CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES

PROJECT NAME: WESTWOOD VILLAGE DRAINAGE PROJECT
PROJECT NO. 40-00068

DATE: October 7, 2011

ADDENDUM NO. #2

This addendum shall be included in and be considered part of the plans and specifications for the above named project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum at the time he receives it.

Addendum No. 2 is issued to add the Environmental Permits, Inspections and Commitments sheet to the plans as well as address questions provided by bidders during the bid phase.

1. **Miscellaneous**
    a. **Pre-cast box culverts are to be used as prescribed by the construction plans instead of cast-in place box culverts to expedite the construction process due to lane closure and other traffic considerations.**
    b. **Payment for surveying and testing will be as prescribed in Form 85 – General Conditions for City of San Antonio Heavy/Highway Construction Contracts under Item 3.13.5 – Use of Site and under Item 14.6 – Independent Materials Testing and Inspection.**

2. **Plans**
    a. **CoSA Plan Sheet 1 – Index of Sheets**
        i. **Added sheet number 43A – Environmental Permits, Inspections and Commitments to the list of sheets shown on Index of Sheets.**
    b. **CoSA Plan Sheet 4 – Estimates and Quantities**
        i. **Added a line item for Item 102.1 - Obliterating Abandoned Street with a total of 747 square yards.**
        ii. **Added a line item for Item number 105.1 – Channel Excavation with a total of 422 cubic yards.**
        iii. **Revised the total amount of Item 106.1 – Box Culvert Excavation from 422 cubic yards to 1691 cubic yards.**
        iv. **Revised the total amount of Item 505.1 – Concrete Rip-rap from 344 square yards to 485 square yards.**
    c. **CoSA Plan Sheet 43A – Environmental Permits, Inspections and Commitments**
        i. **This sheet has been added to the construction set.**

d. SAWS Plan Sheet 63 – Plan and Profile – Line C
   i. Revise the quantity shown for Item 848 – 10" PVC Sanitary Sewer SDR 26 (>10') from 261 linear feet to 287 linear feet.
   ii. Removed the quantity shown for Item 848 – 10" PVC Sanitary Sewer SDR 26 (0'-10').

3. Construction Specifications
   a. 025 Unit Pricing Form
      i. Added a line item for Item 102.1 - Obliterating Abandoned Street with a total of 747 square yards.
      ii. Added a line item for Item number 105.1 – Channel Excavation with a total of 422 cubic yards.
      iii. Revised the total amount of Item 106.1 – Box Culvert Excavation from 422 cubic yards to 1691 cubic yards.
      iv. Revised the total amount of Item 505.1 – Concrete Rip-rap from 344 square yards to 485 square yards.
      v. Revise the quantity shown for Item 848 – 10" PVC Sanitary Sewer SDR 26 (>10') from 261 linear feet to 287 linear feet
      vi. Removed the quantity shown for Item 848 – 10" PVC Sanitary Sewer SDR 26 (0'-10')

4. Addendum Acknowledgement Form
   a. Attached is the Addendum Acknowledgement Form. Please fill out the attached form, sign it and include it with the bid package to acknowledge receipt of addenda.

ATTACHMENTS

- Revised Sheet 1 of 66 – Index of Sheets (1 page)
- Revised Sheet 4 of 66 – Estimates & Quantities (1 page)
- Sheet 43A of 66 - Environmental Permits, Inspections and Commitments
- Revised Sheet 63 of 66 – Plan and Profile – Line C (1 page)
- Revised 025 Unit Pricing Form (3 pages)
- Addendum Acknowledgement Form (1 Page)

End Addendum #2

STATE OF TEXAS
CHRISTOPHER R. DICE
104607
LICENSED
PROFESSIONAL ENGINEER

10/7/11

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME: Westwood Village Drainage - Pinn Road to Old Hwy 90

PROJECT NO.: 40-00068

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	100.1			MOBILIZATION	L.S.	11%			
	100.2			INSURANCE & BOND	L.S.	3%			
	101.1			PREPARING RIGHT OF WAY	L.S.	4%			
	102.1			OBLITERATING ABANDONED STREET (<25,000 S.Y.)	S.Y.	747			
	103.4			REMOVE MISCELLANEOUS CONCRETE (demo concrete structures - 1' thick)	S.F.	13363			
	105.1			CHANNEL EXCAVATION (150<X<5,000)	C.Y.	422			
	106.1			BOX CULVERT EXCAVATION & BACKFILL (600<X<10000C.Y.)	C.Y.	1,691			
	107.1			EMBANKMENT (FINAL)(ORD COMP)(TY C)	C.Y.	168			
	108.1			LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	S.Y.	747			
	108.2			LIME (<100 TON)	TON	10.13			
	110.2.1			MANAGEMENT OF IMPACTED SOIL	C.Y.	4			
	110.5.1			DEVELOPMENT AND IMPLEMENTATION OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	L.S.	1			
	200.1			FLEXIBLE BASE (22" THICK)	S.Y.	747			
	202.1			PRIME COAT	GAL.	149			
	203.1			TACK COAT	GAL.	75			
	205.3			HOT MIX ASPHALTIC PAVEMENT, TYPE C (5")	S.Y.	747			
	307.1			CONCRETE STRUCTURE (headwalls & wingwalls)	C.Y.	120.7			
	309.1			PRECAST CONCRETE CULVERT (10' X 12')	L.F.	271.5			
	505.1			CONCRETE RIPRAP (5" THICK) (4000<X)	S.Y.	485			
	509.1			METAL BEAM GUARD RAIL	L.F.	594			
	509.1			SINGLE GUARDRAIL TERMINAL	EA.	4			
	520.1			HYDROMULCHING	S.Y.	1,775			
	522.1			SIDEWALK PIPE RAILING	L.F.	230			
	525.1			CONCRETE TRAFFIC BARRIER (PORTABLE)(TY I)	L.F.	680			
	525.1			CONCRETE TRAFFIC BARRIER (PORTABLE)(TY II)	L.F.	40			
	530.1			BARRICADES, SIGNS & TRAFFIC HANDLING	L.S.	3%			
	535.1			4 INCH WIDE YELLOW LINE (<100,000')	L.F.	294			
	535.2			4 INCH WIDE WHITE LINE (<30,000')	L.F.	294			
	536.1			4 INCH WIDE YELLOW LINE	L.F.	2,830			
	536.2			4 INCH WIDE WHITE LINE	L.F.	2,955			
	540.1			ROCK FILTER DAMS (INSTALL/REMOVE)(TYPE 1)	L.F.	97			
	540.6			CONSTRUCTION EXITS (INSTALL/REMOVE)	S.Y.	133			
	540.9			TEMPORARY SEDIMENT CONTROL FENCE	L.F.	142			
	554.1			EROSION CONTROL MATTING	S.Y.	115			

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME: Westwood Village Drainage - Pinn Road to Old Hwy 90

PROJECT NO.: 40-00068

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	100.1			MOBILIZATION	L.S.	10%			
	101.1			PREPARING RIGHT OF WAY	L.S.	5%			
	205.4			HMAC TYPE "D" (2" COMP. DEPTH)(<5000 S.Y.)	S.Y.	273			
	206.1			10" ASPHALT TREATED BASE	S.Y.	10			
	208.1			SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT (2" DEPTH)	S.Y.	273			
	550			TRENCH EXCAVATION SAFETY PROTECTION	L.F.	366			
	848			10" PVC SANITARY SEWER SDR 26 (>10')	L.F.	287			
	852.2			SANITARY SEWER DROP MANHOLE (0'-6')	EA.	2			
	852.3			EXTRA DEPTH MANHOLES	V.F.	28.44			
	856.1			10" CARRIER PIPE	L.F.	79			
	856.3			24" STEEL CASING (OPEN CUT)	L.F.	79			
	864			BYPASS PUMPING	L.S.	1			
	866			PRE-CONSTRUCTON SEWER MAIN TELEVISION (8"-15")	L.F.	366			
	866			SEWER MAIN TELEVISION (8"-15")	L.F.	366			

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME: Westwood Village Drainage - Pinn Road to Old Hwy 90

PROJECT NO.: 40-00068

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	100.1			MOBILIZATION	L.S.	10%			
	101.1			PREPARING RIGHT OF WAY	L.S.	5%			
	550			TRENCH EXCAVATION SAFETY PROTECTION	L.F.	140			
	814			12" P.V.C. PIPE	L.F.	140			
	836			PIPE FITTINGS	TON	0.74			
	840			12" WATER TIE-IN	EA	2			
	841			HYDROSTATIC TESTING	EA	1			
	844			2" TEMPORARY BLOWOFF	EA	1			
	858			CONCRETE ENCASEMENT	CY	13			
	1020			12" MAIN BREAK/LEAK REPAIR	EA	1			
	3000.14			REMOVAL, TRANSPORTATION AND DISPOSAL OF AC PIPE	LS	1			
	3000.15			ASBESTOS ABATEMENT WORK PLANS	LS	1			

Total Bid Amount:

_____certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____Acknowleged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS MANAGEMENT SERVICES
CONTRACT SERVICES DIVISION

RECEIPT OF ADDENDUM NUMBER(S) **#2** IS HEREBY ACKNOWLEDGED FOR PLANS AND

SPECIFICATIONS FOR CONSTRUCTION OF **Westwood Village Drainage – Pinn Road to Old U.S. Hwy. 90**

FOR WHICH BIDS WILL BE OPENED ON **October 11, 2011**

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

_____
Signature

_____
Print Name/Title

Sheet List Table

Sheet Number	Sheet Title
0	COVER
	GENERAL PLAN SHEETS 1 - 6 (6)
1	INDEX OF SHEETS
2	GENERAL NOTES STANDARD
3	SUPPLEMENTAL GENERAL NOTES
4	ESTIMATES & QUANTITIES
5 - 6	PINN ROAD TO OLD HIGHWAY 90 - HORIZONTAL AND VERTICAL CONTROL
	TREE PRESERVATION PLANS SHEETS 7 - 9 (3)
7	TREE PRESERVATION PLAN
8	ENLARGED TREE PRESERVATION PLAN
9	TREE PRESERVATION PLAN DETAILS
	TRAFFIC CONTROL PLANS - SHEETS 10 - 41 (32)
10	TRAFFIC CONTROL PLAN SUMMARY
11	SEQUENCE OF CONSTRUCTION
12	PHASING AND STAGING NOTES - STREET AND DRAINAGE CONSTRUCTION & TRAFFIC NOTES AND SPECIAL CONDITIONS
13	ADVANCED WARNING SIGN LAYOUT
14	DETOUR LAYOUT
15	TRAFFIC CONTROL PLAN TYPICAL SECTIONS
16 - 19	TRAFFIC CONTROL PLAN
20 - 23	BARRICADE AND CONSTRUCTION STANDARDS
24	BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS
25	BARRICADE AND CONSTRUCTION PROJECT LIMIT STANDARD
26	BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT STANDARD
27	BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES STANDARD
28	BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT STANDARD
29	BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN
30	BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS,
31 - 33	BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES STANDARD
34	BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS STANDARD
35	BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS STANDARD
36	TRAFFIC CONTROL PLAN TYPICAL DETAILS
37	WORK ZONE SHORT TERM PAVEMENT MARKINGS
38 - 39	TRAFFIC CONTROL PLAN DETAILS
40 - 41	LOW PROFILE CONCRETE BARRIER
	HYDROLIGIC MODELS - SHEETS 42-43 (2)
42	CULVERT AND CHANNEL CALCULATIONS
43	LIMITS OF ORDINARY HIGH WATER MARK
	ENVIRONMENTAL - SHEET 43A (1)
43A	ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)
	CONSTRUCTION PLANS - SHEETS 44 - 66 (23)
44	PAVEMENT MARKINGS - OLD U.S. HWY. 90
45	OLD U.S. HWY. 90 CULVERT PLAN
46	METAL BEAM GUARD FENCE DETAIL
47	METAL BEAM GUARD FENCE DETAIL - SHORT RADIUS
48	SINGLE GUARDRAIL TERMINAL DETAIL
49	TYPICAL CONCRETE CHANNEL RIP-RAP STANDARDS
50	PIPE RAILING DETAILS
51	CONCRETE WINGWALLS WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS
52	BRIDGE END DETAILS
53	SPLIT BOX CULVERT DETAILS
54	SPLIT BOX CULVERT DETAILS
55	EXTENDED CURB DETAILS
56	BOX CULVERTS PRECAST MISCELLANEOUS DETAILS
57-59	STORMWATER POLLUTION PREVENTION PLANS
60	SAWS COVER SHEET SEWER PHASE I
61	SAWS SEWER NOTES PHASE I
62	SANITARY SEWER MASTER PLAN PHASE I
63	PLAN & PROFILE PHASE I - LINE E
64	SAWS COVER SHEET WATER PHASE I
65	SAWS WATER NOTES PHASE I
66	WATER DISTRIBUTION PLAN PHASE I

STATE OF TEXAS
CHRISTOPHER R. CRUCE
10460
LICENSED PROFESSIONAL ENGINEER
10/7/11

DATE:	REVISION:
10/7/2011	1. ADD EPIC SHEET

CUDE ENGINEERS

M.W. CUDE ENGINEERS, L.L.C.
1350 N. LOOP 1604 E., STE. 104
SAN ANTONIO, TEXAS 78232

TEL 210.681.2951
FAX 210.523.7112
WWW.MWCUDE.COM
TBPE FIRM #455

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

PHASE I - WESTWOOD VILLAGE - PINN ROAD TO OLD U.S. HWY. 90

INDEX OF SHEETS

BID SET	PROJECT NO.: 40-00068(CIMS) #X2407.010 (MWC)	DATE: 2011-09-19
DRWN. BY: JEH / MG	DSGN. BY: WPM / JER · CHKD. BY: CRD / JER	SHEET NO.: 1 OF 66

ITEM - CODE	DESCRIPTION	UNIT	TOTAL QUANTITY
100.1	MOBILIZATION	L.S.	11%
100.2	INSURANCE & BOND	L.S.	3%
101.1	PREPARING RIGHT OF WAY	L.S.	4%
102.1	OBLITERATING ABANDONED STREET (<25,000 S.Y.)	S.Y.	747
103.4	REMOVE MISCELLANEOUS CONCRETE (demo concrete structures - 1' thick)	S.F.	13363
105.1	CHANNEL EXCAVATION (150<X<5,000)	C.Y.	422
106.1	BOX CULVERT EXCAVATION & BACKFILL (600<X<10000C.Y.)	C.Y.	1,691
107.1	EMBANKMENT (FINAL)(ORD COMP)(TY C)	C.Y.	168
108.1	LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	S.Y.	747
108.2	LIME (<100 TON)	TON	10.13
110.2.1	MANAGEMENT OF IMPACTED SOIL	C.Y.	4
110.5.1	DEVELOPMENT AND IMPLEMENTATION OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	L.S.	1
200.1	FLEXIBLE BASE (22" THICK)	S.Y.	747
202.1	PRIME COAT	GAL.	149
203.1	TACK COAT	GAL.	75
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE C (5")	S.Y.	747
307.1	CONCRETE STRUCTURE (headwalls & wingwalls)	C.Y.	120.7
309.1	PRECAST CONCRETE CULVERT (10' X 12')	L.F.	271.5
505.1	CONCRETE RIPRAP (5" THICK) (4000<X)	S.Y.	485
509.1	METAL BEAM GUARD RAIL	L.F.	594
509.1	SINGLE GUARDRAIL TERMINAL	EA.	4
520.1	HYDROMULCHING	S.Y.	1,775
522.1	SIDEWALK PIPE RAILING	L.F.	230
525.1	CONCRETE TRAFFIC BARRIER (PORTABLE)(TY I)	L.F.	680
525.1	CONCRETE TRAFFIC BARRIER (PORTABLE)(TY II)	L.F.	40
530.1	BARRICADES, SIGNS & TRAFFIC HANDLING	L.S.	3%
535.1	4 INCH WIDE YELLOW LINE (<100,000')	L.F.	294
535.2	4 INCH WIDE WHITE LINE (<30,000')	L.F.	294
536.1	4 INCH WIDE YELLOW LINE	L.F.	2,830
536.2	4 INCH WIDE WHITE LINE	L.F.	2,955
540.1	ROCK FILTER DAMS (INSTALL/REMOVE)(TYPE 1)	L.F.	97
540.6	CONSTRUCTION EXITS (INSTALL/REMOVE)	S.Y.	133
540.9	TEMPORARY SEDIMENT CONTROL FENCE	L.F.	142
554.1	EROSION CONTROL MATTING	S.Y.	115

STATE OF TEXAS
CHRISTOPHER R. DUE
104601
LICENSED
PROFESSIONAL ENGINEER
10/7/11

DATE:	REVISION:
10/7/2011	1. ADDENDUM #2 QUANTITY REVISION

CUDE ENGINEERS
M.W. CUDE ENGINEERS, L.L.C.
1350 N. LOOP 1604 E., STE. 104
SAN ANTONIO, TEXAS 78232
TEL 210.681.2951
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TBPE FIRM #455

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

PHASE I - WESTWOOD VILLAGE - PINN ROAD TO OLD U.S. HWY. 90

ESTIMATES & QUANTITIES

BID SET	PROJECT NO.: 40-00068(CIMS) #X2407.010 (MWC)		DATE: 2011-09-19
DRWN. BY: JEH / MG	DSGN. BY: WPM / JER	CHKD. BY: CRD / JER	SHEET NO.: 4 OF 66

Note To Designer:
1. Do not alter Sheet Design or Font style, size or weight - match text attributes.
2. If additional space is needed for a numbered section, fence and adjust sections up or down as needed for proportioning and readability but do not relocate from its relative position.

During the design phase of project development the following environmental permits, issues and commitments have been developed during coordination with resource agencies, local governmental entities and the general public. Any change orders and/or deviations to the final design must be reported to the Engineer prior to commencement of construction activities, as additional environmental clearances may be required.

I. Clean Water Act, Section 402 National Pollutant Discharge Elimination System
(Addresses MS4 requirements)

☒ No Action Required ☐ Required Action

Action No.	Waters of the US/Station # R/L of Centerline	Commitment
1.		
2.		The project will incorporate best management practices (BMPs) associated with the NWP 12 and NWP 14 BMP requirements.
3.		
4.		
5.		

II. Clean Water Act, Section 401 and 404 Compliance

Filling, dredging or excavating in any water bodies, rivers, creeks, streams, wetlands or wet areas is prohibited unless specified in the USACE permit and approved by the Engineer.

Any material originating from a USACE jurisdictional water will be used within the project limits in an upland area. Any material to be placed in a USACE jurisdictional water is to originate from an upland area within the project limits or as approved by the Engineer.

☐ No Permit Required ☒ 404 Permit and 401 Certification Required

The Contractor must adhere to all of the terms and conditions associated with the following permits:

Permit	Required Action	Waters of the US	Applicable Plan Sheet Title
1.	NWP 12 and 14	Westwood Village Creek	Stormwater Pollution Prevention Plan - Old Hwy 90
2.			Old Hwy 90 Culvert Plan
3.			
4.	The following best management practices will be implemented to ensure compliance with the Clean Water Act: Erosion control: temporary vegetation		
5.	Sedimentation control: rock filter dams, silt fences Post-construction TSS control: permanent vegetation		

III. Cultural Resources

Cultural resources fall under the Antiquities Code of Texas and/or the National Historic Preservation Act, as amended 1966. If a previously unidentified archaeological site is encountered during construction work, activities should be immediately stopped in the vicinity and the City Archaeologist (210-207-7306) notified and or the SHPO.

☒ No Action Required ☐ Required Action

Action No.	Station # R/L of Centerline	Commitment
1.		
2.		
3.		
4.		
5.		

IV. Hazardous Materials or Contamination Issues

If potentially hazardous material and/or contaminated media (i.e. soil, groundwater, surface water, sediment, building materials) are unexpectedly encountered during construction, cease work in the immediate area and contact the Engineer immediately.

☐ No Action Required ☒ Required Action

Action No.	Station # R/L of Centerline	Commitment
1.		
2.		Environmental oversight, monitoring, and soil/groundwater management is required for a specific area within the project limits. For more detailed information, please consult the CIMS EMD Environmental Specifications document. The Contractor will be required to prepare a Waste Management Plan and a Health and Safety Plan.
3.		
4.		
5.		

V. Federal Listed, and Proposed Threatened and Endangered Species, Critical Habitat, State Listed Species, Candidate Species and Migratory Birds

☐ No Action Required ☑ Required Action

Action No.	Station # R/L of Centerline	Commitment
1.		MIGRATORY BIRD NESTS: Schedule construction activities as needed to meet the following requirements: A. Do not remove or destroy any active migratory bird nests (nests containing eggs and/or flightless birds) at any time of year. Inactive nests may be removed except on/in structures where special requirements apply. B. On/in structures, if there are any active nests, they shall not be removed until all nests become inactive. After inactive nests are removed and/or before nest activity begins, deterrent materials may be applied to the structures to prevent future nest building.
2.		Any of the above actions must be coordinated with City Engineers and the CIMS Environmental Management Division
3.		
4.		

Include these paragraphs

LISTED SPECIES

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests.

If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately.

VI. Vegetation Resources/COSA Tree Ordinance

☐ No Action Required ☒ Required Action

Action No.	Station # R/L of Centerline	Commitment
1.		
2.		This information to be supplied by COSA arborist.
3.		Contractor is required to follow the Tree Preservation Plan, sheets 7, 8 and 9.
4.		
5.		

VII. Edwards Aquifer

☒ No Action Required ☐ Required Action

Action No.	Station # R/L of Centerline	Commitment
1.		
2.		
3.		
4.		
5.		

VIII. Other Environmental Issues

☐ No Action Required ☒ Required Action

Action No.	Station # R/L of Centerline	Commitment
1.		The potential for conflicts with AC pipe was noted in the plans.
2.		Please refer to AC pipe specifications for handling, transportation, and disposal methods.
3.		
4.		
5.		

This EPIC sheet is only for the work to be conducted on the culverts at Old Highway 90. It does not cover any future phases of work associated with this project.

01/06

Design Consultant Logo here - delete block if not applicable

Westwood Village Drainage (Old Highway 90 Culvert Modifications)

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

FED. RD. DIV. NO.	PROJECT NO.		HIGHWAY NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	SAT		
CONTROL	SECTION	JOB	SHEET NO.

STATE OF TEXAS
CHRISTOPHER R. DICE
104607
LICENSED
PROFESSIONAL ENGINEER
10/7/11

DATE:	REVISION:

CUDE ENGINEERS
M.W. CUDE ENGINEERS, L.L.C.
1350 N. LOOP 1604 E., STE. 104
SAN ANTONIO, TEXAS 78232
TEL 210.681.2951
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TBPE FIRM #455

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

PHASE I - WESTWOOD VILLAGE - PINN ROAD TO OLD U.S. HWY. 90

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

BID SET	PROJECT NO.: 40-00068(CIMS) #X2407.010 (MWC)		DATE: 2011-09-19
DRWN. BY: JEH / MG	DSGN. BY: WPM / JER	CHKD. BY: CRD / JER	SHEET NO.: 43A OF 66

C.P.S. ENERGY UTILITIES NOTE:

CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, C.P.S. ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING C.P.S. ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREA (N.S.P.I.).

SHEET NOTES:

1. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEOTECHNICAL / SAFETY / EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, O.S.H.A. STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
2. ALL LATERALS TO BE INSTALLED @ 2.0% MINIMUM SLOPE WITH ONE-WAY CLEANOUT.
3. THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THESE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE, AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR MUST CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION ON 1-800-344-8377. CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.
4. SEWER LATERALS SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS. IF THE CONTRACTOR ENCOUNTERS ADDITIONAL LATERALS IN THE FIELD, THESE WILL BE REPLACED AT THE UNIT PRICE BID PER ITEM 854 OR AS DIRECTED BY S.A.W.S.
5. INSTALL A S.A.W.S. APPROVED SANITARY SEWER PIPE COUPLING (FERNCO OR APPROVED EQUAL) IN LIEU OF A PROPOSED MANHOLE AS WARRANTED BY FIELD CONDITIONS AND/OR DIRECTED BY THE S.A.W.S. INSPECTOR.
6. CONSTRUCT NEW SEWER LATERAL PER ITEM 854. CONTRACTOR SHALL REPLACE EXISTING LATERALS IN EXISTING LOCATION. NEW LATERALS AND FITTINGS SHALL BE PRESSURE RATED SDR-26 AND INSTALLED IN THE LOCATION SHOWN ON THE DRAWINGS OR AS DIRECTED BY S.A.W.S.
7. TREE NOTE: CONTRACTOR SHALL USE EXTREME CAUTION DURING CONSTRUCTION OPERATIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING TREES.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AND KEEP THEM FREE FROM GRAVEL, ASPHALT, OR OTHER DEBRIS. (N.S.P.I.)
9. CONTRACTOR SHALL PROVIDE UNOBSTRUCTED ACCESS TO HOMEOWNERS AND EMERGENCY VEHICLES AT ALL TIMES. (N.S.P.I.)

TRENCH EXCAVATION SAFETY PROTECTION:

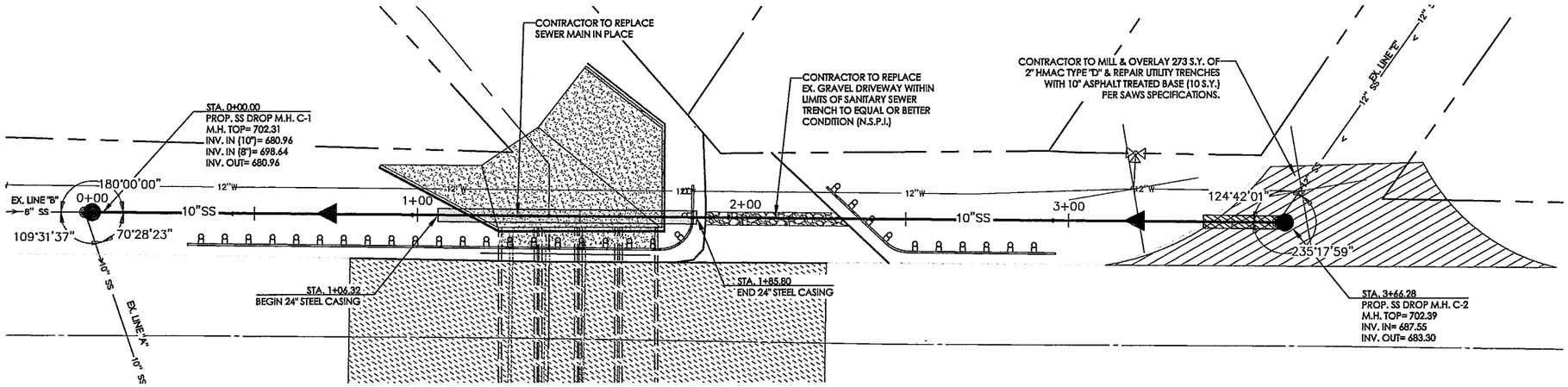
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL / SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, O.S.H.A. STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TREE NOTES:

1. CONTRACTOR SHALL USE EXTREME CAUTION DURING CONSTRUCTION OPERATIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING TREES.
2. NO TREES SHALL BE REMOVED BY THE CONTRACTOR UNLESS SPECIFICALLY AUTHORIZED BY BY THE CITY OF SAN ANTONIO.

ASBESTOS NOTE:

ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE AND WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

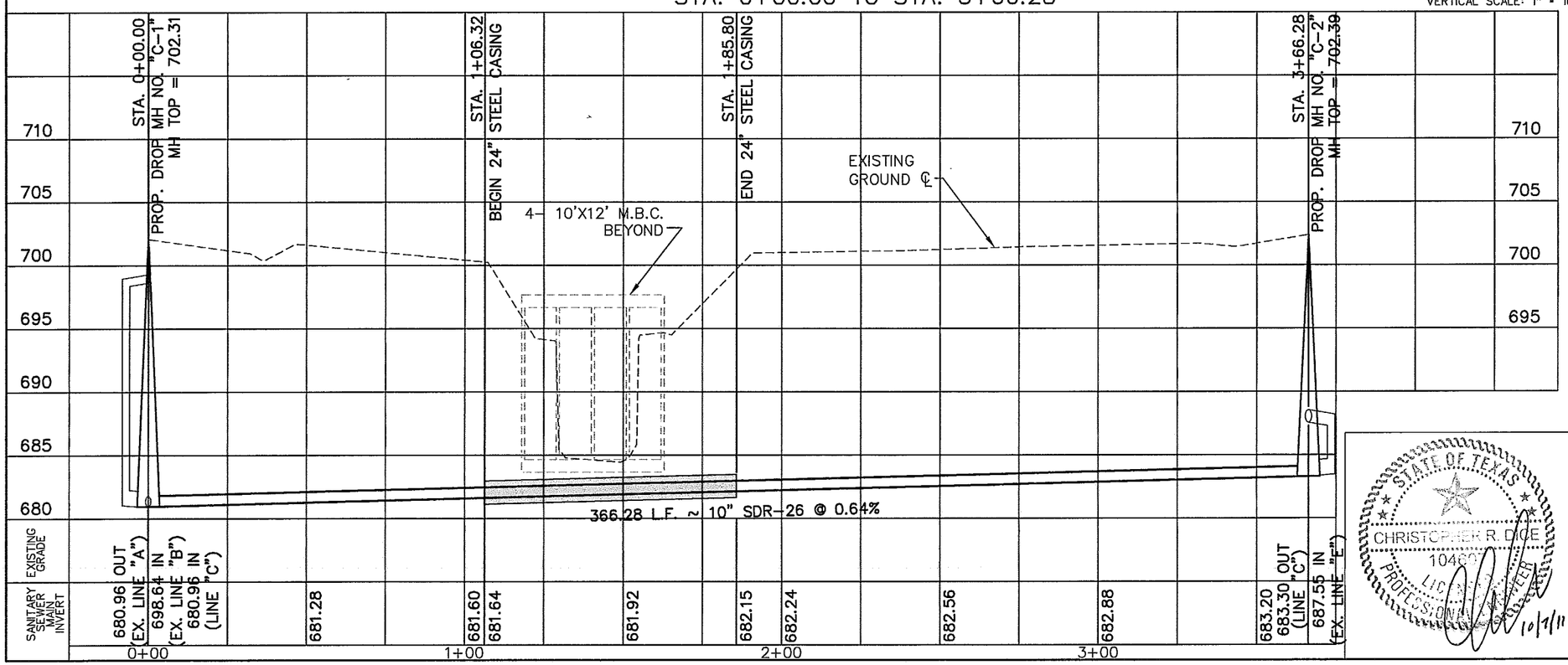


ITEM-CODE	DESCRIPTION	UNIT	TOTAL EST.	TOTAL FINAL
100.1	MOBILIZATION	L.S.		10%
101.1	PREPARING RIGHT OF WAY	L.S.		5%
205.4	HMAC TYPE "D" (2" COMP. DEPTH)(<5000 S.Y.)	S.Y.		273
206.1	10" ASPHALT TREATED BASE	S.Y.		10
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT (2" DEPTH)	S.Y.		273
550	TRENCH EXCAVATION SAFETY PROTECTION	L.F.		366
848	10" PVC SANITARY SEWER SDR 26 (>10')	L.F.		287
852.2	SANITARY SEWER DROP MANHOLE (0'-6')	EA		2
852.3	EXTRA DEPTH MANHOLES	V.F.		28.44
856.1	10" CARRIER PIPE	L.F.		79
856.3	24" STEEL CASING (OPEN CUT)	L.F.		79
864	BYPASS PUMPING	L.S.		1
866	PRE-CONSTRUCTION SEWER MAIN TELEVISION (8"-15")	L.F.		366
866	SEWER MAIN TELEVISION (8"-15")	L.F.		366

LINE "C"

STA. 0+00.00 TO STA. 3+66.28

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'



STATE OF TEXAS
CHRISTOPHER R. DICE
104607
LICENSED
PROFESSIONAL ENGINEER
10/7/11

PROJECT NO. 2010C120

CUDE ENGINEERS SURVEYORS PLANNERS

CUDE ENGINEERS, LLC.
1250 S. LOOP 1604 E., STE. 104
SAN ANTONIO, TEXAS 78232
TEL. 210.545.9460
FAX 210.545.9756
WWW.CUDE.COM
TBPE REGISTERED ENGINEERING FIRM F-455

PLAN & PROFILE - LINE C

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

LEGEND

WATER LINE
GAS LINE
UNDERGROUND ELECTRIC
OVERHEAD ELECTRIC
OVERHEAD ELECTRIC & TELEPHONE
CHAIN LINK FENCE
WOOD FENCE
IRON FENCE
FIRE HYDRANT
IRRIGATION VALVE
WATER VALVE
WATER METER
LIGHT POLE
POWER/UTILITY POLE
POWER/UTIL. POLE W/ LIGHT
CLEAN OUT
CONCRETE
SANITARY SEWER MANHOLE
STORM MANHOLE
SPRINKLERS
GUY WIRE
SIGN
FOUND IRON PIN
SHRUBS/BUSHES
CLEANOUT (ONE-WAY)
PROP. SAN. SEWER MANHOLE
MAILBOX
NO SEPARATE PAY ITEM (N.S.P.I.)
TREE (DESCRIPTION & SIZE) OAK 4"

No.	Revision	Drawn	Approved	Date
1.	ADDENDUM #2 QUAN. REV.			10/7/2011

REVISIONS

WESTWOOD VILLAGE
PINN ROAD TO
OLD U.S. HWY. 90
PROPOSED SEWER
PHASE I

DEVELOPER: SAN ANTONIO WATER SYSTEMS
CONT. ——— BUDGET PROJ.
SUBMITTED
APPROVED

MAP No. 120-572 & 122-572
SECT. No.
DR. JEH CK. CRD JOB No. 08-5561

SHEET 63 OF 66