



Flores 24" Rehab Project- DR No 128
Solicitation Number: CO-00107-SM
Job No.: 14-4657

ADDENDUM 3
February 6, 2017

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans, and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

1. **Q: Item 910 MH REHAB refers to testing. In order to perform this test, a bypass will be required. The bypass is not mentioned in the payment section of 910 but is mentioned in the Description. Is bypass subsidiary to this item?**

R: Yes, per Section 910.10, payment for manhole rehabilitation line item shall include testing: "Payment shall be full compensation for materials, labor, equipment, tools, testing, and any incidentals necessary to complete the work..."

2. **Q: In the case where the mh will not pass the test under 910, it does not seem equitable to place all the burden for repair on the contractor for a mh that is in extremely poor condition. There is not a practical method to investigate these mhs prior to bid. There may be cases where a repair is not practical. Please consider a one-time test per the spec and all repairs will be negotiated through a change order.**

R: The specification requirements, including testing, are intended to apply to all work within the project. There will be no change order for additional work required for rehab work to pass test.

3. **Q: What is size and who is owner of underground telephone that is very close to bore pit on sheet 7.**

R: All underground are believed to be owned by AT&T; with the exception of a Verizon owned cable near the railroad tracks at 16+50. It is the responsibility of the Contractor to verify all existing utilities and ownership thereof as part of their scope.

4. **Q: More than likely the mhs called for rehab will have a 24" ring and cover. According to spec 851, these mhs will require a 30" and a new cone. Its understood that this is a pay item, however the 851 spec says mhs that receive the 30" will be considered under the Reconstruct MH spec. Please clarify how the rehab mhs are to be constructed and which spec to follow.**

R: For rehabilitated manholes, all rings and covers to be replaced (Item 851) will be replaced with equal size watertight rings and covers.

- 5. Q: There is a lateral on sheet sht 10 that appears to be in the proposed casing. Please provide additional information.**

R: Lateral shown on Sheet 10 approximately at station 15+93.47 currently conflicts with proposed casing. New lateral installation will need to be rerouted to connect to main outside of casing, at approximately station 15+74 (See revised sheet).

- 6. Q: Please provide flow for segment B bypass.**

R: There is no historical flow data for Segment B bypass flows; if 36-inch line at Flores and Alamo is diverted as suggested, only flows to be bypassed will be those from local businesses and residents on each main.

- 7. Q: Is there a proposed bypass plan for flows coming into MH 38316 sheet 19.**

R: Per callouts on Sheet 19, outlet of MH 38316 would be plugged, and sewage would be pumped from MH 66490

- 8. Q: How is the alternate TCP paid for? How will the use of this option be determined?**

R: Alternate TCP for full street closure is being deleted from the project (See Changes to the Drawings below).

- 9. Q: Is TCP for offsite bypass considered subsidiary to bypass?**

R: Any TCP required for bypass pumping is considered subsidiary to bypass pumping items 864-S1 and 864-S2.

- 10. Q: Are the concrete traffic barriers and work zone traffic marks subsidiary to the TCP?**

R: All required TCP components, including but not limited to traffic barriers and traffic marks, are subsidiary to the TCP item 530.1

- 11. Q: Is there existing casing under the railroad?**

R: Based on available information, it is believed there is not a casing under the railroad tracks.

- 12. Q: What type of material is the existing 24" under the railroad?**

R: Based on available information, it is believed all 24" pipe to be replaced is constructed of reinforced concrete.

- 13. Q: Railroad spec says inspector "may" be required. Please confirm and if so what is the daily cost?**

R: Requirement and cost for inspector is determined by UPRR.

- 14. Q: If abandoned railroad is removed rather than protected, does it need to be replaced according to a spec?**

R: Yes, abandoned railroad tracks near station 19+00 must be replaced if removed.

- 15. Q: Sheet 13 indicates trench repair along the entire length of line but the qty for 12" ATB do not reflect this. Is the same 12" ATB to be used on the laterals? Please clarify.**

R: Quantity of ATB (Item 206.1) in contract documents reflects estimate of final installation of pavement repairs based on plans: 12" depth across trench, lateral, manhole, and pit excavations. Any additional ATB required to comply with specifications (e.g. to provide all weather surface prior to final pavement restoration) is subsidiary to appropriate bid item, as described in SAWS Standard Specification 804.

16. Q: Please clarify how the erosion control items will be paid for since there are no pay items. Is this to be part of the SWPPP item? Without a SWPPP design, the cost of the items is hard to determine.

R: SWPPP is subsidiary to items that require SWPPP (e.g. excavation for items 854.1 and 848.0.

17. Q: The edge of the bore pits are closer that 50 to the tracks. RR policy states equipment and material shall be stored at least 50 ft from tracks. Is the edge of the pit a concern?

R: UPRR permit requirement is that casing extend at least 45 feet from the track centerline, which is what is currently reflected in the design.

18. Q: What is the speed and frequency of the trains?

R: Please contact UPRR for this information.

19. Q: Do pump and haul vendors need to be on an approved list?

R: Pump and haul vendors need to be licensed to discharge sanitary sewage.

20. Q: What is the proposed bypass plan for flows coming into MHA-1 STA 13+91.76 SEGMENT A. Does the 36" line at MH 23638 STA 14+74.97 flow east? Does a 36" line flow into this same MH?

R: Flows from 8" and 10" lines into MH A-1 are to be bypassed in the same manner planned for laterals elsewhere in the project.

For MH 23683, the flows enter from the 36" line at the north along Flores. The flows currently exit the MH in two directions: the 24" line to the south along Flores (the line to be replaced), and also the 36" line to the east along Alamo.

21. Q: Are water barriers an acceptable alternative to concrete barrier?

R: No.

CHANGES TO THE SPECIFICATIONS

The following Specifications have been changed:

BID PROPOSAL:

Page BP-2, Bid Proposal, Line No. 39, Change Item Number 901.0 to 910.0

CHANGES TO THE DRAWINGS

The following Drawings have been changed; revised drawings are attached to this Addendum:

Sheet 2: Summary of Quantities table was modified to correct Item 901.0 to 910.0

Sheet 10: Revision to show new lateral location at 15+93.47

Sheet 7-12: Callouts referencing reconnecting existing pipes to new manholes has been corrected where manholes are not being replaced.

Sheet 30-32: Alternative TCP has been removed

S. Keller Drozdick, P.E
Merrick & Company

END OF ADDENDUM

Flores 24" Rehab Project – DR. No 128 Project
CO-00107-SM

Line No.	Item No.	Description	Unit	Qty.	Unit Price	Total Price
1	202.1	Prime Coat (CoSA Item)	GAL	2,081	\$	\$
2	203.1	Tack Coat (CoSA Item)	GAL	1,041	\$	\$
3	205.3	Hot Mix Asphaltic Pavement, Type C (3" Comp. Depth) (Mill & Overlay) (CoSA Item)	SY	10,404	\$	\$
4	206.1	12" Asphalt Treated Base (CoSA Item)	SY	269	\$	\$
5	208.1	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement (3" Depth) (CoSA Item)	SY	10,404	\$	\$
6	413.1	Flowable Fill (Low Strength) (CoSA Item)	CY	161	\$	\$
7	500.2	Concrete Curb (Mono) (CoSA Item)	LF	647	\$	\$
8	502.1	Concrete Sidewalks (CoSA Item)	SY	30	\$	\$
9	530.1	Barricades, Signs And Traffic Handling (CoSA Item)	LS	1	\$	\$
10	535.1	4 Inch Wide Yellow Line (CoSA Item)	LF	9,048	\$	\$
11	535.2	4 Inch Wide White Line (CoSA Item)	LF	2,088	\$	\$
12	535.4	8 Inch Wide White Line (CoSA Item)	LF	3,943	\$	\$
13	535.7	24 Inch Wide White Line (CoSA Item)	LF	601	\$	\$
14	535.8	Right White Arrow (CoSA Item)	EA	1	\$	\$
15	535.9	Left White Arrow (CoSA Item)	EA	17	\$	\$
16	535.1	Word "Only" (CoSA Item)	EA	3	\$	\$
17	535.1	Railroad Crossing Symbol, Including Two R's, Crossbuck, And 3 Transverse Bars (CoSA Item)	EA	8	\$	\$
18	535.2	Straight White Arrow Bicycle Facility (CoSA Item)	EA	11	\$	\$
19	535.2	Bicycle Rider Symbol (CoSA Item)	EA	11	\$	\$
20	535.2	Solid Yellow Median Nose (CoSA Item)	EA	2	\$	\$
21	535.23	24 Inch Wide Yellow Line (CoSA Item)	LF	95	\$	\$
22	536.5	12 Inch Wide White Line (CoSA Item)	LF	30	\$	\$
23	537.6	Pavement Marker Type I-C (CoSA Item)	EA	82	\$	\$
24	537.8	Pavement Market Type II-A-A (CoSA Item)	EA	179	\$	\$
25	540.0	Storm Water Pollution Prevention Plan And Execution (CoSA Item)	LS	1	\$	\$
26	550.0	Trench Excavation Safety Protection	LF	1,252	\$	\$
27	848.0	24" PVC C-905 DR25 Sanitary Sewer Line (6'-14')	LF	1,252	\$	\$
28	851.0	Replace Existing Manhole Ring & Cover with Watertight Bolted Ring & Cover	EA	8	\$	\$
29	852.1	5' SS MH (0' - 6') W/ Watertight Bolted Cover	EA	1	\$	\$
30	852.2	5' Drop SS MH (0'-6') W/ Watertight Bolted Cover	EA	1	\$	\$
31	852.3	5' Dia Extra Depth Manholes (> 6')	VF	17	\$	\$
32	854.1	Sanitary Sewer Laterals (SDR 26, ASTM 2241, 160 Psi), w/ Two-Way Cleanout	LF	11	\$	\$
33	856.1	Jacking, Boring, Or Tunneling 36" (> 8' Depth)	LF	212	\$	\$
34	856.2	24" Carrier Pipe For Jacking, Boring, Tunneling	LF	212	\$	\$
35	856.3	Steel Casing 36"	LF	212	\$	\$
36	864-S1	Bypass Pumping, Small Diameter Sanitary Sewers	LS	1	\$	\$
37	864-S2	Bypass Pumping, Large Diameter Sanitary Sewers	LS	1	\$	\$
38	866.0	Post Construction Sewer TV Inspection (18"-24")	LF	1,464	\$	\$
39	910.0	Manhole and Sanitary Sewer Structure Rehab.	SF	1,881	\$	\$
40	100.1	Mobilization (Max 10% of items 1-39)	LS	1	\$	\$
41	101.0	Preparing Right Of Way (Max 5% of items 1-39)	LS	1	\$	\$
TOTAL BID AMOUNT						\$

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	SEGMENT A		SEGMENT B				PAVEMENT	PAVEMENT MARKINGS								TOTAL QUANTITY	
			SHEET 7	SHEET 8	SHEET 9	SHEET 10	SHEET 11	SHEET 12	SHEET 13	SHEET 33	SHEET 34	SHEET 35	SHEET 36	SHEET 37	SHEET 38	SHEET 39	SHEET 40		
100.1	MOBILIZATION	LS																1	
101.0	PREPARING RIGHT OF WAY	LS																1	
202.1	PRIME COAT (CoSA ITEM)	GAL								2,081								2,081	
203.1	TACK COAT (CoSA ITEM)	GAL								1,041								1,041	
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE C (3" COMP. DEPTH) (MILL & OVERLAY) (CoSA ITEM)	SY								10,404								10,404	
206.1	12" ASPHALT TREATED BASE (CoSA ITEM)	SY								269								269	
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (CoSA ITEM)	SY								10,404								10,404	
413.1	FLOWABLE FILL (LOW STRENGTH) (CoSA ITEM)	CY								161								161	
500.2	CONCRETE CURB (MONO) (CoSA ITEM)	LF	215	192	3	67	150	20										647	
502.1	CONCRETE SIDEWALKS	SY	10		6	6		8										30	
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (CoSA ITEM)	LS																1	
535.1	4 INCH WIDE YELLOW LINE	LF									1268	1126	1100	1232	616	978	1292	1436	9048
535.2	4 INCH WIDE WHITE LINE	LF													400	324	644	720	2088
535.4	8 INCH WIDE WHITE LINE	LF									693	873	640	545	886	306			3943
535.7	24 INCH WIDE WHITE LINE	LF										325	40			236			601
535.8	RIGHT WHITE ARROW	EA														1			1
535.9	LEFT WHITE ARROW	EA									2	5	2	2		2	2	2	17
535.1	WORD "ONLY"	EA										1				2			3
535.1	RAILROAD CROSSING SYMBOL, INCLUDING TWO R'S, CROSSBUCK, AND 3 TRANSVERSE BARS	EA											2		2	4			8
535.2	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA									2	4	3	2					11
535.2	BICYCLE RIDER SYMBOL	EA									2	4	3	2					11
535.2	SOLID YELLOW MEDIAN NOSE	EA										1	1						2
535.23	24 INCH WIDE YELLOW LINE	LF										20	75						95
536.5	12 INCH WIDE WHITE LINE	LF														30			30
537.6	PAVEMENT MARKER TYPE I-C	EA										2			30	16	16	18	82
537.8	PAVEMENT MARKET TYPE II-A-A	EA									16	42	24	16	33	14	16	18	179
540.0	STORM WATER POLLUTION PREVENTION PLAN (CoSA ITEM) AND EXECUTION	LS																	1
550.0	TRENCH EXCAVATION SAFETY PROTECTION	LF	208	168	288	272	191	125											1,252
848.0	24" PVC C-905 DR25 SANITARY SEWER LINE (6'-14')	LF	208	168	288	272	191	125											1,252
851.0	REPLACE EXISTING MANHOLE RING & COVER WITH WATERTIGHT BOLTED RING & COVER	EA	1	1	2	2	1	1											8
852.1	5' SANITARY SEWER MANHOLE (0' - 6') W/ WATERTIGHT BOLTED COVER	EA			1														1
852.2	5' DROP SS MANHOLE (0'-6') W/ WATERTIGHT BOLTED COVER	EA		1															1
852.3	5' DIA EXTRA DEPTH MANHOLES (> 6')	VF		9	8														17
854.1	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 160 PSI) W/ TWO-WAY CLEANOUT	EA	5		3	3													11
856.1	JACKING, BORING, OR TUNNELING 36" (> 8' DEPTH)	LF	90			18	104												212
856.2	24" CARRIER PIPE FOR JACKING, BORING, TUNNELING	LF	90			18	104												212
856.3	STEEL CASING 36"	LF	90			18	104												212
864-S1	BYPASS PUMPING, SMALL DIAMETER SANITARY SEWERS	LS																	1
864-S2	BYPASS PUMPING, LARGE DIAMETER SANITARY SEWERS	LS																	1
866.0	POST CONSTRUCTION SEWER TELEVISION INSPECTION (18"-24")	LF	298	168	288	290	295	125											1464
910.0	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	SF	261	244	451	468	244	213											1,881

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MERRICK & COMPANY
 401 East Sonterra Blvd. Suite 250
 San Antonio, TX 78258
 Tel: (210) 446-4343
 www.merrick.com
 TBPE FIRM REGISTRATION NO.: F-3911

ADDENDUM 3				2/3/17
No.	Revision	Drawn	Approved	Date

REVISIONS

FLORES 24-INCH REHAB PROJECT, DR 128

SUMMARY OF QUANTITIES

DEVELOPER: _____

CONT. _____ BUDGET PROJ. _____

SUBMITTED _____

APPROVED _____

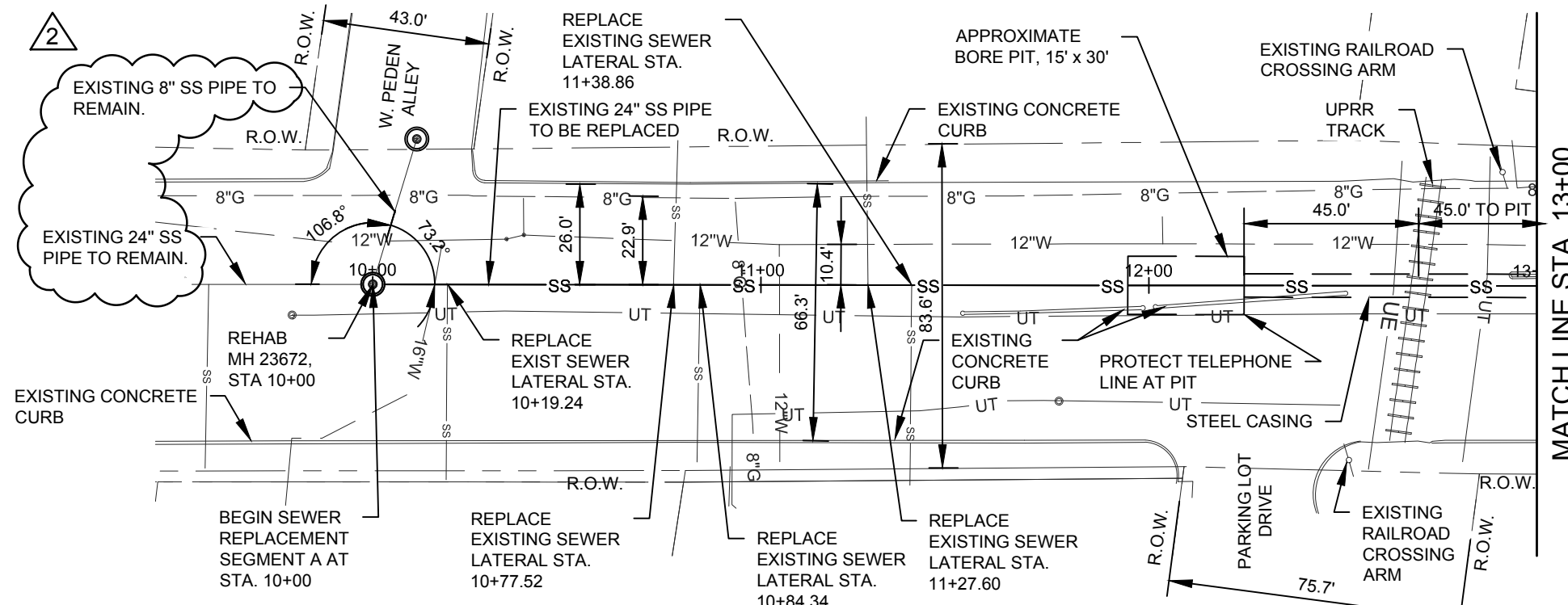
MAP No. _____ SHEET 2

SECT. No. _____

DR. EC CK. SKD JOB No. 14-4657 OF 67

Date: Feb 02, 2017, 3:25pm User ID: echavez File: G:\SM\Projects\19205-04-Flores St 24 In Rehab DR 128\Design\CAD\CAD\19205-04-02-Summary of Quantities.dwg

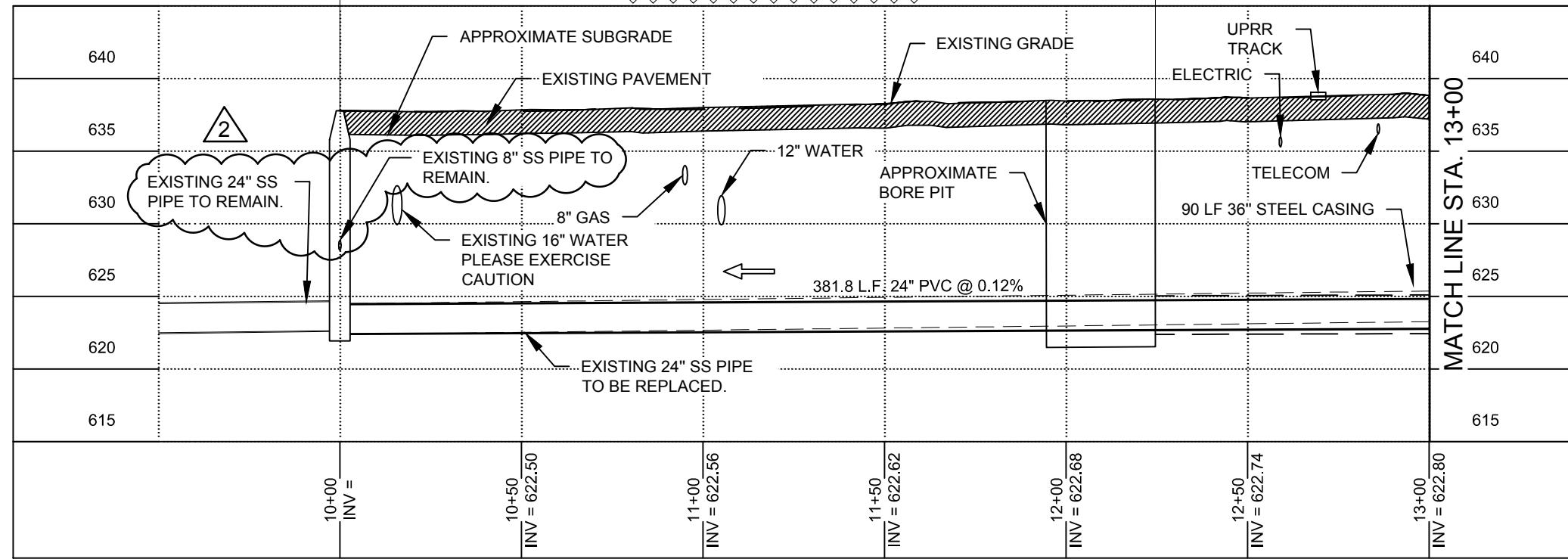
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1 SEGMENT A - PLAN SCALE: 1" = 40'

CAUTION: EXISTING GAS LINES PRESENT. EXERCISE CAUTION WHEN WORKING AROUND GAS LINES

CAUTION: EXISTING ELECTRIC LINES PRESENT. EXERCISE CAUTION WHEN WORKING AROUND ELECTRIC LINES



2 SEGMENT A - PROFILE HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 10'

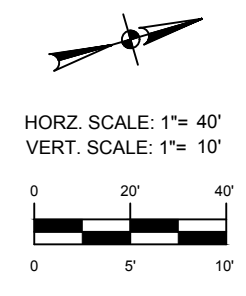
CAUTION: EXISTING TELECOM LINES PRESENT. EXERCISE CAUTION WHEN WORKING AROUND TELECOM LINES

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
500.2	CONCRETE CURB (MONO) (CoSA ITEM)	LF	215
502.1	CONCRETE SIDEWALKS	SY	10
550.0	TRENCH EXCAVATION SAFETY PROTECTION	LF	208
848.0	24" PVC C-905 DR25 SANITARY SEWER LINE (6'-14')	LF	208
851.0	REPLACE EXISTING MANHOLE RING & COVER WITH WATERTIGHT BOLTED RING & COVER	EA	1
854.1	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 160 PSI) W/ TWO-WAY CLEANOUT	EA	5
856.1	JACKING, BORING, OR TUNNELING 36" (> 8' DEPTH)	LF	90
856.2	24" CARRIER PIPE FOR JACKING, BORING, TUNNELING	LF	90
856.3	STEEL CASING 36"	LF	90
866.0	POST CONSTRUCTION SEWER TELEVISION INSPECTION (18"-24")	LF	298
901.0	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	SF	261

NOTE:
 The Contractor shall notify Jeff Supplee at 210-233-3569 or Juan C. Ramirez at (210) 233-3558 and SAWS E.O.C. at (210) 233-2015 a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the Smart Cover. Any damage done to the Smart Cover will be charged to the Contractor through a change order.

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

CONTRACTOR TO PROTECT ALL UTILITIES (NSPI).



MERRICK & COMPANY
 401 East Sonterra Blvd. Suite 250
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LEGEND	
PROP. SEWER MAIN	24" SS
SANITARY SEWER	8" SS
GAS MAIN	12" G
WATER MAIN	12" W
STORM DRAIN	24" SD
UNDERGROUND ELEC	UE
CABLE	
OVERHEAD ELECTRICAL	OHE
TELEPHONE CABLE	T
FIBER OPTIC	FO
PROP. SEWER MANHOLE	⊙
SEWER MANHOLE	⊙
TELEPHONE MANHOLE	⊙
ELECTRICAL MANHOLE	⊙
STORM DRAIN MANHOLE	⊙
GAS VALVE	⊙
WATER VALVE	⊙
RAILROAD CROSSING ARMS	+
FIRE HYDRANT	⊙
ASPHALT PAVEMENT	▨

REVISIONS			
No.	Revision	Drawn	Approved
3	ADDENDUM 3		2/3/17

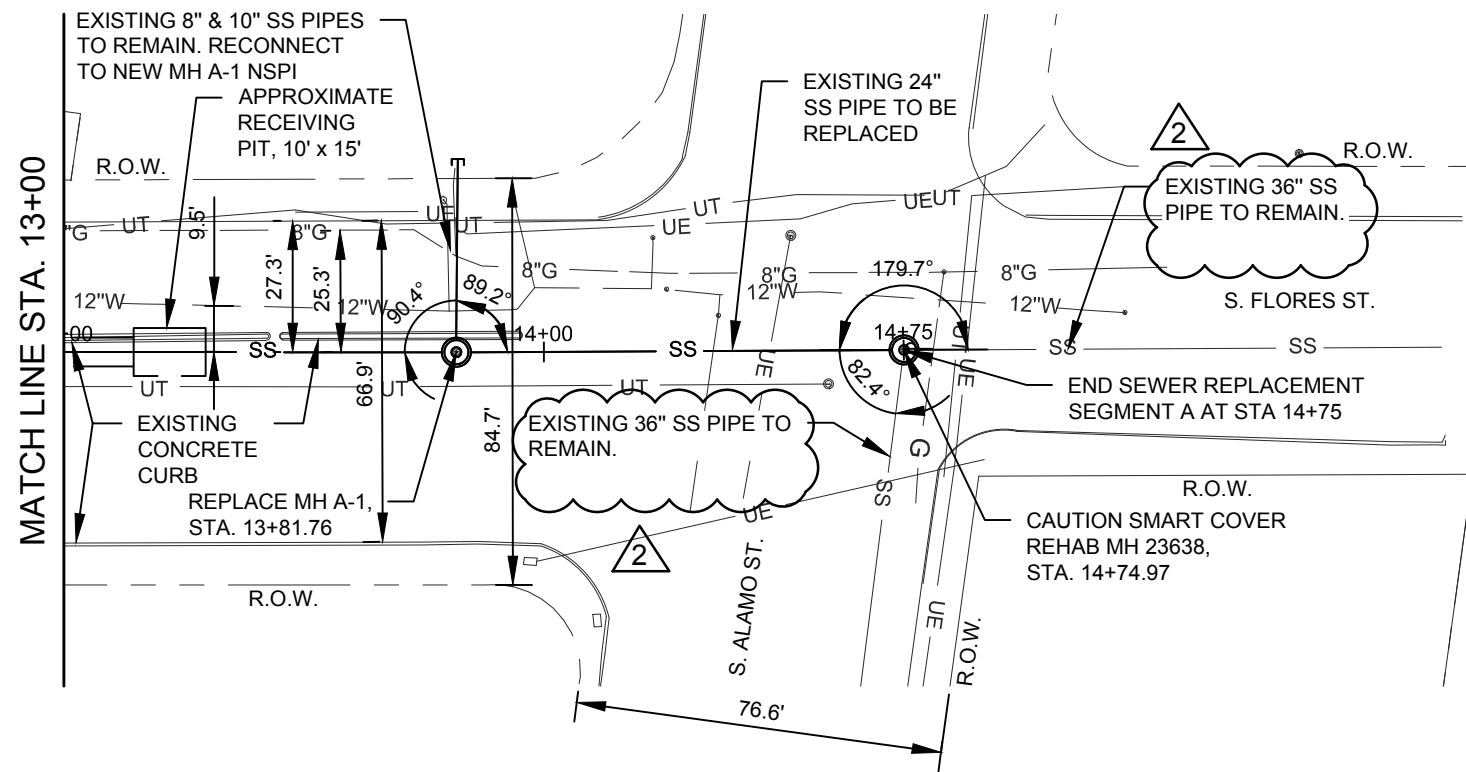
FLORES 24-INCH REHAB PROJECT, DR 128 SEGMENT A PLAN AND PROFILE STA. 10+00 TO 13+00

DEVELOPER: _____
 CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
 APPROVED _____

MAP No. _____ SHEET 7
 SECT. No. _____ OF 67
 DR. BI CK. SKD JOB No. 14-4657

Date: Feb 02, 2017, 3:27pm User ID: echevez
 File: G:\M\Projects\2017-04-Flores St 24 In Rehab DR 128\Design\CD\A\2022-04-08-Segment A - Plan and Profile Sta 13+00 TO 14+74.97.dwg



1 SEGMENT A - PLAN SCALE: 1" = 40'

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
500.2	CONCRETE CURB (MONO) (CoSA ITEM)	LF	192
550.0	TRENCH EXCAVATION SAFETY PROTECTION	LF	168
848.0	24" PVC C-905 DR25 SANITARY SEWER LINE (6'-14')	LF	168
851.0	REPLACE EXISTING MANHOLE RING & COVER WITH WATERTIGHT BOLTED RING & COVER	EA	1
852.2	5' DROP SS MANHOLE (0'-6') W/ WATERTIGHT HINGED COVER	EA	1
852.3	5' DIA EXTRA DEPTH MANHOLES (> 6')	VF	9
866.0	POST CONSTRUCTION SEWER TELEVISION INSPECTION (18"-24")	LF	168
901.0	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	SF	244

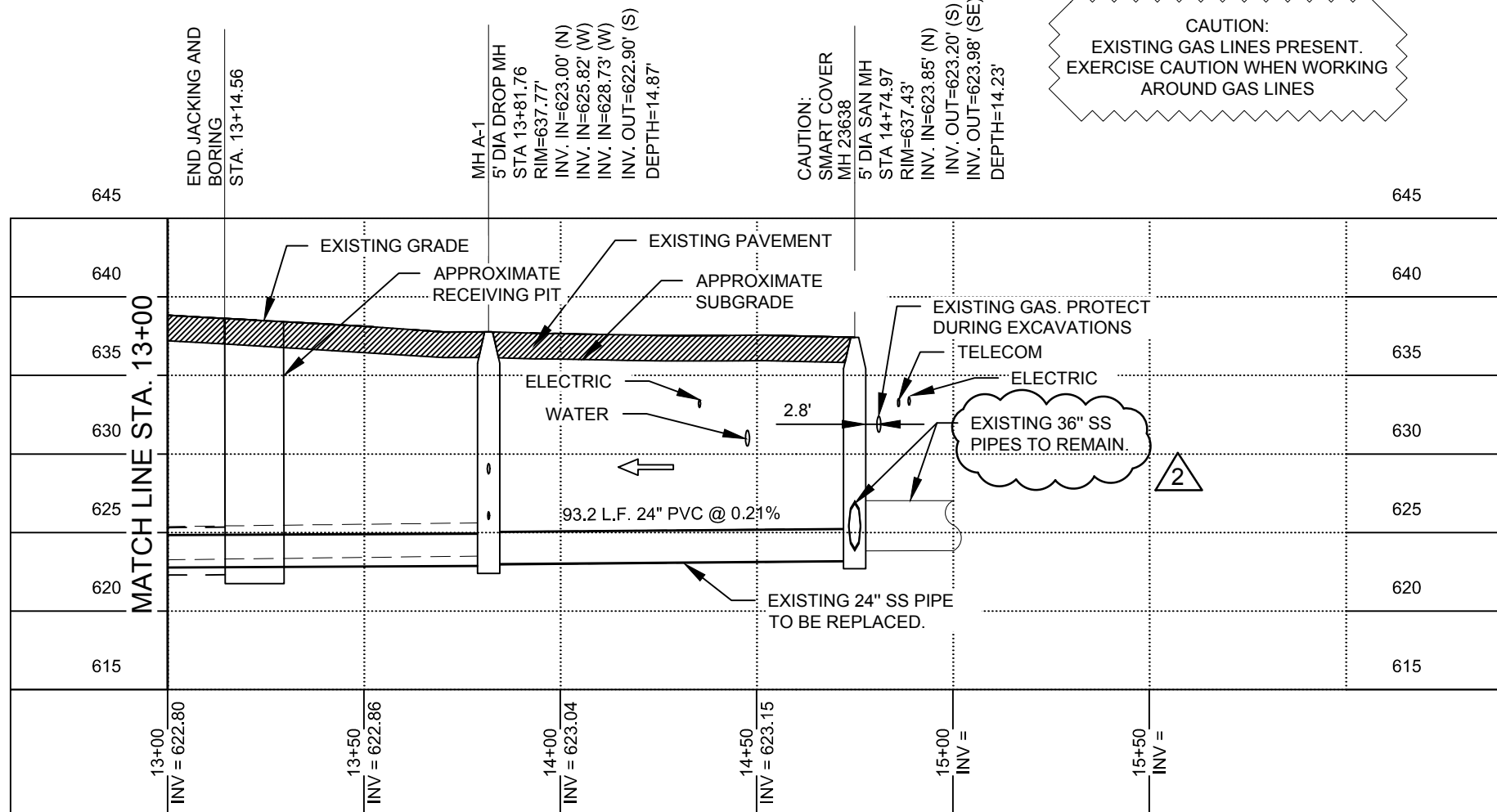
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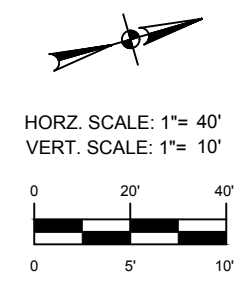
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 EXERCISE CAUTION WHEN WORKING AROUND ELECTRIC LINES

CAUTION:
 EXISTING GAS LINES PRESENT.
 EXERCISE CAUTION WHEN WORKING AROUND GAS LINES



2 SEGMENT A - PROFILE HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 10'



MERRICK & COMPANY
 401 East Sonterra Blvd. Suite 250 San Antonio, TX 78258 Tel: (210) 446-4343 www.merrick.com
 TBPE FIRM REGISTRATION NO.: F-3911

LEGEND	
PROP. SEWER MAIN	24" SS
SANITARY SEWER	8" SS
GAS MAIN	12" G
WATER MAIN	12" W
STORM DRAIN	24" SD
UNDERGROUND ELEC	UE
CABLE	
OVERHEAD ELECTRICAL	OHE
TELEPHONE CABLE	T
FIBER OPTIC	FO
PROP. SEWER MANHOLE	⊙
SEWER MANHOLE	⊙
TELEPHONE MANHOLE	⊙
ELECTRICAL MANHOLE	⊙
STORM DRAIN MANHOLE	⊙
GAS VALVE	⊙
WATER VALVE	⊙
RAILROAD CROSSING ARMS	+
FIRE HYDRANT	⊙
ASPHALT PAVEMENT	▨

REVISIONS				
No.	Revision	Drawn	Approved	Date
3	ADDENDUM 3			2/3/17

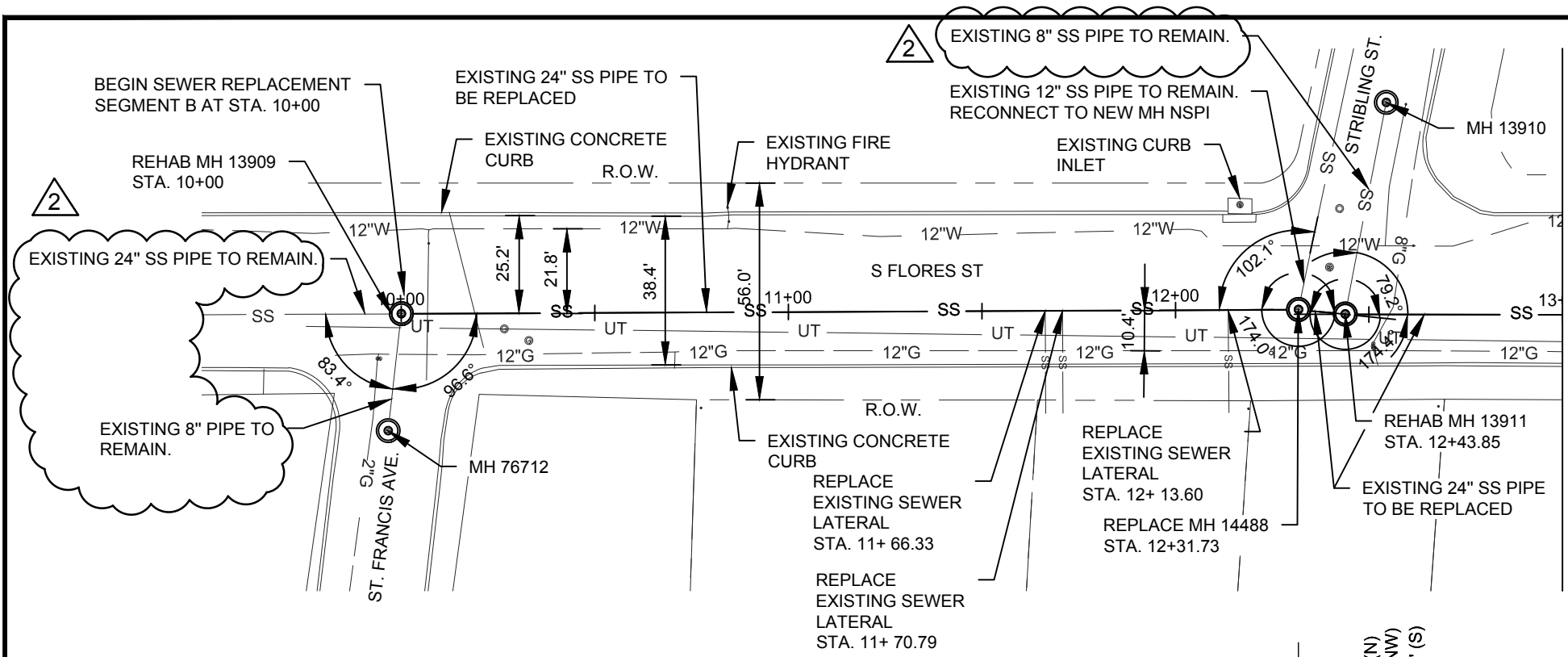
FLORES 24-INCH REHAB PROJECT, DR 128 SEGMENT A PLAN AND PROFILE STA. 13+00 TO 14+74.97

DEVELOPER: _____
 CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
 APPROVED _____

MAP No. _____ SHEET 8
 SECT. No. _____ OF 67
 DR. BI CK. SKD JOB No. 14-4657

Date: Feb 02, 2017, 3:29pm User ID: echavez
 File: G:\SM\Projects\1625-04-Flores St 24 in Rehab DR 128\Design\CD\1625-04-09-Segment B - Plan and Profile Sta 10+00 to 13+00.dwg



1 SEGMENT B - PLAN SCALE: 1" = 40'

CAUTION:
EXISTING TELECOM LINES PRESENT.
EXERCISE CAUTION WHEN WORKING
AROUND TELECOM LINES

CAUTION:
EXISTING GAS LINES PRESENT.
EXERCISE CAUTION WHEN WORKING
AROUND GAS LINES

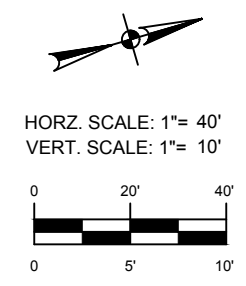
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
500.2	CONCRETE CURB (MONO) (CoSA ITEM)	LF	3
502.1	CONCRETE SIDEWALKS	SY	6
550.0	TRENCH EXCAVATION SAFETY PROTECTION	LF	288
848.0	24" PVC C-905 DR25 SANITARY SEWER LINE (6'-14')	LF	288
851.0	REPLACE EXISTING MANHOLE RING & COVER WITH WATERTIGHT BOLTED RING & COVER	EA	2
852.1	5' SANITARY SEWER MANHOLE (0' - 6') W/ WATERTIGHT HINGED COVER	EA	1
852.3	5' DIA EXTRA DEPTH MANHOLES (> 6')	VF	8
854.1	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 160 PSI) W/ TWO-WAY CLEANOUT	EA	3
866.0	POST CONSTRUCTION SEWER TELEVISION INSPECTION (18"-24")	LF	288
901.0	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	SF	451

NOTE:
The Contractor shall notify Jeff Supplee at 210-233-3569 or Juan C. Ramirez at (210) 233-3558 and SAWS E.O.C. at (210) 233-2015 a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the Smart Cover. Any damage done to the Smart Cover will be charged to the Contractor through a change order.

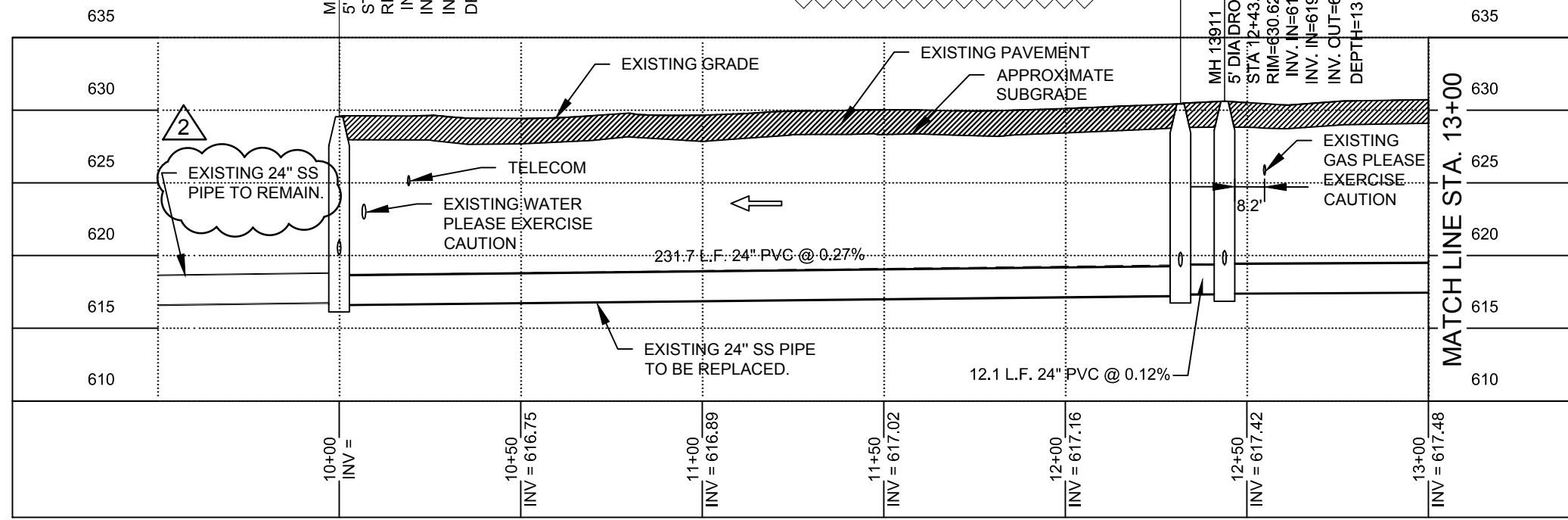
TRENCH EXCAVATION SAFETY PROTECTION NOTE:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK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

CONTRACTOR TO PROTECT ALL UTILITIES (NSPI).

NOTE:
WORK FROM CASSIANO TO STRIBLING SHALL BE PERFORMED BETWEEN JUNE 5, 2017 AND JULY 31, 2017.



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2 SEGMENT B - PROFILE HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 10'

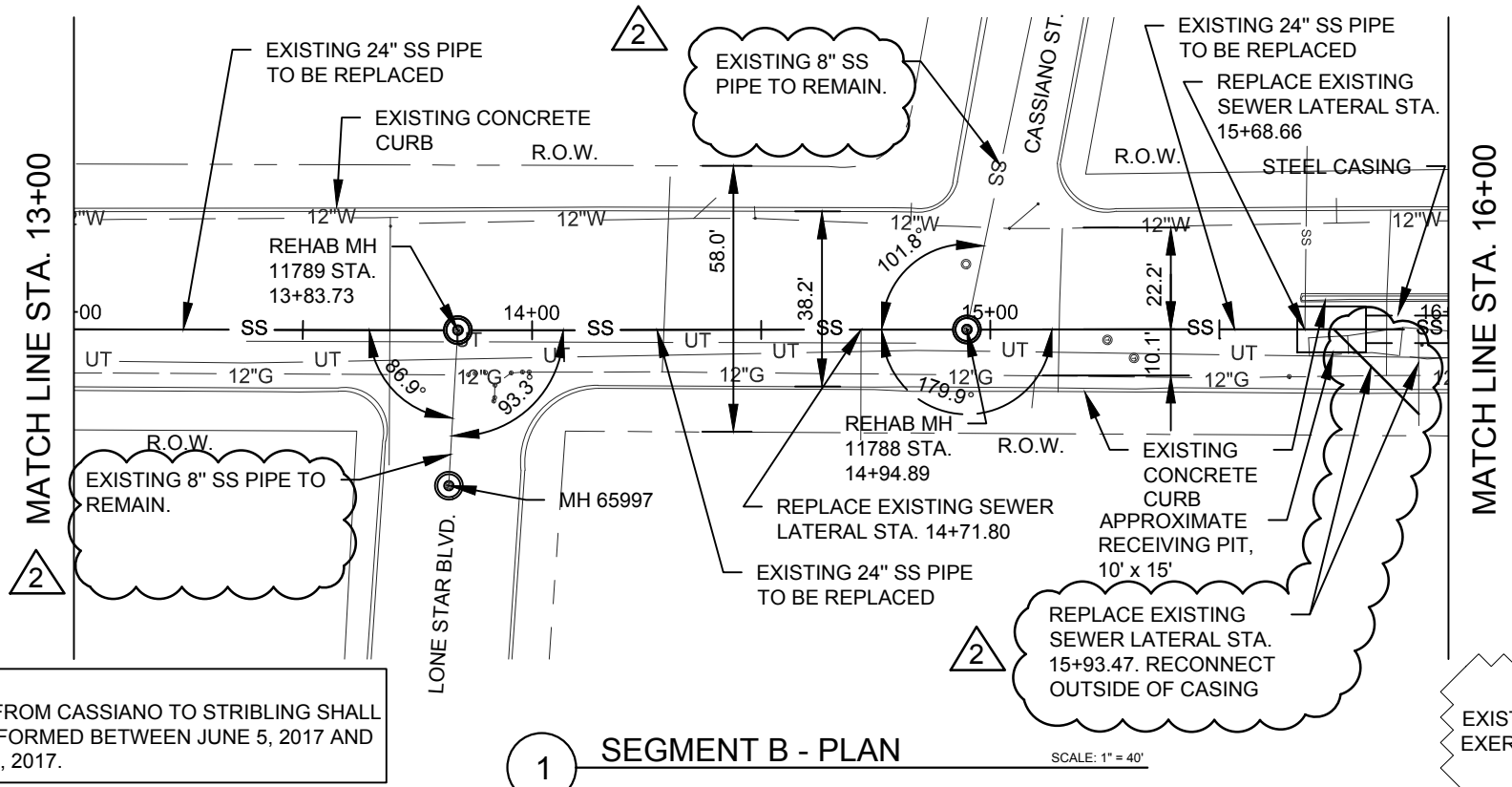
LEGEND	
PROP. SEWER MAIN	24" SS
SANITARY SEWER	8" SS
GAS MAIN	12" G
WATER MAIN	12" W
STORM DRAIN	24" SD
UNDERGROUND ELEC	UE
CABLE	
OVERHEAD ELECTRICAL	OHE
TELEPHONE CABLE	T
FIBER OPTIC	FO
PROP. SEWER MANHOLE	⊙
SEWER MANHOLE	⊙
TELEPHONE MANHOLE	⊙
ELECTRICAL MANHOLE	⊙
STORM DRAIN MANHOLE	⊙
GAS VALVE	⊙
WATER VALVE	⊙
RAILROAD CROSSING ARMS	+
FIRE HYDRANT	⊙
ASPHALT PAVEMENT	▨

REVISIONS				
No.	Revision	Drawn	Approved	Date
ADDENDUM 3				2/3/17

FLORES 24-INCH REHAB PROJECT, DR 128 SEGMENT B PLAN AND PROFILE STA. 10+00 TO 13+00

DEVELOPER:	
CONT.	BUDGET PROJ.
SUBMITTED	
APPROVED	
MAP No.	
SECT. No.	
DR. BI	CK. SKD
JOB No. 14-4657	SHEET 9 OF 67

Date: Feb 02, 2017, 3:30pm User ID: echavez
 File: G:\MK\Projects\2017-04-Flores St 24 in Rehab DR 128\Design\CD\13-02-04-10-Segment B - Plan and Profile Sat 13+00 to 16+00.dwg



1 SEGMENT B - PLAN SCALE: 1" = 40'

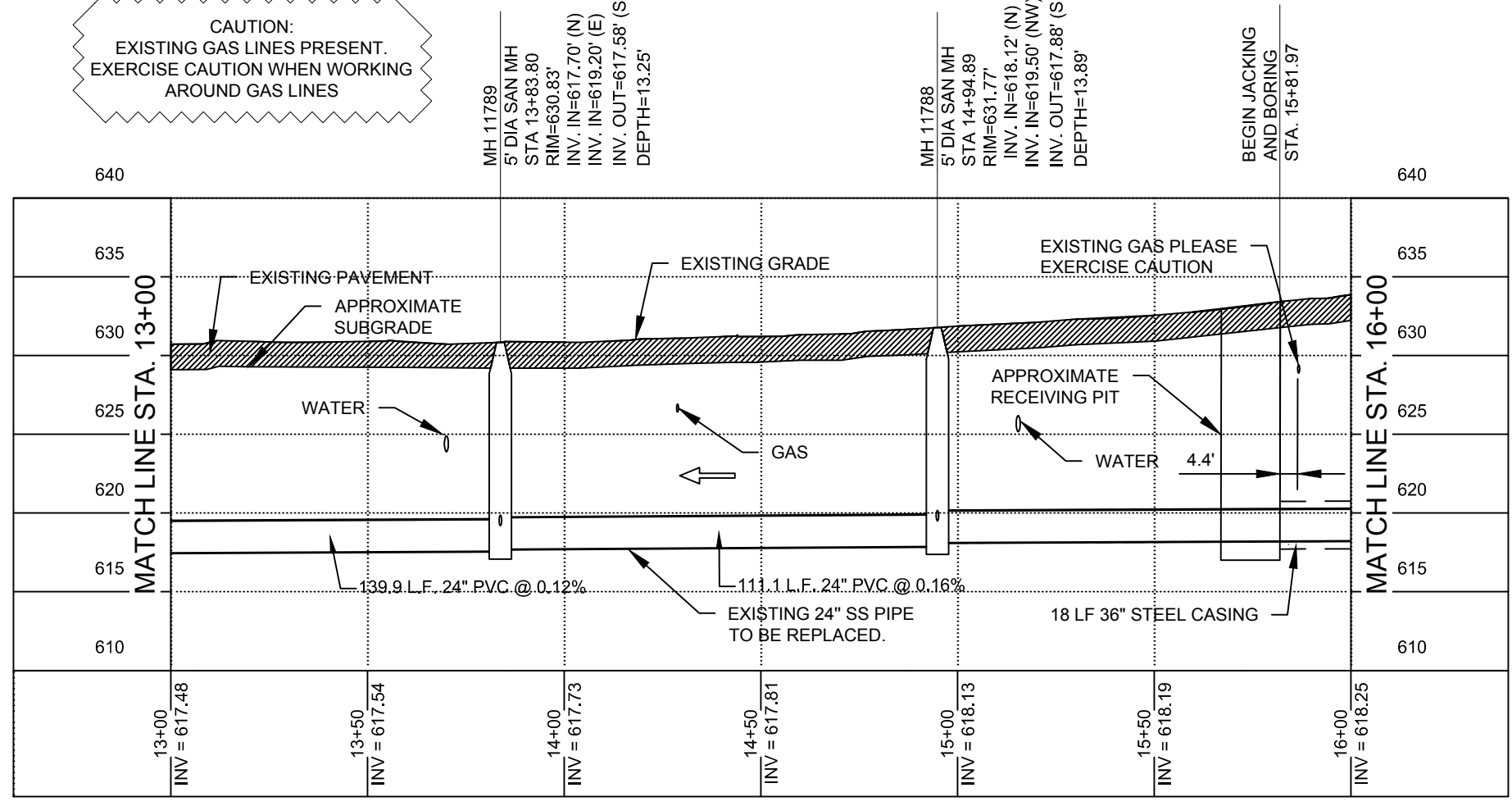
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
500.2	CONCRETE CURB (MONO) (CoSA ITEM)	LF	67
502.1	CONCRETE SIDEWALKS	SY	6
550.0	TRENCH EXCAVATION SAFETY PROTECTION	LF	272
848.0	24" PVC C-905 DR25 SANITARY SEWER LINE (6'-14')	LF	272
851.0	REPLACE EXISTING MANHOLE RING & COVER WITH WATERTIGHT BOLTED RING & COVER	EA	2
854.1	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 160 PSI) W/ TWO-WAY CLEANOUT	EA	3
856.1	JACKING, BORING, OR TUNNELING 36" (> 8' DEPTH)	LF	18
856.2	24" CARRIER PIPE FOR JACKING, BORING, TUNNELING	LF	18
856.3	STEEL CASING 36"	LF	18
866.0	POST CONSTRUCTION SEWER TELEVISION INSPECTION (18"-24")	LF	290
901.0	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	SF	468

NOTE:
 The Contractor shall notify Jeff Supplee at 210-233-3569 or Juan C. Ramirez at (210) 233-3558 and SAWS E.O.C. at (210) 233-2015 a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the Smart Cover. Any damage done to the Smart Cover will be charged to the Contractor through a change order.

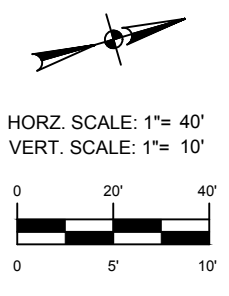
TRENCH EXCAVATION SAFETY PROTECTION NOTE:
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT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

CAUTION:
 EXISTING TELECOM LINES PRESENT. EXERCISE CAUTION WHEN WORKING AROUND TELECOM LINES

CAUTION:
 EXISTING GAS LINES PRESENT. EXERCISE CAUTION WHEN WORKING AROUND GAS LINES



2 SEGMENT B - PROFILE HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 10'



LEGEND	
PROP. SEWER MAIN	24" SS
SANITARY SEWER	8" SS
GAS MAIN	12" G
WATER MAIN	12" W
STORM DRAIN	24" SD
UNDERGROUND ELEC	UE
CABLE	
OVERHEAD ELECTRICAL	OHE
TELEPHONE CABLE	T
FIBER OPTIC	FO
PROP. SEWER MANHOLE	⊙
SEWER MANHOLE	⊙
TELEPHONE MANHOLE	⊙
ELECTRICAL MANHOLE	⊙
STORM DRAIN MANHOLE	⊙
GAS VALVE	⊙
WATER VALVE	⊙
RAILROAD CROSSING ARMS	+
FIRE HYDRANT	⊙
ASPHALT PAVEMENT	▨

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 www.merrick.com
 TBPE FIRM REGISTRATION NO.: F-3911

No.	Revision	Drawn	Approved	Date
ADDENDUM 3				2/3/17

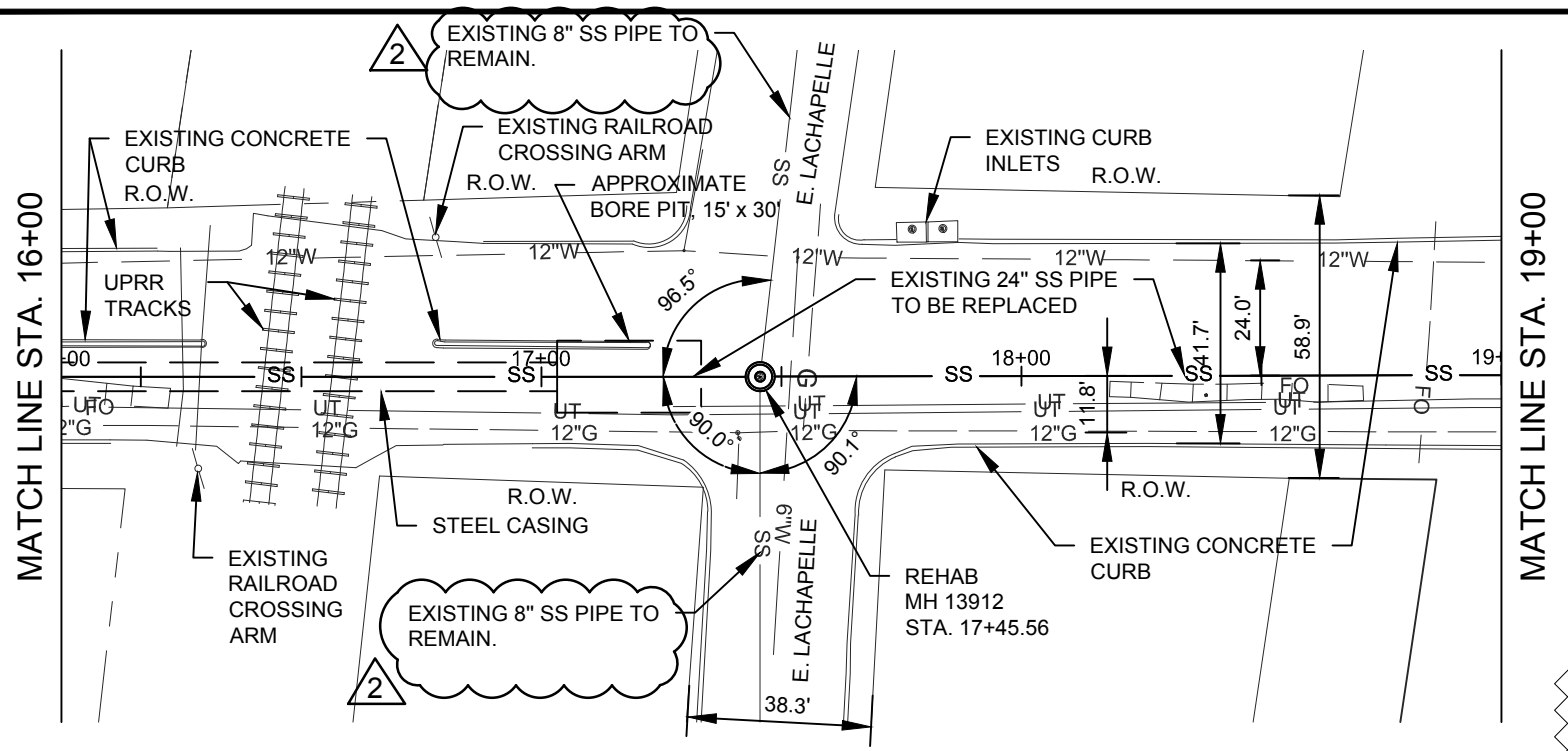
REVISIONS

FLORES 24-INCH REHAB PROJECT, DR 128 SEGMENT B PLAN AND PROFILE STA. 13+00 TO 16+00

DEVELOPER: _____
 CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
 APPROVED _____

MAP No. _____ SHEET 10
 SECT. No. _____ OF 67
 DR. BI CK. SKD JOB No. 14-4657



1 SEGMENT B - PLAN SCALE: 1" = 40'

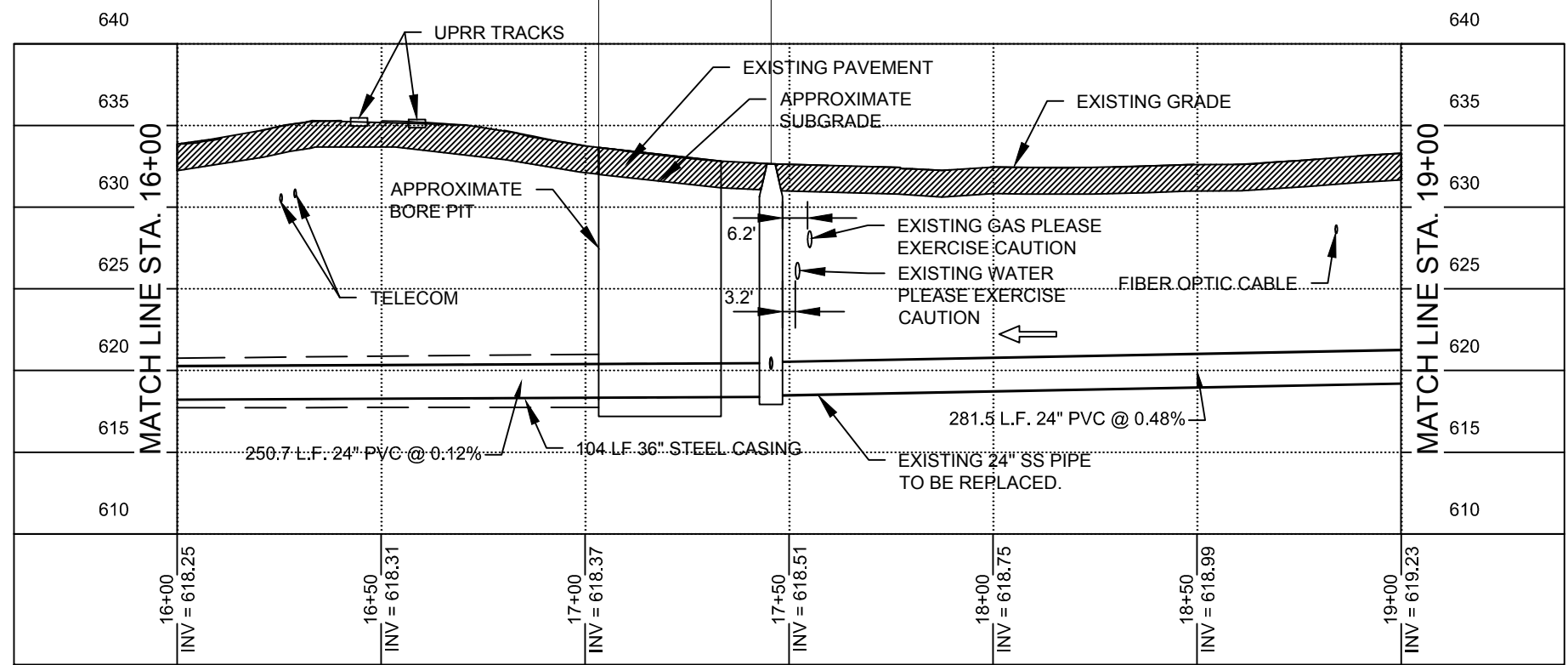
CAUTION:
EXISTING TELECOM LINES PRESENT.
EXERCISE CAUTION WHEN WORKING
AROUND TELECOM LINES

CAUTION:
EXISTING GAS LINES PRESENT.
EXERCISE CAUTION WHEN WORKING
AROUND GAS LINES

CAUTION:
EXISTING FIBER OPTIC CABLE
PRESENT.
EXERCISE CAUTION WHEN WORKING
AROUND FIBER OPTIC CABLES

END JACKING AND BORING
STA. 17+03.29

MH 13912
5' DIA SAN MH
STA 17+45.56
RIM=632.65'
INV. IN=618.49' (N)
INV. IN=620.15' (E)
INV. IN=620.07' (NW)
INV. OUT=618.42' (S)
DEPTH=14.23'

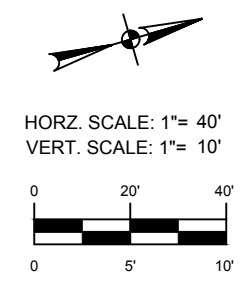


2 SEGMENT B - PROFILE HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
500.2	CONCRETE CURB (MONO) (CoSA ITEM)	LF	150
550.0	TRENCH EXCAVATION SAFETY PROTECTION	LF	191
848.0	24" PVC C-905 DR25 SANITARY SEWER LINE (6'-14')	LF	191
851.0	REPLACE EXISTING MANHOLE RING & COVER WITH WATERTIGHT BOLTED RING & COVER	EA	1
856.1	JACKING, BORING, OR TUNNELING 36" (> 8' DEPTH)	LF	104
856.2	24" CARRIER PIPE FOR JACKING, BORING, TUNNELING	LF	104
856.3	STEEL CASING 36"	LF	104
866.0	POST CONSTRUCTION SEWER TELEVISION INSPECTION (18"-24")	LF	295
901.0	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	SF	244

NOTE:
The Contractor shall notify Jeff Supplee at 210-233-3569 or Juan C. Ramirez at (210) 233-3558 and SAWS E.O.C. at (210) 233-2015 a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the Smart Cover. Any damage done to the Smart Cover will be charged to the Contractor through a change order.

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Tel: (210) 446-4343
www.merrick.com
TBPE FIRM REGISTRATION NO.: F-3911

LEGEND	
PROP. SEWER MAIN	24" SS
SANITARY SEWER	8" SS
GAS MAIN	12" G
WATER MAIN	12" W
STORM DRAIN	24" SD
UNDERGROUND ELEC	UE
CABLE	
OVERHEAD ELECTRICAL	OHE
TELEPHONE CABLE	T
FIBER OPTIC	FO
PROP. SEWER MANHOLE	⊙
SEWER MANHOLE	⊙
TELEPHONE MANHOLE	⊙
ELECTRICAL MANHOLE	⊙
STORM DRAIN MANHOLE	⊙
GAS VALVE	⊙
WATER VALVE	⊙
RAILROAD CROSSING ARMS	+
FIRE HYDRANT	⊙
ASPHALT PAVEMENT	▨

REVISIONS				
No.	Revision	Drawn	Approved	Date
3	ADDENDUM 3			2/3/17

FLORES 24-INCH REHAB PROJECT, DR 128 SEGMENT B PLAN AND PROFILE STA. 16+00 TO 19+00

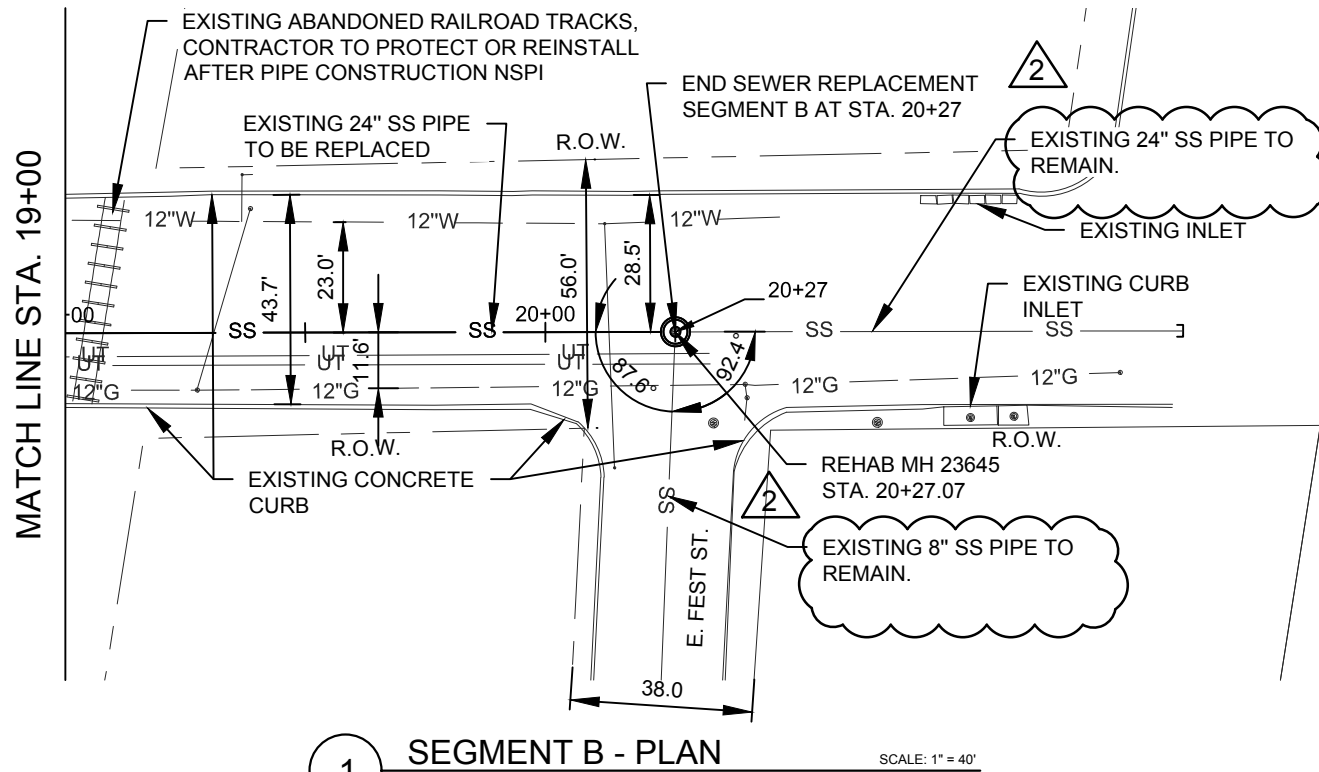
DEVELOPER: _____
CONT. _____ BUDGET PROJ. _____

SUBMITTED _____
APPROVED _____

MAP No. _____ SHEET 11
SECT. No. _____ OF 67
DR. BI CK. SKD JOB No. 14-4657

Date: Feb 02, 2017, 3:31pm User ID: echovetz
File: G:\SM\Projects\1602-04-Flores St 24 In Rehab DR 128\Design\CD\1602-04-11-Segment B - Plan and Profile Sta 16+00 to 19+00.dwg

Date: Feb 02, 2017, 3:32pm User ID: echavez
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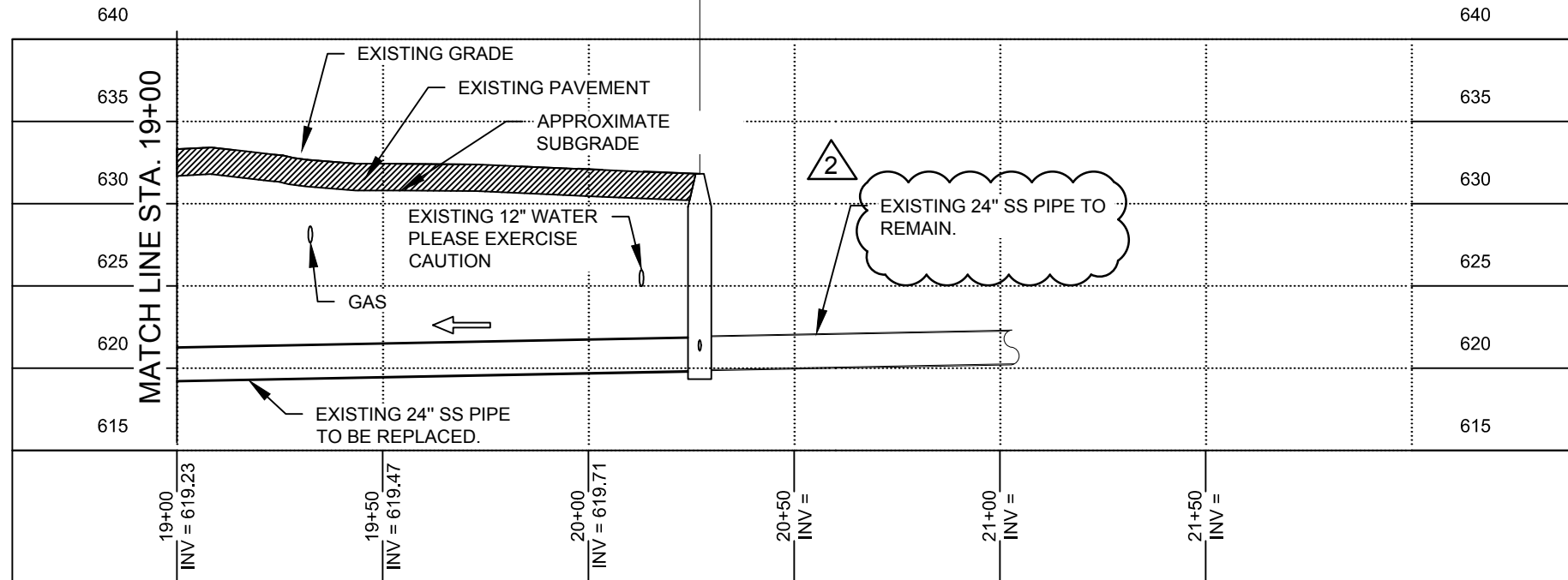


1 SEGMENT B - PLAN SCALE: 1" = 40'

CAUTION:
 EXISTING GAS LINES PRESENT.
 EXERCISE CAUTION WHEN WORKING
 AROUND GAS LINES

MH 23645
 5' DIA SAN MH
 STA 20+27.07
 RIM=631.81'
 INV. IN=621.05' (E)
 INV. IN=619.83' (N)
 INV. OUT=619.84' (S)
 DEPTH=11.98'

CAUTION:
 EXISTING TELECOM LINES PRESENT.
 EXERCISE CAUTION WHEN WORKING
 AROUND TELECOM LINES



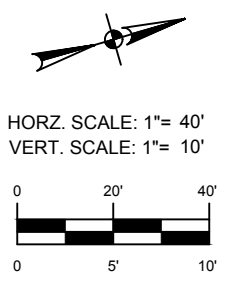
2 SEGMENT B - PROFILE HORIZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 10'

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
500.2	CONCRETE CURB (MONO) (CoSA ITEM)	LF	20
502.1	CONCRETE SIDEWALKS	SY	8
550.0	TRENCH EXCAVATION SAFETY PROTECTION	LF	125
848.0	24" PVC C-905 DR25 SANITARY SEWER LINE (6'-14')	LF	125
851.0	REPLACE EXISTING MANHOLE RING & COVER WITH WATERTIGHT BOLTED RING & COVER	EA	1
866.0	POST CONSTRUCTION SEWER TELEVISION INSPECTION (18"-24")	LF	125
901.0	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	SF	213

NOTE:
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CONTRACTOR TO PROTECT ALL UTILITIES (NSPI).



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 San Antonio, TX 78258
 Tel: (210) 446-4343
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LEGEND	
PROP. SEWER MAIN	24" SS
SANITARY SEWER	8" SS
GAS MAIN	12" G
WATER MAIN	12" W
STORM DRAIN	24" SD
UNDERGROUND ELEC	UE
CABLE	
OVERHEAD ELECTRICAL	OHE
TELEPHONE CABLE	T
FIBER OPTIC	FO
PROP. SEWER MANHOLE	⊙
SEWER MANHOLE	⊙
TELEPHONE MANHOLE	⊙
ELECTRICAL MANHOLE	⊙
STORM DRAIN MANHOLE	⊙
GAS VALVE	⊙
WATER VALVE	⊙
RAILROAD CROSSING ARMS	+
FIRE HYDRANT	⊙
ASPHALT PAVEMENT	▨

No.	Revision	Drawn	Approved	Date
ADDENDUM 3				2/3/17

REVISIONS

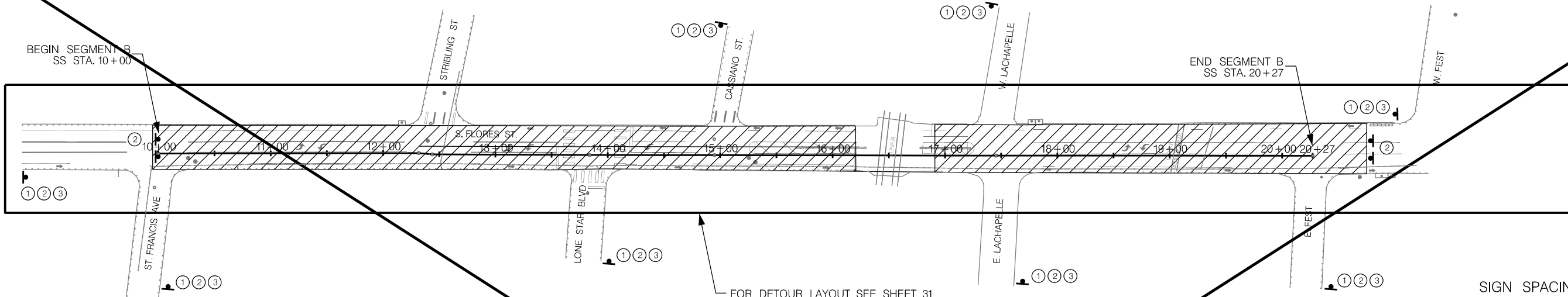
FLORES 24-INCH REHAB PROJECT, DR 128 SEGMENT B PLAN AND PROFILE STA. 19+00 TO 20+27.06

DEVELOPER: _____
 CONT. _____ BUDGET PROJ. _____

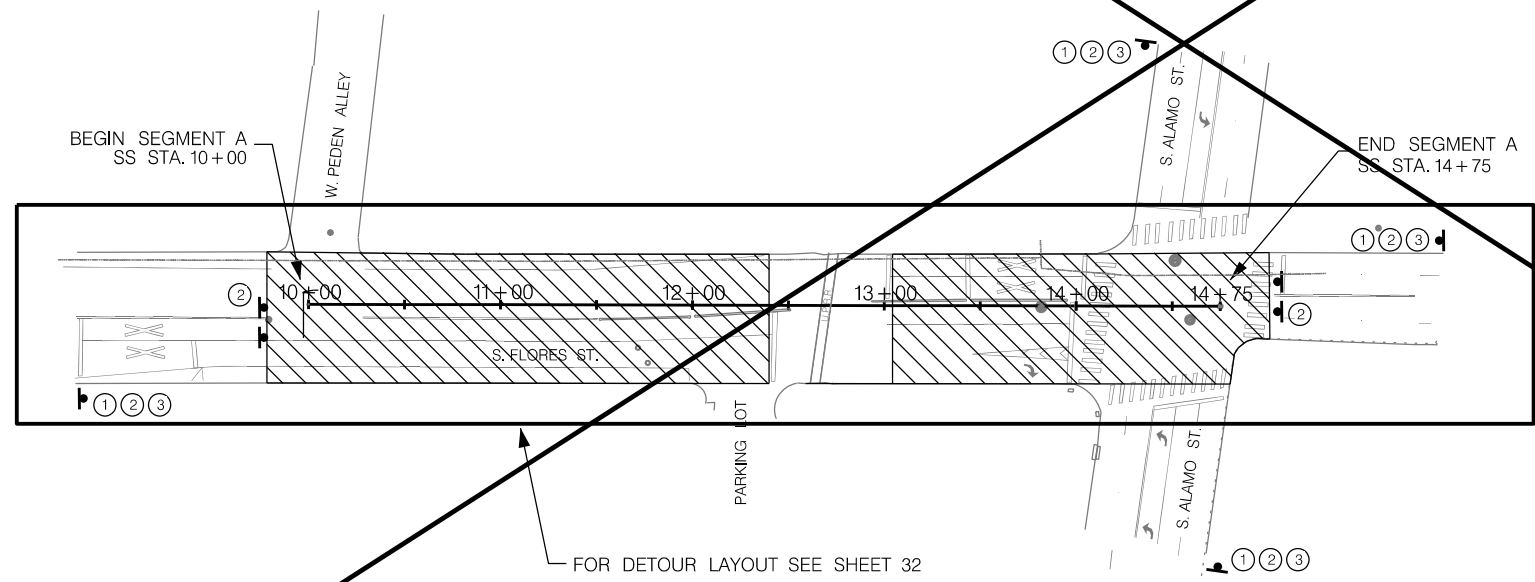
SUBMITTED _____
 APPROVED _____

MAP No. _____ SHEET 12
 SECT. No. _____ OF 67
 DR. BI CK. SKD JOB No. 14-4657

O:\SAN\Projects\9202-04-Flores St. 24 In Rehab DR. 128\Design\CDs\Traffic\9202-04+S_SAWS FLORES ST_TCP_OVERALL_ALTERNATE.dgn



1 ROAD CLOSURE LAYOUT ALTERNATIVE – SEGMENT B SCALE: 1" = 100'



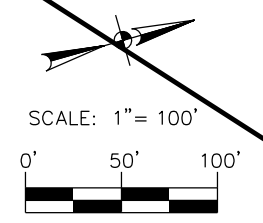
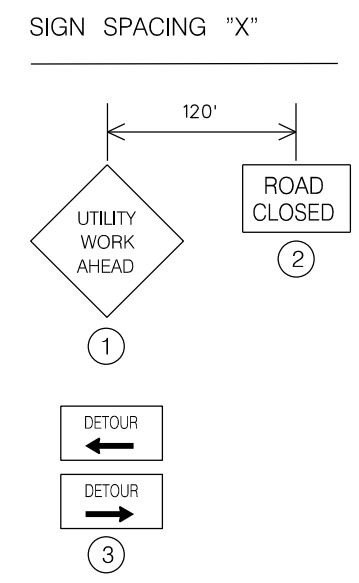
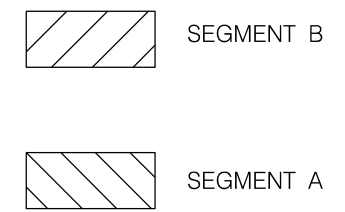
2 ROAD CLOSURE LAYOUT ALTERNATIVE – SEGMENT A SCALE: 1" = 100'

NOTES

PLEASE NOTE ADDITIONAL BARRICADES, SIGNAGE, TRAFFIC CHANNELIZATION DEVICES, ETC. IN ACCORDANCE WITH CURRENT TEXAS MUTCD STANDARDS MAY BE REQUIRED. SIGNS SHOWN ARE IN APPROXIMATE LOCATIONS AND MAY BE ADJUSTED TO SUIT SITE CONDITIONS.

CONSTRUCT TEMPORARY WORK ZONE PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS FOR TxDOT ITEM 662 EXCEPT FOR PAYMENT. PAYMENT SHALL BE SUBSIDIARY TO COSA ITEM 530.1 BARRICADES, SIGNS, AND TRAFFIC HANDLING. THE CONTRACTOR SHALL CONTACT THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS SECTION PRIOR TO ANY MODIFICATIONS TO TRAFFIC SIGNS OR TRAFFIC SIGNALS.

REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS OR AS DIRECTED. IN ACCORDANCE WITH COSA ITEM 533 CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS. PAYMENT SHALL BE SUBSIDIARY TO COSA ITEM 530.1 BARRICADES, SIGNS, AND TRAFFIC HANDLING.



2 SHEET DELETED IN ITS ENTIRETY

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 TBPE FIRM REGISTRATION NO.: F-3911

ADDENDUM 3					2/3/17
No.	Revision	Drawn	Approved	Date	

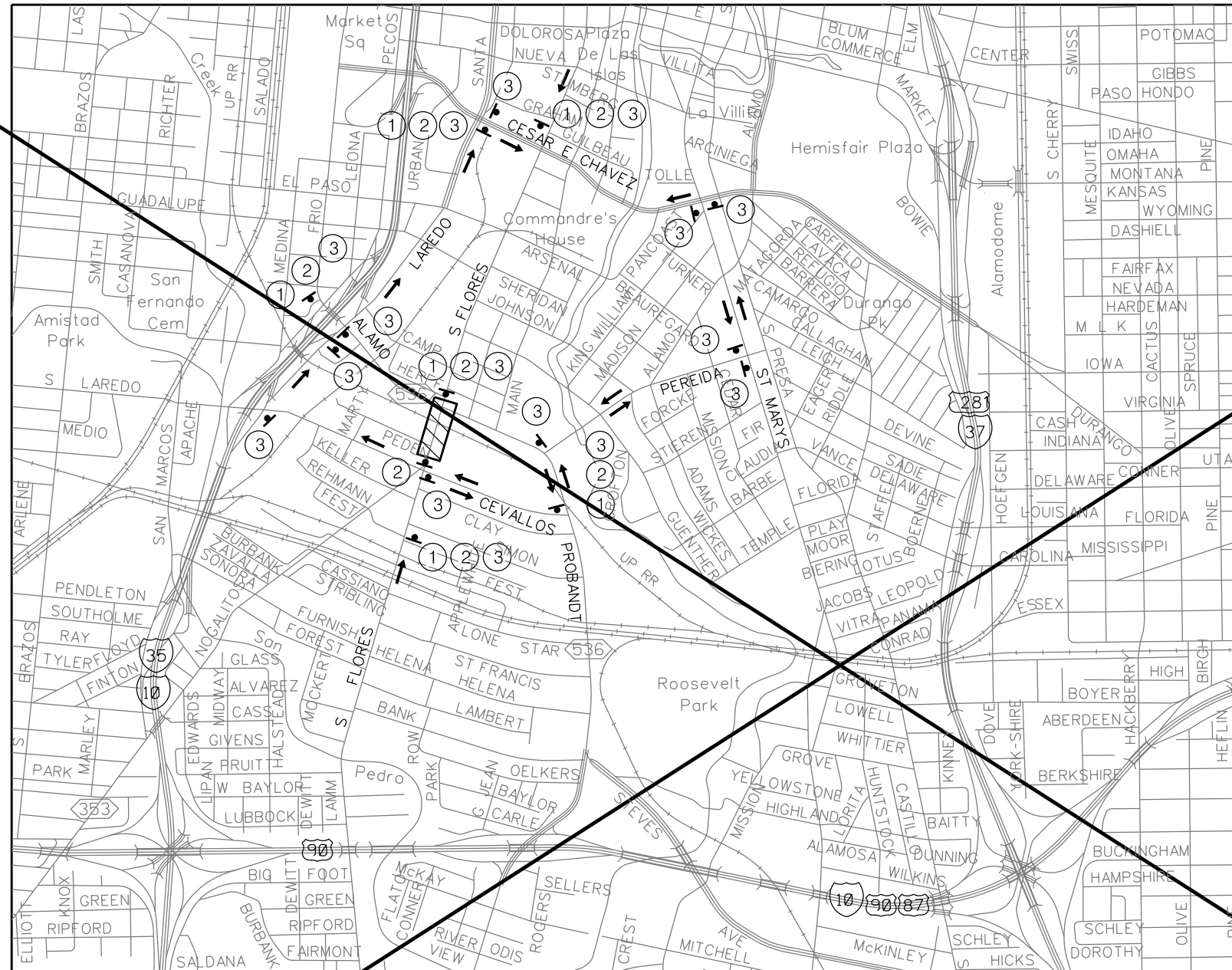
REVISIONS

FLORES 24-INCH REHAB PROJECT, DR 128

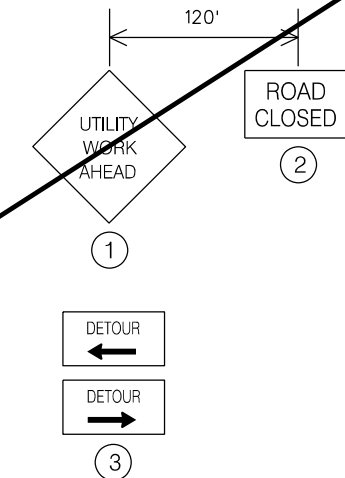
TRAFFIC CONTROL PLAN ROAD CLOSURE LAYOUT ALTERNATIVE

DEVELOPER:		BUDGET PROJ.	
CONT.			
SUBMITTED			
APPROVED			
MAP No.	DR. MG	CK. KD	JOB No. 14-4657
SECT. No.			SHEET 30
			OF 67





SIGN SPACING "X"



NOTES

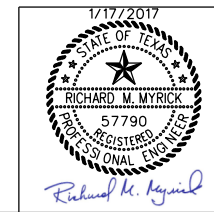
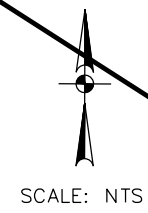
PLEASE NOTE ADDITIONAL BARRICADES, SIGNAGE, TRAFFIC CHANNELIZATION DEVICES, ETC. IN ACCORDANCE WITH CURRENT TEXAS MUTCD STANDARDS MAY BE REQUIRED. SIGNS SHOWN ARE IN APPROXIMATE LOCATIONS AND MAY BE ADJUSTED TO SUIT SITE CONDITIONS.

CONSTRUCT TEMPORARY WORK ZONE PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS FOR DOT ITEM 662 EXCEPT FOR PAYMENT. PAYMENT SHALL BE SUBSIDIARY TO COSA ITEM 530.1 BARRICADES, SIGNS, AND TRAFFIC HANDLING. THE CONTRACTOR SHALL CONTACT THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS SECTION PRIOR TO ANY MODIFICATIONS TO TRAFFIC SIGNS OR TRAFFIC SIGNALS.

REMOVE EXISTING PAVEMENT MARKINGS WHERE IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS OR AS DIRECTED. IN ACCORDANCE WITH COSA ITEM 533 CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS. PAYMENT SHALL BE SUBSIDIARY TO COSA ITEM 530.1 BARRICADES, SIGNS, AND TRAFFIC HANDLING.



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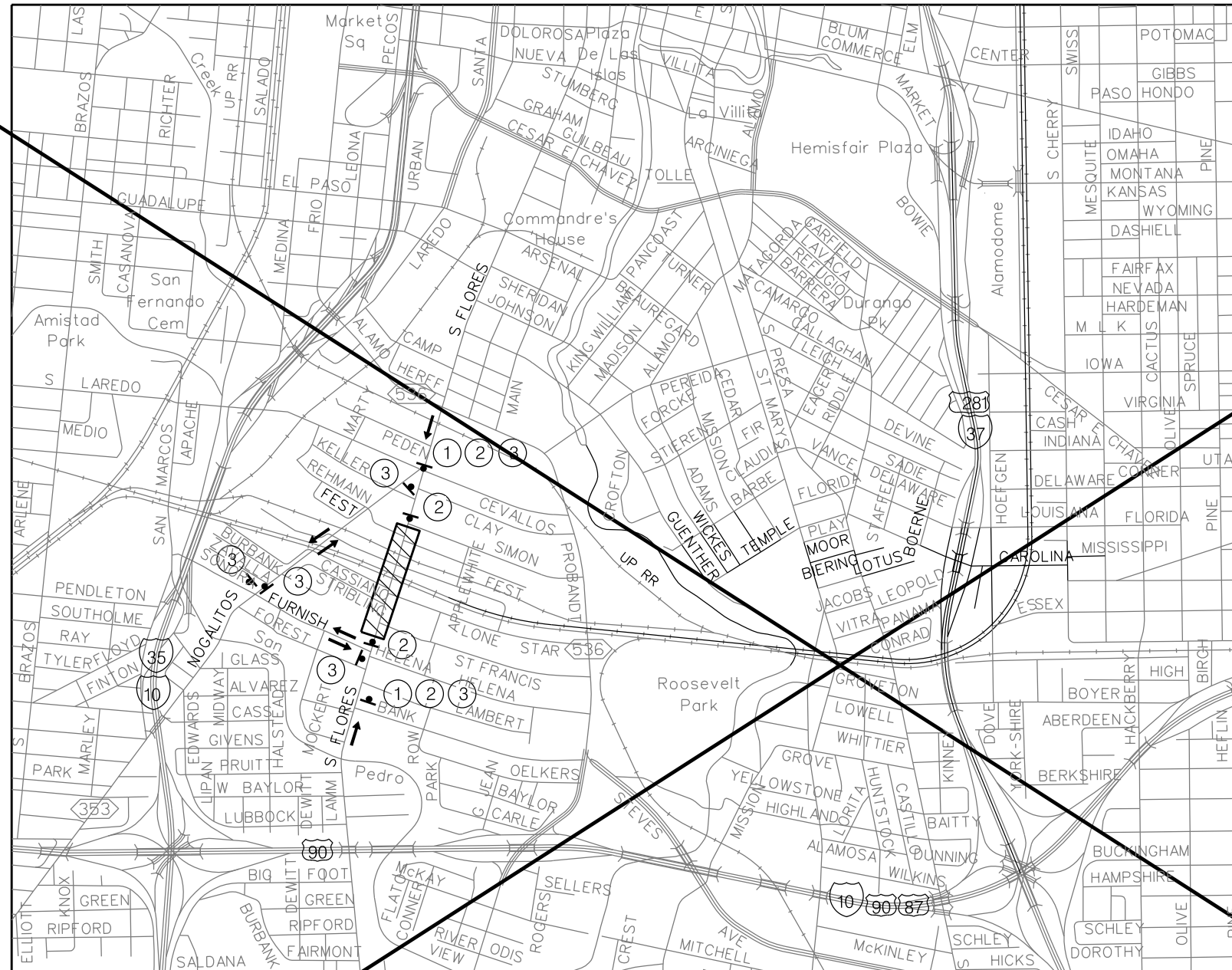
MERRICK & COMPANY 401 East Sonterra Blvd. Suite 250 San Antonio, TX 78258 Tel: (210) 446-4343 www.merrick.com
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ADDENDUM 3					2/3/17
No.	Revision	Drawn	Approved	Date	

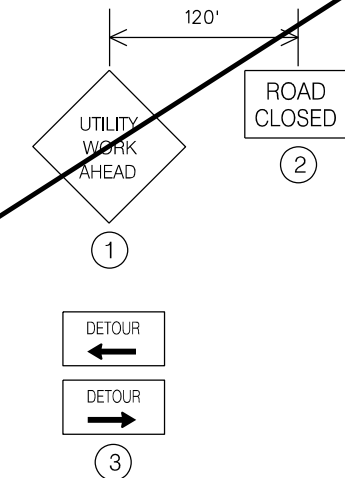
REVISIONS
 FLORES 24-INCH REHAB PROJECT, DR 128
 TRAFFIC CONTROL PLAN
 ROAD DETOUR LAYOUT
 ALTERNATIVE - SEGMENT A

DEVELOPER:		BUDGET PROJ.	
CONT.			
SUBMITTED			
APPROVED			
MAP No.	DR. MG	CK. KD	JOB No. 14-4657
SECT. No.			SHEET 32
			OF 67

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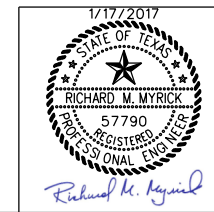
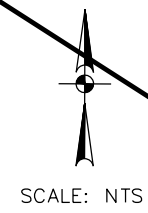
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No.	Revision	Drawn	Approved	Date	
REVISIONS					
FLORES 24-INCH REHAB PROJECT, DR 128 TRAFFIC CONTROL PLAN ROAD DETOUR LAYOUT ALTERNATIVE - SEGMENT B					
DEVELOPER:			BUDGET PROJ.		
CONT.					
SUBMITTED					
APPROVED					
MAP No.	SECT. No.		DR. MG		CK. KD
JOB No. 14-4657					SHEET 31 OF 67

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