

CITY OF SAN ANTONIO
TRANSPORTATION AND CAPITAL IMPROVEMENTS (TCI)

PROJECT NAME: **GOLIAD ROAD DRAINAGE (SE MILITARY TO LOOP 410)**

PROJECT NO.: **40-00244**

DATE: **FEBRUARY 3, 2014**

ADDENDUM NO. 3

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. 3 is issued to answer questions received from prospective bidders, update the Plans, Construction Specifications, and Bid Proposal, and change the Hot Mix Asphaltic Concrete Pavement to Warm Mix Asphaltic Concrete.

1. Questions and Responses

Question: COSA 681.1 – Temporary Signals; could you please provide detail plan sheets for that Item?

Response: There are no detail plan sheets. To clarify, Bid Item 681.1 Temporary Traffic Signals for this project refers to maintaining and operating the existing traffic signal at SE Military Drive and Goliad Road for the duration of the contract. Work methods to satisfy this item are described in the COSA Standard Specifications for Construction but it must include moving the signal heads to line up with the traffic lanes during different phases of construction.

Question: Could you please verify the drill shaft quantities?

Response:

COSA 308.1	Drilled Shafts (24")	LF	34
COSA 308.1	Drilled Shafts (30")	LF	57
COSA 308.1	Drilled Shafts (36")	LF	53

The corrected Estimated Quantities Sheet (Base Bid) is included in this addendum as well as the corrected 025 Unit Pricing Form.

Question: COSA 682.1-Vehicle Signal Section with Back Plate (12") (3 Sec); the pay item shows there are 12, but when you count on the detail sheet there are 14 of them. Could you please clarify?

Answer: The correct number of COSA 682.1 Vehicle Signal Section with Back Plate (12")(3 Sec) should be 14 EA. The corrected Estimated Quantities Sheet (Base Bid) is included in this addendum as well as the corrected 025 Unit Pricing Form.

- Question:** COSA 682.2-Vehicle Signal Section with Back Plate (12") (4 Sec); the pay item shows there are 5, but when you count on the detail sheet there are 3 of them. Could you please clarify?
- Answer:** The correct number of COSA 682.2 Vehicle Signal Section with Back Plate (12") (4 Sec) should be 3 EA. The corrected Estimated Quantities Sheet (Base Bid) is included in this addendum as well as the corrected 025 Unit Pricing Form.
- Question:** COSA 693.1-Internally Lighted Street Name Signs (ILSN Sign 9" S), we would like confirmation that you only want single sided. There isn't anywhere in the plans to show this is confirmed or denied.
- Answer:** For the subject project, each ILSN is single-sided. Double-sided application is seldom used by the City.
- Question:** COSA 688.3-Audible Pedestrian Signal Units, Should this quantity be 12 (Not the 14 on the bid tab) to match the number of Pedestrian Heads?
- Answer:** The westbound approach of Goliad Road at Service Drive is not provided with a signalized pedestrian crossing. This is due to unsuitability of existing private driveway design outside of public right-of-way to accommodate an ADA-compliant set of ramps and crosswalk. The correct number of COSA 688.3 Audible Pedestrian Signal Units should be 12 EA. The corrected Estimated Quantities Sheet (Base Bid) is included in this addendum as well as the corrected 025 Unit Pricing Form.
- Question:** On sheet 17, the general note states that the contractor shall submit to the engineer, in writing, the planned construction sequence. If we plan to follow the Traffic Control Plan located in the plans will that be sufficient? What will we need to turn into you?
- Response:** The note regarding planned construction sequence and the requirement for a letter is not required. The traffic control plan must be followed as shown in the plan set.
- Question:** On sheet 19, under base bid phase II stage I note 4 states that a temporary pavement driving surface needs to be provided from station 28+50 to 75+00. Will the 3 1/2" of Ty B that is shown for the typical pavement section be sufficient?
- Response:** The thickness of temporary pavement is 8" as shown on Sheet 23.
- Question:** On sheet 26 there appears to be a fence located right in the area that we will be installing the Temporary Type 1 4x4 storm drain. Will there be a pay item added for the Remove and Relocate of that fence? If not, how will we be paid for that item?
- Response:** Existing MBGF and pedestrian handrail (there is no fence) will need to be removed at this location in order to install the temporary storm drain. The MBGF will be paid by Item TxDOT 0542 and the sidewalk and pedestrian rail will be paid under COSA Items 101 & 103.

- Question:** The inlets that are called out in the Temporary Storm Drain section of the plans, can they be reused on the project?
- Response:** No, the project should be bid as shown on the plans with new inlets for each location.
- Question:** There is a driveway missing from the driveway summary sheet. It only shows 18, but there are 19 driveways on the plan and profile layout for the roadway section. It appears to be Driveway #2 from the roadway plan and profile sheets that was skipped, this means that every driveway from 2-18 on the driveway summary sheet is mislabeled. It they should be driveways 3-19. Could this please be corrected?
- Response:** The driveways labeled on the P&P sheets are correct. The Driveway summary sheet in the plans is incorrect. The correct Estimated Quantity Sheets have been included in the Addendum.
- Question:** The 5x3 and the 10x4 Box Culverts are located in Add Alt #2, but the pay item on the bid tab is located in Add Alt #1. Also some of the 10x5 Culverts are located Add Alt #2, but on the bid tab shows all of it located in Add Alt #1. I believe that approximately 336.5 LF of the 10x5 Box Culvert is located in Add Alt #1 and 120.5 LF is located in Add Alt #2. Could you please clarify?
- Response:** The 5x3 and 10x4 Box Culverts are in Add Alt #2 and should be paid as such. The 10x5 Box culvert should be paid in Add Alt #1. As discussed in the sequence of work under Phase III Stage 2, and shown on TCP sheets 92 & 99, the 10x5 Box Culvert trunk line and the 6x3 Box Culvert lateral (Z-12) will be constructed and paid in Add Alt #1. The corrected Estimated Quantities Sheets are included in this addendum as well as the corrected 025 Unit Pricing Form.
- Question:** Could you please double check the Top Elevations of the inlets? The Center Line seems to be correct base off of looking at it in the cross-section. Good example of this is located on sheet 320 for Z-1 and Z-2 inlets.
- Response:** The top elevations for the inlets were checked and it was discovered that they were inadvertently shown incorrectly. The elevations have been corrected and the corresponding sheets have been included in this addendum.
- Question:** On the proposed typical sections there is a note that states that the typical pavement section does not apply for the Mall Entrance Intersection, City Base Landing Intersection, or Lyster Road Intersection. There aren't any details for those intersections, Could you please provide?
- Response:** That note is referring to the typical section having curb on both sides and at those locations you have curb on one side and a side street (no curb) on the other. The pavement section (thickness) at these locations is the same as the rest of Goliad Road.
- Question:** The bid tab shows that there are 2-5x5 junction boxes. There is one located on sheet 317 and there is one located on sheet 316, but it isn't called out on that page. If you go to sheet 323 to see the plan and profile of the inlet you can see the

- Response:** junction box located on that sheet, but the junction box located on sheet 323 is a 6x6 not a 5x5. Could you please clarify and either correct the plans or the bid tab? There is only one (1) 5x5 junction box. Sheets 317 & 324 show the correct junction box. On sheet 316, there is not a junction box. The lateral will tie directly into the 5x3 Box Culvert and a riser will be placed on the box for the manhole. Sheet 323 is incorrect and will be changed to reflect what is depicted on sheet 316. A revised sheet 323 will be provided in this addendum, as well as the corrected Estimated Quantities Sheet (Add Alt #2) and the corrected 025 Unit Pricing Form.
- Question:** On the bid tab for Add Alt #1 it states that there are 4 inlet extensions, but there are only 2 inlets that have extensions and both of those only have one extension. Could you please verify that there are supposed to be 4 extensions? Also if there are 4 could you please provide the location of the last two? (I can find the two located on the inlets Y-1 and Y-2).
- Response:** After reviewing the plans it was determined that there are only two (2) inlet extensions in Add Alt #1. These are located at inlets Y-1 and Y-2. The corrected Estimated Quantities Sheet (Add Alt #1) is included in this addendum as well as the corrected 025 Unit Pricing Form.
- Question:** On the bid tab for Add Alt #2 it states that there are 10 inlets and 8 inlet extensions. The plans only show 6 of each. Could you please clarify? (I can find inlets Z-3 through Z-8)
- Response:** After reviewing the plans it was determined that there are only six (6) inlets and six (6) inlet extensions in Add Alt #2. The corrected Estimated Quantities Sheet (Add Alt #2) is included in this addendum as well as the corrected 025 Unit Pricing Form.
- Question:** Can you provide clarification as to what is required for the temporary signal work on this project?
- Response:** To clarify, Bid Item 681.1 Temporary Traffic Signals for this project refers to maintaining and operating the existing traffic signal at SE Military Drive and Goliad Road for the duration of the contract. Work methods to satisfy this item are described in the COSA Standard Specifications for Construction but it must include moving the signal heads to line up with the traffic lanes during different phases of construction.
- Question:** Are the quantities of the radar detection equipment correct?
- Response:** No, the correct quantities should be 4 EA for Item 696.01 Radar Advance Detector and 7 EA for Item 696.02 Radar Presence Detector. Also, Item 696.12 Install Radar Vehicle Sensing Device should be removed from the project. The corrected Estimated Quantities Sheet (Base Bid) is included in this addendum as well as the corrected 025 Unit Pricing Form.

Question: Are all the Hot Mix Items PG 64-22?

Response: No. Actually the Hot Mix Asphaltic Concrete Pavement is being replaced with Warm Mix Asphaltic Concrete. The asphalt grade will be PG 70-22 for the Surface, Binder, and Level-Up Courses and PG 64-22 for the Base Courses.

Question: Can a pay item be added for VF for the lining of the manholes that are being adjusted or reconstructed?

Response: The lining (coating) is included in the payment for adjusting or reconstructing manholes. A separate pay item will not be added for this work.

2. Change Hot Mix Asphaltic Concrete Pavement to Warm Mix Asphaltic Concrete
 - Added Special Provision 205-001WM to Specifications Manual
 - Updated Governing Specifications section of Specifications Manual to reflect the addition of Special Provision 205-001WM
 - Revised asphalt items to reflect new Warm Mix Special Provision and updated Quantity Summary Plan Sheet and 025 Unit Pricing Form.
 - Revised asphalt items to reflect new Warm Mix Special Provision and updated the Typical Section Sheets.
3. Revise SAWS Water Sheets
 - Revised Sheets 2, 3, and 14 of the SAWS Water plans as requested by TxDOT in order to obtain utility permit.
 - Added Sheet 14A to include requested TxDOT Trench Backfill Detail
 - Updated Quantity Sheet to reflect additional Flowable Fill as requested by TxDOT. The quantity will be increased from 4 CY to 8 CY. The updated 025 Unit Pricing Form will be provided in this addendum to reflect this change.
4. Addendum Acknowledge Form
 - Attached is the Addendum Acknowledgement Form. Please fill out and sign the form and include with the bid package to acknowledge receipt of addenda.

ATTACHEMENTS:

- SAWS Water sheet updates/additions and Flowable Fill Quantity (4 sheets)
- Revised “Estimated Quantities Sheet (Base Bid)”, (Add Alt #1), and Add Alt #2 (3 sheets)
- Revised Driveway Summary Sheet (1 sheet)
- Revised Storm Drain Plan & Profile Sheets (7 sheets)
- Revised Proposed Typical Section Sheets to show Warm Mix Asphaltic Concrete (4 sheets)
- Revised 025 Unit Pricing Form (16 pages)
- Revised Governing Specifications Section of Project Manual (6 pages)
- Added Special Provision 205-001WM (2 pages)
- Addendum No. 3 Acknowledgement Form (1 page)

CDS Muery F-1733



JOHN E. ROTHE, P.E., C.F.M.



2/3/14
DATE

END OF ADDENDUM #3

GENERAL WATER NOTES

ADDITIONAL NOTES

- All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
 - Current Texas Department of Transportation (TXDOT) "Standard Specifications for Construction of Highways, Streets and Drainage."
 - Current San Antonio Water System "Standard Specifications for Water and Sanitary Sewer Construction."
 - Current City of San Antonio "Standard Specifications for Public Works Construction."
 - Current City of San Antonio "Utility Excavation Criteria Manual"
- The Contractor is to make arrangements with the SAWS Construction Inspection Division at 233-3500 and provide notification procedures the contractor will use to notify affected home residents and/or property owners 48 hours prior to excavation.
- Locations and depths of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor 48 hours prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.
- The Contractor shall verify the exact location of underground utilities and drainage structures at least 48 hours prior to construction whether shown on plans or not. The following contact information are supplied for verification purposes:

SAWS Utility Locates: 233-2010
 SAWS Production Control Center: 233-2016
 COSA Drainage: 207-8048
 COSA Traffic Signal Operations: 207-7720
 Texas State Wide One Call Locator: 1-800-545-6005 or 811
- The Contractor shall comply with City of San Antonio or other governing Municipality's tree ordinances when excavating near trees.
- The Contractor shall not place any waste materials or spoils in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.
- Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at (210) 233-3500 and/or SAWS Production groups at least two weeks in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly.
- Where water lines and new sewer lines are installed with a separation distance closer than nine feet (i.e., water lines crossing wastewater lines, water lines paralleling wastewater lines, or water lines next to manholes) the installation must meet the requirements of 30 TAC 217.53(d) (Pipe Design) and 30 TAC 290.44(e) (Water Distribution).
- Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestos-containing material (ACM), may be 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 occurs. Payment for such work is to be made under Special Specification Item for Asbestos Cement Pipe.
- Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System.

- The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his or her own determination as to the type and location of underground utilities as may be necessary to avoid damage thereto.
- Due to Federal Regulation Title 49, Part 192.181, CPS 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 CPS overhead and underground electrical facilities if adjacent to work area. Part 192.181.
- 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 the Contractor's trench excavation safety protection systems, programs, and/or procedures shall provide for adequate trench excavation safety protection that complies with, as a minimum, OSHA standards for trench excavations. Specifically, the Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.
- All excavation shall be backfilled at the end of each day.
- All excess excavation material and/or debris shall be removed off site each day. (N.S.P.I.)
- Joint restraining to be used throughout the plans except at tie-ins where thrust blocking may be used.
- It is necessary to install and approve new water main before abandon/remove existing water main.
- A.C. pipe is present in the project, contractor shall plan for removal, transportation, and disposal of A.C. pipe where indicated for replacement.
- For proposed water meter boxes located within existing driveways, water meter boxes must be traffic bearing.
- Note that all standard details can be found on www.saws.org
- All existing water valve boxes that are located in the new street sections will be adjusted to finish pavement elevation.
- Contractor shall maintain access to existing and proposed water valves at all times. (No separate pay item)

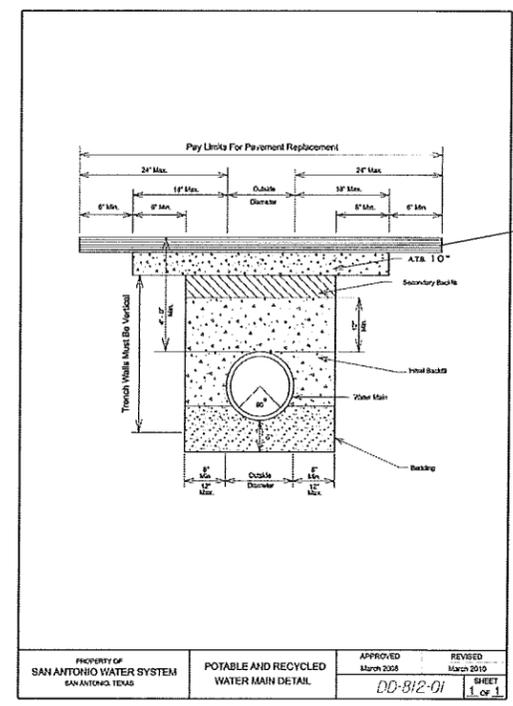
LEGEND

P □	UTILITY PEDESTAL	GV ⊗	GAS VALVE	⊗	TRAFFIC SIGNAL POLE
⊗	TELEPHONE MANHOLE	PBX □	PULL BOX	⊗	ELECTRIC METER
⊗	SANITARY SEWER MANHOLE	—OHE—	OVERHEAD ELECTRIC LINE	⊗	POWER POLE
JB	STORM SEWER JUNCTION BOX	—OHT—	OVERHEAD TELEPHONE LINE	LP ☆	LIGHT POLE
CO	CLEAN OUT	—OHC—	OVERHEAD CABLE TV LINE	⊗	SIGNAGE POST
EL.MH	ELECTRIC MANHOLE	—x—	BARBED WIRE FENCE	⊗	GUY WIRE
⊗	GAS METER	⊗	PARKING METER	—2"0—	GAS LINE
⊗	WATER METER	—◇—	CHAIN LINK FENCE	—W—	WATER LINE
HB	HOSE BIBB	—//—	WOOD FENCE	—UGT—	UNDERGROUND TELEPHONE
⊗	FIRE HYDRANT	—•—	CABLE FENCE	—UGE—	UNDERGROUND ELECTRIC
WV ⊗	WATER VALVE	⊗	EXIST. TREE	—8"SS—	SANITARY SEWER LINE
				—24"ST (RCP)—	STORM SEWER LINE
				— — — — —	ROW LINE

POZNECKI CAMARILLO
 5855 CALLAGHAN RD, SUITE 200
 SAN ANTONIO, TEXAS, 78228
 (210) 349-3273 http://www.poznecki.com
 TBPE REG. NO. F-183

BASE BID ALTERNATE

ITEM NO.	WATER ITEM DESCRIPTION	UNIT	QUANTITY															
			BASE QTY	ALT 1 QTY	ALT 2 QTY	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Sheet 9	Sheet 10	Sheet 11	Sheet 12	Sheet 13	Sheet 14	
100	Mobilization	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
101	Preparing Right of Way	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
103	Remove Concrete Curb	LF	24	0	0	14	0	0	0	0	0	0	0	10	0	0	0	
103	Remove Con Sidewalks and	SF	100	0	0	0	0	0	0	0	0	0	0	100	0	0	0	
205	Hot Mix Asphalt Con. "D" (2")	SY	1475	44	191	313	484	51	27	52	69	47	331	101	44	63	128	
206	Asphalt Trea. Base - 10 inches	SY	1182	35	153	251	387	41	22	42	55	38	265	81	35	50	103	
413	Flowble Fill (Low strength)	CY	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8	
500	Concrete Curb	LF	24	0	0	14	0	0	0	0	0	0	0	10	0	0	0	
502	Concrete Sidewalks	SY	11	0	0	0	0	0	0	0	0	0	0	11	0	0	0	
550	Trench Protection	LF	2529	79	398	407	865	92	49	94	134	85	590	213	79	112	286	
818	8" PVC Waterline (Restrained)	LF	34	0	0	0	0	0	0	0	0	0	0	34	0	0	0	
818	12" PVC Waterline (Restrained)	EA	2387	79	308	407	811	92	49	94	116	85	538	195	79	22	286	
824	Relay 3/4" Short Service	EA	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
824	Relay 3/4" Long Service	EA	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
824	Relay 3/4" Short Unmetered	EA	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
824	Relay 1" Long Unmetered	EA	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
824	Relay 1" Long Service	EA	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	
824	Relay 1 1/2" Long Service	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
824	Relay 2" Long Service	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
824	Relay 4" Long Service	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
824	Relay 6" Long Service (Fire)	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
824	Relay 8" Long Service (Fire)	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
826	Valve Box Adjustment	EA	13	0	6	0	0	2	3	2	0	3	0	3	0	5	1	
828	4" Gate Valve	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
828	6" Gate Valve	EA	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
828	8" Gate Valve	EA	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
828	12" Gate Valve	EA	12	1	3	4	4	0	1	0	0	3	0	1	0	3	0	
833	Exis Meter - New Meter Box	EA	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
834	Fire Hydrant	EA	3	0	1	1	0	0	1	0	0	0	1	0	0	0	1	
834	Relocate Fire Hydrant	EA	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
836	Pipe Fittings, all sizes &	TON	15.05	1.3275	4.51	2.06	2.89	1.18	0.59	1.48	1.77	1.18	3.31	0.59	1.33	1.18	3.33	
840	8" Water Tie-Ins	EA	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
840	12" Water Tie-Ins	EA	28	4	11	1	3	4	2	2	6	4	3	3	4	4	7	
841	Hydrostatic Testing	EA	13	2	5	1	0	2	1	2	3	2	1	1	2	2	3	
844	2" Blow-off, Temporary	EA	33	4	11	4	3	4	2	4	6	4	3	3	4	4	7	
856	Steel Casing Pipe 24"	LF	108	0	90	0	54	0	0	18	0	18	18	0	90	0	0	
856	Carrier Pipe 12" PVC	LF	108	0	90	0	54	0	0	18	0	18	18	0	90	0	0	
856	Jacking, Boring or Tunneling	LF	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	
3000	AC Pipe Removal Transp. and	LF	455	78	138	52	52	78	26	26	78	52	52	39	78	86	52	



STATE OF TEXAS
 79976
 LICENSED PROFESSIONAL ENGINEER
 JOSE A. RUIZ, P.E.
 1/29/2014

ADDENDUM 3

FLOWABLE FILL QTY.

No.	Revision	Drawn	Approved	Date

REVISIONS

CITY OF SAN ANTONIO

GOLIAD RD DRAINAGE IMPROVEMENTS
 GENERAL NOTES
 SW MILITARY TO LOOP 410

DEVELOPER: _____

CONT. BUDGET PROJ.

SUBMITTED _____

APPROVED _____

MAP No. _____ SHEET 2

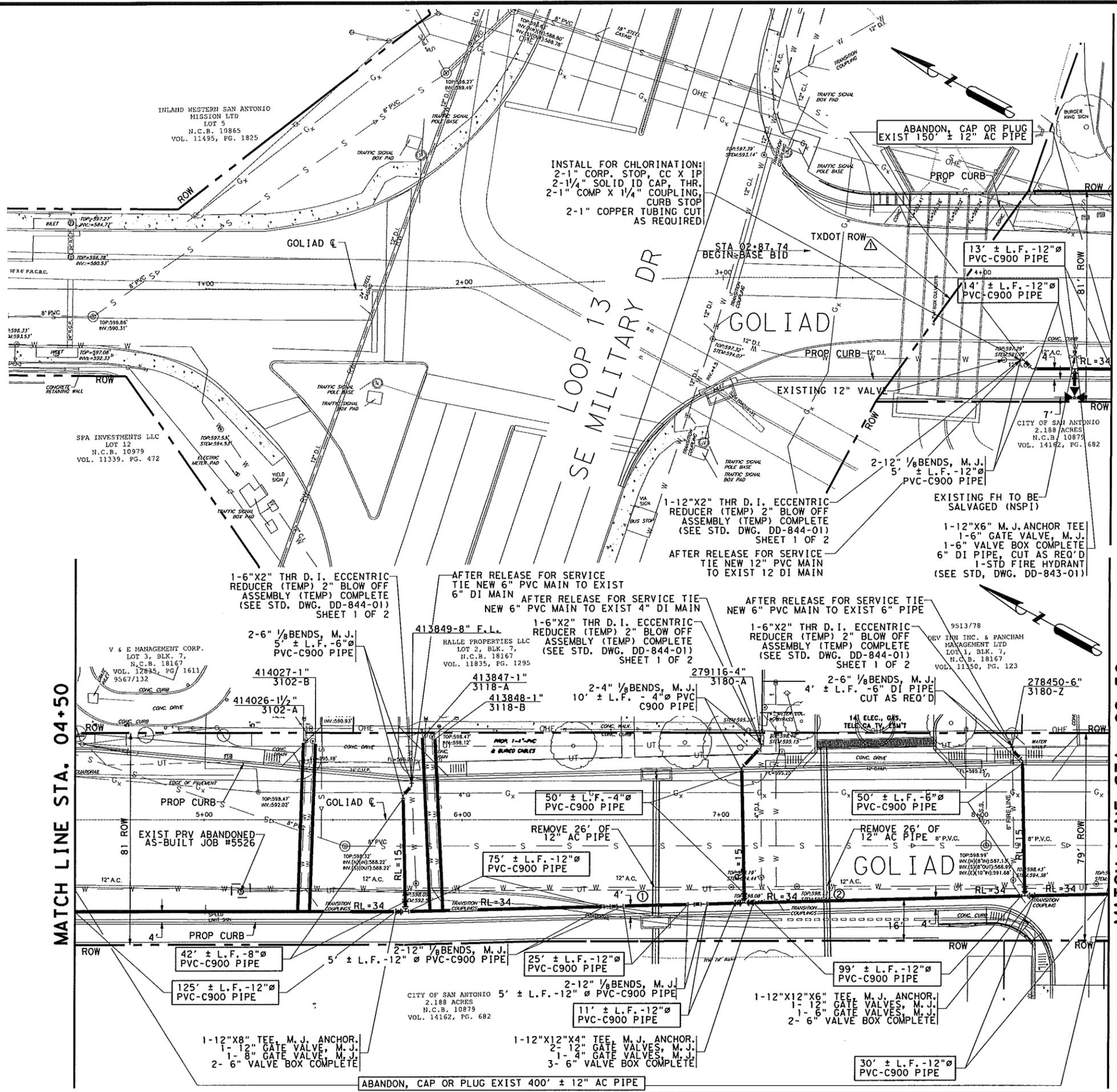
SECT. No. _____

DR. CC [CK, JAR] JOB No. 11-5083 OF 14

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Design File name: \\pc1server2\dottagat\Jobs\11034\Tech\p\rd\Cap\improve\UTILITIES\GR-WT-UTIL*ADDENDUM.dgn



MATCH LINE STA. 04+50

MATCH LINE STA. 08+50

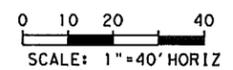
- ① STA 6+75.00 35' RT STORM DRAIN LINE "A-2" (24" RCP)
FL. 592.00, TOP 594.25
FL OF 12" WATER MAIN 588.50
TOP OF 12" WATER MAIN 589.50
- ② STA 7+40.50 30' RT STORM DRAIN LINE "B-1" (24" RCP)
FL. 590.30, TOP 592.55
FL OF 12" WATER MAIN 593.50
TOP OF 12" WATER MAIN 594.50

ITEM NO.	WATER ITEM DESCRIPTION	UNIT	QTY
103	Remove Concrete Curb	LF	14
205	Hot Mix Asphalt Con. "D" (2" com.	SY	313
206	Asphalt Trea. Base - 10 inches	SY	251
500	Concrete Curb	LF	14
550	Trench Protection	LF	407
818	12" PVC Water Line (Restrained)	LF	407
824	Relay 1" Long Service	EA	3
824	Relay 1 1/2" Long Service	EA	1
824	Relay 4" Long Service	EA	1
824	Relay 6" Long Service Fire Line	EA	1
824	Relay 8" Long Service Fire Line	EA	1
828	4" Gate Valve	EA	1
828	6" Gate Valve	EA	2
828	12" Gate Valve	EA	4
834	Fire Hydrant	EA	1
836	Pipe Fittings, all sizes & types	TON	2.06
840	12" Water Tie-Ins	EA	1
841	Hydrostatic Testing	EA	1
844	2" Blow-off, Temporary	EA	4
3000	AC Pipe Removal Transp. and Disposal	LF	52

NOTES:
ON MAINS BEING
ABANDONED REMOVE
VALVE BOXES (N.S.P.I.)

POZNECKI
CAMARILLO
5935 CALLAGHAN RD. SUITE 200
SAN ANTONIO, TEXAS, 78228
(210) 349-3273 info@poznecki.com
TDFE REG. NO. F-483

CDS muery
ENGINEERS • SURVEYORS
11414 S. BURNHAM RD. SUITE 100
SAN ANTONIO, TEXAS 78249



LEGEND

PROP. WATER MAIN	
EXIST. WATER MAIN	
GAS MAIN	
SANITARY SEWER	
STORM SEWER	
UTILITY POLE LINE	
ELECTRIC CABLE	
TELEPHONE CABLE	
DUAL BRANCH SERV.	
NEW UNMETERED SERVICE:	
3/4" SINGLE	
1" DUAL	
SERVICE RECONNECT:	
3/4"	
1" OR LARGER	
SERVICE RELAY:	
3/4"	
1" OR LARGER	
SERVICE RELOCATE:	
3/4"	
1" OR LARGER	
RELOCATE METER	
NEW SERVICE:	
3/4"	
1" OR LARGER	

STATE OF TEXAS
Professional Engineer
JOSE A. RUIZ
19976
LICENSED PROFESSIONAL ENGINEER

1/30/2014
DATE

ADDENDUM 3
TXDOT ROW

No.	Revision	Drawn	Approved	Date

REVISIONS

CITY OF SAN ANTONIO
GOLIAD RD DRAINAGE IMPROVEMENTS
SW MILITARY TO LOOP 410

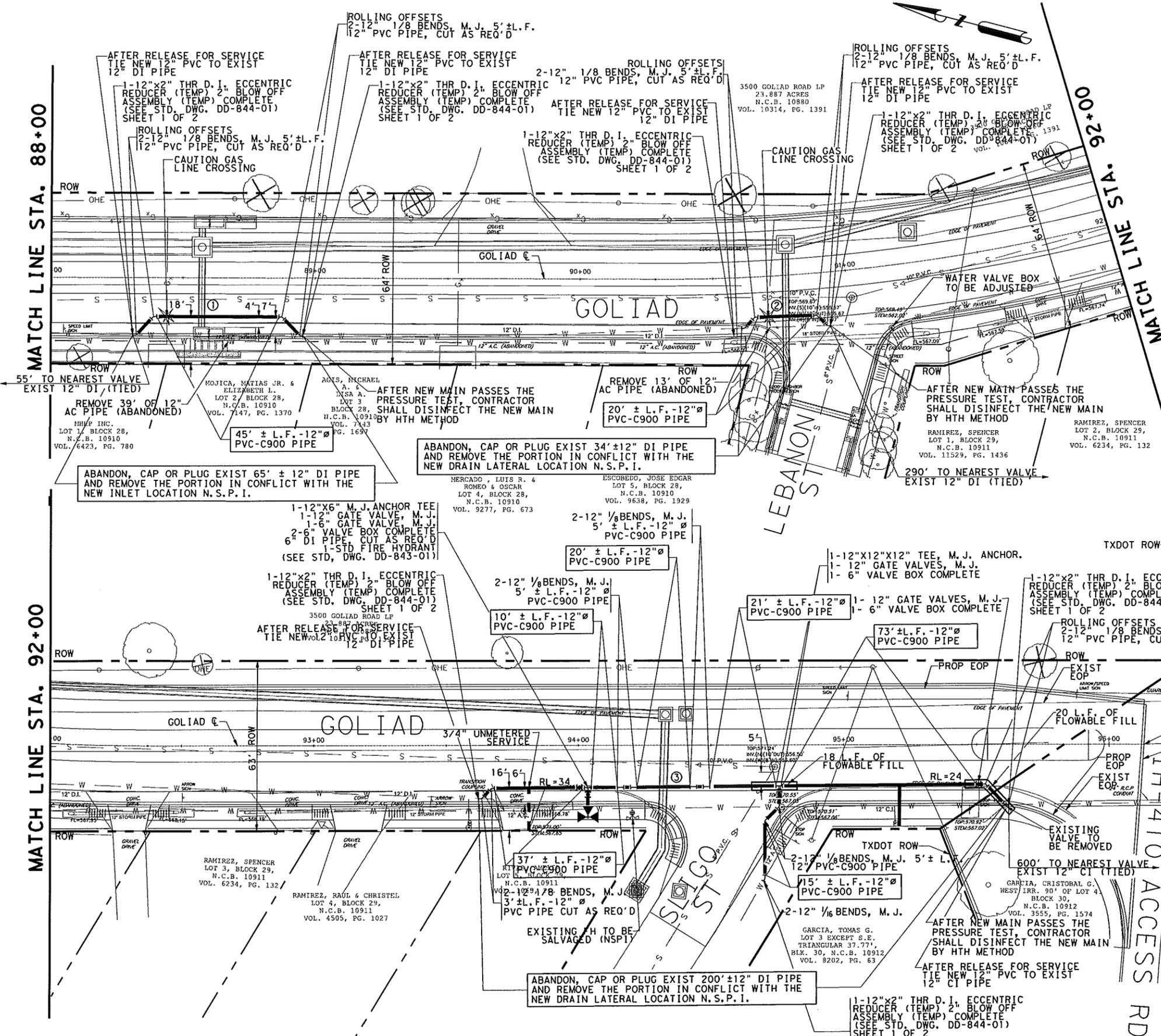
DEVELOPER:
CONT. BUDGET PROJ.

SUBMITTED
APPROVED

MAP No.
SECT. No.
DR. CC [CK, JAR] JOB No. 11-5083 OF 14

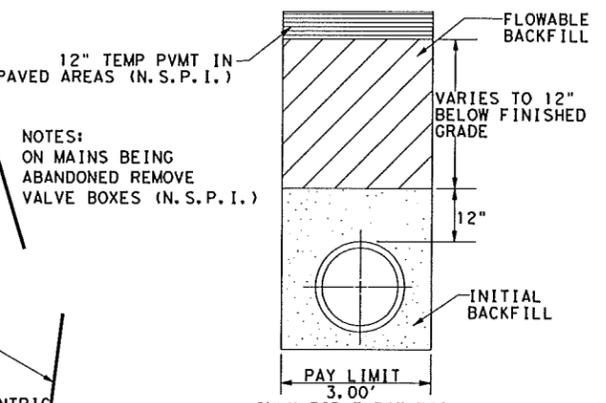
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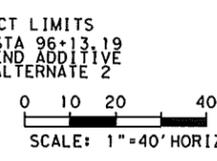
- ① STA 88+60.00 15' RT STORM DRAIN LINE "Z-16" (24" RCP)
FL. 561.00, TOP 563.00
FL. OF 12" WATER MAIN 557.50
TOP OF 12" WATER MAIN 558.50
- ② STA 90+78.00 15' RT STORM DRAIN LINE "Z-17" (24" RCP)
FL. 562.00, TOP 564.00
FL. OF 12" WATER MAIN 559.00
TOP OF 12" WATER MAIN 560.00
- ③ STA 94+33.00 15' RT STORM DRAIN LINE "Z-08" (30" RCP)
FL. 563.90, TOP 565.90
FL. OF 12" WATER MAIN 559.50
TOP OF 12" WATER MAIN 560.50

ITEM NO.	WATER ITEM DESCRIPTION	UNIT	QTY
205	Hot Mix Asphalt Con. "D" (2" com.	SY	128
206	Asphalt Trea. Base - 10 inches	SY	103
413	Flowble Fill (Low strength)	CY	8
550	Trench Protection	LF	286
818	12" PVC Waterline (Restrained)	LF	286
824	Relay 3/4" Short Service	EA	1
824	Relay 3/4" Short Unmetered Service	EA	1
826	Valve Box Adjustment	EA	1
828	12" Gate Valve	EA	3
834	Fire Hydrant	EA	1
836	Pipe Fittings, all sizes & types	TON	3.33
840	12" Water Tie-Ins	EA	7
841	Hydrostatic Testing	EA	3
844	2" Blow-off, Temporary	EA	7
3000	AC Pipe Removal Transp. and Disposal	LF	52



NOTES:
ON MAINS BEING ABANDONED REMOVE VALVE BOXES (N.S.P.I.)

POZNECKI & CAMARILLO
5833 CALLAGHAN RD. SUITE 200
SAN ANTONIO, TEXAS, 78228
(210) 319-3713
CDS muery ENGINEERS SURVEYORS



LEGEND

- PROP. WATER MAIN
- EXIST. WATER MAIN
- GAS MAIN
- SANITARY SEWER
- STORM SEWER
- UTILITY POLE LINE
- ELECTRIC CABLE
- TELEPHONE CABLE
- DUAL BRANCH SERV.
- NEW UNMETERED SERVICE:
- 3/4" SINGLE
- 1" DUAL
- SERVICE RECONNECT:
- 3/4"
- 1" OR LARGER
- SERVICE RELAY:
- 3/4"
- 1" OR LARGER
- SERVICE RELOCATE:
- 3/4"
- 1" OR LARGER
- RELOCATE METER
- NEW SERVICE:
- 3/4"
- 1" OR LARGER

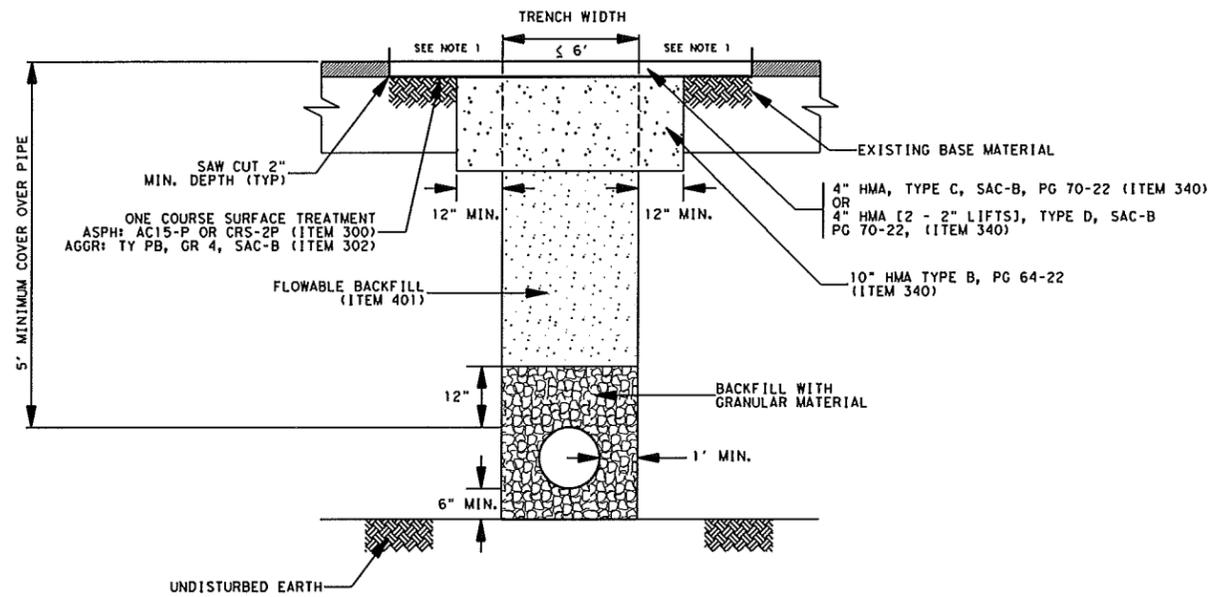
STATE OF TEXAS
JOSE A. RUIZ
79976
LICENSED PROFESSIONAL ENGINEER

ADDENDUM 3
FLOWABLE FILL QTY.

No.	Revision	Drawn	Approved	Date
REVISIONS				
CITY OF SAN ANTONIO				
GOLIAD RD DRAINAGE IMPROVEMENTS				
SW MILITARY TO LOOP 410				
DEVELOPER:				
CONT.		BUDGET PROJ.		
SUBMITTED				
APPROVED				
MAP No.		SHEET 14		
SECT. No.		DR. CC [CK. JAR] JOB No. 11-5083 OF 14		

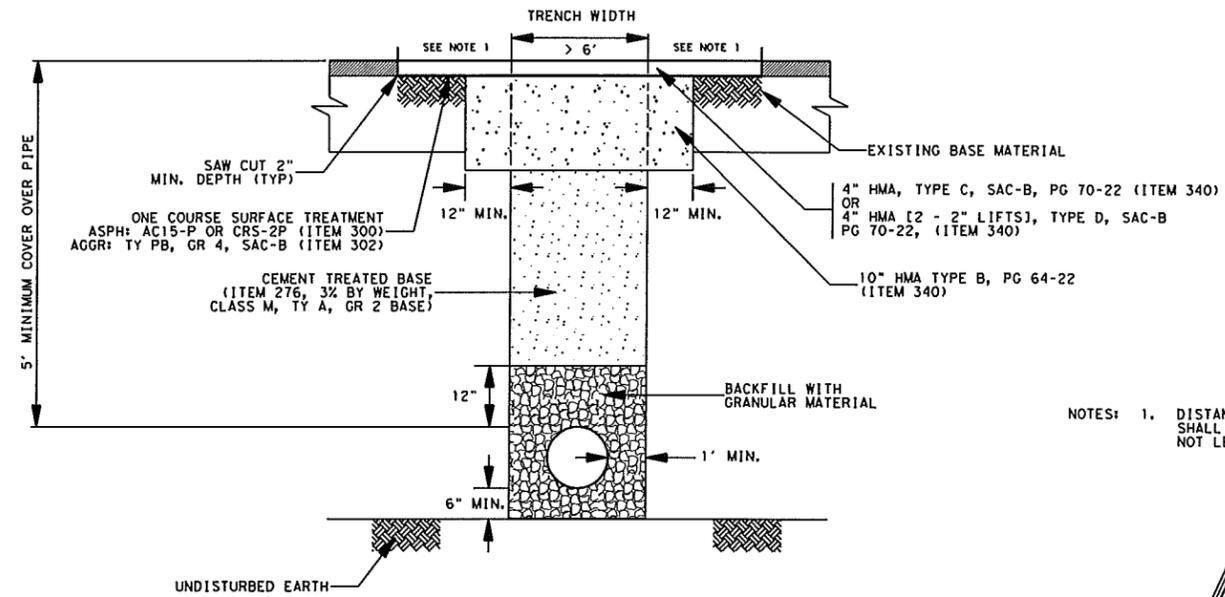
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TRENCH BACKFILL DETAIL WHEN
OPEN-CUTTING OF PAVEMENT IS ALLOWED



TRENCH WITH PAVED SURFACE DETAIL
(FOR TRENCHES EQUAL OR LESS THAN 6' WIDE)

N. T. S.



TRENCH WITH PAVED SURFACE DETAIL
(FOR TRENCHES WIDER THAN 6')

N. T. S.

NOTES: 1. DISTANCE OF HMA TYPE C OVERLAY SHALL BE AS SHOWN ON PLANS BUT NOT LESS THAN 2' MIN.



	 JOSE A. RUIZ, P. E. DATE: 1/30/2014
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ADDENDUM 3			
TXDOT TRENCH DETAILS			
No.	Revision	Drawn	Approved Date

	CITY OF SAN ANTONIO GOLIAD RD DRAINAGE IMPROVEMENTS TXDOT TRENCH DETAILS SW MILITARY TO LOOP 410
---	--

DEVELOPER:	
CONT.	BUDGET PROJ.
SUBMITTED	
APPROVED	
MAP No.	SHEET
SECT. No.	14A
DR. CC CK. JAR	JOB No. 11-5083 OF 14

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ESTIMATED QUANTITIES			
BASE BID			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
COSA 100.01	MOBILIZATION	LS	1
COSA 100.2	INSURANCE AND BOND	LS	1
COSA 101.1	PREPARING RIGHT OF WAY	LS	1
COSA 103.1	REMOVE CONCRETE CURB	LF	1,888
COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAY	SF	15,823
COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (RIPRAP HEADWALL)	SF	406
COSA 104.1	STREET EXCAVATION	CY	15,208
COSA 105.1	CHANNEL EXCAVATION	CY	25
COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	18
COSA 107.1	EMBANKMENT (FINAL) (DENS CONT) (TY B)	CY	2,284
COSA 203.1	TACK COAT	GAL	4,286
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" TEMP SIDEWALK (4" COMP DEPTH)	SY	1,420
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" (3.5" COMP DEPTH)	SY	36,316
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" (6" COMP DEPTH)	SY	644
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE B (8" COMP. DEPTH) (TEMP PAVEMENT)	SY	8,941
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8.5" COMP DEPTH)	SY	40,721
COSA 205.4	WARM MIX ASPHALTIC CONCRETE TYPE "D" (1.5" COMP DEPTH)	SY	394
COSA 205.4	WARM MIX ASPHALTIC CONCRETE TYPE "D" (2" COMP DEPTH)	SY	37,967
COSA 209.1	CONCRETE PAVEMENT (10" DEEP) (BUS PAD)	SY	367
COSA 306.1	STRUCTURAL EXCAVATION	CY	765
COSA 307.1	CONCRETE STRUCTURE (CONCRETE CAP) (STA 12+36)	CY	1
COSA 308.1	DRILLED SHAFTS (24")	LF	34
COSA 308.1	DRILLED SHAFTS (30")	LF	57
COSA 308.1	DRILLED SHAFTS (36")	LF	53
COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (4 FT X 4 FT)	LF	72
COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (6 FT X 3 FT)	LF	4
COSA 401.1	RC PIPE (CLASS III) (24")	LF	1,064
COSA 401.1	RC PIPE (CLASS III) (30")	LF	77
COSA 403.12	SPECIAL INLETS (COMPL) (TYPE R)	EA	2
COSA 403.7	INLET TYPE CI (COMPLETE) (10FT) (6 FT DEPTH)	EA	4
COSA 407.4	CONCRETE COLLARS	CY	5
COSA 410.2	GRAVEL SUBGRADE FILLER	CY	283
COSA 500.1	CONCRETE CURB	LF	182
COSA 500.4	CONCRETE CURB AND GUTTER	LF	14,200
COSA 502.1	CONCRETE SIDEWALKS	SY	4,296
COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	584
COSA 504.1	CONCRETE MEDIAN	S.Y.	96
COSA 505.1	CONCRETE RIPRAP (5" THICK)	SY	957
COSA 505.1	CONCRETE FLUME (6" RIPRAP)	SY	46
COSA 505.1	VIA BUS PAD CONCRETE RIPRAP (6" THICK)	SY	22
COSA 506.1	CONCRETE RETAINING WALL TYPE "E"	CY	108
COSA 506.1	CONCRETE RETAINING WALL TYPE "SA-1"	CY	17
COSA 512.1	ADJUSTING EXISTING MANHOLE	EA	2
COSA 515.1	TOPSOIL	CY	1,584
COSA 516.1	BERMUDA SODDING	SY	9,350
COSA 516.2	ST. AUGUSTINE SODDING	SY	104
COSA 520.1	HYDROMULCHING (RESIDENTIAL OR COMMERCIAL)	SY	4,722
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (INSTALL AND REMOVAL)	L.F.	4,460
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (RELOCATE)	L.F.	4,460
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (INSTALL AND REMOVAL)	L.F.	240
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (RELOCATE)	L.F.	240
COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1
COSA 531.11	R3-5 LEFT OR RIGHT ONLY (30"x36")(HIGH DENSITY)	EA.	2
COSA 531.13	R3-7 LEFT LANE MUST TURN LEFT OR RIGHT LANE MUST TURN RIGHT (30"x30")(HIGH DENSITY)	EA.	2
COSA 531.16	R-3-9 TWO WAY LEFT TURN ONLY (30"x36")(HIGH DENSITY)	EA.	2
COSA 531.3	R1-1 STOP (30")(HIGH DENSITY)	EA.	3
COSA 531.34	S1-1 ADVANCE SCHOOL CROSSING AND SCHOOL CROSSING (36"x36")	EA.	4
COSA 531.43	W1-7 LARGE ARROW (48"x24")(HIGH DENSITY)	EA.	1
COSA 531.57	10 INCH [229mm] STREET NAME, BLOCK NUMBER (VARIES x10")(HIGH DENSITY) (2 PLATES PER STREET)	EA.	3
COSA 531.59	SPECIAL SIGN "END SCHOOL ZONE" (24"x10")(HIGH DENSITY)	EA.	2
COSA 531.6	R2-1 SPEED LIMIT (24"x30")(HIGH DENSITY)	EA.	5
COSA 531.65	S4-3A SCHOOL ZONE ARROWS (24"x18")(HIGH DENSITY)	EA.	2
COSA 531.68	R3-17 (BIKE LANE)(30"x24")(HIGH DENSITY)	EA.	9
COSA 531.69	R3-17a (AHEAD)(30"x12")(HIGH DENSITY)	EA.	3
COSA 531.7	R3-17b (ENDS)(30"x12")(HIGH DENSITY)	EA.	1
COSA 531.71	R4-4 (BEGIN RIGHT TURN LANE YIELD TO BIKES)(36"x30")(HIGH DENSITY)	EA.	2
COSA 531.76	R3-9CP BEGIN (24"x8")	EA.	1
COSA 531.XX	R3-8LLK LANE-USE CONTROL (48"x30")(HIGH DENSITY)	EA.	2
COSA 531.XX	R3-9CP END (24"x8")	EA.	1
COSA 531.XX	R3-5hTP "400 FT" PLAQUE (30"x8")(HIGH DENSITY)	EA.	1
COSA 531.XX	S7-IT "CELL PHONE USE PROHIBITED" SIGN (24"x_) (HIGH DENSITY)	EA.	2
COSA 535.1	4 INCH WIDE YELLOW LINE	L.F.	14,040
COSA 535.1	COMBINATION THRU/RIGHT WHITE ARROW	EA.	3
COSA 535.12	WORD "ONLY"	EA.	3
COSA 535.13	STRAIGHT WHITE ARROW	EA.	2

COSA 535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA.	14
COSA 535.17	BICYCLE RIDER SYMBOL	EA.	15
COSA 535.2	4 INCH WIDE WHITE LINE	L.F.	10
COSA 535.3	8 INCH WIDE YELLOW LINE	L.F.	210
COSA 535.4	8 INCH WIDE WHITE LINE	L.F.	14,892
COSA 535.4	8 INCH WIDE WHITE LINE (BRKN)	L.F.	156
COSA 535.7	24 INCH WIDE WHITE LINE	L.F.	368
COSA 535.7	24 INCH WIDE YELLOW LINE	L.F.	368
COSA 535.8	RIGHT WHITE ARROW	EA.	12
COSA 535.9	LEFT WHITE ARROW	EA.	54
COSA 536.1	4 INCH WIDE YELLOW LINE (TEMPORARY)	L.F.	31,116
COSA 536.2	4 INCH WIDE WHITE LINE (TEMPORARY)	L.F.	865
COSA 537.6	TRAFFIC BUTTON (TYPE I-C)	EA.	92
COSA 537.8	TRAFFIC BUTTON (TYPE II A-A)	EA.	436
COSA 540.1	ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 2)	LF	55
COSA 540.10	CURB INLET GRAVEL FILTERS	L.F.	979
COSA 540.6	CONSTRUCTION EXITS (INSTALL/REMOVE)	S.Y.	1,860
COSA 540.9	TEMPORARY SEDIMENT CONTROL FENCE	L.F.	7,495
COSA 540.XX	GRAVEL FILTER BAGS	L.F.	62
COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	1,141
COSA 552.1	REMOVING AND RELOCATING IRRIGATION SYSTEM	L.F.	150
COSA 554.1	EROSION CONTROL MATTING - EROSION CONTROL BLANKET (ECB) (TXDOT CLASS 1, TYPE C)	SY	4,722
COSA 615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	2
COSA 618.1	CONDUIT TRENCHED 2 INCH PVC (SCHEDULE 40)	LF	240
COSA 618.2	CONDUIT TRENCHED 3 INCH PVC (SCHEDULE 40)	LF	2,125
COSA 620.1	ELECTRICAL CONDUCTORS (No. 6) (BARE)	LF	37
COSA 620.2	ELECTRICAL CONDUCTORS (No. 8) (BARE)	LF	1,545
COSA 620.3	ELECTRICAL CONDUCTORS (No.6) (INSULATED)	LF	72
COSA 624.3	GROUND BOXES TYPE C (162911) W/APRON	EA	12
COSA 628.1	ELECTRICAL SERVICES	EA	2
COSA 633.1	BATTERY BACKUP SYSTEM	EA	2
COSA 655.1	TYPE 332 CONTROLLER FOUNDATION	EA	2
COSA 680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	2
COSA 681.1	TEMPORARY TRAFFIC SIGNALS (PER INTERSECTION)	EA	1
COSA 682.1	VEHICLE SIGNAL SECTION WITH BACK PLATE (12 INCH) (3 SEC)	EA	14
COSA 682.2	VEHICLE SIGNAL SECTION WITH BACK PLATE (12 INCH) (4 SEC)	EA	3
COSA 682.4	PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND)	EA	12
COSA 683.1	LED COUNTDOWN PEDESTRIAN MODULE	EA	12
COSA 684.1	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (4 COND)	LF	1,070
COSA 684.1	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (8 COND)	LF	3,025
COSA 685.3	REMOVE FLASHING BEACON ASSYS	EA	2
COSA 685.4	SOLAR-POWERED SCHOOL ZONE FLASHER ASSYS	EA	2
COSA 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 24") WITH ILSN	EA	1
COSA 686.1	TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28") "SCHOOL FLASHER"	EA	2
COSA 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32") WITH ILSN	EA	2
COSA 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36") WITH ILSN	EA	4
COSA 687.1	PEDESTAL POLE ASSEMBLY (10')	EA	6
COSA 688.3	AUDIBLE PEDESTRIAN SIGNAL UNITS	EA	12
COSA 691.1	SPREAD SPECTRUM RADIO	EA	2
COSA 691.2	ANTENNA (UNIDIRECTIONAL)	EA	2
COSA 691.3	COAXIAL CABLE	LF	200
COSA 693.1	INTERNALLY LIGHTED STREET NAME SIGNS (ILSN SIGN 9' S)	EA	7
COSA 695.2	EMERGENCY PREEMPTION PHASE SELECTOR	EA	4
COSA 695.3	EMERGENCY PREEMPTION DETECTOR	EA	7
COSA 695.4	EMERGENCY PREEMPTION DETECTOR CABLE	LF	1,100
COSA 696.01	RADAR ADVANCE DETECTOR	EA	4
COSA 696.02	RADAR PRESENCE DETECTOR	EA	7
COSA 696.04	RADAR PRESENCE DETECTION DEVICE (RADD) COMMUNICATION AND POWER CABLE	LF	1,392
COSA 801.1	LEVEL II A PROTECTIVE FENCING	LF	1,180
COSA 801.3	LEVEL II B PROTECTIVE FENCING	LF	314
COSA 802.3	LEVEL II TREE PRUNING	EA	7
COSA 805	PLANT TREES / SHRUBS (LIKE KIND & SIZE AS REMOVED) (24" BOX SAGO PALM) (3'-4" TALL, 3'-4" WIDE)	EA	2
TxDOT 0450	RAIL (TY PR1)	LF	219
TxDOT 0462	CONC BOX CULV (7 FT X 4 FT) (CAST - IN - PLACE)	LF	64
TxDOT 0465	INLET (COMPL) (TY C) (10 FT)	EA	25
TxDOT 0465	INLET (COMPL) (TY C) (10 FT) (EXTENSION)	EA	7
TxDOT 0465	TxDOT TRAFFIC GRATE TYPE 5 (MODIFIED)	EA	1
TxDOT 0465	INLET (COMPL) (TY C) (10 FT) (EXTRA DEPTH)	VF	28
TxDOT 0466	HEADWALL (CH-FW-0) (2-1) (DIA= 12 IN)	EA	1
TxDOT 0466	WINGWALL (FW-0) (HW = 5 FT)	EA	1
TxDOT 0496	REMOVE STRUCTURE (CONC HEADWALL) (STA. 3+85.32)	EA	1
TxDOT 0529	CONC CURB (ARMOR CURB SLOT)	LF	14
TxDOT 0531	CONC SIDEWALK (BRIDGE) (MOD) (TYPE 1)	LF	14
TxDOT 0531	CONC SIDEWALK (BRIDGE) (MOD) (TYPE 2)	LF	56
TxDOT 0542	REMOVING METAL BEAM GUARD FENCE	LF	1,763
TxDOT 0550	CHAIN LINK FENCE (REMOVE)	LF	5,260
TxDOT 0772	POST AND CABLE FENCE(NEW INSTALLATION)	LF	6,643
SS 6000	TEMPORARY CHAIN LINK FENCE	LF	362
SS 6001	WOODEN PRIVACY FENCE (6' HIGH)	LF	362

SS 6002.1	TEMPORARY STORM DRAINAGE (TYPE 1) (3 X 3 GRATE INLET AND 24" PIPE)	EA	2
SS 6002.1	TEMPORARY STORM DRAINAGE (TYPE 1) (4 X 4 GRATE INLET AND 30" PIPE)	EA	2
SS 6002.2	TEMPORARY STORM DRAINAGE (TYPE 2) (HEADWALL AND 30" PIPE)	EA	3
SS 6002.5	TEMPORARY STORM DRAINAGE (TYPE 5)	EA	5
SS 6003.1	ADJUSTING OF VEHICULAR GATES AT STATION 44+54.57 (TEN BEARS)	EA	2
SS 6004	UTILITY POLE BRACING	EA	4
SS 6006.1	PIPE AND STRUCTURE REMOVAL AT STATION 02+98 (COMPLETE)	EA	1
SS 6006.2	PIPE AND STRUCTURE REMOVAL AT STATION 18+15 (COMPLETE)	EA	1
SS 6006.3	PIPE AND STRUCTURE REMOVAL AT STATION 22+30 (COMPLETE)	EA	1
SS 6006.4	PIPE AND STRUCTURE REMOVAL AT STATION 31+80 (COMPLETE)	EA	1
SS 6006.5	PIPE AND STRUCTURE REMOVAL AT STATION 36+83 (COMPLETE)	EA	1
SS 6006.6	PIPE AND STRUCTURE REMOVAL AT STATION 49+34 (COMPLETE)	EA	1
SS 6006.7	PIPE AND STRUCTURE REMOVAL AT STATION 55+92 (COMPLETE)	EA	1
SS 6006.8	PIPE AND STRUCTURE REMOVAL FROM STA 9+60.45 TO STA 12+72.00 (COMPLETE)	EA	1
SPL	WIRELESS ETHERNET BRIDGE	EA	2

REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	ADJUSTED QUANTITIES



CDS muery
ENGINEERS • SURVEYORS

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

GOLIAD ROAD

ESTIMATED QUANTITIES SHEET (BASE BID)

100 % SUBMITTAL	PROJECT NO.:	DATE 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm
		SHEET NO.: 3 OF 510

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ESTIMATED QUANTITIES			
ADDITIVE ALTERNATE NO. 1			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
COSA 100.01	MOBILIZATION	LS	1
COSA 100.2	INSURANCE AND BOND	LS	1
COSA 101.1	PREPARING RIGHT OF WAY	LS	1
COSA 103.1	REMOVE CONCRETE CURB	LF	100
COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAY	SF	1,026
COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (RIPRAP)	SF	970
COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (CHANNEL RIP RAP)	SF	3,368
COSA 104.1	STREET EXCAVATION	CY	1,642
COSA 105.1	CHANNEL EXCAVATION	CY	64
COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	2,969
COSA 107.1	EMBANKMENT (FINAL) (DENS CONT) (TY B)	CY	544
COSA 203.1	TACK COAT	GAL	577
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" TEMP SIDEWALK (4" COMP DEPTH)	SY	190
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" (3.5" COMP DEPTH)	SY	3,895
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE B (8" COMP. DEPTH) (TEMP PAVEMENT)	SY	1,594
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8.5" COMP DEPTH)	SY	4,448
COSA 205.4	WARM MIX ASPHALTIC CONCRETE TYPE "D" (2" COMP DEPTH)	SY	5,237
COSA 306.1	STRUCTURAL EXCAVATION	CY	92
COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (6 FT X 3 FT)	LF	42
COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (10 FT X 5FT)	LF	460
COSA 401.1	RC PIPE (CLASS III) (24")	LF	121
COSA 403.12	SPECIAL INLETS (COMPL) (TYPE R)	EA	1
COSA 403.15	VERTICAL MANHOLE STACK (24" OPENING)	EA	2
COSA 403.15	VERTICAL MANHOLE STACK (48" OPENING)	EA	1
COSA 410.2	GRAVEL SUBGRADE FILLER	CY	308
COSA 500.4	CONCRETE CURB AND GUTTER	LF	1,673
COSA 502.1	CONCRETE SIDEWALKS	SY	526
COSA 503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	21
COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	66
COSA 505.1	CONCRETE RIPRAP (5" THICK)	SY	417
COSA 505.1	CONCRETE FLUME (6" RIPRAP)	SY	13
COSA 506.1	CONCRETE RETAINING WALL TYPE "E"	CY	9
COSA 506.1	CONCRETE RETAINING WALL TYPE "C-1"	CY	1
COSA 515.1	TOPSOIL	CY	132
COSA 516.1	BERMUDA SODDING	SY	1,137
COSA 520.1	HYDROMULCHING (RESIDENTIAL OR COMMERCIAL)	SY	40
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (INSTALL AND REMOVAL)	L.F.	780
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (RELOCATE)	L.F.	780
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (INSTALL AND REMOVAL)	L.F.	80
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (RELOCATE)	L.F.	80
COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1
COSA 531.3	R1-1 STOP (30") (HIGH DENSITY)	EA.	1
COSA 531.57	10 INCH [229mm] STREET NAME, BLOCK NUMBER (VARIES x10") (HIGH DENSITY) (2 PLATES PER STREET)	EA.	1
COSA 531.6	R2-1 SPEED LIMIT (24"x30") (HIGH DENSITY)	EA.	2
COSA 531.68	R3-17 (BIKE LANE) (30"x24") (HIGH DENSITY)	EA.	2
COSA 535.1	4 INCH WIDE YELLOW LINE	L.F.	1,600
COSA 535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA.	3
COSA 535.17	BICYCLE RIDER SYMBOL	EA.	3
COSA 535.2	4 INCH WIDE YELLOW LINE (BRKN)	L.F.	400
COSA 535.4	8 INCH WIDE WHITE LINE	L.F.	1,555
COSA 535.4	8 INCH WIDE WHITE LINE (BRKN)	L.F.	28
COSA 535.9	LEFT WHITE ARROW	EA.	6
COSA 536.1	4 INCH WIDE YELLOW LINE (TEMPORARY)	L.F.	4,680
COSA 537.8	TRAFFIC BUTTON (TYPE II A-A)	EA.	44
COSA 540.10	CURB INLET GRAVEL FILTERS	L.F.	90
COSA 540.10	ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 2)	LF	60
COSA 540.6	CONSTRUCTION EXITS (INSTALL/REMOVE)	S.Y.	156
COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	121
COSA 554.1	EROSION CONTROL MATTING - EROSION CONTROL BLANKET (ECB) (TXDOT CLASS 1, TYPE C)	SY	40
COSA 801.1	LEVEL II A PROTECTIVE FENCING	LF	300
COSA 801.3	LEVEL II B PROTECTIVE FENCING	LF	132
COSA 802.3	LEVEL II TREE PRUNING	EA	3
TxDOT 0450	RAIL (TY C223)	LF	159
TxDOT 0450	RAIL (TY PR1)	LF	249
TxDOT 0462	CONC BOX CULV (10 FTX 7 FT) (CAST - IN - PLACE)	LF	94
TxDOT 0465	INLET (COMPL) (TY C) (10 FT)	EA	4
TxDOT 0465	INLET (COMPL) (TY C) (10 FT) (EXTENSION)	EA	2
TxDOT 0466	WINGWALL (PW-1) (HW = 6 FT)	LS	1
TxDOT 0466	WINGWALL (PW-1) (HW = 9 FT X 6 IN)	EA	2
TxDOT 0496	REMOVE STRUCTURE (CONC HEADWALL) (STA. 79+21.68 L&R)	EA	2

TxDOT 0542	REMOVING METAL BEAM GUARD FENCE	LF	265
TxDOT 772	POST AND CABLE FENCE(NEW INSTALLATION)	LF	211
SS 6000	TEMPORARY CHAIN LINK FENCE	LF	372
SS 6001	WOODEN PRIVACY FENCE (6' HIGH)	LF	372
SS 6004	UTILITY POLE BRACING	EA	2

REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	ADJUSTED QUANTITIES

CDS Muery F-1733





CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

GOLIAD ROAD

ESTIMATED QUANTITIES SHEET
(ADDITIVE ALTERNATE No. 1)

100 % SUBMITTAL	PROJECT NO.:	DATE 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

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ESTIMATED QUANTITIES			
ADDITIVE ALTERNATE NO. 2			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
COSA 100.01	MOBILIZATION	LS	1
COSA 100.2	INSURANCE AND BOND	LS	1
COSA 101.1	PREPARING RIGHT OF WAY	LS	1
COSA 103.1	REMOVE CONCRETE CURB	LF	266
COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAY	SF	1,705
COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (RIPRAP HEADWALL)	SF	368
COSA 104.1	STREET EXCAVATION	CY	3,076
COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	1,942
COSA 107.1	EMBANKMENT (FINAL) (DENS CONT) (TY B)	CY	370
COSA 203.1	TACK COAT	GAL	735
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" (3.5" COMP DEPTH)	SY	6,559
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE B (8" COMP. DEPTH) (TEMP PAVEMENT)	SY	1,220
COSA 205.2	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8.5" COMP DEPTH)	SY	7,353
COSA 205.4	WARM MIX ASPHALTIC CONCRETE TYPE "D" (2" COMP DEPTH)	SY	6,559
COSA 302.2	METAL FOR STRUCTURES (GALVANIZED TRASH RACK)	LS	1
COSA 306.1	STRUCTURAL EXCAVATION	C.Y.	525
COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (5 FT X 3 FT)	LF	343
COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (10 FT X 4 FT)	LF	86
COSA 309.1	REINFORCED CONCRETE PRECAST BOX TRANSITION (5' X 3' TO 10' X 4')	LF	8
COSA 309.1	REINFORCED CONCRETE PRECAST BOX TRANSITION (5' X 3' TO 5' X 4')	LF	8
COSA 309.1	REINFORCED CONCRETE PRECAST BOX TRANSITION (10' X 4' TO 10' X 5')	LF	8
COSA 401.1	RC PIPE (CLASS III) (24")	LF	128
COSA 401.1	RC PIPE (CLASS III) (30")	LF	502
COSA 401.1	RC PIPE (CLASS III) (36")	LF	205
COSA 403.1	JUNCTION BOX (4 FT X 4 FT)	EA	1
COSA 403.15	VERTICAL MANHOLE STACK (48" OPENING)	EA	3
COSA 403.2	JUNCTION BOX (5 FT X 5 FT)	EA	1
COSA 410.2	GRAVEL SUBGRADE FILLER	CY	290
COSA 500.4	CONCRETE CURB AND GUTTER	LF	2,705
COSA 502.1	CONCRETE SIDEWALKS	SY	697
COSA 503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	75
COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	35
COSA 505.1	CONCRETE RIPRAP (5" THICK)	SY	3
COSA 505.1	CONCRETE FLUME (6" RIPRAP)	SY	6
COSA 505.1	VIA BUS PAD CONCRETE RIPRAP (6" THICK)	SY	6
COSA 506.1	CONCRETE RETAINING WALL TYPE "E"	CY	32
COSA 515.1	TOPSOIL	CY	138
COSA 516.1	BERMUDA SODDING	SY	1,242
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (INSTALL AND REMOVAL)	L.F.	1,300
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (RELOCATE)	L.F.	1,300
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (INSTALL AND REMOVAL)	L.F.	160
COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (RELOCATE)	L.F.	160
COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1
COSA 531.16	R-3-9 TWO WAY LEFT TURN ONLY (30"x36")(HIGH DENSITY)	EA.	2
COSA 531.3	R1-1 STOP (30")(HIGH DENSITY)	EA.	2
COSA 531.38	W1-2 CURVE (30"x30")(HIGH DENSITY)	EA.	1
COSA 531.45	W1-8 CHEVRON ALIGNMENT (18"x24")(HIGH DENSITY)	EA.	3
COSA 531.52	W13-1 ADVISORY SPEED (18"x18)(HIGH DENSITY)	EA.	1
COSA 531.57	10 INCH [229mm] STREET NAME, BLOCK NUMBER (VARIES x10")(HIGH DENSITY) (2 PLATES PER STREET)	EA.	2
COSA 531.6	R2-1 SPEED LIMIT (24"x30")(HIGH DENSITY)	EA.	1
COSA 531.68	R3-17 (BIKE LANE)(30"x24")(HIGH DENSITY)	EA.	4
COSA 531.7	R3-17b (ENDS)(30"x12")(HIGH DENSITY)	EA.	1
COSA 531.76	R3-9cP BEGIN (24"x8")	EA.	1
COSA 531.XX	R3-9cP END (24"x8")	EA.	1
COSA 531.XX	M6-IB "RIGHT ARROW" (30"x24")	EA.	1
COSA 535.1	4 INCH WIDE YELLOW LINE	L.F.	2,370
COSA 535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA.	3
COSA 535.17	BICYCLE RIDER SYMBOL	EA.	3
COSA 535.2	4 INCH WIDE YELLOW LINE (BRKN)	L.F.	500
COSA 535.4	8 INCH WIDE WHITE LINE	L.F.	2,308
COSA 535.4	8 INCH WIDE WHITE LINE (BRKN)	L.F.	84
COSA 535.7	24 INCH WIDE YELLOW LINE	L.F.	30
COSA 535.9	LEFT WHITE ARROW	EA.	8
COSA 536.1	4 INCH WIDE YELLOW LINE (TEMPORARY)	L.F.	4,886
COSA 537.8	TRAFFIC BUTTON (TYPE II A-A)	EA.	88
COSA 540.10	CURB INLET GRAVEL FILTERS	L.F.	270
COSA 540.6	CONSTRUCTION EXITS (INSTALL/REMOVE)	S.Y.	624
COSA 540.xx	GRAVEL FILTER BAGS	L.F.	200
COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	851
COSA 801.1	LEVEL II A PROTECTIVE FENCING	LF	800

COSA 801.3	LEVEL II B PROTECTIVE FENCING	LF	304
COSA 802.3	LEVEL II TREE PRUNING	EA	10
TxDOT 0465	INLET (COMPL) (TY C) (10 FT)	EA	6
TxDOT 0465	INLET (COMPL) (TY C) (10 FT) (EXTENSION)	EA	6
TxDOT 0465	INLET (COMPL)(TY H)(GRATE)	EA	1
TxDOT 0496	REMOVE STRUCTURE (2 - 5X2 MBC)	EA	1
TxDOT 0531	CONC SIDEWALK (BRIDGE) (MOD) (TYPE 2)	LF	28
TxDOT 0542	REMOVING METAL BEAM GUARD FENCE	LF	247
TxDOT 772	POST AND CABLE FENCE(REMOVAL)	LF	75
TxDOT 772	POST AND CABLE FENCE(NEW INSTALLATION)	LF	253
SS 6000	TEMPORARY CHAIN LINK FENCE	LF	551
SS 6001	WOODEN PRIVACY FENCE (6' HIGH)	LF	551
SS 6002.3	TEMPORARY STORM DRAINAGE (TYPE 3) (HEADWALL AND 2 X 5 X 2 MBC)	EA	1
SS 6002.4	TEMPORARY STORM DRAINAGE (TYPE 4) (RIPRAP AND 18" PIPE)	EA	1
SS 6002.6	TEMPORARY STORM DRAINAGE (TYPE 6)	EA	1

REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	ADJUSTED QUANTITIES



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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

GOLIAD ROAD
ESTIMATED QUANTITIES SHEET
(ADDITIVE ALTERNATE No. 2)

100 % SUBMITTAL	PROJECT NO.:	DATE: 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

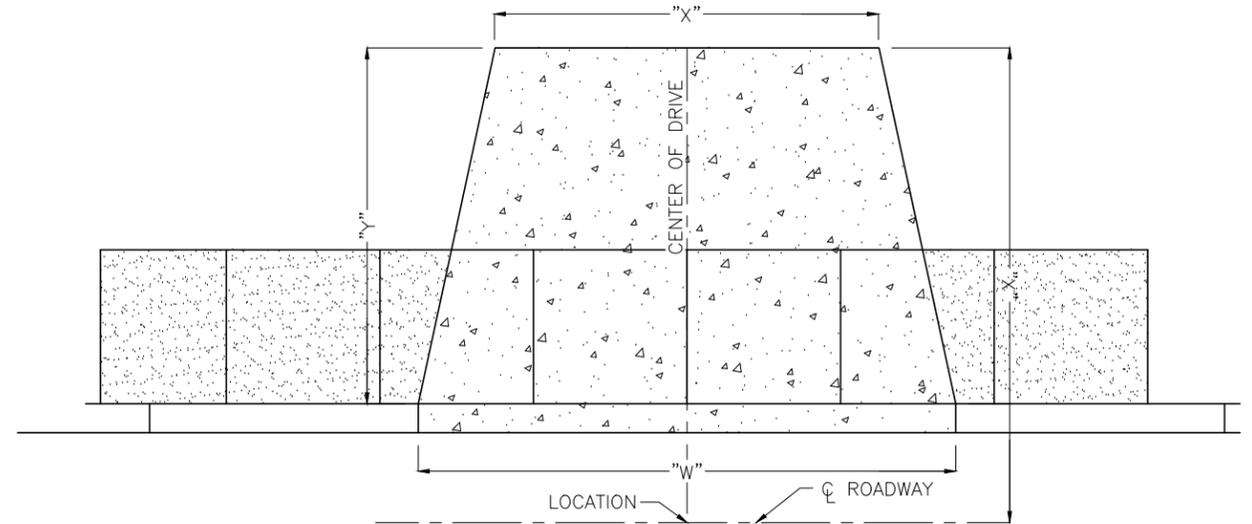
SHEET NO. 5 OF 510

DRIVEWAY SUMMARY												
PLAN SHT NO.	LOCATION	DRWY TYPE	DRWY NO.	DRWY PENETRATION	"W"	"X"	"Y"	"Z"	*** SURF AREA	6" CLASS "A" CONC	5" CLASS "A" CONC	
					FT.	FT.	FT.	FT.	FT.	S.Y.	S.Y.	S.Y.
BASE BID												
160	GOLIAD RD - 5+60.46 L	I	1	2.82	63.44	29.70	17.56	35.90	92.00	92.00	-	
160	GOLIAD RD - 6+22.19 L	I	2	18.47	60.70	51.74	33.84	30.00	145.00	145.00	-	
160	GOLIAD RD - 7+59.48 L	I	3	7.38	53.90	-	19.35	40.71	91.00	91.00	-	
160	GOLIAD RD - 8+53.27 L	I	4	-	50.60	29.98	10.45	33.20	47.00	47.00	-	
161	GOLIAD RD - 12+31.47 L	I	5	-	44.89	24.62	10.13	32.88	39.00	39.00	-	
162	GOLIAD RD - 14+95.72 L	I	6	-	58.16	37.78	10.19	32.94	55.00	58.00	-	
163	GOLIAD RD - 16+66.36 L	I	7	-	24.23	11.60	6.32	29.07	13.00	13.00	-	
164	GOLIAD RD - 20+69.88 L	I	8	-	53.50	38.31	7.60	30.35	39.00	37.00	-	
165	GOLIAD RD - 25+00.00 L	I	9	-	45.70	28.91	8.39	31.14	35.00	35.00	-	
167	GOLIAD RD - 34+68.94 L	I	10	-	37.60	23.00	7.30	30.05	25.00	25.00	-	
169	GOLIAD RD - 42+82.03 L	I	11	-	16.00	12.00		7.76	12.50	12.50	-	
									Sub-Total	593.50	594.50	-
ADDITIVE ALTERNATE NO. 1												
178	GOLIAD RD - 80+07.24 R	I	12	2.75	47.25	25.50	10.80	33.62	44.00	44.00	-	
178	GOLIAD RD - 80+07.52 L	I	13	-	20.00	16.31	4.63	27.38	10.00	10.00	-	
179	JUNIPER ST L	II	14	-	15.33	11.09	13.81	-	21.00	-	21.00	
									Sub-Total	75.00	54.00	21.00
ADDITIVE ALTERNATE NO. 2												
181	GOLIAD RD - 89+69.00 L	I	15	-	42.51	24.00	9.25	32.00	35.00	35.00	-	
181	GOLIAD RD - 91+71.15 R	II	16	-	16.00	12.05	12.43	35.14	20.00	-	20.00	
181	GOLIAD RD - 92+30.39 R	II	17	-	16.13	12.30	9.06	31.77	15.00	-	15.00	
182	GOLIAD RD - 93+17.04 R	II	18	-	21.20	16.31	12.60	35.25	26.00	-	26.00	
182	GOLIAD RD - 93+76.58 R	II	19	-	13.68	9.68		9.10	14.00	-	14.00	
									Sub-Total	110.00	35.00	75.00
									Total	778.50	683.50	96.00

*** - FOR CONTRACTORS INFORMATION ONLY

DRIVEWAY TYPES

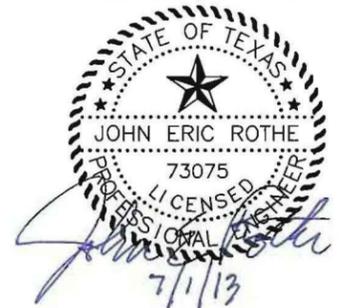
- I - COMMERCIAL DRIVEWAY WITH 6" CLASS "A" CONCRETE & MINIMUM 2" FLEX BASE
- II - RESIDENTIAL DRIVEWAY WITH 5" CLASS "A" CONCRETE & MINIMUM 2" FLEX BASE



TYPICAL DRIVEWAY PLAN VIEW
NO SCALE

REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	UPDATED DRIVEWAY TABLE

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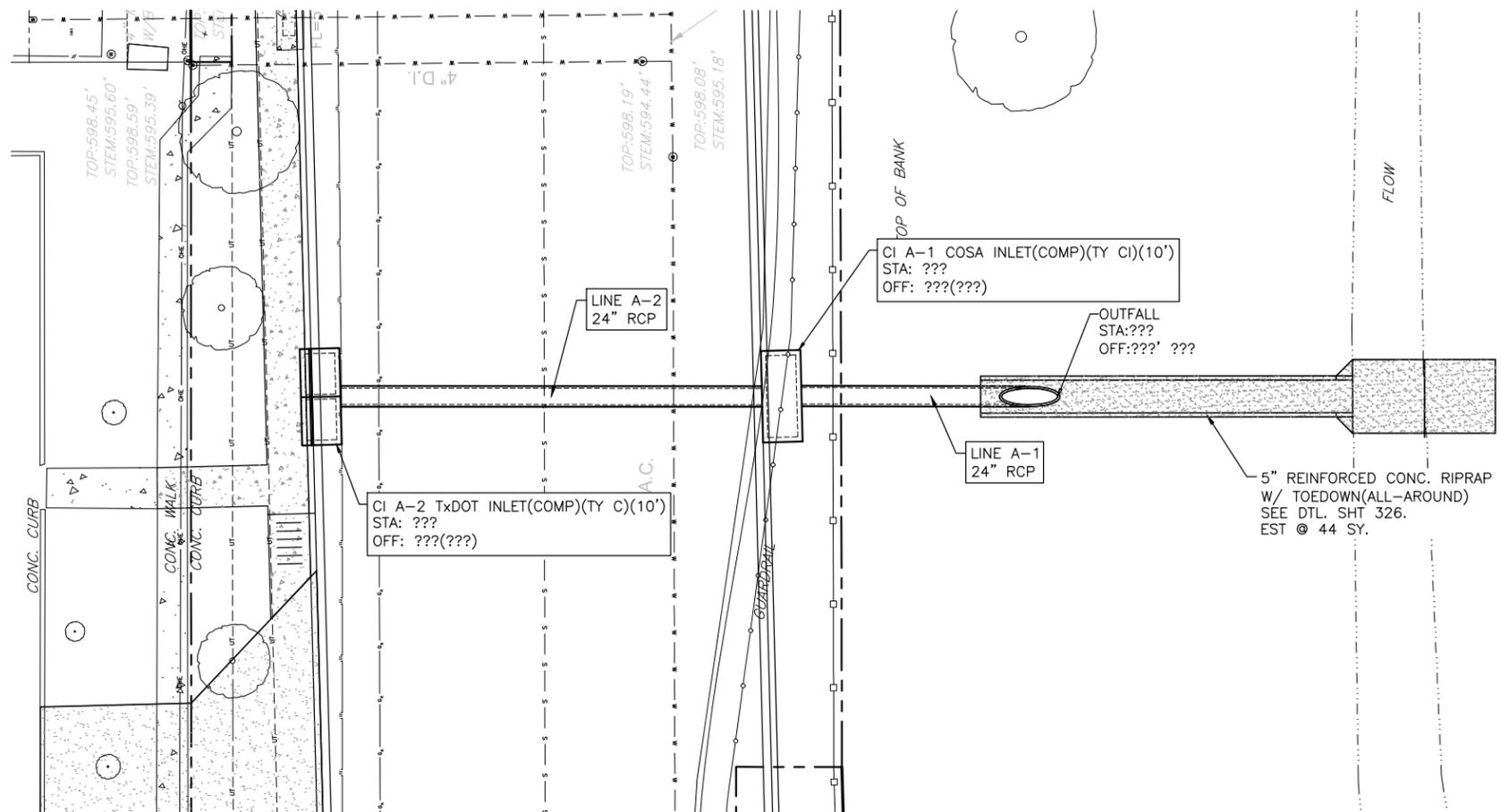
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
GOLIAD ROAD

DRIVEWAY SUMMARY

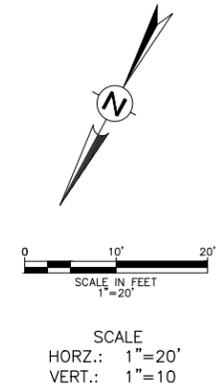
100 % SUBMITTAL	PROJECT NO.:	DATE 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

NOTE:

1. PROTECT AND SUPPORT EXISTING UTILITY POLES IN THE VICINITY OF PROPOSED DRAINAGE CONSTRUCTION. BRACING AND/OR OTHER METHODS MAY BE REQUIRED.
2. SEE SAWS PLANS FOR REMOVAL AND DISPOSAL OF A.C. PIPE.



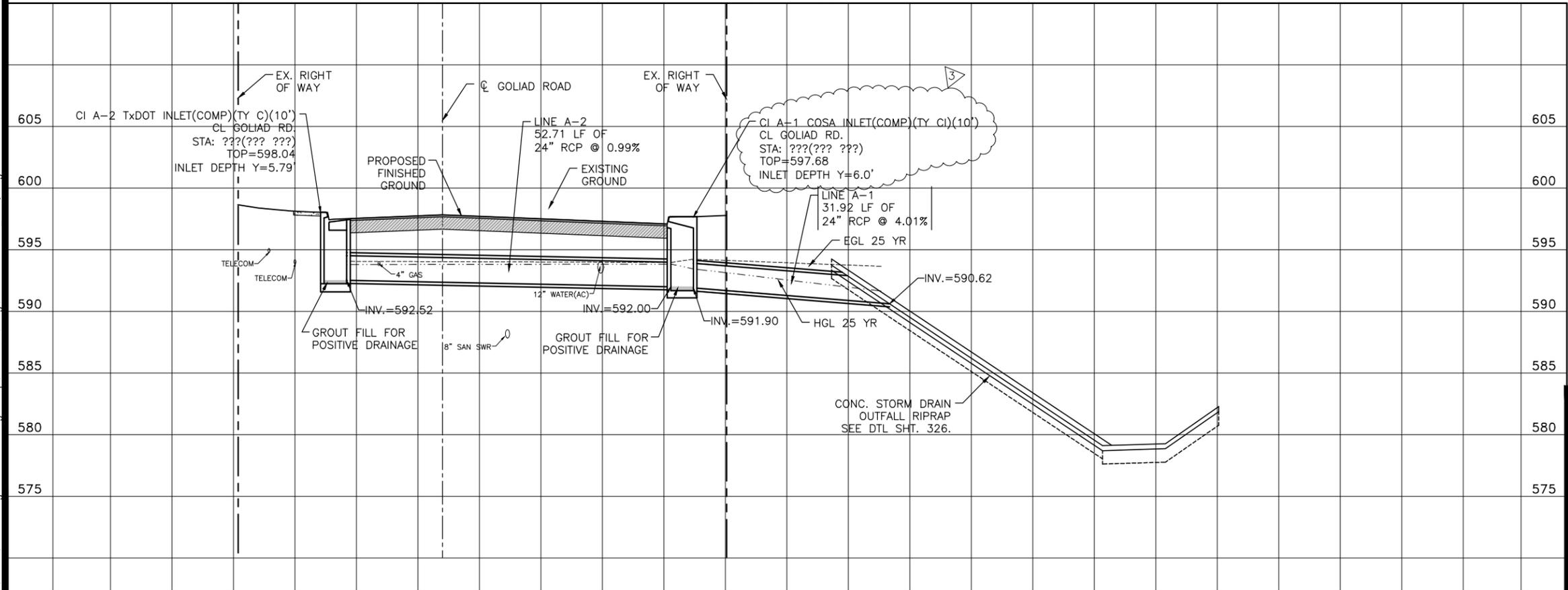
REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CORRECTED INLET TOP ELEV.



LEGEND

- WATER METER
 - WATER VALVE
 - FIRE HYDRANT
 - TELEPHONE RISER
 - POWER POLE
 - POWER POLE W/ TRANSFORMER
 - GUY WIRE
 - SANITARY SEWER MANHOLE
 - MAIL BOX
 - SIGN
-
- FIBER OPTIC TELEPHONE CABLE
 - OVERHEAD ELECTRIC
 - SANITARY SEWER MAIN
 - WATER MAIN (8"AC)
 - GAS PIPELINE
 - CHAIN LINK FENCE
 - WROUGHT IRON FENCE
 - WIRE FENCE
 - WOODEN FENCE
 - EXISTING RIGHT OF WAY
 - PROPOSED RIGHT OF WAY

LINE "A"



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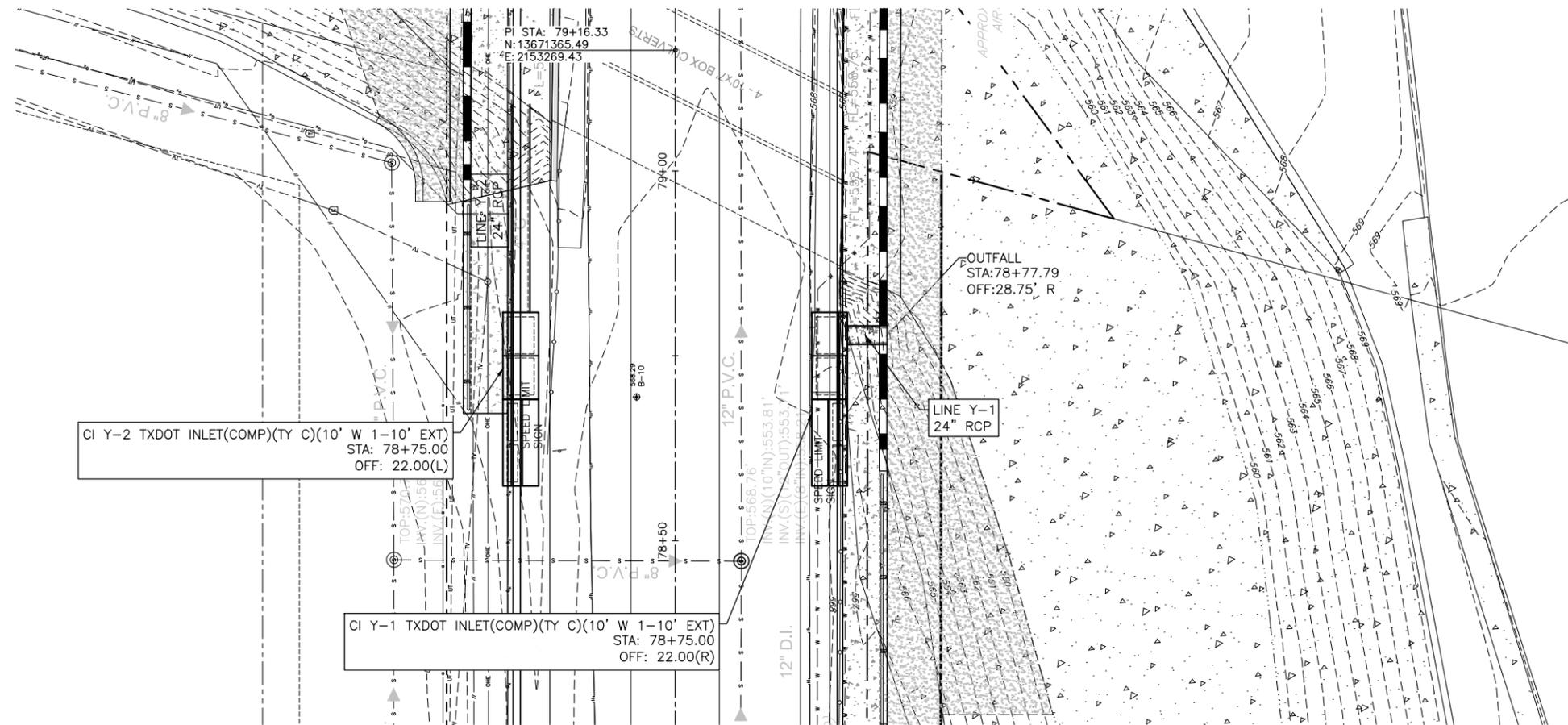
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

GOLIAD ROAD
STORM DRAIN PLAN
AND PROFILE
STORM DRAIN LINE "A"

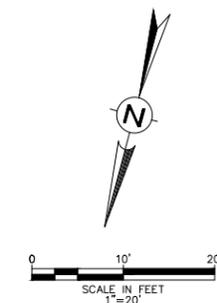
100% SUBMITTAL	PROJECT NO.:	DATE: 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

SHEET NO. 277 OF 510

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REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CORRECTED INLET TOP ELEV.

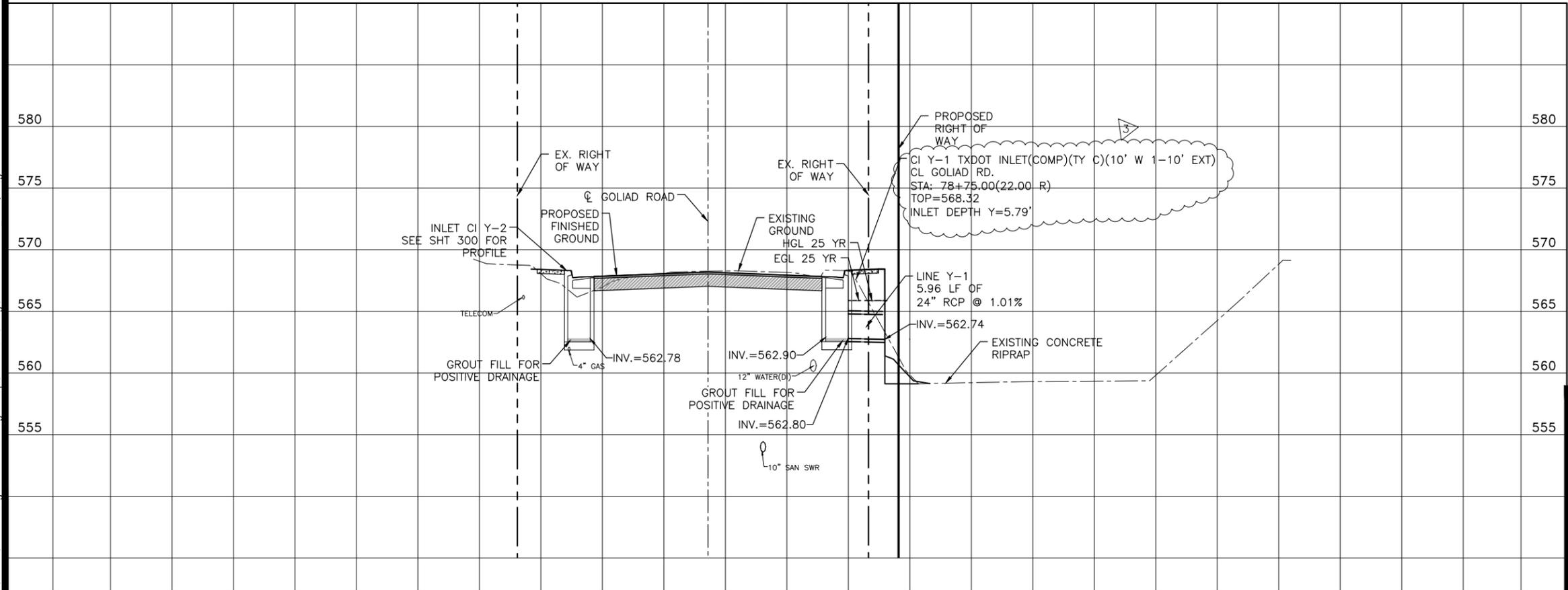


- NOTE:
- PROTECT AND SUPPORT EXISTING UTILITY POLES IN THE VICINITY OF PROPOSED DRAINAGE CONSTRUCTION. BRACING AND/OR OTHER METHODS MAY BE REQUIRED.
 - SEE SAWS PLANS FOR REMOVAL AND DISPOSAL OF A.C. PIPE.

- LEGEND
- ⊗ WATER METER
 - ⊕ WATER VALVE
 - ⊙ FIRE HYDRANT
 - ⊕ TELEPHONE RISER
 - ⊙ POWER POLE
 - ⊕ POWER POLE W/ TRANSFORMER
 - ⊕ GUY WIRE
 - ⊕ SANITARY SEWER MANHOLE
 - ⊕ MAIL BOX
 - ⊕ SIGN

- FIBER OPTIC TELEPHONE CABLE
- OVERHEAD ELECTRIC
- SANITARY SEWER MAIN
- WATER MAIN (8"AC)
- GAS PIPELINE
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- WIRE FENCE
- WOODEN FENCE
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY

LINE "Y-1"



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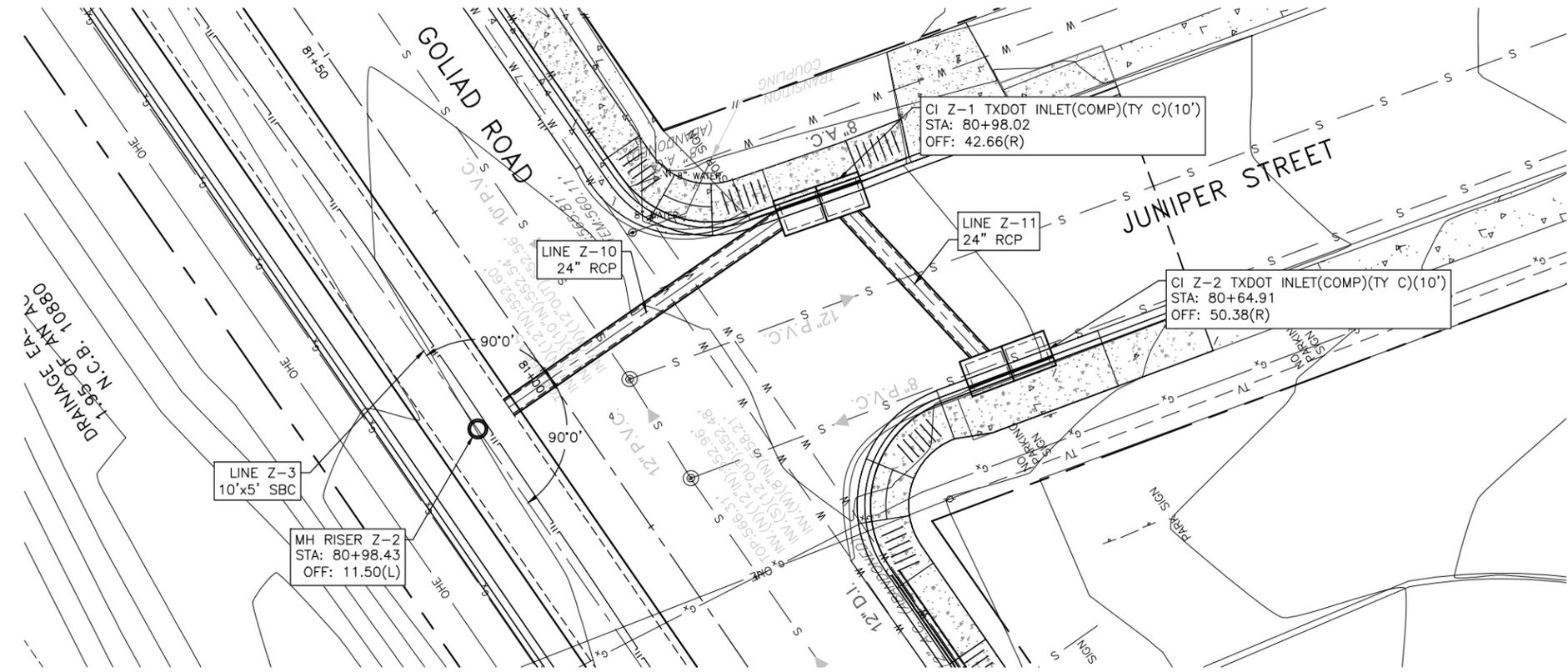
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

GOLIAD ROAD
**STORM DRAIN PLAN
AND PROFILE**
STORM DRAIN LINE "Y"

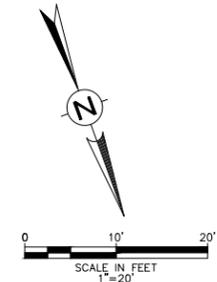
100% SUBMITTAL PROJECT NO.: DATE: 07/01/2013
DRWN. BY: CDSm DSGN. BY: CDSm CHKD. BY: CDSm SHEET NO. 299 OF 510

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- NOTE:
1. PROTECT AND SUPPORT EXISTING UTILITY POLES IN THE VICINITY OF PROPOSED DRAINAGE CONSTRUCTION. BRACING AND/OR OTHER METHODS MAY BE REQUIRED.
 2. SEE SAWS PLANS FOR REMOVAL AND DISPOSAL OF A.C. PIPE.



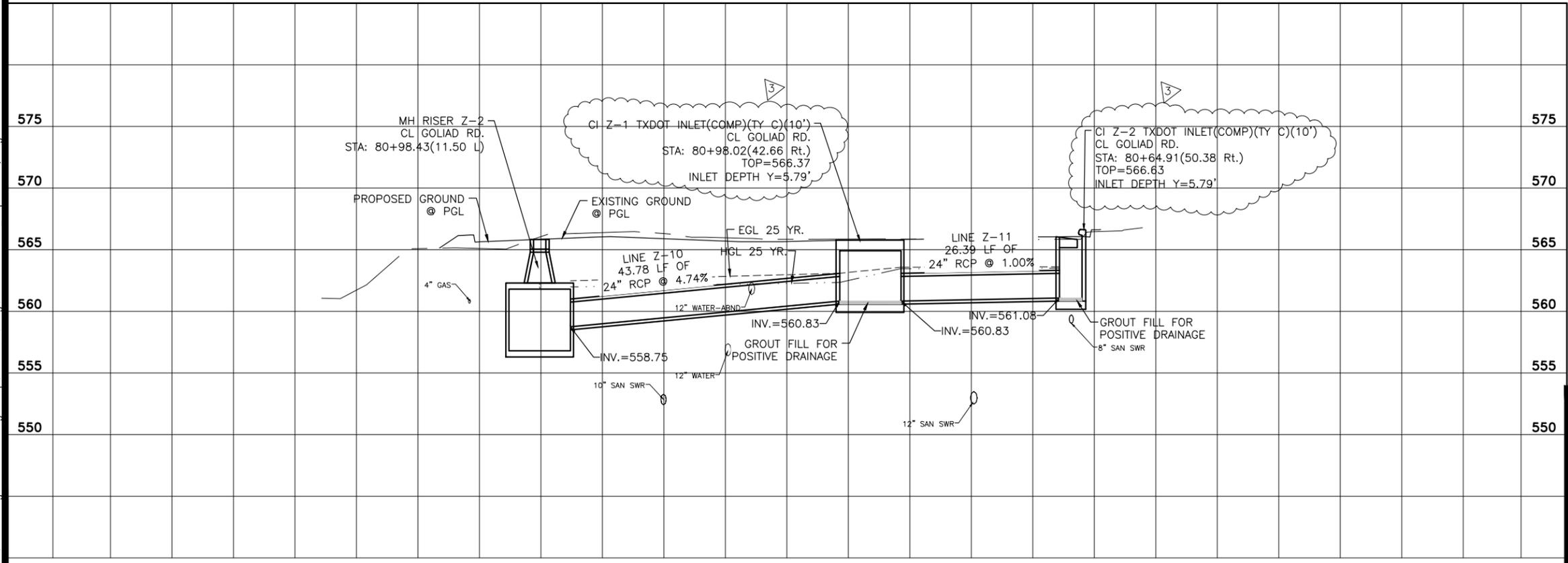
REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CORRECTED INLET TOP ELEV.



- LEGEND
- ⊙ WATER METER
 - ⊕ WATER VALVE
 - ⊗ FIRE HYDRANT
 - ⊕ TELEPHONE RISER
 - ⊕ POWER POLE
 - ⊕ POWER POLE W/ TRANSFORMER
 - ⊕ GUY WIRE
 - ⊕ SANITARY SEWER MANHOLE
 - ⊕ MAIL BOX
 - ⊕ SIGN
-
- UT --- FIBER OPTIC TELEPHONE CABLE
 - S --- OVERHEAD ELECTRIC
 - S --- SANITARY SEWER MAIN
 - W --- WATER MAIN (8" AC)
 - G_x --- GAS PIPELINE
 - ◊ --- CHAIN LINK FENCE
 - ◻ --- WROUGHT IRON FENCE
 - ○ --- WIRE FENCE
 - // --- WOODEN FENCE
 - --- EXISTING RIGHT OF WAY
 - --- PROPOSED RIGHT OF WAY

- LEGEND:
- EXISTING GROUND AT CENTERLINE
 - EX. GROUND @ PROP ROW RT
 - EX. GROUND @ PROP ROW LT
 - PROPOSED GROUND AT CENTERLINE

LINE "Z"



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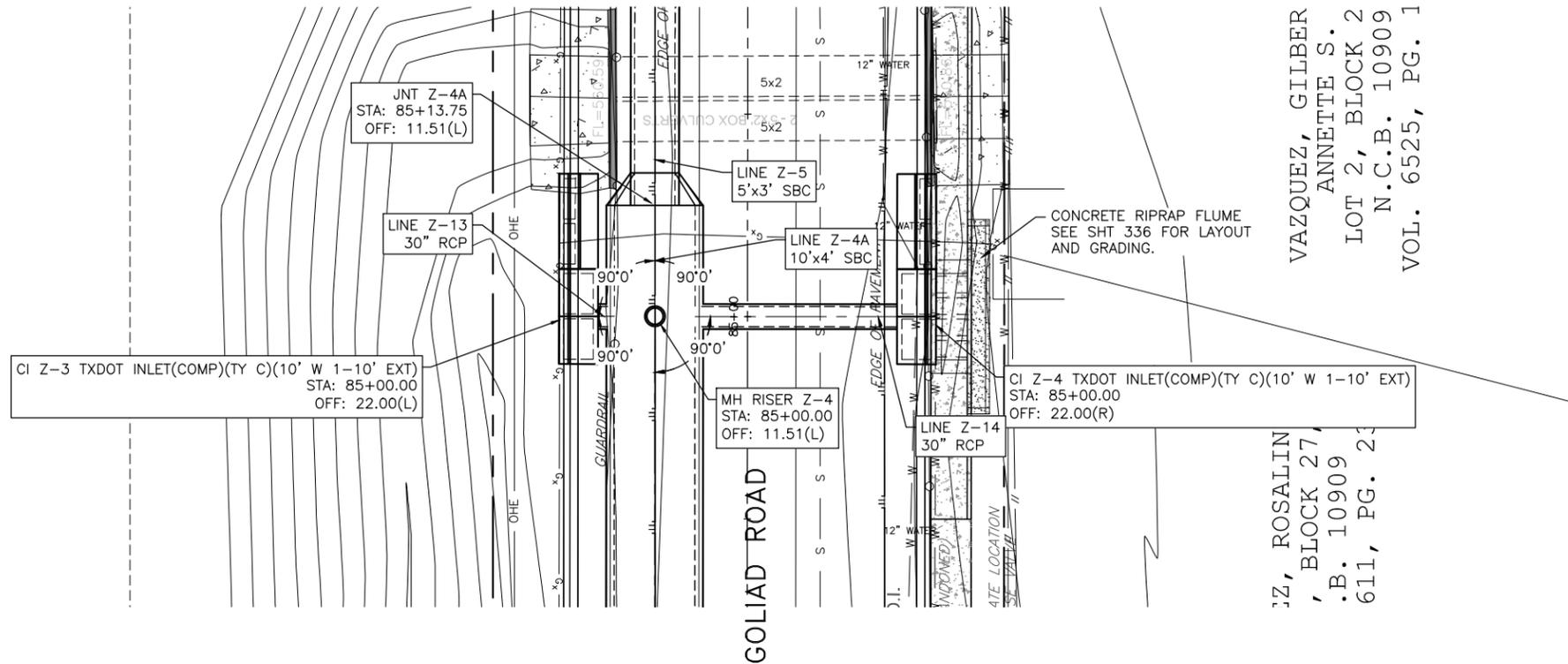
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

GOLIAD ROAD
STORM DRAIN PLAN
AND PROFILE
STORM DRAIN LINE "Z"

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NOTE:

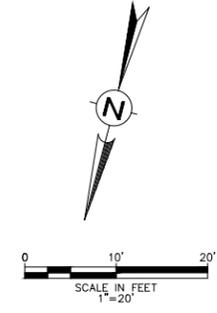
1. PROTECT AND SUPPORT EXISTING UTILITY POLES IN THE VICINITY OF PROPOSED DRAINAGE CONSTRUCTION. BRACING AND/OR OTHER METHODS MAY BE REQUIRED.
2. SEE SAWS PLANS FOR REMOVAL AND DISPOSAL OF A.C. PIPE.



VAZQUEZ, GILBER
ANNETTE S.
LOT 2, BLOCK 2
N.C.B. 10909
VOL. 6525, PG. 1

IZ, ROSALIN
, BLOCK 27
.B. 10909
611, PG. 2

REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CORRECTED INLET TOP ELEV.



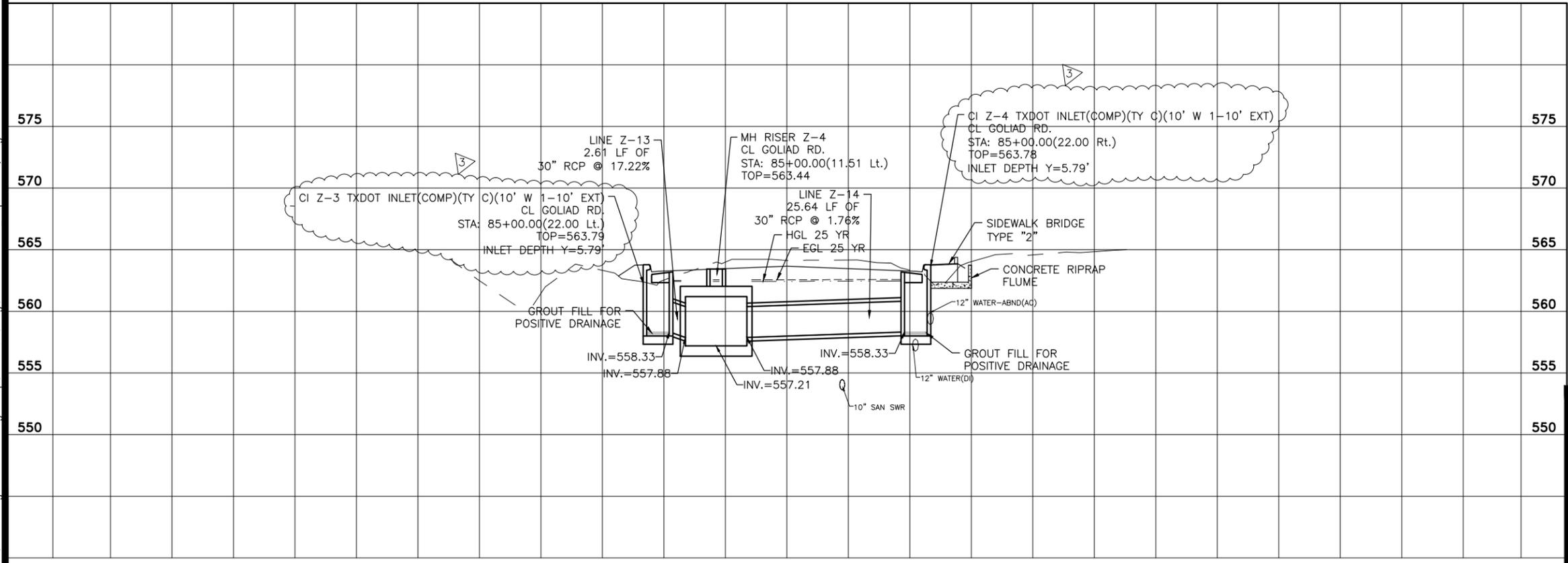
LEGEND:
 --- EXISTING GROUND AT CENTERLINE
 --- EX. GROUND @ PROP ROW RT
 --- EX. GROUND @ PROP ROW LT
 --- PROPOSED GROUND AT CENTERLINE

LEGEND

- ⊙ WATER METER
- ⊕ WATER VALVE
- ⊗ FIRE HYDRANT
- ⊙ TELEPHONE RISER
- ⊙ POWER POLE
- ⊙ POWER POLE W/ TRANSFORMER
- ⊙ GUY WIRE
- ⊙ SANITARY SEWER MANHOLE
- ↑ MAIL BOX
- ↑ SIGN
- UT --- FIBER OPTIC TELEPHONE CABLE
- S --- OVERHEAD ELECTRIC
- S --- SANITARY SEWER MAIN
- W --- WATER MAIN (8"AC)
- G_x --- GAS PIPELINE
- ⊠ CHAIN LINK FENCE
- ⊠ WROUGHT IRON FENCE
- ⊠ WIRE FENCE
- /// WOODEN FENCE
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY

SCALE
HORZ.: 1"=20'
VERT.: 1"=10'

LINE "Z"



CDS Muery F-1733



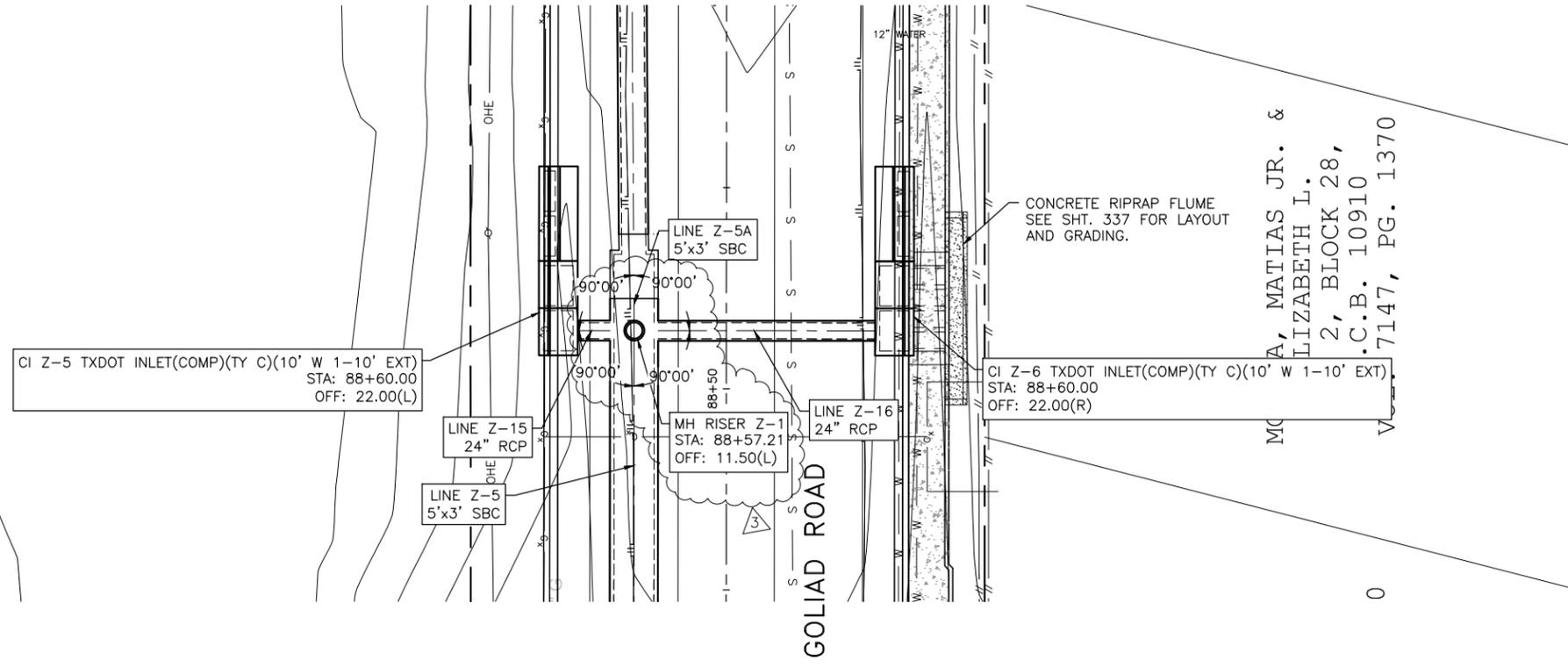
CDS muery
ENGINEERS • SURVEYORS

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
GOLIAD ROAD
STORM DRAIN PLAN
AND PROFILE
STORM DRAIN LINE "Z"

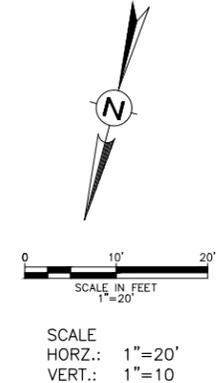
100% SUBMITTAL	PROJECT NO.:	DATE: 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

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- NOTE:
1. PROTECT AND SUPPORT EXISTING UTILITY POLES IN THE VICINITY OF PROPOSED DRAINAGE CONSTRUCTION. BRACING AND/OR OTHER METHODS MAY BE REQUIRED.
 2. SEE SAWS PLANS FOR REMOVAL AND DISPOSAL OF A.C. PIPE.



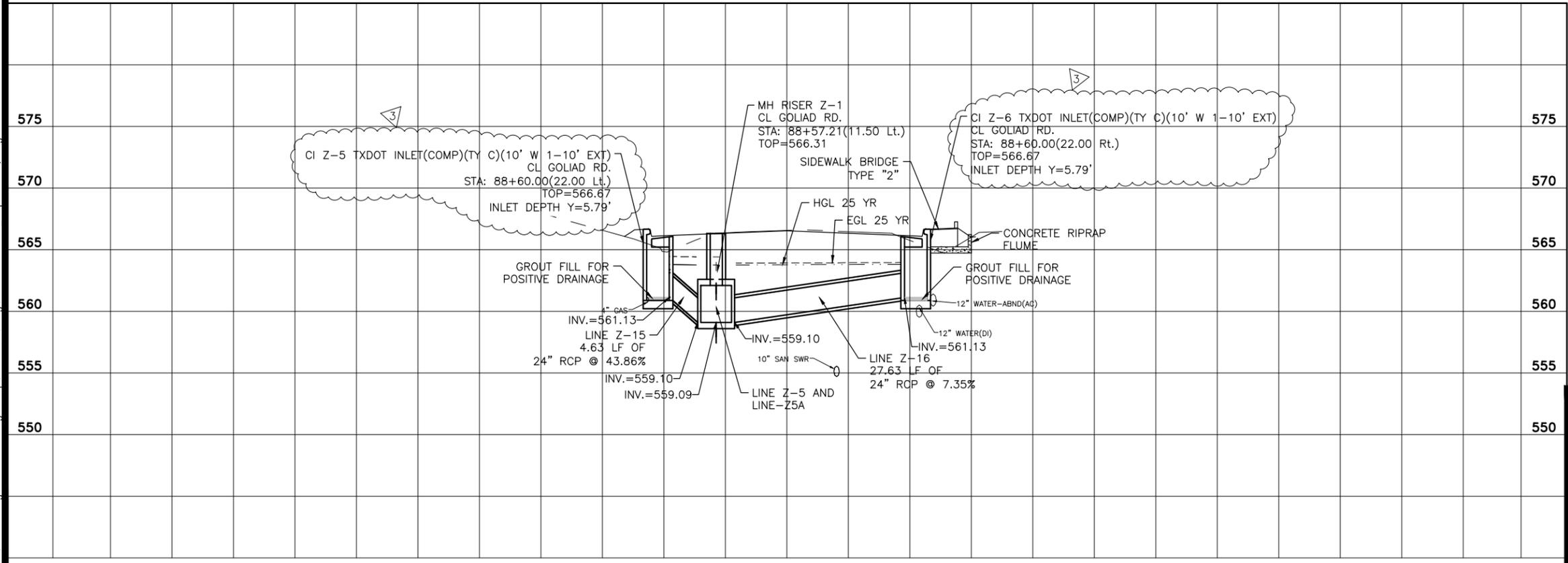
REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CORRECTED INLET TOP ELEV. AND REMOVED JUNCTION BOX



- LEGEND:
- EXISTING GROUND AT CENTERLINE
 - EX. GROUND @ PROP ROW RT
 - EX. GROUND @ PROP ROW LT
 - PROPOSED GROUND AT CENTERLINE

- LEGEND
- Water Meter
 - Water Valve
 - Fire Hydrant
 - Telephone Riser
 - Power Pole
 - Power Pole W/ Transformer
 - Guy Wire
 - Sanitary Sewer Manhole
 - Mail Box
 - Sign
 - Fiber Optic Telephone Cable
 - Overhead Electric
 - Sanitary Sewer Main
 - Water Main (8" AC)
 - Gas Pipeline
 - Chain Link Fence
 - Wrought Iron Fence
 - Wire Fence
 - Wooden Fence
 - Existing Right of Way
 - Proposed Right of Way

LINE "Z"

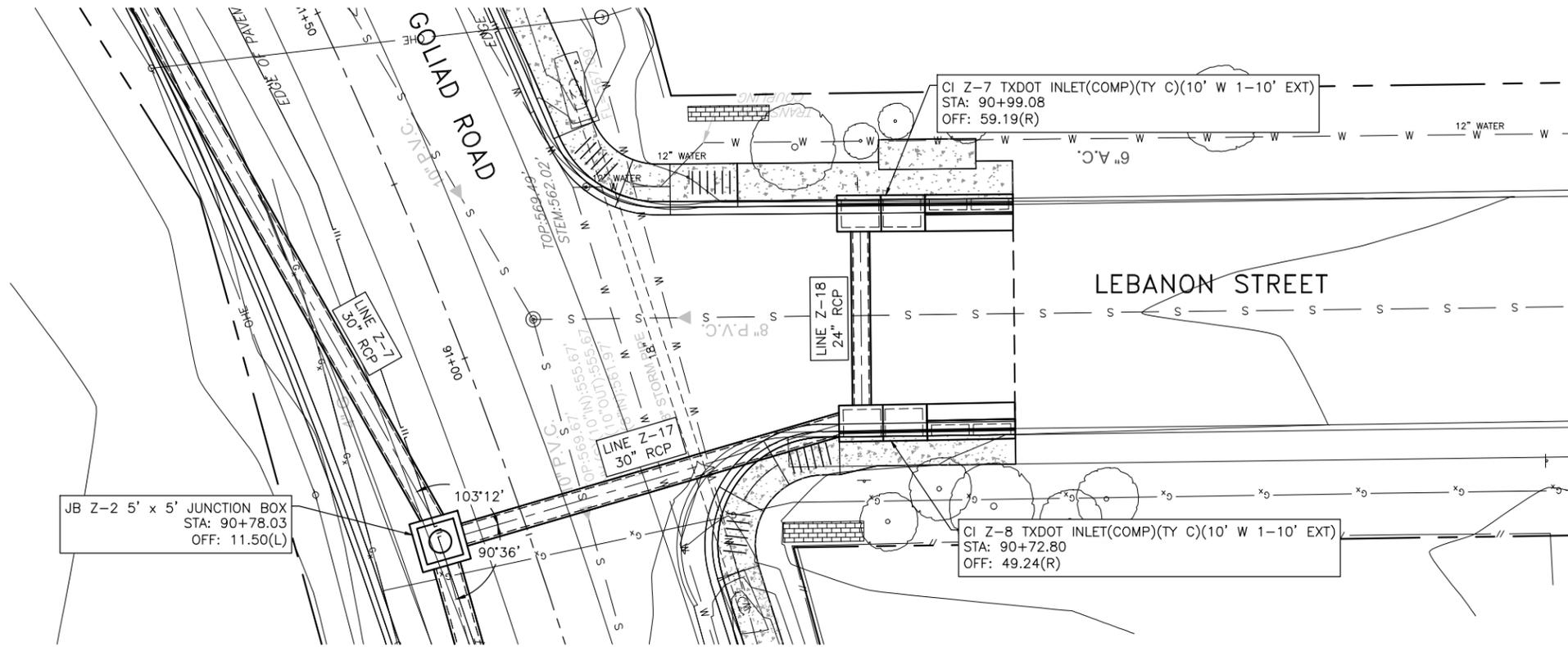


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 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 GOLIAD ROAD
 STORM DRAIN PLAN
 AND PROFILE
 STORM DRAIN LINE "Z"

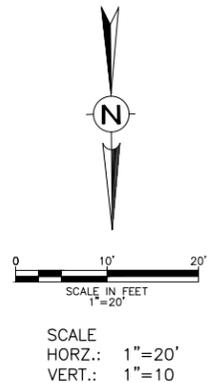
100% SUBMITTAL	PROJECT NO.:	DATE: 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm
		SHEET NO. 323 OF 510

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- NOTE:
1. PROTECT AND SUPPORT EXISTING UTILITY POLES IN THE VICINITY OF PROPOSED DRAINAGE CONSTRUCTION. BRACING AND/OR OTHER METHODS MAY BE REQUIRED.
 2. SEE SAWS PLANS FOR REMOVAL AND DISPOSAL OF A.C. PIPE.



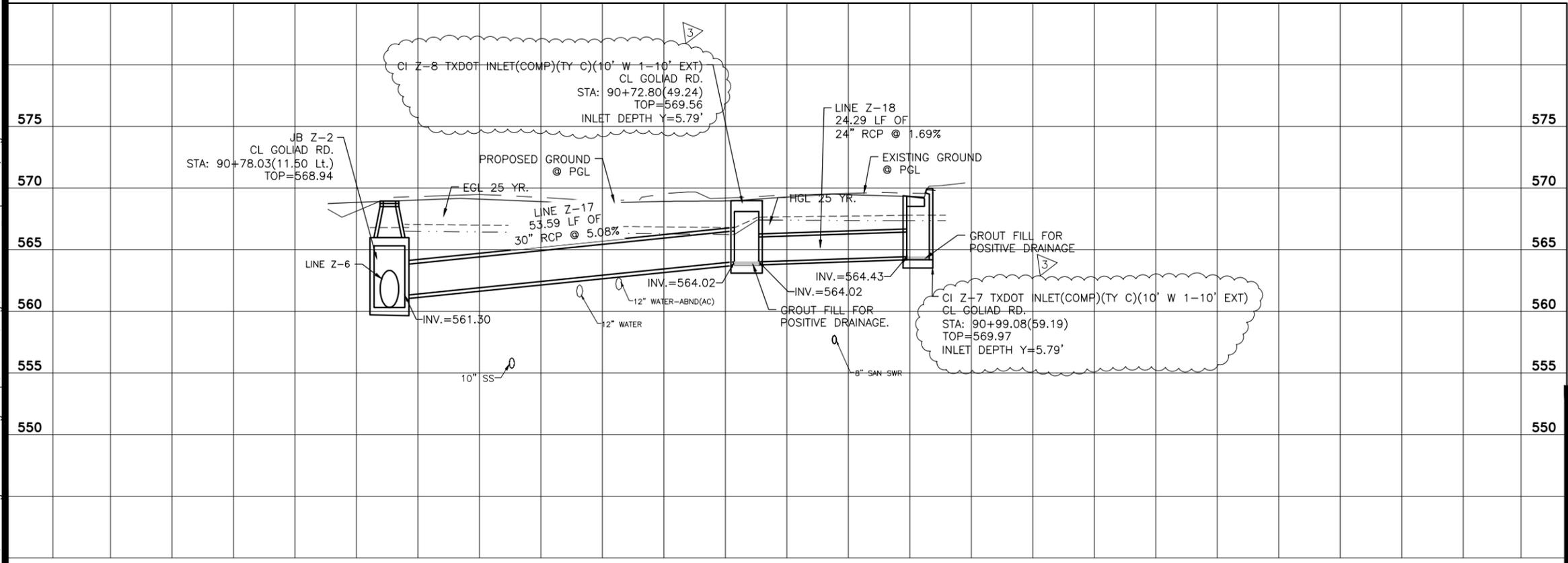
REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CORRECTED INLET TOP ELEV.



- LEGEND
- ⊙ WATER METER
 - ⊕ WATER VALVE
 - ⊕ FIRE HYDRANT
 - ⊕ TELEPHONE RISER
 - ⊕ POWER POLE
 - ⊕ POWER POLE W/ TRANSFORMER
 - ⊕ GUY WIRE
 - ⊕ SANITARY SEWER MANHOLE
 - ⊕ MAIL BOX
 - ⊕ SIGN

- LEGEND:
- EXISTING GROUND AT CENTERLINE
 - - - EX. GROUND @ PROP ROW RT
 - - - EX. GROUND @ PROP ROW LT
 - PROPOSED GROUND AT CENTERLINE

LINE "Z"



- UT — FIBER OPTIC TELEPHONE CABLE
- S — OVERHEAD ELECTRIC
- S — SANITARY SEWER MAIN
- W — WATER MAIN (8"AC)
- G_x — GAS PIPELINE
- ⊕ CHAIN LINK FENCE
- ⊕ WROUGHT IRON FENCE
- ⊕ WIRE FENCE
- ⊕ WOODEN FENCE
- — — EXISTING RIGHT OF WAY
- — — PROPOSED RIGHT OF WAY

CDS Muery F-1733

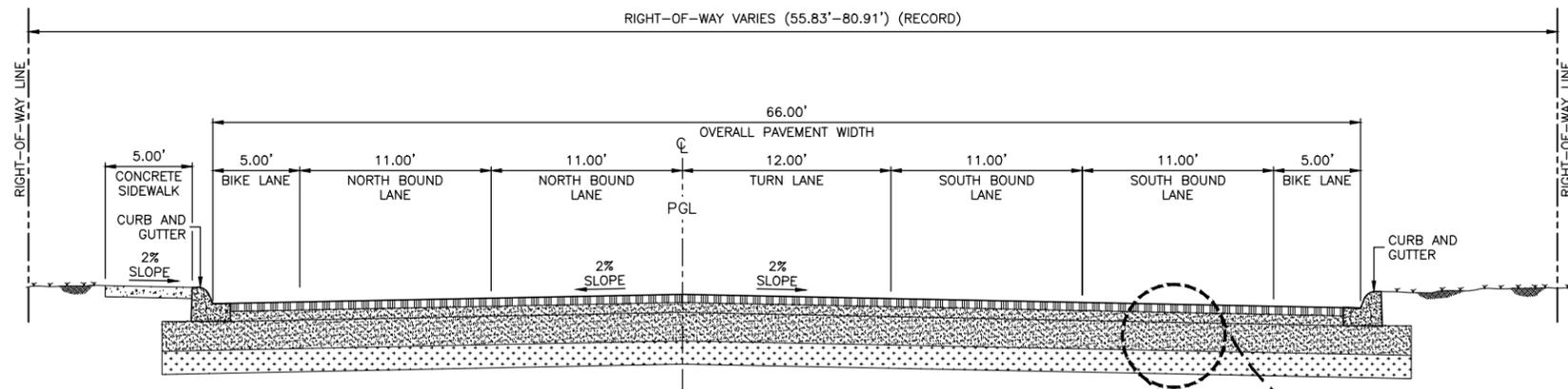


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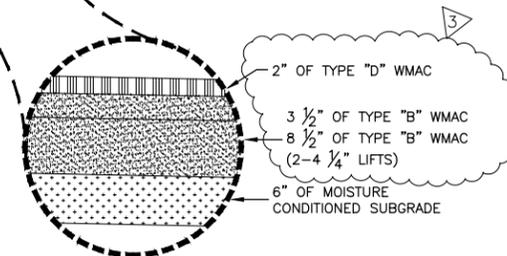
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
GOLIAD ROAD
STORM DRAIN PLAN
AND PROFILE
STORM DRAIN LINE "Z"

100% SUBMITTAL	PROJECT NO.:	DATE: 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

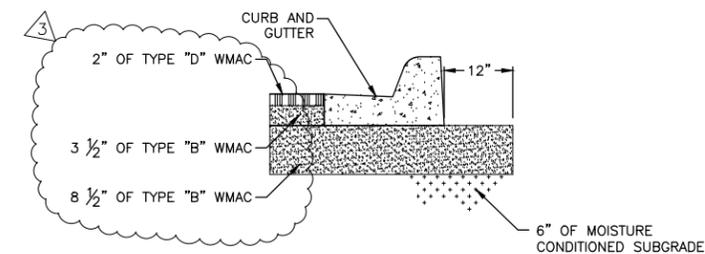
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PROPOSED TYPICAL SECTION
 (66' WIDTH - 5' SIDEWALK LT.)
 STA. 2+87.74 TO STA. 4+57.73
 N.T.S.



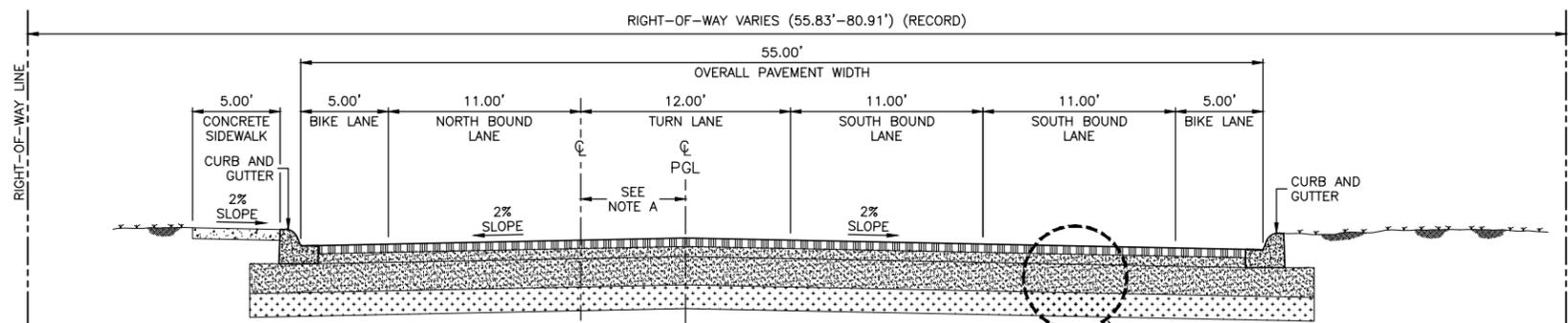
TYPICAL PAVEMENT SECTION
 N.T.S.



TYPICAL PAVEMENT END SECTION W/ CURB AND GUTTER DETAIL
 N.T.S.

NOTE:

- STA.: 8+02.86 TO STA.: 8+98.19
 =MALL ENTRANCE INTERSECTION
 (TYPICAL PAVEMENT SECTION DOES NOT APPLY)
- STA.: 22+88.13 TO STA.: 26+50.00
 =CITY BASE LANDING INTERSECTION
 (TYPICAL PAVEMENT SECTION DOES NOT APPLY)
- STA.: 63+04.17 TO STA.: 64+32.21
 =LYSTER ROAD INTERSECTION
 (TYPICAL PAVEMENT SECTION DOES NOT APPLY)

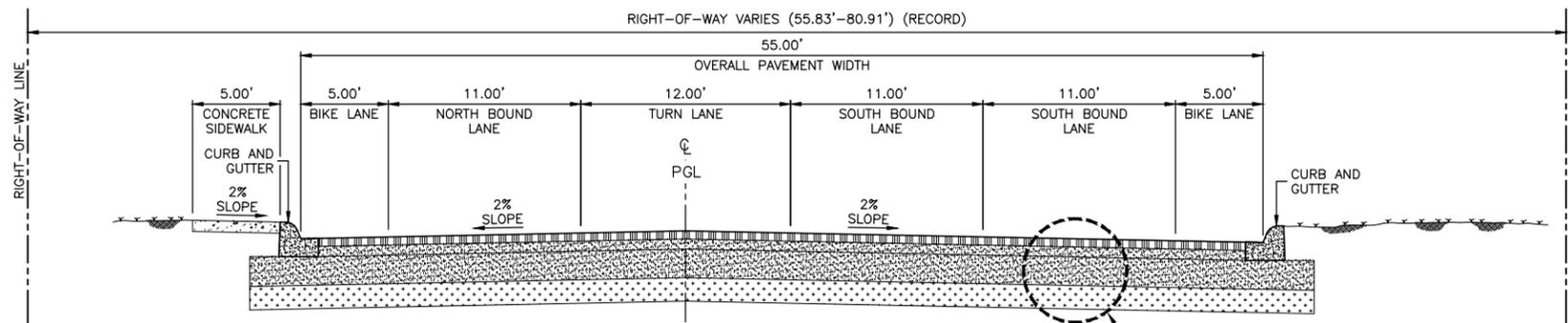


PROPOSED TYPICAL SECTION
 (55' WIDTH - 5' SIDEWALK LT.)
 STA. 4+57.73 TO STA. 5+77.73
 N.T.S.

NOTE "A"
 ROADWAY TRANSITIONS FROM 16' TO 22'
 FROM THE CENTERLINE.

SEE TYPICAL PAVEMENT SECTION THIS SHEET

REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CHANGED HMA TO WMAC



PROPOSED TYPICAL SECTION
 (55' WIDTH - 5' SIDEWALK LT.)
 STA. 5+77.73 TO STA. 8+02.86
 N.T.S.

SEE TYPICAL PAVEMENT SECTION THIS SHEET

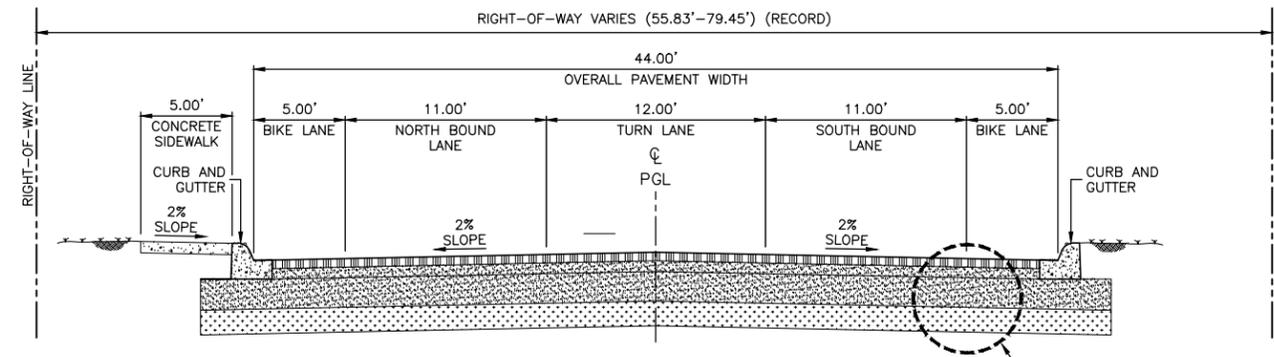
CDS Muery F-1733



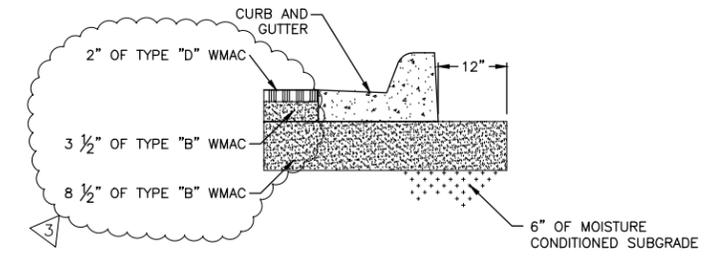
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CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 GOLIAD ROAD
PROPOSED TYPICAL SECTIONS

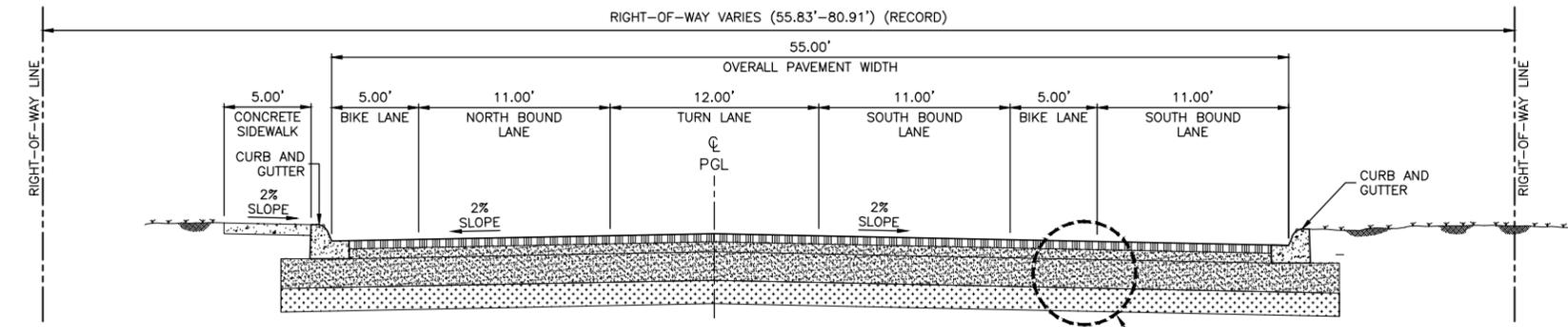
100% SUBMITTAL	PROJECT NO.:	DATE 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm



PROPOSED TYPICAL SECTION
 (44' WIDTH - 5' SIDEWALK LT.)
 STA. 8+98.19 TO STA. 22+88.13
 STA. 26+50.02 TO STA. 60+79.17
 N.T.S.



TYPICAL PAVEMENT END SECTION W/ CURB AND GUTTER DETAIL
 N.T.S.

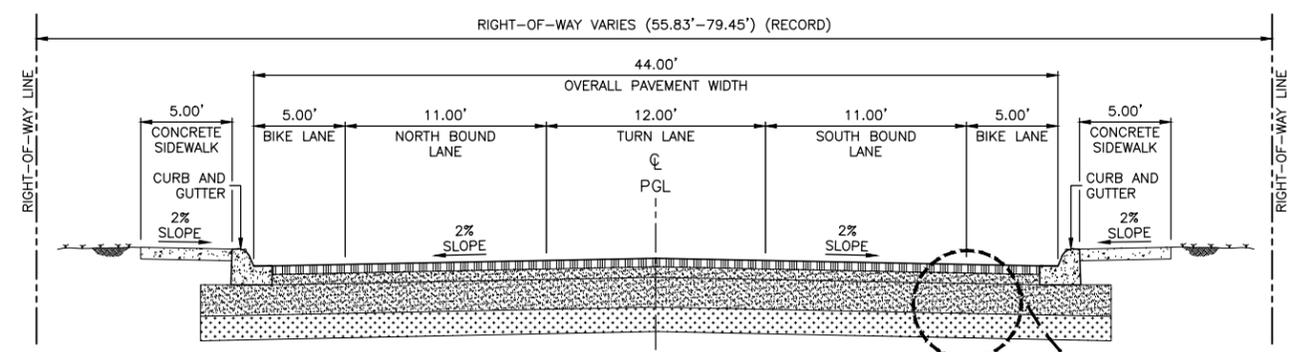


PROPOSED TYPICAL SECTION
 (50' WIDTH - 5' SIDEWALK LT.)
 STA. 22+88.13 TO STA. 25+37.51
 STA. 60+79.17 TO STA. 63+04.17
 N.T.S.

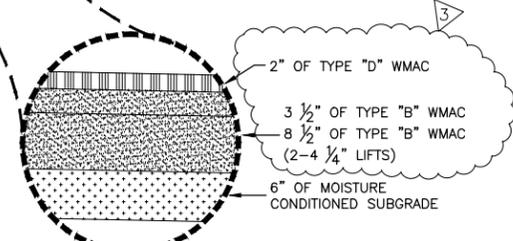
NOTE:

- STA.: 8+02.86 TO STA.: 8+98.19
 =MALL ENTRANCE INTERSECTION
 (TYPICAL PAVEMENT SECTION DOES NOT APPLY)
- STA.: 22+88.13 TO STA.: 26+50.02
 =CITY BASE LANDING INTERSECTION
 (TYPICAL PAVEMENT SECTION DOES NOT APPLY)
- STA.: 63+04.17 TO STA.: 64+32.21
 =LYSTER ROAD INTERSECTION
 (TYPICAL PAVEMENT SECTION DOES NOT APPLY)

REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CHANGED HMA TO WMAC



PROPOSED TYPICAL SECTION
 (44' WIDTH - 5' SIDEWALK LT. & RT.)
 STA. 64+32.21 TO STA. 72+02.15
 N.T.S.



TYPICAL PAVEMENT SECTION
 N.T.S.

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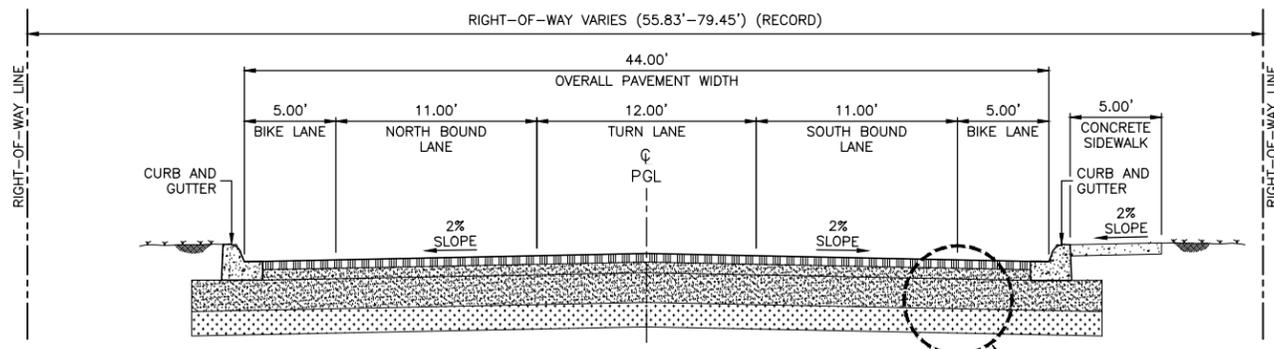
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CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

GOLIAD ROAD
PROPOSED TYPICAL SECTIONS

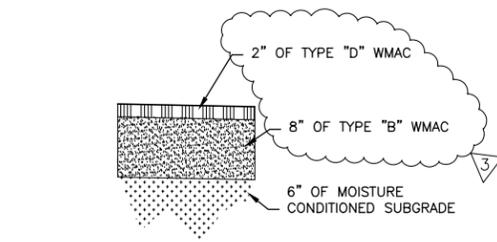
100% SUBMITTAL	PROJECT NO.:	DATE 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

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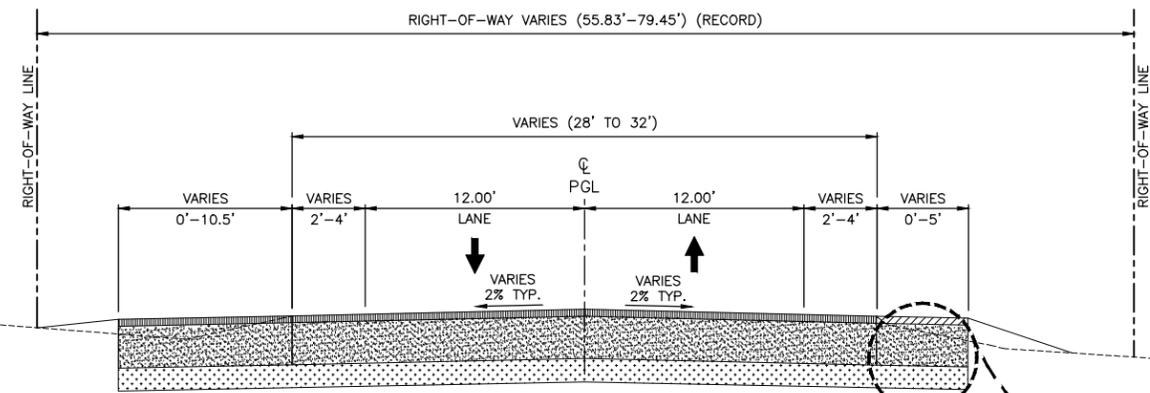


**PROPOSED TYPICAL SECTION
(44' WIDTH - 5' SIDEWALK RT.)**

STA. 72+02.15 TO STA. 75+00.00 (BASE BID)
 STA. 75+00.00 TO STA. 83+00 (ADD ALT 1)
 STA. 83+00.00 TO STA. END (ADD ALT 2)
 N.T.S.

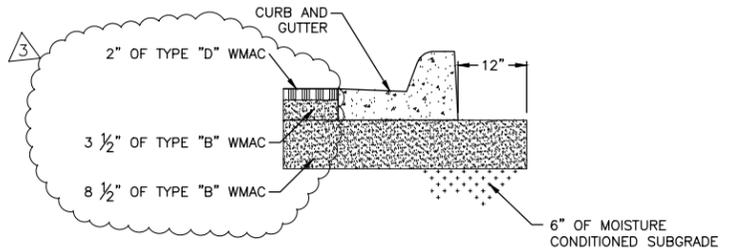


**TYPICAL PAVEMENT END
SECTION W/O CURB AND GUTTER DETAIL**



TYPICAL TAPER SECTION BASE BID

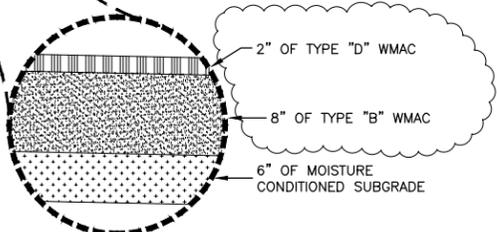
STA. 75+00.00 TO STA. 79+00.00
 N.T.S.



**TYPICAL PAVEMENT END
SECTION W/ CURB AND GUTTER DETAIL**

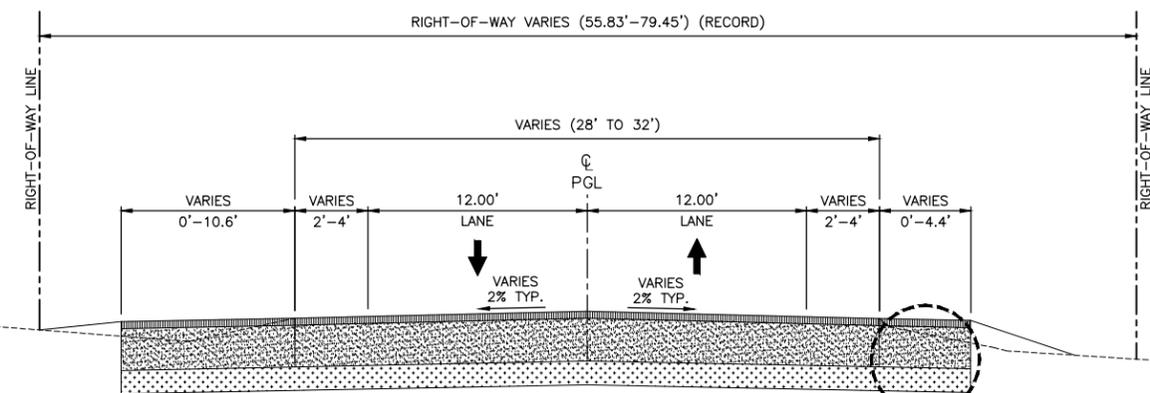
NOTE:

- STA.: 8+02.86 TO STA.: 8+98.19
=MALL ENTRANCE INTERSECTION
(TYPICAL PAVEMENT SECTION DOES NOT APPLY)
- STA.: 22+88.13 TO STA.: 26+50.00
=CITY BASE LANDING INTERSECTION
(TYPICAL PAVEMENT SECTION DOES NOT APPLY)
- STA.: 63+04.17 TO STA.: 64+32.21
=LYSTER ROAD INTERSECTION
(TYPICAL PAVEMENT SECTION DOES NOT APPLY)



TYPICAL PAVEMENT SECTION
N.T.S.

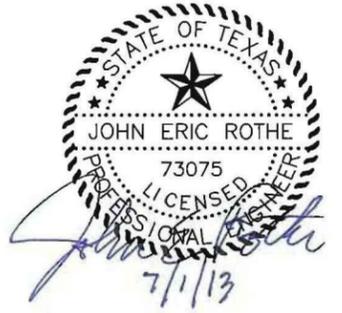
REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CHANGED HMAC TO WMAC



TYPICAL TAPER SECTION BID ALTERNATE NO. 1

STA. 83+00.00 TO STA. 86+25.00
 N.T.S.

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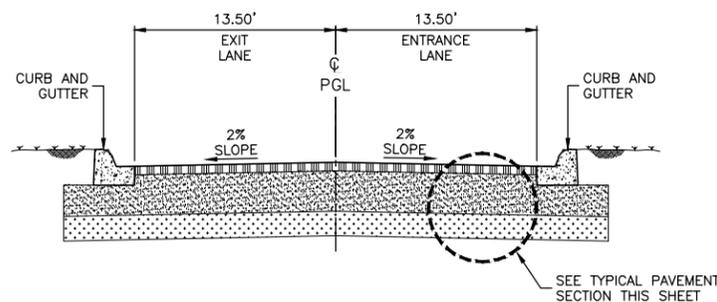
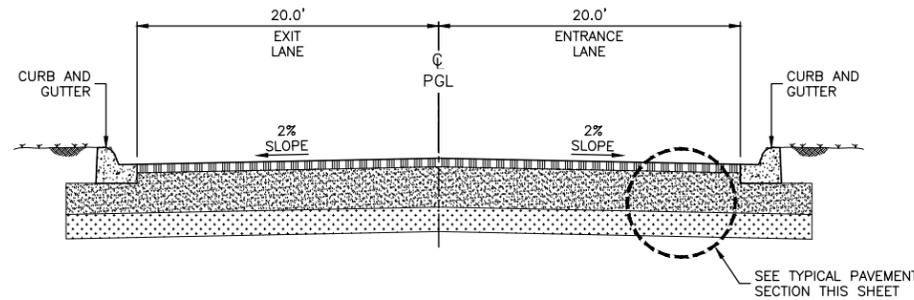
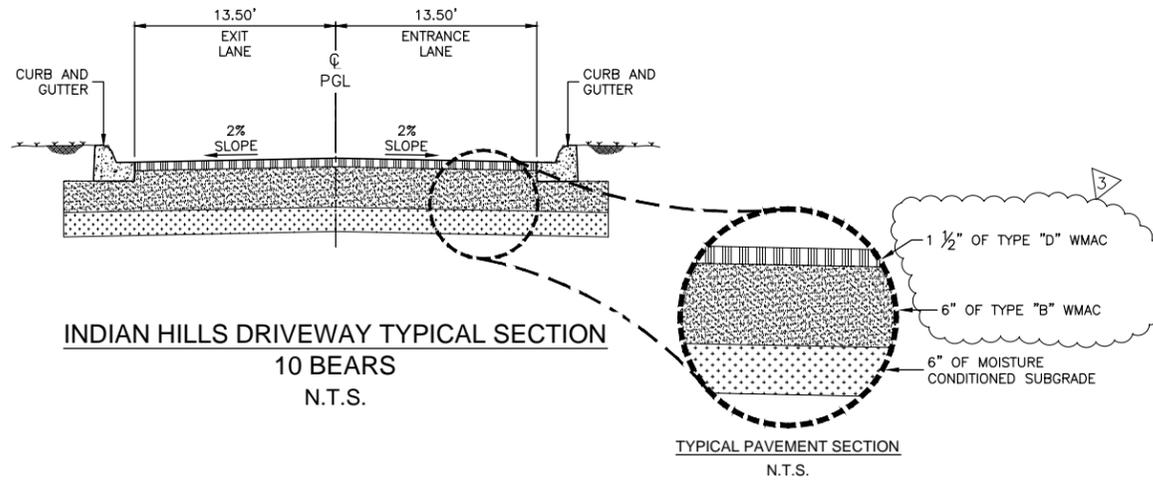
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
GOLIAD ROAD

PROPOSED TYPICAL SECTIONS

100% SUBMITTAL	PROJECT NO.:	DATE 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

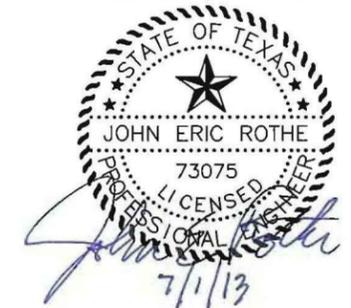
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REVISION		
REVISION NO.	DATE	DESCRIPTION
ADDENDUM 3	2/2/2014	CHANGED HMAC TO WMAC

CDS Muery F-1733



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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
GOLIAD ROAD

PROPOSED TYPICAL SECTIONS

100% SUBMITTAL	PROJECT NO.:	DATE 07/01/2013
DRWN. BY: CDSm	DSGN. BY: CDSm	CHKD. BY: CDSm

SHEET NO. 14 OF 510

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

PROJECT NAME: GOLIAD ROAD (SE MILITARY DRIVE TO LOOP 410)							
PROJECT NO: 40-00244							
COSA BASE BID							
ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	COSA 100.1	MOBILIZATION	LS	1			
	COSA 100.2	INSURANCE AND BOND	LS	1			
	COSA 101.1	PREPARING RIGHT OF WAY	LS	1			
	COSA 103.1	REMOVE CONCRETE CURB	LF	1,888			
	COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAY	SF	15,823			
	COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (RIPRAP HEADWALL)	SF	406			
	COSA 104.1	STREET EXCAVATION	CY	15,208			
	COSA 105.1	CHANNEL EXCAVATION	CY	25			
	COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	18			
	COSA 107.1	EMBANKMENT (FINAL) (DENS CONT) (TY B)	CY	2,284			
	COSA 203.1	TACK COAT	GAL	4,286			
	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" TEMP SIDEWALK (4" COMP DEPTH)	SY	1,420			
	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (3.5" COMP DEPTH)	SY	36,316			
	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (6" COMP DEPTH)	SY	644			
	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8" COMP DEPTH) (TEMP PAVEMENT)	SY	8,941			
	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8.5 COMP DEPTH)	SY	40,721			
	COSA 205.4WM	WARM MIX ASPHALTIC CONCRETE TYPE "D" (1.5" COMP DEPTH)	SY	394			
	COSA 205.4WM	WARM MIX ASPHALTIC CONCRETE TYPE "D" (2" COMP DEPTH)	SY	37,967			
	COSA 209.1	CONCRETE PAVEMENT (10" DEEP) (BUS PAD)	SY	367			
	COSA 306.1	STRUCTURAL EXCAVATION	CY	765			
	COSA 307.1	CONCRETE STRUCTURE (CONCRETE CAP) (STA 12+36)	CY	1			
	COSA 308.1	DRILLED SHAFTS (24")	LF	34			
	COSA 308.1	DRILLED SHAFTS (30")	LF	57			
	COSA 308.1	DRILLED SHAFTS (36")	LF	53			
	COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (4 FT X 4 FT)	LF	72			
	COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (6 FT X 3 FT)	LF	4			
	COSA 401.1	RC PIPE (CLASS III) (24")	LF	1,064			
	COSA 401.1	RC PIPE (CLASS III) (30")	LF	77			
	COSA 403.12	SPECIAL INLETS (COMPL) (TYPE R)	EA	2			
	COSA 403.7	INLET TYPE CI (COMPLETE) (10 FT) (6 FT DEPTH)	EA	4			
	COSA 407.4	CONCRETE COLLARS	CY	5			
	COSA 410.2	GRAVEL SUBGRADE FILLER	CY	283			
	COSA 500.1	CONCRETE CURB	LF	182			
	COSA 500.4	CONCRETE CURB AND GUTTER	LF	14,200			

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	COSA 502.1	CONCRETE SIDEWALKS	SY	4,296			
	COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	594			
	COSA 504.1	CONCRETE MEDIAN	SY	96			
	COSA 505.1	CONCRETE RIPRAP (5" THICK)	SY	957			
	COSA 505.1	CONCRETE FLUME (6" RIPRAP)	SY	46			
	COSA 505.1	VIA BUS PAD CONCRETE RIPRAP (6" THICK)	SY	22			
	COSA 506.1	CONCRETE RETAINING WALL TYPE "E"	CY	108			
	COSA 506.1	CONCRETE RETAINING WALL TYPE "SA-1"	CY	17			
	COSA 512.1	ADJUSTING EXISTING MANHOLE	EA	2			
	COSA 515.1	TOPSOIL	CY	1,584			
	COSA 516.1	BERMUDA SODDING	SY	9,350			
	COSA 516.2	ST. AUGUSTINE SODDING	SY	104			
	COSA 520.1	HYDROMULCHING (RESIDENTIAL OR COMMERCIAL)	SY	4,722			
	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY 1) (INSTALL)	LF	4,460			
	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY 1) (RELOCATE)	LF	4,460			
	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY 2) (INSTALL)	LF	240			
	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY 2) (RELOCATE)	LF	240			
	COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			
	COSA 531.11	R3-5 LEFT OR RIGHT ONLY (30"X36") (HIGH DENSITY)	EA	2			
	COSA 531.13	R3-7 LEFT LANE MUST TURN LEFT OR RIGHT LANE MUST TURN RIGHT	EA	2			
	COSA 531.16	R3-9 TWO WAY LEFT TURN ONLY (30" X 36") (HIGH DENSITY)	EA	2			
	COSA 531.3	R-1- STOP (30") (HIGH DENSITY)	EA	3			
	COSA 531.34	S1-1 ADVANCE SCHOOL CROSSING AND SCHOOL CROSSING (36" X 36")	EA	4			
	COSA 531.43	W1-7 LARGE ARROW (48" X 24") (HIGH DENSITY)	EA	1			
	COSA 531.37	10 INCH (229 mm) STREET NAME, BLOCK NUMBER (VARIES X 10")(HIGH DENSITY) (2 PLATES PER STREET)	EA	3			
	COSA 531.59	SPECIAL SIGN "END SCHOOL ZONE" (24' X 10") (HIGH DENSITY)	EA	2			
	COSA 531.6	R2-1 SPEED LIMIT (24" X 30") (HIGH DENSITY)	EA	5			
	COSA 531.65	S4-3A SCHOOL ZONE ARROWS (34" X 16") (HIGH DENSITY)	EA	2			
	COSA 531.68	R3-17 (BIKE LANE) (30" X 24") (HIGH DENSITY)	EA	9			
	COSA 531.69	R3-17A (AHEAD) (30" X 12") (HIGH DENSITY)	EA	3			
	COSA 531.7	R3-17B (ENDS) (30" X 12") (HIGH DENSITY)	EA	1			
	COSA 531.71	R4-4 (BEGIN RIGHT TURN LANE YIELD TO BIKES) (36" X 30") (HIGH DENSITY)	EA	2			
	COSA 531.76	R3-9cP (BEGIN) (24" X 8")	EA	1			
	COSA 531.XX	R3-8LLK LANE-USE CONTROL (48" X 30") (HIGH DENSITY)	EA	2			
	COSA 531.XX	R3-9cP (END) (24" X 8")	EA	1			
	COSA 531.XX	R3-5hTP "400 FT" PLAQUE (30" X 8") (HIGH DENSITY)	EA	1			

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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	COSA 531.XX	S7-IT "CELL PHONE USE PROHIBITED" SIGN (24" X ____) (HIGH DENSITY)	EA	2			
	COSA 535.1	4 INCH WIDE YELLOW LINE	LF	14,040			
	COSA 535.1	COMBINATION THRU / RIGHT WHITE ARROW	EA	3			
	COSA 535.12	WORD "ONLY"	EA	3			
	COSA 535.13	STRAIGHT WHITE ARROW	EA	2			
	COSA 535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	14			
	COSA 535.17	BICYCLE RIDER SYMBOL	EA	15			
	COSA 535.2	4 INCH WIDE WHITE LINE	LF	10			
	COSA 535.3	8 INCH WIDE YELLOW LINE	LF	210			
	COSA 535.4	8 INCH WIDE WHITELINE	LF	14,892			
	COSA 535.4	8 INCH WIDE WHITELINE (BRKN)	LF	156			
	COSA 535.7	24 INCH WIDE WHITE LINE	LF	368			
	COSA 535.7	24 INCH WIDE YELLOW LINE	LF	368			
	COSA 535.8	RIGHT WHITE ARROW	EA	12			
	COSA 535.9	LEFT WHITE ARROW	EA	54			
	COSA 536.1	4 INCH WIDE YELLOW LINE (TEMPORARY)	LF	31,116			
	COSA 536.2	4 INCH WIDE WHITE LINE (TEMPORARY)	LF	865			
	COSA 537.6	TRAFFIC BUTTON (TYPE 1-C)	EA	92			
	COSA 537.8	TRAFFIC BUTTON (TYPE 11-AA)	EA	436			
	COSA 540.1	ROCK FILTER DAMS (INSTALL / REMOVE) (TYPE 2)	LF	55			
	COSA 540.10	CURB INLET GRAVEL FILTERS	LF	979			
	COSA 540.6	CONSTRUCTION EXITS (INSTALL / REMOVE)	SY	1,860			
	COSA 540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	7,495			
	COSA 540.XX	GRAVEL FILTER BAGS	LF	62			
	COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	1,141			
	COSA 552.1	REMOVING / RELOCATING IRRIGATION SYSTEM	LF	150			
	COSA 554.1	EROSION CONTROL MATTING - EROSION CONTROL BLANKET (ECB) (TXDOT CLASS 1, TYPE C)	SY	4,722			
	COSA 615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	2			
	COSA 618.1	CONDUIT TRENCHED 2 INCH PVC (SCHEDULE 40)	LF	240			
	COSA 618.2	CONDUIT TRENCHED 3 INCH PVC (SCHEDULE 40)	LF	2,125			
	COSA 620.1	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	37			
	COSA 620.2	ELECTRICAL CONDUCTORS (NO.8) (BARE)	LF	1,545			
	COSA 620.3	ELECTRICAL CONDUCTORS (NO.6) INSULATED	LF	72			
	COSA 624.3	GROUND BOXES TYPE C (162911) W / APRON	EA	12			
	COSA 628.1	ELECTRICAL SERVICES	EA	2			
	COSA 633.1	BATTERY BACKUP SYSTEM	EA	2			
	COSA 655.1	TYPE 332 CONTROLLER FOUNDATION	EA	2			
	COSA 680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	2			
	COSA 681.1	TEMPORARY TRAFFIC SIGNALS (PER INTERSECTION)	EA	1			
	COSA 682.1	VEHICLE SIGNAL SECTION WITH BACK PLATE (12 INCH) (3 SEC)	EA	14			

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	COSA 682.2	VEHICLE SIGNAL SECTION WITH BACK PLATE (12 INCH) (4 SEC)	EA	3			
	COSA 682.4	PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND)	EA	12			
	COSA 683.1	LED COUNTDOWN PEDESTRIAN MODULE	EA	12			
	COSA 684.1	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (4 COND)	LF	1,070			
	COSA 684.1	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (9 COND)	LF	3,025			
	COSA 685.3	REMOVE FLASHING BEACON ASSYS	EA	2			
	COSA 685.4	SOLAR-POWERED SCHOOL ZONE FLASHER ASSYS	EA	2			
	COSA 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 24') WITH ILSN	EA	1			
	COSA 686.1	TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28') "SCHOOL FLASHER"	EA	2			
	COSA 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32') WITH ILSN	EA	2			
	COSA 686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36') WITH ILSN	EA	4			
	COSA 687.1	PEDESTAL POLE ASSEMBLU (10')	EA	6			
	COSA 688.3	AUDIBLE PEDESTRIAN SIGNAL UNITS	EA	12			
	COSA 691.1	SPREAD SPECTRUM RADIO	EA	2			
	COSA 691.2	ANTENNA (UNIDIRECTIONAL)	EA	2			
	COSA 691.3	COAXIAL CABLE	LF	200			
	COSA 693.1	INTERNALLY LIGHTED STREET NAME SIGNS (ILSN SIGN 9' S)	EA	7			
	COSA 695.2	EMERGENCY PRE-EMPTION PHASE SELECTOR	EA	4			
	COSA 695.3	EMERGENCY PRE-EMPTION DETECTOR	EA	7			
	COSA 695.4	EMERGENCY PRE-EMPTION DETECTOR CABLE	LF	1,100			
	COSA 696.01	RADAR ADVANCE DETECTOR	EA	4			
	COSA 696.02	RADAR PRESENCE DETECTOR	EA	7			
	COSA 696.04	RADAR PRESENCE DETECTION DEVICE (RADD) COMMUNICATION AND POWER CABLE	LF	1,392			
	COSA 801.1	LEVEL II A PROTECTIVE FENCING	LF	1,180			
	COSA 801.3	LEVEL II B PROTECTIVE FENCING	LF	314			
	COSA 802.3	LEVEL II TREE PRUNING	EA	7			
	COSA 805	PLANT TREES / SHRUBS (LIKE KIND & SIZE AS REMOVED) (24" BOX SAGO PALM) (3'-4' TALL, 3'-4' WIDE)	EA	2			
	TXDOT 0450	RAIL (TY PRI)	LF	219			
	TXDOT 0462	CONC BOX CULV (7' X 4') (CAST-IN-PLACE)	LF	64			
	TXDOT 0465	INLET (COMPL) (TY C) (10 FT)	EA	25			
	TXDOT 0465	INLET (COMPL) (TY C) (10 FT) EXTENSION	EA	7			
	TXDOT 0465	TxDOT TRAFFIC GRATE TYPE 5 (MODIFIED)	EA	1			
	TXDOT 0465	INLET (COMPL) (TY C) (10 FT) (EXTRA DEPTH)	VF	28			
	TXD0T 0466	HEADWALL (CH-FW-0) (2:1) (DIA=12 IN)	EA	1			
	TXD0T 0466	WINGWALL (FW-0) (HW = 5 FT)	EA	1			
	TXDOT 0496	REMOVE STRUCTURE (CONC HEADWALL) (STA 3+85.32)	EA	1			

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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	TXDOT 0529	CONC CURB (ARMOR CURB SLOT)	LF	14			
	TXDOT 0531	CONC SIDEWALK BRIDGE((MOD) (TYPE 1)	LF	14			
	TXDOT 0531	CONC SIDEWALK BRIDGE((MOD) (TYPE 2)	LF	56			
	TXDOT 0542	REMOVING METAL BEAM GUARD FENCE	LF	1,763			
	TXDOT 0550	CHAIN LINK FENCE (REMOVE)	LF	5,260			
	TXDOT 0772	POST AND CABLE FENCE (NEW INSTALLATION)	LF	6,643			
	SS 6000	TEMPORARY CHAIN LINK FENCE	LF	362			
	SS 6001	WOODEN PRIVACY FENCE (6' HIGH)	LF	362			
	SS 6002.1	TEMPORARY STORM DRAINAGE (TYPE 1) (3 X 3 GRATE INLET AND 24" PIPE)	EA	2			
	SS 6002.1	TEMPORARY STORM DRAINAGE (TYPE 1) (4 X 4 GRATE INLET AND 30" PIPE)	EA	2			
	SS 6002.2	TEMPORARY STORM DRAINAGE (TYPE 2) (HEADWALL AND 30" PIPE)	EA	3			
	SS 6002.5	TEMPORARY STORM DRAINAGE (TYPE 5)	EA	5			
	SS 6003.1	ADJUSTING OF VEHICULAR GATES AT STATION 44+54.57 (TEN BEARS)	EA	2			
	SS 6004	UTILITY POLE BRACING	EA	4			
	SS 6006.1	PIPE AND STRUCTURE REMOVAL AT STATION 02+98 (COMPLETE)	EA	1			
	SS 6006.2	PIPE AND STRUCTURE REMOVAL AT STATION 18+15 (COMPLETE)	EA	1			
	SS 6006.3	PIPE AND STRUCTURE REMOVAL AT STATION 22+30 (COMPLETE)	EA	1			
	SS 6006.4	PIPE AND STRUCTURE REMOVAL AT STATION 31+80 (COMPLETE)	EA	1			
	SS 6006.5	PIPE AND STRUCTURE REMOVAL AT STATION 36+83 (COMPLETE)	EA	1			
	SS 6006.6	PIPE AND STRUCTURE REMOVAL AT STATION 49+34 (COMPLETE)	EA	1			
	SS 6006.7	PIPE AND STRUCTURE REMOVAL AT STATION 55+92 (COMPLETE)	EA	1			
	SS 6006.8	PIPE AND STRUCTURE REMOVAL FROM STA 9.60.45 TO STA 12+72.00 (COMPLETE)	EA	1			
	SPL	WIRELESS ETHERNET BRIDGE	EA	2			
TOTAL COSA BASE BID:							
SAWS WATER BASE BID							
ALT. NO.	SAWS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	100	MOBILIZATION	LS	1			
	101	PREPARING RIGHT OF WAY	LS	1			
	103	REMOVE CONCRETE CURB	LF	24			
	104	REMOVE SIDEWALKS AND DRIVEWAYS	SY	100			
	205.4	HOT MIX ASPHALTIC CONCRETE PAVEMENT "D" (2")	SY	1,475			
	206.1	ASPHALT TREATED BASE - 10 INCHES COMPACTED DEPTH	SY	1,182			
	500.1	CONCRETE CURB	LF	24			

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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	502.1	CONCRETE SIDEWALKS	SY	11			
	550.1	TRENCH PROTECTION	LF	2,529			
	818	8" PVC WATERLINE (RESTRAINED)	LF	34			
	818	12" PVC WATERLINE (RESTRAINED)	LF	2,387			

**CITY OF SAN ANTONIO
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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	824	RELAY 3/4" LONG SERVICE	EA	1			
	824	RELAY 1" LONG UNMETERED SERVICE	EA	1			
	824	RELAY 1" LONG SERVICE	EA	3			
	824	RELAY 1-1/2" LONG SERVICE	EA	1			
	824	RELAY 2" LONG SERVICE	EA	1			
	824	RELAY 4" LONG SERVICE	EA	1			
	824	RELAY 6" LONG SERVICE (FIRE LINE)	EA	1			
	824	RELAY 8" LONG SERVICE (FIRE LINE)	EA	1			
	826	VALVE BOX ADJUSTMENT	EA	13			
	828	4" GATE VALVE	EA	1			
	828	6" GATE VALVE	EA	2			
	828	8" GATE VALVE	EA	1			
	828	12" GATE VALVE	EA	12			
	833	EXIST METER -NEW METER LOCATION	EA	1			
	834	FIRE HYDRANT	EA	3			
	836	PIPE FITTINGS, ALL SIZES & TYPES	TON	15.05			
	840	8" WATER Tie-Ins	EA	1			
	840	12" WATER Tie-Ins	EA	28			
	841	HYDROSTATIC TESTING	EA	13			
	844	2" BLOW OFF TEMPORARY	EA	33			
	856	STEEL CASING PIPE 24"	LF	108			
	856	12" PVC CARRIER PIPE FOR CASING	LF	108			
	3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF A.C. PIPE	LF	455			
TOTAL ESTIMATED SAWS WATER BASE BID:							
SAWS SEWER BASE BID							
ALT. NO.	SAWS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	100	MOBILIZATION	LS	1			
	101	PREPARING RIGHT OF WAY	LS	1			
	851	ADJUSTING EXISTING MANHOLES (WATERTIGHT RINGS)	EA	6			
	855	RECONSTRUCTION OF EXISTING MANHOLE	EA	16			
TOTAL ESTIMATED SAWS SEWER BASE BID:							

**CITY OF SAN ANTONIO
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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
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CPS ENERGY BASE BID

ALT. NO.	CPS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	1	RERUN AND LOWER GAS SERVICE OFF NEW MAIN (MAIN TO 1 FT. INSIDE PROPERTY LINE), SIZES 1" THRU 4" (INCLUDING REPLACING RISER IF NECESSARY) SHORT SIDE	EA	24			
	2	CUT BACK, PUMP TEST AND TIE EXISTING SERVICE TO NEW MAIN, SIZES 1" THROUGH 4"	EA	12			
	3	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH) 2" PLASTIC PIPE AND TRACER WIRE	FT	82			
	3	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH) 6" PLASTIC PIPE AND TRACER WIRE	FT	7,184			
	4	STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE. FLOWABLE FILL	CY	40			
	4	STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE. ASPHALT	SY	193			
TOTAL ESTIMATED CPS ENERGY BASE BID:							
TOTAL PROJECT BASE BID:							

COSA ADDITIVE ALTERNATE BID NO. 1

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	COSA 100.1	MOBILIZATION	LS	1			
1	COSA 100.2	INSURANCE AND BOND	LS	1			
1	COSA 101.1	PREPARING RIGHT OF WAY	LS	1			
1	COSA 103.1	REMOVE CONCRETE CURB	LF	100			
1	COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAY	SF	1,026			
1	COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (RIPRAP)	SF	970			
1	COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (CHANNEL RIPRAP)	SF	3,368			
1	COSA 104.1	STREET EXCAVATION	CY	1,642			
1	COSA 105.1	CHANNEL EXCAVATION	CY	64			
1	COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	2,969			
1	COSA 107.1	EMBANKMENT (FINAL) (DENS CONT) (TY B)	CY	544			

**CITY OF SAN ANTONIO
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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	COSA 203.1	TACK COAT	GAL	577			
1	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" TEMP SIDEWALK (4" COMP DEPTH)	SY	190			
1	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (3.5" COMP DEPTH)	SY	3,895			
1	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8" COMP DEPTH) (TEMP PAVEMENT)	SY	1,594			
1	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8.5 COMP DEPTH)	SY	4,448			
1	COSA 205.4WM	WARM MIX ASPHALTIC CONCRETE TYPE "D" (2" COMP DEPTH)	SY	5,237			
1	COSA 306.1	STRUCTURAL EXCAVATION	CY	92			
1	COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (6 FT X 3 FT)	LF	42			
1	COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (10 FT X 5 FT)	LF	460			
1	COSA 401.1	RC PIPE (CLASS III) (24")	LF	121			
1	COSA 403.12	SPECIAL INLETS (COMPL) (TYPE R)	EA	1			
1	COSA 403.15	VERTICAL MANHOLE STACK (24" OPENING)	EA	2			
1	COSA 403.15	VERTICAL MANHOLE STACK (48" OPENING)	EA	1			
1	COSA 410.2	GRAVEL SUBGRADE FILLER	CY	308			
1	COSA 500.4	CONCRETE CURB AND GUTTER	LF	1,673			
1	COSA 502.1	CONCRETE SIDEWALKS	SY	526			
1	COSA 503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	21			
1	COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	66			
1	COSA 505.1	CONCRETE RIPRAP (5" THICK)	SY	417			
1	COSA 505.1	CONCRETE FLUME (6" RIPRAP)	SY	13			
1	COSA 506.1	CONCRETE RETAINING WALL TYPE "E"	CY	9			
1	COSA 506.1	CONCRETE RETAINING WALL TYPE "C-1"	CY	1			
1	COSA 515.1	TOPSOIL	CY	132			
1	COSA 516.1	BERMUDA SODDING	SY	1,137			
1	COSA 520.1	HYDROMULCHING (RESIDENTIAL OR COMMERCIAL)	SY	40			
1	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (INSTALL AND REMOVAL)	LF	780			
1	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) RELOCATE	LF	780			
1	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (INSTALL AND REMOVAL)	LF	80			
1	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) RELOCATE	LF	80			
1	COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			
1	COSA 531.3	R1-1 STOP (30") (HIGH DENSITY)	EA	1			
1	COSA 531.57	10 INCH (229 mm) STREET NAME, BLOCK NUMBER (VARIES X 10")(HIGH DENSITY) (2 PLATES PER STREET)	EA	1			
1	COSA 531.6	R2-1 SPEED LIMIT (24" X 30") (HIGH DENSITY)	EA	2			
1	COSA 531.68	R3-17 (BIKE LANE) (30" X 24") (HIGH DENSITY)	EA	2			

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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	COSA 535.1	4 INCH WIDE YELLOW LINE	LF	1,600			
1	COSA 535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	3			
1	COSA 535.17	BICYCLE RIDER SYMBOL	EA	3			
1	COSA 535.2	4 INCH WIDE YELLOW LINE (BRKN)	LF	400			
1	COSA 535.4	8 INCH WIDE WHITE LINE	LF	1,555			
1	COSA 535.4	8 INCH WIDE WHITE LINE (BRKN)	LF	28			
1	COSA 535.9	LEFT WHITE ARROW	EA	6			
1	COSA 536.1	4 INCH WIDE YELLOW LINE (TEMPORARY)	LF	4,680			
1	COSA 537.8	TRAFFIC BUTTON (TYPE II A-A)	EA	44			
1	COSA 540.10	CURB INLET GRAVEL FILTERS	LF	90			
1	COSA 540.10	ROCK FILTER DAMS (INSTALL / REMOVE) (TYPE 2)	LF	60			
1	COSA 540.6	CONSTRUCTION EXITS (INSTALL / REMOVE)	SY	156			
1	COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	121			
1	COSA 554.1	EROSION CONTROL MATTING - EROSION CONTROL BLANKET (ECB) (TXDOT CLASS 1, TYPE C)	SY	40			
1	COSA 801.1	LEVEL II A PROTECTIVE FENCING	LF	300			
1	COSA 801.3	LEVEL II B PROTECTIVE FENCING	LF	132			
1	COSA 802.3	LEVEL II TREE PRUNING	EA	3			
1	TXDOT 0450	RAIL (TY C223)	LF	159			
1	TXDOT 0450	RAIL (TY PR1)	LF	249			
1	TXDOT 0462	CONC BOX CULV (10 FT X 7 FT) (CAST-IN-PLACE)	LF	94			
1	TXDOT 0465	INLET (COMPL) (TY C) (10 FT)	EA	4			
1	TXDOT 0465	INLET (COMPL) (TY C) (10 FT) (EXTENSION)	EA	2			
1	TXDOT 0466	WINGWALL (PW-1) (HW=6 FT)	EA	1			
1	TXDOT 0466	WINGWALL (PW-1) (HW=9 FT X 6 FT)	EA	2			
1	TXDOT 0496	REMOVE STRUCTURE (CONC HEADWALL) (STA 79+21.68 L&R)	EA	2			
1	TXDOT 0542	REMOVING METAL BEAM GUARD FENCE	LF	265			
1	TXDOT 0772	POST AND CABLE FENCE (NEW INSTALLATION)	LF	211			
1	SS 6000	TEMPORARY CHAIN LINK FENCE	LF	372			
1	SS 6001	WOODEN PRIVACY FENCE (6' HIGH)	LF	372			
1	SS 6004	UTILITY POLE BRACING	EA	2			
TOTAL ESTIMATED COSA ADDITIVE ALTERNATE NO. 1:							

SAWS WATER ADDITIVE ALTERNATE BID NO. 1							
ALT. NO.	SAWS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100	MOBILIZATION	LS	1			
1	101	PREPARING RIGHT OF WAY	LS	1			
1	205.4	HOT MIX ASPHALTIC CONCRETE PAVEMENT "D" (2")	SY	44			
1	206.1	ASPHALT TREATED BASE - 10 INCHES COMPACTED DEPTH	SY	35			
1	550.1	TRENCH PROTECTION	LF	79			
1	818	12" PVC WATERLINE (RESTRAINED)	LF	79			

**CITY OF SAN ANTONIO
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ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	828	12" GATE VALVE	EA	1			
1	836	PIPE FITTINGS, ALL SIZES & TYPES	TON	1.33			
1	840	12" WATER Tie-Ins	EA	4			
1	841	HYDROSTATIC TESTING	EA	2			
1	844	2" BLOW OFF TEMPORARY	EA	4			
1	3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF A.C. PIPE	LF	78			
TOTAL ESTIMATED SAWS WATER ADDITIVE ALTERNATE 1:							
SAWS SEWER ADDITIVE ALTERNATE BID NO. 1							
ALT. NO.	SAWS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100	MOBILIZATION	LS	1			
1	101	PREPARING RIGHT OF WAY	LS	1			
1	205.4	HOT MIX ASPHALTIC CONCRETE PAVEMENT "D" (2")	SY	23			
1	206.1	ASPHALT TREATED BASE - 10 INCHES COMPACTED DEPTH	SY	23			
1	550.1	TRENCH PROTECTION	LF	15			
1	848	8" PVC GRAVITY SAN. SEWER, (0' - 10' CUT)	LF	15			
1	851	ADJUSTING SANITARY SEWER MANHOLE	EA	1			
1	852.1	SANITARY SEWER MANHOLE (0'-6')	EA	1			
1	852.2	SANITARY SEWER DROP MANHOLE (0'-6')	EA	1			
1	852.3	EXTRA DEPTH MANHOLE (>6')	VF	15.90			
1	855	RECONSTRUCTION OF EXISTING MANHOLE	EA	2			
1	864	BYPASS PUMPING	EA	1			
1	866	SEWER MAIN TELEVISION INSPECTION	LF	15			
TOTAL ESTIMATED SAWS SEWER ADDITIVE ALTERNATE NO. 1:							
CPS ENERGY ADDITIVE ALTERNATE BID NO. 1							
ALT. NO.	CPS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	1	RERUN AND LOWER GAS SERVICE OFF NEW MAIN (MAIN TO 1 FT. INSIDE PROPERTY LINE), SIZES 1" THRU 4" (INCLUDING REPLACING RISER IF NECESSARY SHORT SIDE	EA	4			
1	2	RERUN AND LOWER LONGHORN GAS SERVICE OFF NEW MAIN (MAIN TO 3 FT. INSIDE ROW), SIZES 1" THRU 4" (INCLUDING REPLACING RISER IF NECESSARY). LONG SIDE	EA	2			
1	3	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH) 4" PLASTIC PIPE AND TRACER WIRE	FT	196			

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	3	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH) 6" PLASTIC PIPE AND TRACER WIRE	FT	535			
1	4	INSTALL GAS MAIN BY DIRECTIONAL DRILLING INCLUDES ALL COSTS FOR INSTALLATION AND RESTORATION INCLUDING COST OF BORE PITS. 6" PLASTIC PIPE AND TRACER WIRE	FT	303			
1	5	STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE FLOWABLE FILL	CY	5			
1	5	STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE ASPHALT	SY	32			

TOTAL ESTIMATED CPS ENERGY ADDITIVE ALTERNATE NO. 1:

TOTAL ESTIMATED PROJECT ADDITIVE ALTERNATE NO. 1

COSA ADDITIVE ALTERNATE BID NO. 2

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	COSA 100.1	MOBILIZATION	LS	1			
2	COSA 100.2	INSURANCE AND BOND	LS	1			
2	COSA 101.1	PREPARING RIGHT OF WAY	LS	1			
2	COSA 103.1	REMOVE CONCRETE CURB	LF	266			
2	COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAY	SF	1,705			
2	COSA 103.4	REMOVE MISCELLANEOUS CONCRETE (RIPRAP HEADWALL)	SF	368			
2	COSA 104.1	STREET EXCAVATION	CY	3,076			
2	COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	1,942			
2	COSA 107.1	EMBANKMENT (FINAL) (DENS CONT) (TY B)	CY	370			
2	COSA 203.1	TACK COAT	GAL	735			
2	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (3.5" COMP DEPTH)	SY	6,559			
2	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8" COMP DEPTH) (TEMP PAVEMENT)	SY	1,220			
2	COSA 205.2WM	WARM MIX ASPHALTIC CONCRETE TYPE "B" (8.5 COMP DEPTH)	SY	7,353			
2	COSA 205.4WM	WARM MIX ASPHALTIC CONCRETE TYPE "D" (2" COMP DEPTH)	SY	6,559			
2	COSA 302.2	METAL FOR GALVANIZED TRASH RACK)	LS	1			
2	COSA 306.1	STRUCTURAL EXCAVATION	CY	525			
2	COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (5 FT X 3 FT)	LF	343			
2	COSA 309.1	PRECAST REINFORCED CONCRETE CULVERT (10 FT X 4 FT)	LF	86			

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	COSA 309.1	REINFORCED CONCRETE PRECAST BOX TRANSITION (5 FT X 3 FT TO 10 FT X 4 FT)	LF	8			
2	COSA 309.1	REINFORCED CONCRETE PRECAST BOX TRANSITION (5 FT X 3 FT TO 5 FT X 4 FT)	LF	8			
2	COSA 309.1	REINFORCED CONCRETE PRECAST BOX TRANSITION (10 FT X 4 FT TO 10 FT X 5 FT)	LF	8			
2	COSA 401.1	RC PIPE (CLASS III) (24")	LF	128			
2	COSA 401.1	RC PIPE (CLASS III) (30")	LF	502			
2	COSA 401.1	RC PIPE (CLASS III) (36")	LF	205			
2	COSA 403.1	JUNCTION BOX (4 FT X 4 FT)	EA	1			
2	COSA 403.15	VERTICAL MANHOLE STACK (48" OPENING)	EA	3			
2	COSA 403.2	JUNCTION BOX (5 FT X 5 FT)	EA	1			
2	COSA 410.2	GRAVEL SUBGRADE FILLER	CY	290			
2	COSA 500.4	CONCRETE CURB AND GUTTER	LF	2,705			
2	COSA 502.1	CONCRETE SIDEWALKS	SY	697			
2	COSA 503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	75			
2	COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	35			
2	COSA 505.1	CONCRETE RIPRAP (5" THICK)	SY	3			
2	COSA 505.1	CONCRETE FLUME (6" RIPRAP)	SY	6			
2	COSA 505.1	VIA BUS PAD CONCRETE RIPRAP (6" THICK)	SY	6			
2	COSA 506.1	CONCRETE RETAINING WALL TYPE "E"	CY	32			
2	COSA 515.1	TOPSOIL	CY	138			
2	COSA 516.1	BERMUDA SODDING	SY	1,242			
2	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) (INSTALL AND REMOVAL)	LF	1,300			
2	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY1) RELOCATE	LF	1,300			
2	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) (INSTALL AND REMOVAL)	LF	160			
2	COSA 525.1	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROF) (TY2) RELOCATE	LF	160			
2	COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			
2	COSA 531.3	R3-9 TWO WAY LEFT TURN ONLY (30" X 36")(HIGH DENSITY)	EA	2			
2	COSA 531.3	R1-1 STOP (30") (HIGH DENSITY)	EA	2			
2	COSA 531.38	W1-2 CURVE (30" X 30") (HIGH DENSITY)	EA	1			
2	COSA 531.45	W1-8 CHEVRON ALIGNMENT (18" X 24") (HIGH DENSITY)	EA	3			
2	COSA 531.52	W13-1 ADVISORY SPEED (18" X18") (HIGH DENSITY)	EA	1			
2	COSA 531.57	10 INCH (229 mm) STREET NAME, BLOCK NUMBER (VARIES X 10")(HIGH DENSITY) (2 PLATES PER STREET)	EA	2			
2	COSA 531.6	R2-1 SPEED LIMIT (24" X 30") (HIGH DENSITY)	EA	1			
2	COSA 531.68	R3-17 (BIKE LANE) (30" X 24") (HIGH DENSITY)	EA	4			
2	COSA 531.7	R3-17B (ENDS (30" X 12") (HIGH DENSITY)	EA	1			

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	COSA 531.76	R3-9c P BEGIN (24" X 8")	EA	1			
2	COSA 531.XX	R3-9cP END (24" X 8")	EA	1			
2	COSA 531.XX	M6-1B "RIGHT ARROW" (30" X 24")	EA	1			
2	COSA 535.1	4 INCH WIDE YELLOW LINE	LF	2,370			
2	COSA 535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	3			
2	COSA 535.17	BICYCLE RIDER SYMBOL	EA	3			
2	COSA 535.2	4 INCH WIDE YELLOW LINE (BRKN)	LF	500			
2	COSA 535.4	8 INCH WIDE WHITE LINE	LF	2,308			
2	COSA 535.4	8 INCH WIDE WHITE LINE (BRKN)	LF	84			
2	COSA 535.7	24 INCH WIDE YELLOW LINE	LF	30			
2	COSA 535.9	LEFT WHITE ARROW	EA	8			
2	COSA 536.1	4 INCH WIDE YELLOW LINE (TEMPORARY)	LF	4,886			
2	COSA 537.8	TRAFFIC BUTON (TYPE II A-A)	EA	88			
2	COSA 540.10	CURB INLET GRAVEL FILTERS	LF	270			
2	COSA 540.6	CONSTRUCTION EXITS (INSTALL / REMOVE)	SY	624			
2	COSA 540.XX	GRAVEL FILTER BAGS	LF	200			
2	COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	851			
2	COSA 801.1	LEVEL II A PROTECTIVE FENCING	LF	800			
2	COSA 801.3	LEVEL II B PROTECTIVE FENCING	LF	304			
2	COSA 802.3	LEVEL II TREE PRUNING	EA	10			
2	TXDOT 0465	INLET (COMPL) (TY C) (10 FT)	EA	6			
2	TXDOT 0465	INLET (COMPL) (TY C) (10 FT) (EXTENSION)	EA	6			
2	TXDOT 0465	INLET (COMPL) (TY H) (GRATE)	EA	1			
2	TXDOT 0496	REMOVE STRUCTURE (2 - 5 X 2 MBC)	EA	1			
2	TXDOT 0531	CONC SIDEWALK (BRIDGE) (MOD) (TYPE 2)	LF	28			
2	TXDOT 0542	REMOVING METAL BEAM GUARD FENCE	LF	247			
2	TXDOT 0772	POST AND CABLE FENCE (REMOVAL)	LF	75			
2	TXDOT 0772	POST AND CABLE FENCE (NEW INSTALLATION)	LF	253			
2	SS 6000	TEMPORARY CHAIN LINK FENCE	LF	551			
2	SS 6001	WOODEN PRIVACY FENCE (6' HIGH)	LF	551			
2	SS 6002.3	TEMPORARY STORM DRAINAGE (TYPE 3) (HEADWALL AND 2 X 5 X 2 MBC)	EA	1			
2	SS 6002.4	TEMPORARY STORM DRAINAGE (TYPE 4) (RIPRAP AND 18" PIPE)	EA	1			
2	SS 6002.6	TEMPORARY STORM DRAINAGE (TYPE 6)	EA	1			

TOTAL ESTIMATED COSA ADDITIVE ALTERNATE NO. 2:

SAWS WATER ADDITIVE ALTERNATE BID NO. 2							
ALT. NO.	SAWS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	100	MOBILIZATION	LS	1			
2	101	PREPARING RIGHT OF WAY	LS	1			
2	205.4	HOT MIX ASPHALTIC CONCRETE PAVEMENT "D" (2")	SY	191			

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	206.1	ASPHALT TREATED BASE - 10 INCHES COMPACTED DEPTH	SY	153			
2	413.0	FLOWABLE FILL (LOW STRENGTH)	CY	8			
2	550.1	TRENCH PROTECTION	LF	398			
2	818	12" PVC WATERLINE (RESTRAINED)	LF	308			
2	824	RELAY 3/4" SHORT SERVICE	EA	1			
2	823	RELAY 3/4" SHORT UNMETERED SERVICE	EA	1			
2	826	VALVE BOX ADJUSTMENT	EA	6			
2	828	12" GATE VALVE	EA	3			
2	834	FIRE HYDRANT	EA	1			
2	836	PIPE FITTINGS, ALL SIZES & TYPES	TON	4.51			
2	840	12" WATER Tie-Ins	EA	11			
2	841	HYDROSTATIC TESTING	EA	5			
2	844	2" BLOW OFF TEMPORARY	EA	11			
2	856	STEEL CASING PIPE 24"	LF	90			
2	856	12" PVC CARRIER PIPE FOR CASING	LF	90			
2	856	JACKING, BORING, OR TUNNELING 24"	LF	20			
2	3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF A.C. PIPE	LF	138			
TOTAL ESTIMATED SAWS WATER ADDITIVE ALTERNATE NO. 2:							
SAWS SEWER ADDITIVE ALTERNATE BID NO. 2							
ALT. NO.	SAWS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	100	MOBILIZATION	LS	1			
2	101	PREPARING RIGHT OF WAY	LS	1			
2	851	ADJUSTING EXISTING MANHOLES (WATER TIGHT RINGS)	EA	4			
TOTAL ESTIMATED SAWS SEWER ADDITIVE ALTERNATE NO. 2:							
CPS ENERGY BASE ADDITIVE ALTERNATE BID NO. 2							
ALT. NO.	CPS ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	1	RERUN AND LOWER GAS SERVICE OFF NEW MAIN (MAIN TO 1 FT. INSIDE PROPERTY LINE), SIZES 1" THRU 4" (INCLUDING REPLACING RISER IF NECESSARY SHORT SIDE)	EA	2			
2	2	RERUN AND LOWER LONGHORN GAS SERVICE OFF NEW MAIN (MAIN TO 3 FT. INSIDE ROW), SIZES 1" THRU 4" (INCLUDING REPLACING RISER IF NECESSARY). LONG SIDE	EA	2			
2	3	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH) 2" PLASTIC PIPE AND TRACER WIRE	FT	33			

**CITY OF SAN ANTONIO
025 UNIT PRICING FORM**

ALT. NO.	ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
2	3	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH) 4" PLASTIC PIPE AND TRACER WIRE	FT	57			
2	3	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH) 6" PLASTIC PIPE AND TRACER WIRE	FT	1,295			
2	4	STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE FLOWABLE FILL	CY	20			
2	4	STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE ASPHALT	SY	93			
TOTAL ESTIMATED CPS ENERGY ADDITIVE ALTERNATE NO. 2:							
TOTAL ESTIMATED PROJECT ADDITIVE ALTERNATE NO: 2							
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.

_____ Acknowledged 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, TEXAS
GOVERNING SPECIFICATIONS, SPECIAL PROVISIONS AND SPECIAL SPECIFICATIONS
FOR
GOLIAD ROAD
(SE MILITARY DRIVE TO LOOP 410)

ALL SPECIFICATIONS, SPECIAL PROVISIONS, AND SPECIAL SPECIFICATIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS:

- CITY OF SAN ANTONIO – STANDARD SPECIFICATIONS FOR CONSTRUCTION (JUNE 2008 OR LATEST REVISIONS AND ADDITIONS)
- TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES (JUNE 1, 2004)
- SAN ANTONIO WATER SYSTEM – STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION (JUNE 2009 OR LATEST REVISIONS AND ADDITIONS)
- CITY PUBLIC SERVICE (CPS) ENERGY – REQUIREMENTS AND SPECIFICATIONS FOR CONSTRUCTION OF NATURAL GAS DISTRIBUTION FACILITIES

CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION

100	MOBILIZATION
101	PREPARING RIGHT OF WAY
103	REMOVE CONCRETE
104	STREET EXCAVATION
105	CHANNEL EXCAVATION
106	BOX CULVERT EXCAVATION AND BACKFILL
107	EMBANKMENT
200	FLEX BASE
203	TACK COAT
205	HOT MIX ASHALTIC CONCRETE PAVEMENT
209	CONCRETE PAVEMENT
210	ROLLING
220	BLADING
300	CONCRETE
301	REINFORCING STEEL
302	METAL FOR STRUCTURES

303 WELDED WIRE FLAT SHEETS
306 STRUCTURAL EXCAVATION
307 CONCRETE STRUCTURES
308 DRILLED SHAFTS AND UNDER-REAMED FOUNDATIONS
309 PRECAST REINFORCED CONCRETE BOX CULVERT
311 CONCRETE SURFACE FINISH
400 EXCAVATION, TRENCHING AND BACKFILLING
401 REINFORCED CONCRETE PIPE
403 STORM SEWER JUNCTION BOXES AND INLETS
407 CONCRETE ENCASMENT, CRADLES, SADDLES AND COLLARS
409 CAST IRON CASTINGS
410 SUBGRADE FILLER
500 CONCRETE CURB, GUTTER AND CONCRETE CURB AND GUTTER
502 CONCRETE SIDEWALKS
503 ASPHALTIC CONCRETE, PORTLAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS
504 CONCRETE MEDIANS AND ISLANDS
505 CONCRETE RIPRAP
506 CONCRETE RETAINING WALL COMBINATION TYPE
507 CHAIN LINK WIRE FENCE
512 ADJUSTING EXISTING MANHOLES AND VALVE BOXES
515 TOPSOIL
516 SODDING
525 CONCRETE TRAFFIC BARRIERS (PORTABLE)
526 FIELD OFFICE
530 BARRICADES, SIGNS AND TRAFFIC HANDLING
531 SIGNS
533 CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS
535 HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
536 PREFORMED PAVEMENT MARKINGS
537 RAISED PAVEMENT MARKERS
540 TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL
550 TRENCH EXCAVATION SAFETY PROTECTION
551 TEMPORARY SPECIAL SHORING
554 EROSION CONTROL MATTING
556 CAST IN PLACE DETECTABLE WARNING SURFACE TILES
600 TRAFIC SIGNAL GENERAL CONDITIONS

- 615 TRAFFIC SIGNAL CONTROLLER CABINET
- 618 CONDUIT
- 620 ELECTRICAL CONDUCTORS
- 624 GROUND BOXES
- 628 ELECTRICAL SERVICES
- 633 BATTERY BACKUP SYSTEM FOR TRAFFIC SIGNAL
- 655 CONTROLLER FOUNDATION AND PEDESTAL POSTS
- 656 FOUNDATIONS FOR TRAFFIC CONTROL DEVICES
- 680 INSTALLATION OF HIGHWAY TRAFFIC SIGNALS
- 681 TEMPORARY TRAFFIC SIGNALS
- 682 VEHICLE AND PEDESTRIAN SIGNAL MODULE
- 683 LED COUNTDOWN PEDESTRIAN SIGNAL MODULE
- 684 TRAFFIC SIGNAL CABLES
- 685 FLASHING BEACON ASSEMBLIES
- 686 TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)
- 687 PEDESTAL POLE ASSEMBLY
- 688 PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS
- 691 SPREAD SPECTRUM RADIOS FOR TRAFFIC SIGNALS
- 692 COMMUNICATION CABLE
- 693 INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLIES
- 695 EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM
- 700 COST LOADED PROJECT SCHEDULES
- 1000 WEB PORTAL

SPECIAL PROVISIONS:

SPECIAL PROVISIONS WILL GOVERN AND TAKE PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED HEREON WHEREVER IN CONFLICT THEREWITH.

CITY OF SAN ANTONIO

- SP COSA ITEM 401 – REINFORCED CONCRETE PIPE (MAY 2009)
- SP COSA ITEM 403 – STORM SEWER JUNCTION BOXES AND INLETS (MAY 2009)
- SP COSA ITEM 502 – CONCRETE SIDEWALKS (MAY 2009)
- SP COSA ITEM 503 – ASPHALTIC CONCRETE, PORTLAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS (MAY 2009)
- SP COSA ITEM 505 – CONCRETE RIPRAP (MAY 2009)
- SP COSA ITEM 526 – FIELD OFFICE (JUNE 2010)

SP COSA ITEM 700 – PROJECT SCHEDULES (FEBRUARY 2010)

BID ITEM SUMMARY REVISIONS (MAY 2009)

SP COSA ITEM 403 – STORM SEWER JUNCTION BOXES AND INLETS - MANHOLE VERTICAL
STACK

SP COSA ITEM 205 – 001WM CHANGE HOT MIX ASPHALTIC CONCRETE PAVMENT TO WARM
MIX ASPHALTIC CONCRETE

SPECIAL SPECIFICATIONS:

THE SPECIFICATION ITEMS LISTED BELOW ARE THOSE UNDER WHICH PAYMENT IS TO BE MADE.
THESE TOGETHER WITH SUCH OTHER PERTINENT ITEMS, IF ANY, AND INCLUDING THE SPECIAL
PROVISIONS CONSTITUTES THE COMPLETE SPECIFICATIONS FOR THIS PROJECT.

CITY OF SAN ANTONIO

SS COSA 696 RADAR VEHICLE DETECTION DEVICES (RVDD)

SS COSA 800 PROJECT SIGNS

SS COSA 801 TREE AND LANDSCAPE PROTECTION

SS COSA 802 TREE PRUNING, SOIL AMENDING AND FERTILIZATION

SS COSA 805 TREES, PLANTS AND GROUND COVERS

SS ITEM 6000 TEMPORARY CHAIN LINK FENCE

SS ITEM 6001 WOODEN PRIVACY FENCE (6' HIGH)

SS ITEM 6002 TEMPORARY DRAINAGE STRUCTURES

SS ITEM 6003 ADJUSTING OF VEHICULAR GATES

SS ITEM 6004 UTILITY POLE BRACING

SS ITEM 6006 PIPE AND STRUCTURE REMOVAL

SS SPL WIRELESS ETHERNET BRIDGE

**SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS
FOR WATER AND SANITARY SEWER CONSTRUCTION**

- 100 MOBILIZATION
- 101 PREPARATION OF RIGHT OF WAY
- 550 TRENCH EXCAVATION SAFETY PROTECTION
- 818 PVC (C-900) PIPE INSTALLATION
- 824 SERVICE SUPPLY LINES (WATER)
- 826 VALVE BOX ADJUSTMENTS
- 828 GATE VALVES
- 833 METER AND METER BOX INSTALLATION
- 834 FIRE HYDRANTS
- 836 GREY-IRON AND DUCTILE-IRON FITTINGS
- 840 WATER TIE-INS
- 841 HYDROSTATIC TESTING OPERATIONS
- 844 BLOW-OFF ASSEMBLIES
- 848 SANITARY SEWERS
- 851 ADJUSTING EXISTING MANHOLES
- 852 SEWER MANHOLES
- 855 RECONSTRUCTION OF EXISTING MANHOLES
- 856 JACKING, BORING OR TUNNELING PIPE
- 864 BYPASS PUMPING

SPECIAL SPECIFICATIONS:

THE SPECIFICATION ITEMS LISTED BELOW ARE THOSE UNDER WHICH PAYMENT IS TO BE MADE. THESE TOGETHER WITH SUCH OTHER PERTINENT ITEMS, IF ANY, AND INCLUDING THE SPECIAL PROVISIONS CONSTITUTES THE COMPLETE SPECIFICATIONS FOR THIS PROJECT.

SAN ANTONIO WATER SYSTEM (SAWS)

- 3000 HANDLING ASBESTOS CEMENT PIPE

SPECIAL CONDITIONS:

SAN ANTONIO WATER SYSTEM (SAWS)

WATERWORKS AND SANITARY SEWER CONSTRUCTION SPECIAL CONDITIONS

**CPS ENERGY
REQUIREMENTS AND SPECIFICATIONS FOR
THE CONSTRUCTION OF NATURAL GAS DISTRIBUTION FACILITIES**

EXHIBIT GAS-1	ADDITIONS TO PROJECT BID DOCUMENTS
EXHIBIT GAS-2	SPECIFICATIONS FOR CONSTRUCTION OF NATURAL GAS DISTRIBUTION FACILITIES
EXHIBIT GAS-3	DESIGN STANDARDS FOR STEEL GAS PIPING
EXHIBIT GAS-4	DESIGN STANDARDS FOR POLYETHYLENE GAS PIPING
EXHIBIT GAS-5	COMPENSATION SCHEDULE
EXHIBIT GAS-6	JOB SKETCH FOR: GOLIAD ROAD
EXHIBIT GAS-7	COVERED TASKS REGULATED BY 49 CFR PART 192

CITY OF SAN ANTONIO SPECIAL PROVISION
205 -001WM

HOT MIX ASPHALTIC CONCRETE PAVEMENT

For this project, Item 205, “Hot Mix Asphaltic Concrete Pavement,” of the Standard Specifications, is hereby amended with respect to the clauses cited below, and no other clauses or requirements of this Item are waived or changed hereby.

205.2. Materials, H. Additives is supplemented by the following:

Warm Mix Asphalt (WMA) is defined as additives that allow a reduction in the temperature at which asphalt mixtures are produced and placed. The use of WMA is required. Produce an asphalt mixture within the temperature range of 215°F and 275°F. Delivery and placement temperature of WMA shall be a maximum of 235 °F. Unless otherwise directed, use only WMA additives on the approved list maintained by TxDOT’s Construction Division.

205.4 Construction, C. Job-Mix Formula. The first paragraph is voided and replaced by the following:

Job-Mix Formula (JMF) shall be designed and submitted to the Engineer with the inclusion of the WMA additive. Document the WMA additive used and recommend rate on the JMF submittal. The Engineer and the Contractor will verify JMF based on plant-produced mixture from the trial batch, unless otherwise approved.

205.4 Construction, D. Production is supplemented by the following:

Produce the mixture and monitor the temperature of the material in the truck before shipping to ensure that it does not exceed 275°F or is less than 215°F. The City will not pay for or allow placement of any WMA produced at more than 275°F or less than 215°F, unless otherwise directed.

205.4 Construction, G. Placement, 1. Weather Conditions is supplemented by the following:

**Table 10A
Minimum Pavement Surface Temperatures**

Originally Specified High Temperature Binder Grade	Minimum Pavement Surface Temperatures in Degrees Fahrenheit	
	Subsurface Layers or Night Paving Operations	Surface Layers Placed in Daylight Operations
PG 64 or lower	45	50
PG 70	55 ¹	60 ¹
PG 76 or higher	60 ¹	60 ¹

1. Contractors may pave at temperatures 10°F lower than the values shown in Table 10A when utilizing a paving process including WMA or equipment that eliminates thermal segregation. In such cases, the contractor must use either a hand held thermal camera or a hand held infrared thermometer operated in accordance with Tex-244-F to demonstrate to the satisfaction of the Engineer that the uncompacted mat has no more than 10°F of thermal segregation.

205.4 Construction, G. Placement, 3. Placement Operations

Table 9 is voided and not replaced.

205.7 Bid Item is supplemented by the following:

Item 205.1WM – Warm Mix Asphaltic Concrete Type A – per square yard ____ inches pavement thickness

Item 205.2WM – Warm Mix Asphaltic Concrete Type B – per square yard ____ inches pavement thickness

Item 205.3WM – Warm Mix Asphaltic Concrete Type C – per square yard ____ inches pavement thickness

Item 205.4WM – Warm Mix Asphaltic Concrete Type D – per square yard ____ inches pavement thickness

**CITY OF SAN ANTONIO
TRANSPORTATION AND CAPITAL IMPROVEMENTS (TCI)
CONTRACT SERVICES DIVISION**

RECEIPT OF ADDENDUM NUMBER 3 IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF **GOLIAD ROAD DRAINAGE PROJECT NO. 40-00244** FOR WHICH BIDS WILL BE OPENED ON **FEBRUARY 11, 2014**.

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

Company Name: _____

Address: _____

City / State / Zip Code: _____

Date: _____

Signature

Print Name / Title