are permitted by the plans, the limits establishing reasonable close conformity with percent density specified are defined by the following:

1. The ENGINEER may accept the work providing not more than 25 percent of the density tests performed each day are outside the specified density by no more than three pounds per cubic foot and where no two consecutive tests on continuous work are outside the specified limits.

END OF SECTION

Section 03132

LIME TREATMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

This work shall consist of furnishing and placing a foundation course for surface courses or for other base courses.

1.02 MEASUREMENT AND PAYMENT

A. Unit Prices.

1. Lime. When lime is furnished in trucks, the weight of lime will be determined on certified scales, or the Contractor must provide a set of standard platform truck scales at a location approved by the Engineer. Scales must conform to the requirements of TxDOT Item 520, “Weighing and Measuring Equipment.”
2. When lime is furnished in bags, indicate the manufacturer’s certified weight. Bags varying more than 5% from that weight may be rejected. The average weight of bags in any shipment, as determined by weighing 10 bags taken at random, must be at least the manufacturer’s certified weight.
3. Refer to Section 01270 - Measurement and Payment for unit price procedures.

B. Stipulated Price (Lump Sum). If Contract is Stipulated Price Contract, payment for work in this Section is included in total Stipulated Price.

PART 2 PRODUCTS

2.01 MATERIALS

Furnish uncontaminated materials of uniform quality that meet the requirements of the plans and specifications. Notify the Engineer of the proposed material sources and of changes to material sources. Obtain verification from the Engineer that the specification requirements are met before using the sources. The Engineer may sample and test project materials at any time before compaction. Use Tex-100-E for material definitions.

A. **Lime**. Furnish lime that meets the requirements of DMS-6350 “Lime and Lime Slurry,” and DMS-6330, “Pre-Qualification of Lime Sources.” Use hydrated lime, commercial lime slurry, quicklime, or carbide lime slurry as shown on the plans. Do not use quicklime when sulfates are present in quantities greater than 3,000 ppm. When furnishing quicklime, provide it in bulk.

B. **Subgrade**. The Engineer will determine the sulfate content of the existing subgrade in accordance with Tex-145-E and organic content in accordance with Tex-148-E before lime

treatment begins. Suspend operations when material to be treated has a sulfate content greater than 7,000 ppm or an organic content greater than 1.0% and proceed as directed.

C. **Flexible Base**. Unless otherwise shown on the plans, furnish base material that meets the requirements of Item 247, "Flexible Base," for the type and grade shown on the plans, before the addition of lime.

D. **Water**. Furnish water free of industrial wastes and other objectionable material.

E. **Asphalt**. When asphalt or emulsion is permitted for curing purposes, furnish materials that meet the requirements of Item 300, "Asphalts, Oils, and Emulsions," as shown on the plans or as directed.

F. **Mix Design**. The Engineer will determine the target lime content and optimum moisture content in accordance with Tex-121-E or prior experience with the project materials. The Contractor may propose a mix design developed in accordance with Tex-121-E. The Engineer will use Tex-121-E to verify the Contractor's proposed mix design before acceptance. Reimburse the Department for subsequent mix designs or partial designs necessitated by changes in the material or requests by the Contractor. Limit the amount of recycled asphalt pavement to no more than 50% of the mix unless otherwise shown on the plans or directed.

3.01. EQUIPMENT

Provide machinery, tools, and equipment necessary for proper execution of the work. Provide rollers in accordance with Item 210, "Rolling." Provide proof rollers in accordance with Item 216, "Proof Rolling," when required.

3.1. **Storage Facility**. Store quicklime and dry hydrated lime in closed, weatherproof containers.

3.2. **Slurry Equipment**. Use slurry tanks equipped with agitation devices to slurry hydrated lime or quicklime on the project or other approved location. The Engineer may approve other slurrying methods.

3.3. Provide a pump for agitating the slurry when the distributor truck is not equipped with an agitator. Equip the distributor truck with a sampling device in accordance with Tex-600-J, Part I, when using commercial lime slurry or carbide lime slurry.

3.4. **Hydrated Lime Distribution Equipment**. Provide equipment to spread lime evenly across the area to be treated. Provide equipment with a rotary vane feeder to spread lime, when shown on the plans.

3.5. **Pulverization Equipment**. Provide pulverization equipment that:
☐ cuts and pulverizes material uniformly to the proper depth with cutters that plane to a uniform surface over the entire width of the cut,
☐ provides a visible indication of the depth of cut at all times, and
☐ uniformly mixes the materials.

4. CONSTRUCTION

Construct each layer uniformly, free of loose or segregated areas, and with the required density and moisture content. Provide a smooth surface that conforms to the typical sections, lines, and grades shown on the plans or as directed.

4.1. **Preparation of Subgrade or Existing Base for Treatment**. Before treating, remove existing asphalt pavement in accordance with Item 105, "Removing Treated and Untreated Base and Asphalt Pavement," when shown on the plans or as directed. Shape existing material in accordance with applicable bid items to conform to typical sections shown on the plans and as directed.
Unless otherwise approved, proof roll the roadbed in accordance with Item 216, "Proof Rolling," before pulverizing or scarifying existing material. Correct soft spots as directed.
When material is imported from a borrow source, notify the Engineer of the location of the borrow source well in advance to allow time for testing and approval to avoid delay to the project. Stockpile as directed. The Engineer will test the borrow source and determine the sulfate and organic contents. When the borrow source has a sulfate content greater than 3,000 ppm or an organic content greater than 1.0%, proceed as directed.
When new base material is required to be mixed with existing base, deliver, place, and spread the new material in the required amount per station. Manipulate and thoroughly mix new base with existing material to provide a uniform mixture to the specified depth before shaping.

4.2. **Pulverization**. Pulverize or scarify existing material after shaping so that 100% passes a 2-1/2 in. sieve. If the material cannot be uniformly processed to the required depth in a single pass, excavate and windrow the material to expose a secondary grade to achieve processing to plan depth.

4.3. **Application of Lime**. Uniformly apply lime using dry or slurry placement as shown on the plans or as directed. Add lime at the percentage determined in Section 260.2.6., "Mix Design." Apply lime only on an area where mixing can be completed during the same working day.
Start lime application only when the air temperature is at least 35°F and rising or is at least 40°F. The temperature will be taken in the shade and away from artificial heat. Suspend application when the Engineer determines that weather conditions are unsuitable.
Minimize dust and scattering of lime by wind. Do not apply lime when wind conditions, in the opinion of the Engineer, cause blowing lime to become dangerous to traffic or objectionable to adjacent property owners. When pebble grade quicklime is placed dry, mix the material and lime thoroughly at the time of lime application. Use of quicklime can be dangerous. Inform users of the recommended precautions for handling and storage.

4.3.1. **Dry Placement**. Before applying lime, bring the prepared roadway to approximately 2 percentage points above optimum moisture content. When necessary, sprinkle in accordance with Item 204, "Sprinkling." Distribute the required quantity of hydrated lime or pebble grade quicklime with approved equipment. Only hydrated lime may be distributed by bag. Do not use a motor grader to spread hydrated lime.

4.3.2. **Slurry Placement**. Provide slurry free of objectionable materials, at or above the minimum dry solids content, and with a uniform consistency that will allow ease of handling and uniform

application. Deliver commercial lime slurry or carbide lime slurry to the jobsite, or use hydrated lime or quicklime to prepare lime slurry at the jobsite or other approved location, as specified. When dry quicklime is applied as slurry, use 80% of the amount shown on the plans.

Distribute slurry uniformly by making successive passes over a measured section of roadway until the specified lime content is reached. Uniformly spread the residue from quicklime slurry over the length of the roadway being processed, unless otherwise directed.

4.4. **Mixing**. Begin mixing within 6 hr. of application of lime. Hydrated lime exposed to the open air for 6 hr. or more between application and mixing, or that experiences excessive loss due to washing or blowing, will not be accepted for payment.

Thoroughly mix the material and lime using approved equipment. When treating subgrade, bring the moisture content above the optimum moisture content to insure adequate chemical reaction of the lime and subgrade materials. Allow the mixture to mellow for 1 to 4 days, as directed. When pebble grade quicklime is used, allow the mixture to mellow for 2 to 4 days, as directed. Sprinkle the treated materials during the mixing and mellowing operation, as directed, to achieve adequate hydration and proper moisture content. When the material to be treated has a sulfate content greater than 3,000 ppm but less than or equal to 7,000 ppm, mellow for a minimum of 7 days. Maintain in a continuously moist condition by sprinkling in accordance with Item 204, “Sprinkling.” After mellowing, resume mixing until a homogeneous, friable mixture is obtained. After mixing, the Engineer may sample the mixture at roadway moisture and test in accordance with Tex-101-E, Part III, to determine compliance with the gradation requirements in Table 1.

Table 1

Gradation Requirements (Minimum % Passing)

Sieve Size	Base	Subgrade
1-3/4"	100	100
3/4"	85	85
#4	–	60

4.5 **Compaction**. Compact the mixture using density control, unless otherwise shown on the plans. Multiple lifts are permitted when shown on the plans or approved. Bring each layer to the moisture content directed. Sprinkle the treated material in accordance with Item 204, “Sprinkling” or aerate the treated material to adjust the moisture content during compaction so that it is no more than 1.0 percentage points below optimum and 2.0 percentage points above optimum as determined by Tex-121-E. Measure the moisture content of the material in accordance with Tex-115-E or Tex-103-E during compaction daily and report the results the same day, unless otherwise shown on the plans or directed.

Begin rolling longitudinally at the sides and proceed toward the center, overlapping on successive trips by at least 1/2 the width of the roller unit. On superelevated curves, begin rolling at the low side and progress toward the high side. Offset alternate trips of the roller. Operate rollers at a speed between 2 and 6 mph as directed.

Before final acceptance, the Engineer will select the locations of tests in each unit and measure the treated depth in accordance with Tex-140-E. Correct areas deficient by more than 1/2 in. in thickness or more than 1/2% in target lime content by adding lime as required, reshaping, recompacting, and refinishing at the Contractor’s expense.

Rework, recompact, and refinish material that fails to meet or that loses required moisture, density, stability, or finish before the next course is placed or the project is accepted. Continue work until specification requirements are met. Rework in accordance with Section 260.4.6., "Reworking a Section." Perform the work at no additional expense to the Department.

4.5.1. **Ordinary Compaction**. Roll with approved compaction equipment, as directed. Correct irregularities, depressions, and weak spots immediately by scarifying the areas affected, adding or removing treated material as required, reshaping, and recompacting.

4.5.2. **Density Control**. The Engineer will determine roadway density and moisture content of completed sections in accordance with Tex-115-E. The Engineer may accept the section if no more than 1 of the 5 most recent density tests is below the specified density and the failing test is no more than 3 pcf below the specified density.

4.5.2.1. **Subgrade**. Compact to at least 95% of the maximum density determined in accordance with Tex-121-E, unless otherwise shown on the plans.

4.5.2.2. **Base**. Compact the bottom course to at least 95% of the maximum density determined in accordance with Tex-121-E, unless otherwise shown on the plans. Compact subsequent courses treated under this Item to at least 98% of the maximum density determined in accordance with Tex-121-E, unless otherwise shown on the plans.

4.6. **Reworking a Section**. When a section is reworked within 72 hr. after completion of compaction, rework the section to provide the required density. When a section is reworked more than 72 hr. after completion of compaction, add additional lime at 25% of the percentage determined in Section 260.2.6., "Mix Design." Reworking includes loosening, adding material or removing unacceptable material if necessary, mixing as directed, compacting, and finishing. When density control is specified, determine a new maximum density of the reworked material in accordance with Tex-121-E, and compact to at least 95% of this density.

4.7. **Finishing**. Immediately after completing compaction of the final course, clip, skin, or tight-blade the surface of the lime-treated material with a maintainer or subgrade trimmer to a depth of approximately 1/4 in. Remove loosened material and dispose of at an approved location. Roll the clipped surface immediately with a pneumatic tire roller until a smooth surface is attained. Add small amounts of water as needed during rolling. Shape and maintain the course and surface in conformity with the typical sections, lines, and grades shown on the plans or as directed.
Finish grade of constructed subgrade to within 0.1 ft. in the cross-section and 0.1 ft. in 16 ft. measured longitudinally.
Correct grade deviations of constructed base greater than 1/4 in. in 16 ft. measured longitudinally or greater than 1/4 in. over the entire width of the cross-section in areas where surfacing is to be placed. Remove excess material, reshape, and roll with a pneumatic-tire roller. Correct as directed if material is more than 1/4 in. low. Do not surface patch. The 72-hr. time limit required for completion of placement, compaction, and finishing does not apply to finishing required just before applying the surface course.

4.8. **Curing**. Cure for the minimum number of days shown in Table 2 by sprinkling in accordance with Item 204, "Sprinkling," or by applying an asphalt material at a rate of 0.05 to 0.20 gal. per square yard as directed. Maintain moisture during curing. Upon completion of curing, maintain the moisture content in accordance with Section 132.3.5., "Maintenance of Moisture and Reworking," for subgrade and Section 247.4.5., "Curing" for bases before placing subsequent courses. Do not allow equipment on the finished course during curing except as required for sprinkling, unless otherwise approved. Apply seals or additional courses within 14 calendar days of final compaction.

Table 2
Minimum Curing Requirements before Placing Subsequent Courses[1]

Untreated Material	Curing (Days)
PI ≤ 35	2
PI > 35	5

1. Subject to the approval of the Engineer. Proof rolling may be required as an indicator of adequate curing.

END OF SECTION

GENERAL NOTES:

1. Contractor shall contact the City of Weslaco Planning & Code Enforcement department 48 hours prior to start of any construction within project site.
2. Contractor to notify all utility companies within the construction area 48 hours prior to excavation near the utilities.
3. Contractor to verify location and elevation of existing facilities prior to construction of proposed facilities (no separate pay). Any discrepancies shall be brought to the attention of the City Engineer in writing prior to commencement of construction. Any damage to existing facilities incurred as a result of this construction operation will be repaired by the contractor at his own expense.
4. Maintain a minimum of 6 inches clearance between all utilities, unless otherwise noted.
5. Contractor to obtain all construction permits not supplied by owner at his expense prior to commencement of work.
6. Contractor shall give notice to all authorized inspectors, superintendents, or persons in charge of private and public utilities or railroads affected by his operations prior to commencement of work. Contractor shall assure himself that all construction permits have been obtained prior to commencement of work. Required permits that can only be issued to contractor will be obtained at his expense.
7. Contractor shall be responsible for maintaining adequate drainage at all times during construction of proposed facilities. Natural ground adjacent to utility trench excavation to be cleared and grubbed prior to placement of excess trench material (no additional payment – include in cost of underground utilities construction.)
8. Concrete Notes:
   A. All concrete work to be formed, unless otherwise approved.
   B. All concrete to be 3500-PSI minimum at 28 days, unless otherwise shown. Strength to be determined by cylinder break test.
   C. All reinforcing steel to be ASTM A-615, Grade 60, unless otherwise shown.
   D. All exposed concrete work to be chamfered. Demolition, removal, and disposal of all excess concrete, curbs, rubble, etc. to be done in a legal manner at contractor's expense.
9. Fill to be placed in maximum 6 inch lifts and compacted to a minimum of 98% standard proctor density per ASTM D-698, unless otherwise noted.
10. Contractor is responsible for cleaning mud and/or dirt tracked onto existing streets by his workmen's suppliers, or subcontractor's vehicles. Streets must be cleaned within 2 hours of when the tracking occurs. No separate pay.
11. Retesting of all utilities and acceptance by owner subsequent to the pavement construction will be the utility contractor's responsibility. No separate pay.
12. Contractor is hereby informed that all trenching and shoring will be done in strict accordance with the latest OSHA standards.
13. Where contractor's work and/or equipment cause an obstruction to traffic, contractor shall provide and install traffic control devices in accordance with part VI of the "Texas Manual on Uniform Traffic Control Devices" (Texas MUTCD, most recent edition as revised) during construction. A written traffic control plan shall be submitted prior to construction for review by the City Engineer & other appropriate persons.
14. Location of existing underground utilities and service lines (water, sewer, gas, telephone, electrical, etc.) are determined from available records and are approximate. Contractor to locate lines and/or obstructions ahead of excavation.
15. Any soil borings the contractor requires are to be done by the contractor at his expense.
16. Overhead lines may exist on the property. Clearly visible lines are not marked, and contractor to note their location prior to construction. Texas Law, Section 752, Health & Safety Code, forbids all activities in which persons or objects my come within six (6) feet of live overhead high voltage lines. Contractors are legally responsible for safety of construction workers under this law. This law carries both criminal and civil liability.
17. Any damages to fences, walks or private property shall be repaired by the contractor at the contractor's expense, no separate pay.
18. Contractor to make arrangements with the appropriate utility company for securing poles, if necessary, while construction passes by poles. Costs of securing poles will be paid for by the contractor. No separate pay.
19. Construction staking (alignment and grade) to be provided by the contractor at no separate pay.
20. Surplus excavated material shall be removed and disposed of off-site as directed by the City Engineer. If the City Engineer notifies the contractor that the owner does not have use for this material, the surplus material becomes the property of the contractor. And it is his responsibility to dispose of the material.
21. All work shall be done in accordance with applicable local requirements.
22. Contractor shall protect existing underground facilities during installation of proposed work.
23. Paved surfaces shall be protected from damage from tracked equipment.
24. Iron rods disturbed during construction to be replaced by registered public land surveyor to original property corner at no separate pay.
25. The contractor shall be responsible to maintain an updated redlined "as-built" set of plans on site for inspection by the City Engineer, the City Engineer's representative, and the Owner's representative.
26. Work performed under this contract is governed by requirements of several public governmental and private entities. Contractor shall comply with all requirements of governing entities.
27. Contractor to coordinate with the City of Weslaco Planning Department on work schedules, testing, general inspection, and existing lines.
28. All construction materials testing will be coordinated through City of Weslaco Planning & Code Enforcement Department.

EROSION CONTROL:

1. It is the intent of this suggested erosion control plan and within the specifications to be used as the general guidelines of the Storm Water Pollution Prevention Plan (SW3P) for this project to establish a minimum basis of compliance with federal regulations. Contractor shall prepare and submit a notice of intent per the requirements in the NPDES general permit. The contractor shall prepare the Storm Water Pollution Prevention Plan (SW3P) and be solely responsible for its implementation. The Storm Water Pollution Prevention Plan (SW3P) shall meet the requirements set forth in the Texas Commission on Environmental Quality (TCEQ) TPDES general permit for Region 6 for storm water discharges from construction sites.
2. The Storm Water Pollution Prevention Plan (SW3P) should address three goals:
   a. Diversion of upslope water around disturbed areas of the site;
   b. Limits the exposure of disturbed areas to the shortest duration possible; and
   c. Removal of sediment from storm water before it leaves the site.
3. The contractor shall make the Storm Water Pollution Prevention Plan (SW3P) available, upon request, to TCEQ.
4. The contractor must amend plans whenever there is a change in design, construction, operation, or maintenance of the plan, or when the existing plan proves ineffective. Modifications including design and all additional materials and work shall be accomplished by the contractor at no additional expense to the owner.
5. Stabilization measures are to be inspected at a minimum of once every 14 days and within 24 hours after any storm even greater than 0.5 inches. Repairs and inadequacies revealed by the inspection must be implemented within 7 calendar days following the inspection.
6. An inspection report that summarizes inspection activities and implementation of the Storm Water Pollution Prevention Plan (SW3P) shall be retained and made part of the plan.
7. All contractors and subcontractors identified in the plan must certify as to an understanding of the NDPES general permit before conducting any activity identified in the pollution prevention plan.
8. The contractor shall adopt appropriate construction site management practices to prevent the discharge of oils, grease, paints, gasoline, and other pollutants to storm water. Appropriate practices can include:
   a. Designating areas for equipment maintenance and repair;
   b. Regular collection of waste;
   c. Conveniently located waste receptacles; and
   d. Designating and controlling equipment wash down.
9. The contractor shall amend or modify this plan as required by construction means, methods and sequence. Modifications shall not compromise the intent of the requirements of law and this plan. Modifications shall not be basis for additional cost to the owner.
10. Areas of construction elsewhere on the job site shall conform to the details shown on the plans.
11. Borrow areas, if excavated, shall be protected and stabilized utilizing the plan details. All work shall conform to the governmental requirements and become part of the Storm Water Pollution Prevention Plan (SW3P). The work shall be done by the contractor at no additional expense to the owner.
12. All non-paved areas shall be mulched and seeded with erosion protection immediately upon completion of final grading. This includes all ditches and embankments. The contractor shall maintain final grading and keep seeded areas watered until fully established and accepted by the owner.
13. The contractor shall construct a stabilized construction exit at all traffic exit points prior to existing onto any paved roadway.

ESTIMATED QUANTITIES

BASE BID

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT
01725	FIELD SURVEYING	1	LS
02316-1	EXCAVATION (ROADWAY)	3424	CY
02318	EXCAVATION (DETENTION)	1186	CY
02221-1	REMOVE ASPHALT PAVEMENT	369	SY
02221-2	REMOVE CONCRETE SIDEWALK	15	SY
02221-3	REMOVE CONCRETE CURB & GUTTER	477	LF
02100	SITE CLEARING	1	LS
⚠1 01573-1	TEMPORARY SEDIMENT CONTROL FENCE	662	LF
01575	CONSTRUCTION ENTRANCE	78	SY
01573-2	INLET PROTECTION FILTER FABRIC	2	EA
⚠1 03132	LIME TRT (EXIST MATL) (2% BY WEIGHT)	3611	SY
02047	FLEXIBLE BASE (TYPE E, GRADE 3)	3740	SY
02741	D-GR HMA TY-D (2IN THK)	3337	SY
02744	CUT & RESTORE PAVEMENT	220	SY
02771-1	CONCRETE CURB & GUTTER (18IN)	760	LF
02771-2	CONCRETE CURB (6IN)	1587	LF
02771-3	CONCRETE VALLEY GUTTER (3FT)	440	LF
02775	CONCRETE SIDEWALK (5FT)	585	LF
02771-4	CONCRETE FLUME (2FT)	30	LF
01561	TRENCH EXCAVATION PROTECTION	316	LF
02720-1	12IN HDPE PIPE	46	LF
02720-2	18IN HDPE PIPE	125	LF
02720-3	24IN HDPE PIPE	396	LF
03532-1	RIP-RAP (4IN)	5	CY
03532-2	CONCRETE SLOPED-END SECTION	3	EA
02720-4	GRATE INLET (2FTx2FT)	1	EA
02720-5	GRATE INLET (4FTx4FT)	1	EA
	GALVANIZED PLATE (5FTX1FT)	1	EA
	CONCRETE WHEEL STOPS	23	EA
02580-1	REFL PAV MRK TY I (W) 4IN (SLD)	1521	LF
02580-2	REFL PAV MRK TY I (W) 24IN (SLD)	32	LF
02580-3	REFL PAV MRK TY I (W) (ARROW)	3	EA
02580-4	REFL PAV MRK TY I (W) (DBL ARROW)	1	EA
02580-5	REFL PAV MRK TY I (W) (SYMBOL)	4	EA
	MISCELLANEOUS SIGNS & HARDWARE	21	EA
	ELECTRICAL CONDUIT	160	LF
	CONCRETE BOLLARDS	4	EA
	CONCRETE DUMPSTER PAD	8	CY
02711	WOOD FENCE (8FT)	30	LF

CITY ON THE GROW — CITY OF WESLACO

PROPOSED PARKING LOT @ MAYOR PABLO G. PEÑA CITY PARK

WESLACO, TEXAS

SEAL:

STATE OF TEXAS — MARDOQUEO HINOJOSA — 107390 — LICENSED PROFESSIONAL ENGINEER

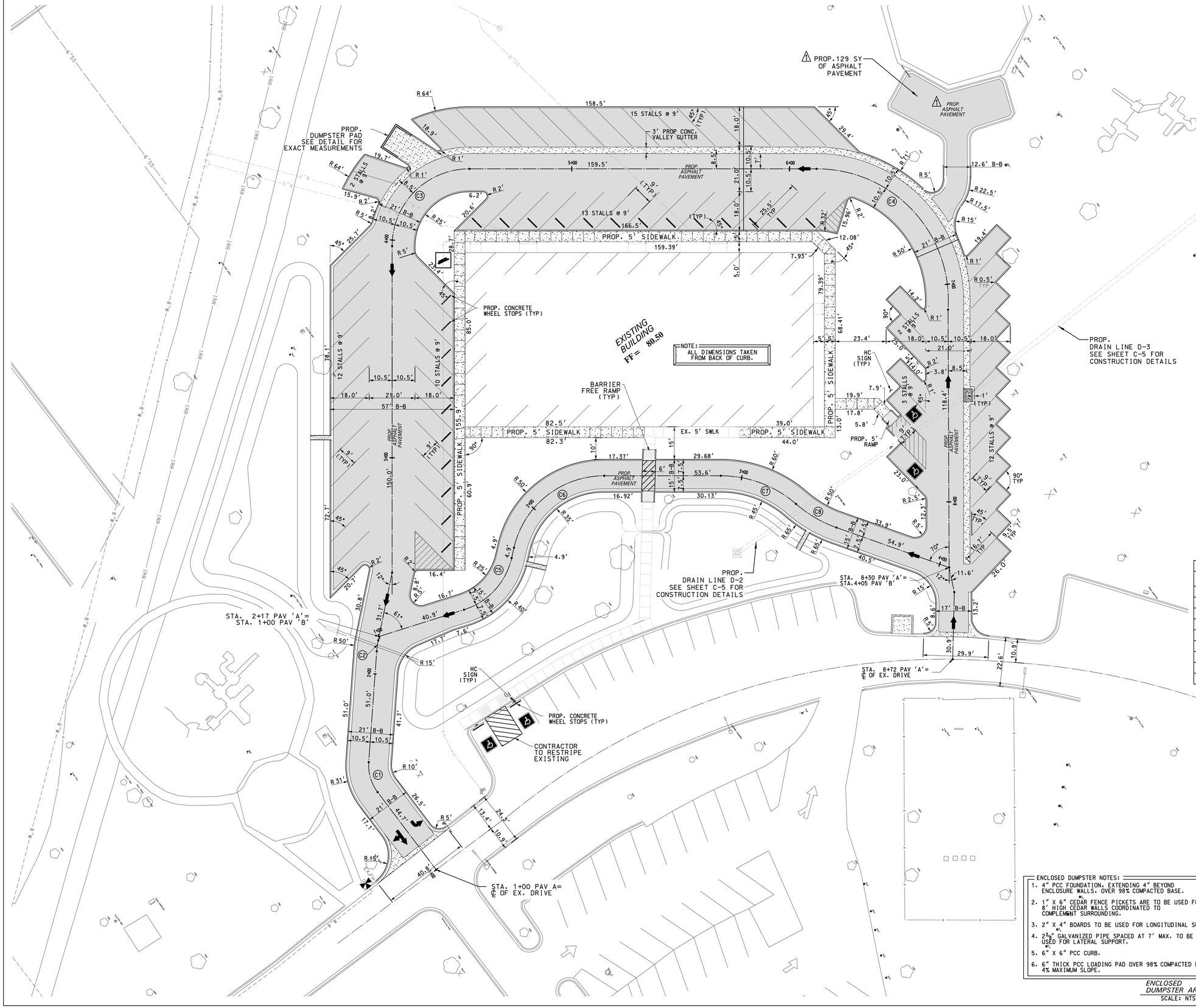
4-21-16

REVISIONS:

⚠1 SEDIMENT CONTROL FENCE QUANTITY
FLEXIBLE BASE TYPE & QUANTITY
LIME TREATMENT ITEM NUMBER

C-1

GENERAL NOTES/ EST. QUANTITIES



LEGEND

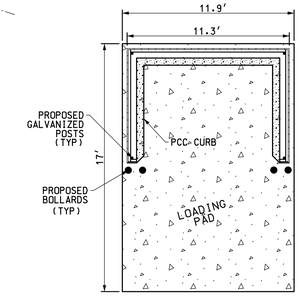
- EX. ELECTRIC BOX
- EX. 8" WATER LINE
- EX. 4" WATER LINE
- EX. MANHOLE
- EX. 6" SAN. SEWER LINE
- EX. IRRIGATION LINE
- EX. TREE
- EX. 8" SAN SEWER
- EX 2" WATER LINE
- EX. 6" WATER LINE
- EX. FDC LINE
- EX. FDC VALVE
- EX. CLEANOUT
- EX. TRASH DUMPSTER

BENCHMARK NOTES:

1. VERTICAL CONTROL POINT VALUES WERE OBTAINED BY REAL TIME KINEMATIC (RTK) GPS SESSIONS AND USING THE TEXAS RTK COOPERATIVE NETWORK. THE VERTICAL VALUES ARE BASED ON THE GEOID 12A ELLIPTICAL MODEL.
2. HORIZONTAL DATUM IS NAD83 (CORS96 EPOCH 2002.00) TEXAS STATE PLANE SOUTH ZONE (4205). VERTICAL DATUM IS NAVD88. THE GEOID MODEL USED FOR THE PROJECT IS GEOID 12A.
3. COORDINATES AND DISTANCES ARE IN U.S. SURVEY FEET DISPAYED IN GRID.
4. BENCHMARK 1
   N = 16585753
   E = 1155037
   EL = 79.20
   BENCHMARK 2
   N = 16585670
   E = 1154833
   EL = 83.79

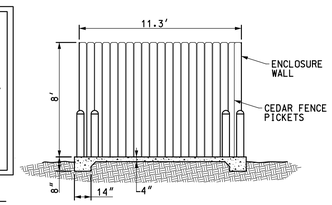
CENTERLINE CURVE SCHEDULE

CURVE ID	RADIUS	LENGTH	PC STATION	PT STATION
C1	20.5'	14.7'	1+44.70	1+59.40
C2	39.5'	5.1'	2+10.40	2+15.53
C3	35.5'	55.8'	3+97.20	4+53.03
C4	60.5'	99.2'	6+12.40	7+11.60
C5	32.5'	33.8'	1+41.00	1+74.80
C6	42.5'	57.2'	1+79.70	2+36.90
C7	52.5'	37.6'	2+90.36	3+28.00
C8	57.5'	21.7'	3+28.00	3+49.70



ENCLOSED DUMPSTER NOTES:

1. 4" PCC FOUNDATION, EXTENDING 4" BEYOND ENCLOSURE WALLS. OVER 98% COMPACTED BASE.
2. 1" X 6" CEDAR FENCE PICKETS ARE TO BE USED FOR 8' HIGH CEDAR WALLS COORDINATED TO COMPLEMENT SURROUNDING.
3. 2" X 4" BOARDS TO BE USED FOR LONGITUDINAL SUPPORT.
4. 2⅜" GALVANIZED PIPE SPACED AT 7' MAX. TO BE USED FOR LATERAL SUPPORT.
5. 6" X 6" PCC CURB.
6. 6" THICK PCC LOADING PAD OVER 98% COMPACTED BASE, 4% MAXIMUM SLOPE.



ENCLOSED DUMPSTER AREA
SCALE: NTS

CITY ON THE GROW
CITY OF WESLACO

PROPOSED PARKING LOT @ MAYOR PABLO G. PEÑA CITY PARK

WESLACO, TEXAS

SEAL:

STATE OF TEXAS
MARDOQUEO HINOJOSA
107390
LICENSED
PROFESSIONAL ENGINEER
04-21-16

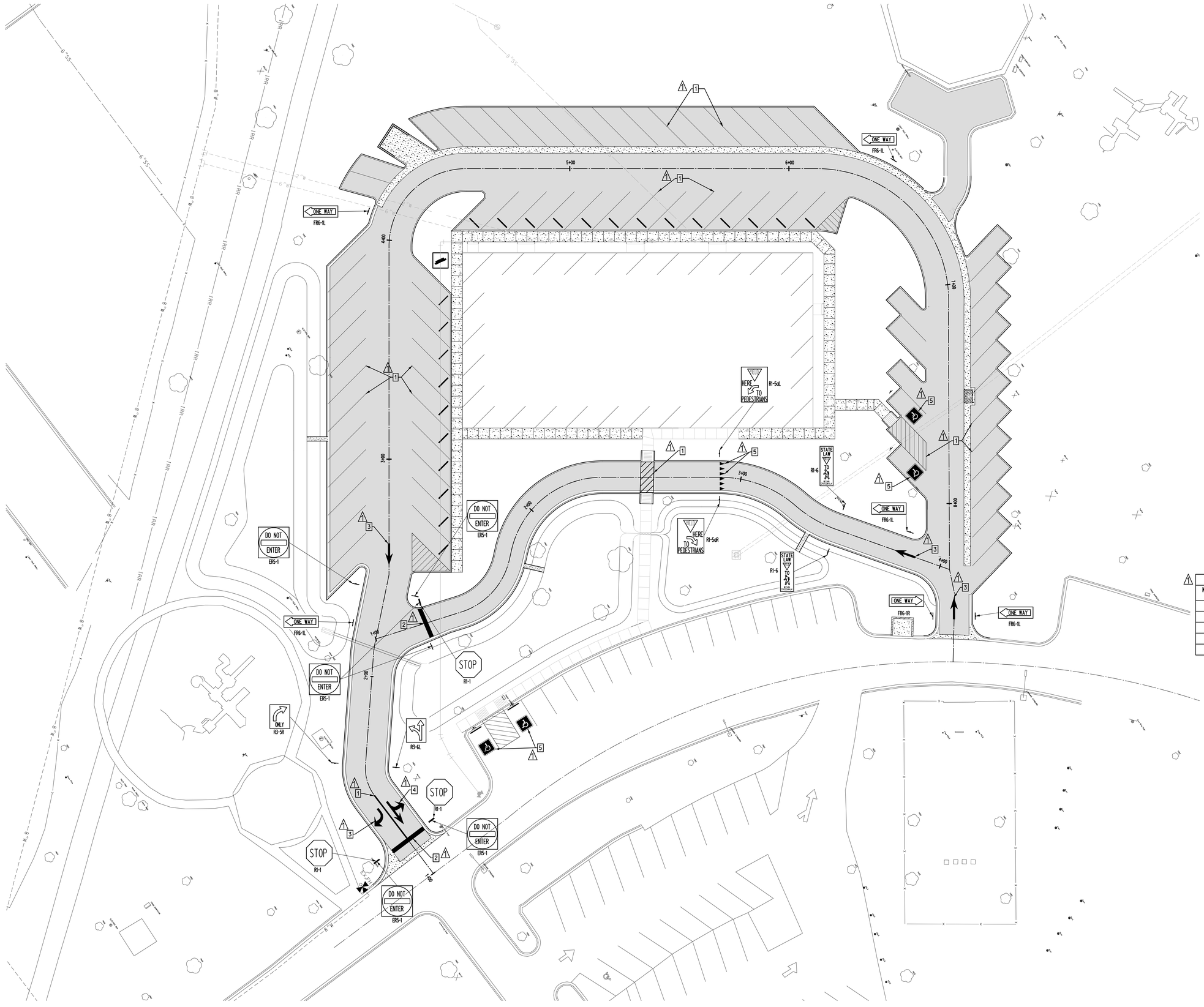
REVISIONS:
1. ASPHALT PAVEMENT CALLOUT

C-3

PROPOSED DIMENSIONAL CONTROL PLAN

SCALE: 1" - 20'

City of Weslaco



LEGEND

- EX. ELECTRIC BOX
- EX. 8" WATER LINE
- EX. 4" WATER LINE
- EX. MANHOLE
- EX. 6" SAN. SEWER LINE
- EX. IRRIGATION LINE
- EX. TREE
- EX. 8" SAN SEWER
- EX 2" WATER LINE
- EX. 6" WATER LINE
- EX. FDC LINE
- EX. FDC VALVE
- EX. CLEANOUT
- EX. TRASH DUMPSTER

BENCHMARK NOTES:

1. VERTICAL CONTROL POINT VALUES WERE OBTAINED BY REAL TIME KINEMATIC (RTK) GPS SESSIONS AND USING THE TEXAS RTK COOPERATIVE NETWORK. THE VERTICAL VALUES ARE BASED ON THE GEOID 12A ELLIPTICAL MODEL.
2. HORIZONTAL DATUM IS NAD83 (CORS96 EPOCH 2002.00) TEXAS STATE PLANE SOUTH ZONE (4205). VERTICAL DATUM IS NAVD88. THE GEOID MODEL USED FOR THE PROJECT IS GEOID 12A.
3. COORDINATES AND DISTANCES ARE IN U.S. SURVEY FEET DISPAYED IN GRID.
4. BENCHMARK 1
   N = 16585753
   E = 1155037
   EL = 79.20
   BENCHMARK 2
   N = 16585670
   E = 1154833
   EL = 83.79

PAVEMENT MARKING SCHEDULE	
MARKING ID	DESCRIPTION
1	REFL PAV MRK TY I (W) 4IN (SLD)
2	REFL PAV MRK TY I (W) 24IN (SLD)
3	REFL PAV MRK TY I (W) (ARROW)
4	REFL PAV MRK TY I (W) (DBL ARROW)
5	REFL PAV MRK TY I (W) (SYMBOL)

CITY ON THE GROW
CITY OF WESLACO

PROPOSED PARKING LOT @ MAYOR PABLO G. PEÑA CITY PARK

WESLACO, TEXAS

SEAL:

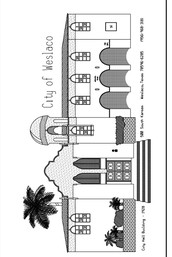
STATE OF TEXAS
MARDOQUEO HINOJOSA
107390
LICENSED
PROFESSIONAL ENGINEER
4-21-16

REVISIONS:
1 PAVEMENT MARKING CALLOUTS & SCHEDULE

C-4

PROPOSED SIGNAGE & PAVEMENT MARKINGS 1 OF 3

SCALE: 1" - 20'



04.0-b&g-parking_pvmt-mark&signage.dgn 4/21/2016 8:09:02 AM

EROSION GENERAL NOTES

1. IT IS THE INTENT OF THIS SUGGESTED EROSION CONTROL PLAN AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH FEDERAL REGULATIONS, CONTRACTOR SHALL PREPARE AND SUBMIT A NOTICE OF INTENT PER THE REQUIREMENTS IN THE NPDES GENERAL PERMIT. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION.
THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH IN THE TEXAS COMISSION ON ENVIRONMENTAL QUALITY (TCEQ) TPDES GENERAL PERMIT FOR REGION 6 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES.

2. THE STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THREE GOALS:
   A) DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE;
   B) LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND
   C) REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.

3. THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.

4. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

5. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

6. AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.

7. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE NPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE POLLUTION PREVENTION PLAN.

8. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:

   DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR;
   REGULAR COLLECTION OF WASTE;
   CONVENIENTLY LOCATED WASTE RECEPTACLES; AND
   DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.

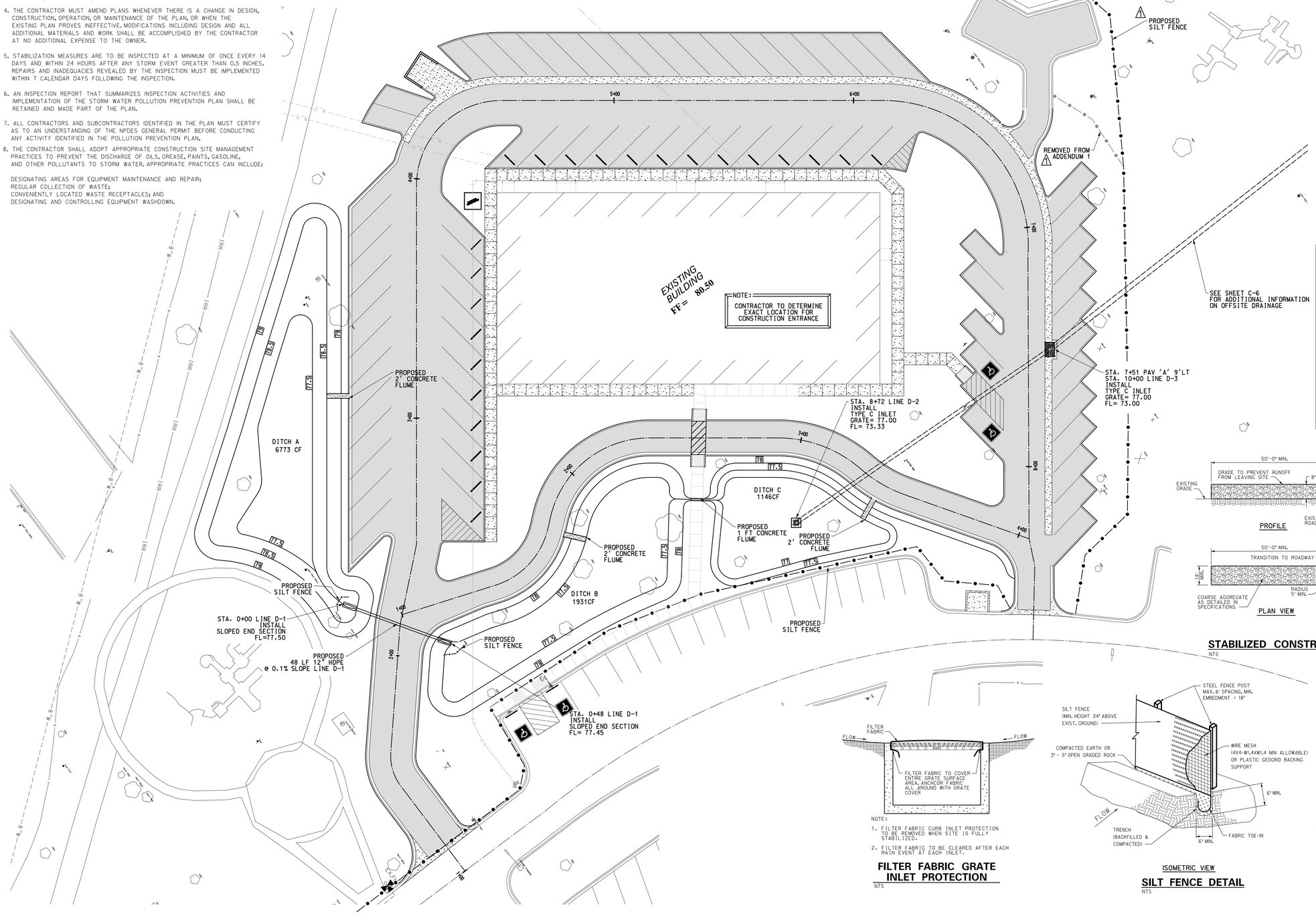
9. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.

10. AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.

11. BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP3). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

12. ALL NON-PAVED AREAS SHALL BE MULCHED AND SEEDED WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHES AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.

13. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.



LEGEND

- EX. ELECTRIC BOX
- EX. 8" WATER LINE
- EX. 4" WATER LINE
- EX. MANHOLE
- EX. 6" SAN. SEWER LINE
- EX. IRRIGATION LINE
- EX. TREE
- EX. 8" SAN SEWER
- EX 2" WATER LINE
- EX. 6" WATER LINE
- EX. FDC LINE
- EX. FDC VALVE
- EX. CLEANOUT
- EX. TRASH DUMPSTER

BENCHMARK NOTES:

1. VERTICAL CONTROL POINT VALUES WERE OBTAINED BY REAL TIME KINEMATIC (RTK) GPS SESSIONS AND USING THE TEXAS RTK COOPERATIVE NETWORK. THE VERTICAL VALUES ARE BASED ON THE GEOID 12A ELLIPTICAL MODEL.
2. HORIZONTAL DATUM IS NAD83 (CORS96 EPOCH 2002.00) TEXAS STATE PLANE SOUTH ZONE (4205). VERTICAL DATUM IS NAVD88. THE GEOID MODEL USED FOR THE PROJECT IS GEOID 12A.
3. COORDINATES AND DISTANCES ARE IN U.S. SURVEY FEET DISPAYED IN GRID.
4. BENCHMARK 1
   N = 16585753
   E = 1155037
   EL = 79.20
   BENCHMARK 2
   N = 16585670
   E = 1154833
   EL = 83.79

STABILIZED CONSTRUCTION EXIT
NTS

NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED CEMENT CONCRETE
2. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AN THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN. DITCH OR WATERCOURSE USING APPROVED METHODS.
3. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE A CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.
5. STABILIZED CONSTRUCTION EXIT TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.

NOTE:
1. FILTER FABRIC CURB INLET PROTECTION TO BE REMOVED WHEN SITE IS FULLY STABILIZED.
2. FILTER FABRIC TO BE CLEARED AFTER EACH RAIN EVENT AT EACH INLET.

FILTER FABRIC GRATE INLET PROTECTION
NTS

ISOMETRIC VIEW

SILT FENCE DETAIL
NTS

SILT FENCE NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE, AS NECESSARY, TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO BACKING SUPPORT, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3 FEET AND SHALL BE JOINED SUCH THAT NO BYPASS OR LEAKAGE OCCURS.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY ON THE GROW — CITY OF WESLACO

PROPOSED PARKING LOT @ MAYOR PABLO G. PEÑA CITY PARK

WESLACO, TEXAS

SEAL:

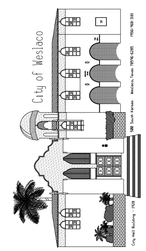
STATE OF TEXAS — MARDOQUEO HINOJOSA — 107360 — LICENSED PROFESSIONAL ENGINEER — 4-21-16

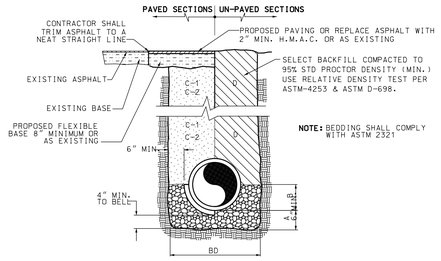
REVISIONS:
1 SILT FENCE ADJUSTMENT

C-6

PROPOSED DRAINAGE & SUGG. ERO. CONTROL PLAN

SCALE: 1"-20'





A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID (MIN. THICKNESS = 6"). PIT RUN GRAVEL 3/4" MAX. SIZE.

B. AFTER PIPE IS LAID. PLACE GRAVEL FROM BOTTOM TO SPRING LINE OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE.

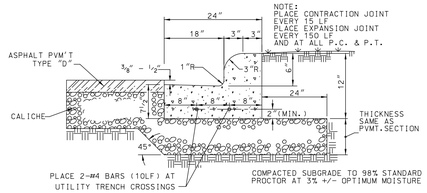
Bd. TRENCH WIDTHS SHALL BE EQUAL TO PIPE BELL O.D. + 12" OR IN ACCORDANCE WITH ASTM 2321.

C-1. CITY STREETS. PARKING AREA. DRIVEWAYS: SELECTED BACKFILL SHALL BE PLACED IN 8" LIFTS MECHANICALLY COMPACTED TO 98% MODIFIED PROCTOR DENSITY.

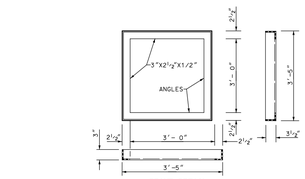
C-2. STATE MAINTAINED ROADWAYS: SAND/CEMENT STABILIZED BACKFILL. WITH 7% PORTLAND CEMENT. COMPACTED AS PER ASTM D-4253 AND ASTM D-698.

D. SELECTED EARTH BACKFILL MECHANICALLY COMPACTED TO 95% STD. PROCTOR DENSITY (12" LIFTS). FOUNDATION PREPARATION (WELLPOINTS. GRAVEL OR CEMENT STABILIZATION. OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS. MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT. AND COMPACTED TO 90% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURAL BACKFILL MATERIAL SHALL BE AS APPROVED BY THE ENGINEER.

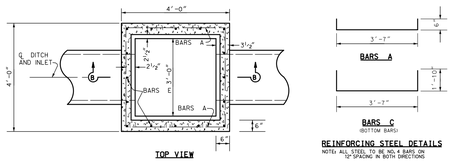
STORM SEWER LINE BEDDING DETAIL
NTS

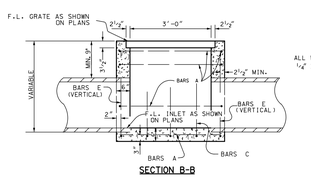


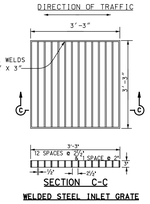
TYPICAL CURB AND GUTTER SECTION
NTS



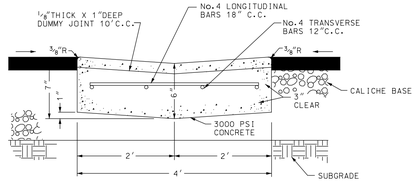
GENERAL NOTES:
TY CONCRETE TO BE USED FOR PIPES LESS OR EQUAL TO 24"



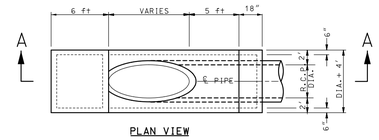




TYPE C PRECAST INLET
NTS

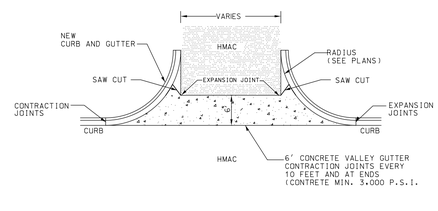


TYPICAL VALLEY GUTTER SECTION
NTS

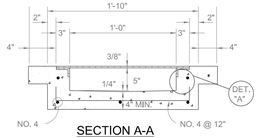


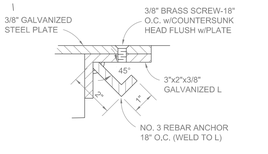
NOTES :
1. CONCRETE TO HAVE 3000 PSI MIN. 28 DAYS COMPRESSION STRENGTH.
2. STEEL TO HAVE 40.000 PSI YIELD STRENGTH.
3. DOWEL AT CONSTRUCTION JOINTS SHALL HAVE 36 X DIA. EMBEDMENT.

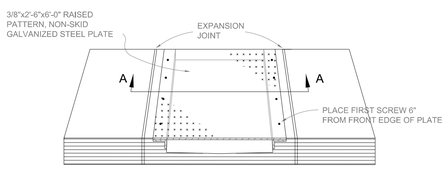
SLOPED END SECTION
NTS



TYPICAL VALLEY GUTTER
NTS

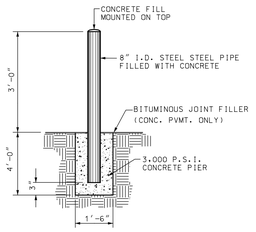






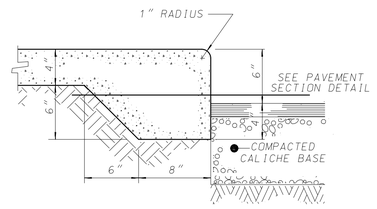
NOTE:
WHERE WALK EXCEEDS 5'-0" IN WIDTH. THE PLATE MAY BE INSTALLED AS TWO (2) SECTIONS OF EQUAL LENGTH.

SIDEWALK FLUME DETAIL
NTS

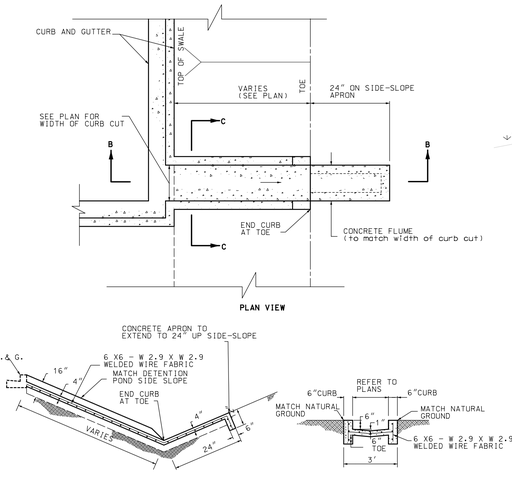


BOLLARD DETAIL
NTS

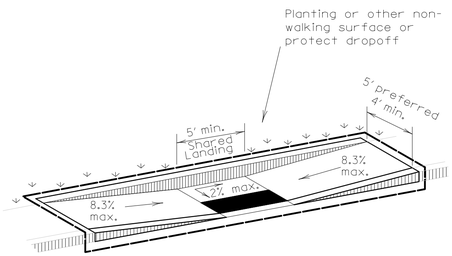
NOTE: STEEL PIPE SHALL BE GALVANIZED (2.0 OZ. ZINC/SQ.FT.) & HAVE A MINIMUM WALL THICKNESS OF 0.322 INCHES.



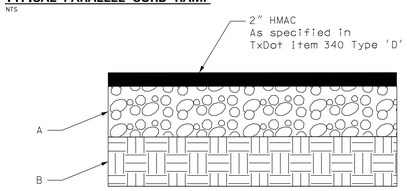
THICKENED EDGE WALK
NTS



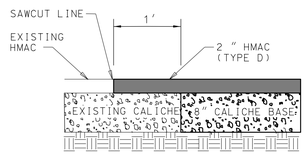
TYPICAL CONCRETE FLUME
NTS



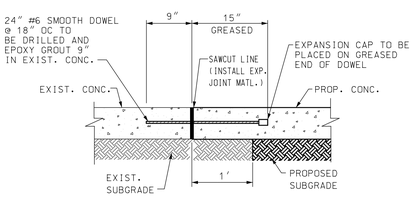
TYPICAL PARALLEL CURB RAMP
NTS



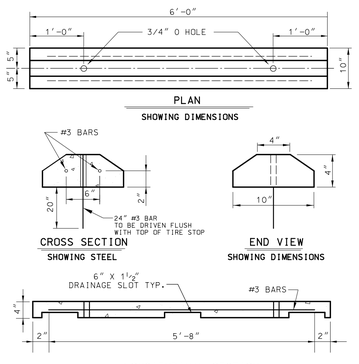
ASPHALT PAVEMENT SECTION
NTS



SAWCUT DETAIL
NTS

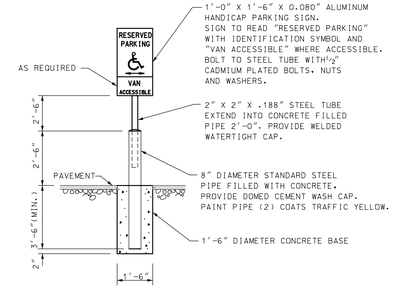


CONCRETE SAWCUT DETAIL
NTS



NOTE: ALL CONCRETE SHALL BE CLASS A

CONC. WHEEL STOP WITH DRAINAGE SLOTS DETAIL
NTS



1'-0" X 1'-6" X 0.080" ALUMINUM HANDICAP PARKING SIGN. SIGN TO READ "RESERVED PARKING" WITH IDENTIFICATION SYMBOL AND "VAN ACCESSIBLE" WHERE ACCESSIBLE. BOLT TO STEEL TUBE WITH ½" CADMIUM PLATED BOLTS. NUTS AND WASHERS.

2" X 2" X .188" STEEL TUBE EXTEND INTO CONCRETE FILLED PIPE 2'-0". PROVIDE WELDED WATERTIGHT CAP.

8" DIAMETER STANDARD STEEL PIPE FILLED WITH CONCRETE. PROVIDE DOMED CEMENT WASH CAP. PAINT PIPE (2) COATS TRAFFIC YELLOW.

1'-6" DIAMETER CONCRETE BASE

HANDICAP SIGN & SUPPORT

CITY ON THE GROW
CITY OF WESLACO

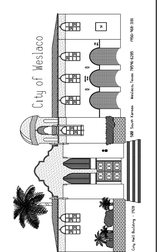
PROPOSED PARKING LOT @ MAYOR PABLO G. PEÑA CITY PARK
WESLACO, TEXAS

SEAL:

STATE OF TEXAS
MARDOQUEO HINOJOSA
107390
LICENSED PROFESSIONAL ENGINEER
4-21-16

REVISIONS:
⚠1 ASPHALT PAVEMENT SECTION DETAIL

C-8
MISCELLANEOUS DETAILS



08-b&g-parking_misc-details.dgn 4/21/2016 10:35:04 AM