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MARKET STREET REALIGNMENT

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CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

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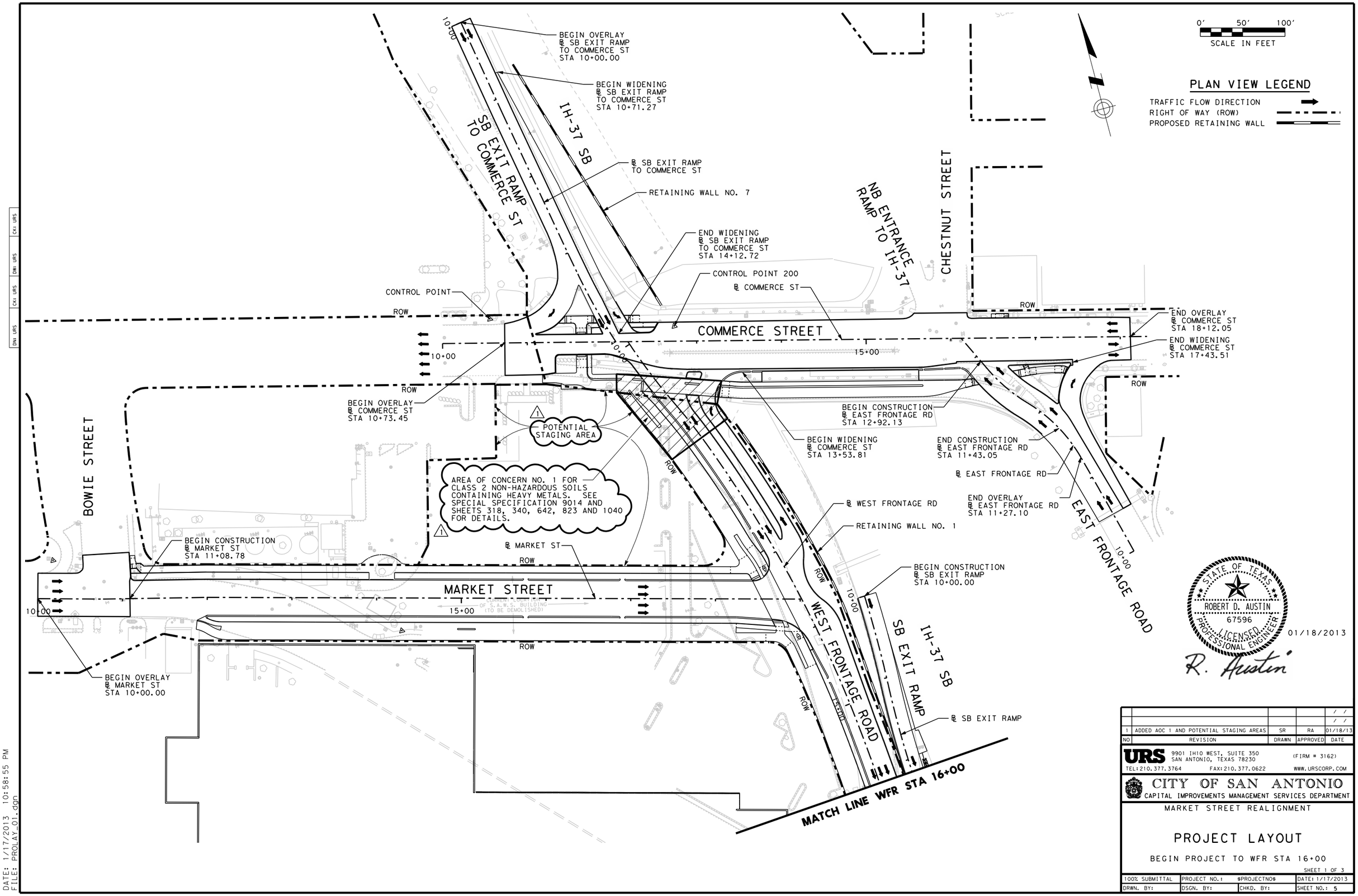

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1	ADDED AOC 1 AND POTENTIAL STAGING AREAS	SR	RA	01/18/13

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MARKET STREET REALIGNMENT

PROJECT LAYOUT

BEGIN PROJECT TO WFR STA 16+00

SHEET 1 OF 3

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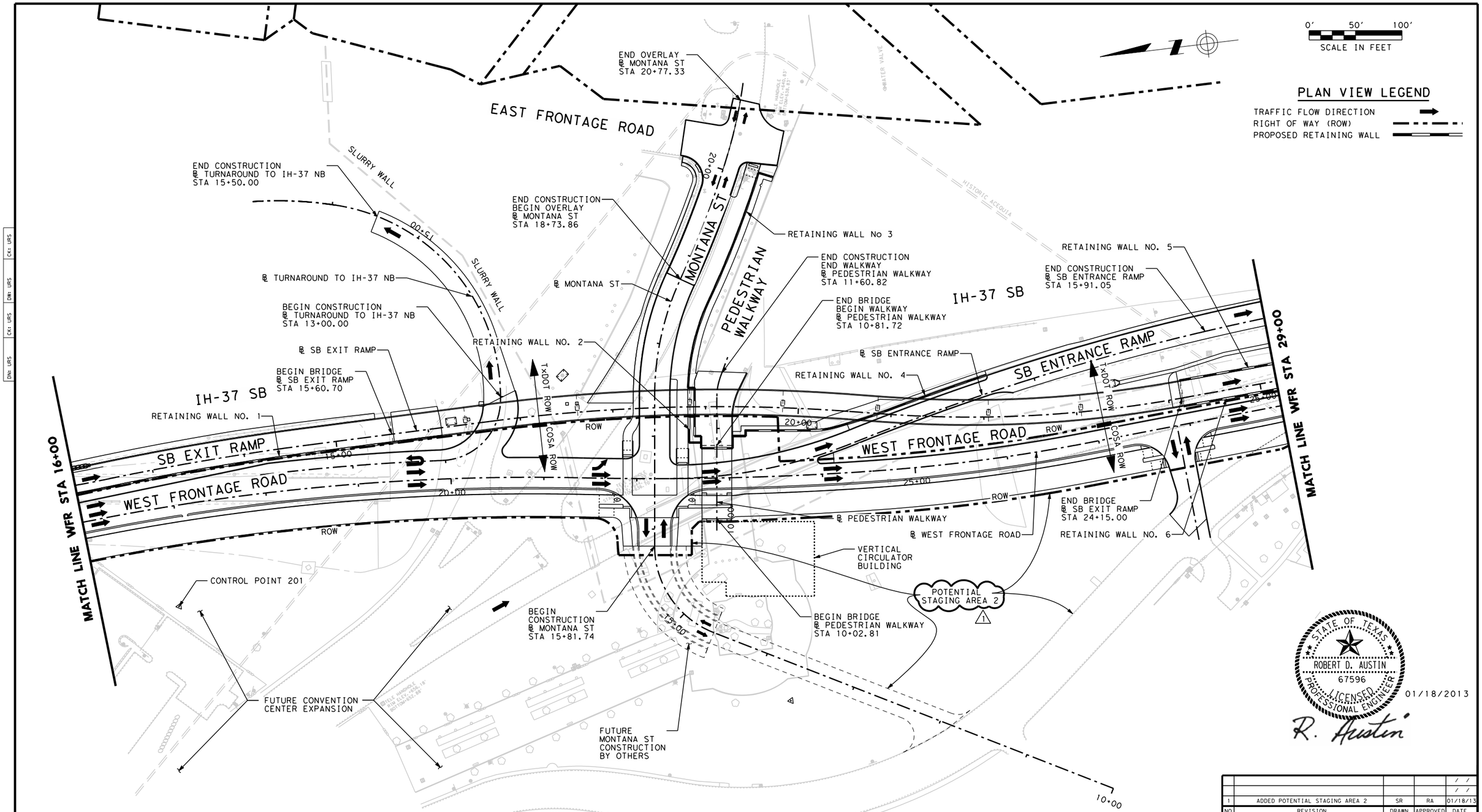

STATE OF TEXAS
ROBERT D. AUSTIN
67596
LICENSED
PROFESSIONAL ENGINEER
01/18/2013
R. Austin

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1	ADDED POTENTIAL STAGING AREA 2	SR	RA	01/18/13

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MARKET STREET REALIGNMENT

PROJECT LAYOUT

WFR STA 16+00 TO WFR STA 29+00

SHEET 2 OF 3

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ADDITIONAL NOTES

1. EXISTING TOPOGRAPHY, PLANS, AND DETAILS REPRESENT AS-BUILT CONDITIONS TO THE BEST OF THE OWNER'S KNOWLEDGE; HOWEVER, ACTUAL AS-BUILT CONDITIONS MAY VARY FROM THE DRAWINGS. ALL DIMENSIONS AND CONDITIONS INDICATED RELATIVE TO THE EXISTING CONSTRUCTION ARE APPROXIMATE BASED ON AVAILABLE AS-BUILT INFORMATION AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS.

2. ELEVATIONS ARE SUBJECT TO FIELD VERIFICATION AND ADJUSTMENT TO MEET ACTUAL FIELD CONDITIONS SHOULD BE EXPECTED. CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS, AND PROJECT ENGINEERING REFERENCE POINTS, RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY A REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO THE OWNER.

3. ALIGNMENT, CENTERLINE CURVE DATA, AND STATIONING TO BE VERIFIED BY ON-THE-GROUND SURVEY FROM PROJECT CONTROL POINTS AND ELEVATIONS OF ALL CONNECTIONS TO EXISTING FACILITIES TO BE CONFIRMED PRIOR TO WORK START. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

4. THIS SET OF CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED AS A WHOLE AND THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR THE INFORMATION PRESENTED ON ALL SHEETS ON THE SET OF DRAWINGS AND ALL SECTIONS OF THE SPECIFICATIONS.

5. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND ALL ITEMS OF WORK. LACK OF UNDERSTANDING OF WORK REQUIREMENTS OR COMPLEXITY SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.

6. THE CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND THE GEOTECHNICAL REPORT PREPARED BY ARIAS & ASSOCIATES, INC. DATED JANUARY 2, 2013 (AVAILABLE ELECTRONICALLY FROM URS BY E-MAIL REQUEST TO BREGGER.GARRISON@URS.COM) AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH AND EXCAVATION SAFETY SYSTEMS THAT COMPLY WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS AND TEXAS STATE HEALTH/SAFETY CODES. SPECIFICALLY, CONTRACTOR AND/OR INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH AND EXCAVATION SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION. THE TRENCH AND EXCAVATION SAFETY PLAN SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL PERMITS. CONTRACTOR SHALL BARE ALL COST FOR AND RESPONSIBILITIES ATTACHED THERETO AND ANY REPERCUSSIONS OF NOT FOLLOWING SAID PERMITS AND PROJECT REQUIREMENTS. CONTRACTOR TO ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.

8. THE AREAS UTILIZED AS CONTRACTOR'S OFFICE, PARKING, LAYDOWN, STORAGE, AND HAUL ROUTES, ARE TO BE RESTORED TO THE ORIGINAL CONDITION AT THE COMPLETION OF THE WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY IMPROVEMENTS HE REQUIRES AT THE STAGING AREA(S) INCLUDING AN ENTRANCE, AGGREGATE SURFACING, TEMPORARY FENCING, ETC. THESE IMPROVEMENTS ARE AS INDICATED IN THE DRAWINGS/SPECS; CONTRACTOR WILL PERFORM ADDITIONAL IMPROVEMENTS AS HE DEEMS NECESSARY, AND AS REQUIRED BY THE WORK.

9. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNER. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS AS INDICATED IN THESE PLANS AND SPECIFICATIONS.

10. CONTRACTOR SHALL CONTROL DUST CAUSED BY THE WORK BY THE APPLICATION OF WATER BY AN APPROVED SPRINKLER IN AMOUNTS SUFFICIENT TO CONTROL THE DUST TO THE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH SPECIFICATIONS. THIS MAY REQUIRE ADDITIONAL MEASURES SUCH AS SHIELDING THE WORK FROM WIND OR OTHER APPROPRIATE MEASURES AS REQUIRED.

11. THE CONTRACTOR MAY NOT DIRECT, IMPEDE, OR REROUTE PEDESTRIAN AND VEHICULAR TRAFFIC, NOR PLACE A BARRICADE OR OTHER TRAFFIC CONTROL DEVICES IN A RIGHT-OF-WAY WITHOUT FIRST OBTAINING APPROPRIATE PERMITS.

12. AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL CLOSE THE TRENCH EXCEPT FOR THE MINIMUM AMOUNT REQUIRED TO BEGIN THE NEXT DAY'S CONSTRUCTION. PROVIDE STEEL PLATES OVER OPEN PORTIONS WITHIN PAVED AREAS. COMPACTION REQUIREMENTS SHALL BE ADHERED WITHIN PLACEMENT OF CLOSURE BACKFILL AND/OR THE STATION WILL BE MARKED AT THE START OF THE NEXT WORK DAY AND BE PLACED AND COMPACTED ACCORDING TO THE SPECIFICATIONS.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, GAS, WATER, WASTEWATER, ELECTRICAL, TELEPHONE, COMMUNICATIONS NETWORKS, CABLE TELEVISION, PETROLEUM PIPELINES, AND STREET AND DRAINAGE WORK. ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CONSTRUCTION INSPECTOR WITHIN TWENTY-FOUR (24) HOURS.

14. THE WORK ALONG THE FRONTAGE OF THE SAWS HEATING AND COOLING PLANT AT THE NORTHEAST CORNER OF MARKET STREET AND BOWIE STREET CONSISTS OF CONSTRUCTION OF A RELOCATED CHILLEDO WATER LINE, DRAINAGE PIPES, RETAINING WALLS, WROUGHT IRON FENCING, CONCRETE SIDEWALKS, LANDSCAPE PLANTERS, PEDESTRIAN LIGHTS, AND OTHER RELATED ITEMS. IN THE AREA IN FRONT OF THE BUILDING, THE CONTRACTOR SHALL INSTALL TEMPORARY CHAIN LINK SECURITY FENCING ALONG THE SOUTH SIDE OF THE CIRCULAR PLANTERS, AND IS PERMITTED TO USE THE AREA SOUTH OF THE SECURITY FENCING AS WORKING SPACE FOR THE CONSTRUCTION OF THE IMPROVEMENTS LISTED ABOVE. ANY DAMAGE TO THE BRICK PAVERS IN THIS AREA SHALL BE REPAIRED AND RESTORED TO THEIR ORIGINAL CONDITION. IN THE AREA ALONG THE PARKING LOT EAST OF THE BUILDING, THE CONTRACTOR SHALL PROTECT ONE OF THE TREES IN THE CURBED MEDIAN, REMOVE THE OTHER TREE IN THE MEDIAN, REMOVE THE CONCRETE MEDIAN CURB, REMOVE AND REPLACE ASPHALT PAVEMENT, CONSTRUCT A CONCRETE SIDEWALK AND SEAT WALLS AROUND THE NORTH SIDE OF THE PRESERVED TREE, AND INSTALL PEDESTRIAN LIGHTS AND FENCING AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE ALL WORK IN FRONT OF THE SAWS HEATING AND COOLING PLANT WITH JOHN KAZNOWSKI AT 210.233.3696 OR 210.825.7112.

15. THE CONTRACTOR IS ADVISED THAT MANY LARGE EVENTS WILL BE OCCURRING WITHIN THE DOWNTOWN AREA IN THE VICINITY OF THE MARKET STREET REALIGNMENT PROJECT DURING THE COURSE OF THIS CONSTRUCTION CONTRACT. THIS INCLUDES EVENTS AT THE CONVENTION CENTER, ALAMODOME, INSTITUTE OF TEXAN CULTURES (ITC), LA VILLITA, AND NEARBY HOTELS. DURING THESE EVENTS, THE CITY HAS THE PREROGATIVE TO RESTRICT TRAFFIC LANE CLOSURES AND DETOURS WITHIN THE CONSTRUCTION AREA. FOLLOWING IS A PARTIAL LIST OF SCHEDULED EVENTS WHEN THESE RESTRICTIONS MAY OCCUR. OTHER EVENTS MAY ALSO RESULT IN THESE RESTRICTIONS.

EVENT	LOCATION	DATES
NATL. SCIENCE TEACHERS ASSOC.	CONVENTION CENTER	APRIL 10-14, 2013
INTL. READING ASSOCIATION	CONVENTION CENTER	APRIL 19-22, 2013
NIOSA (FIESTA)	DOWNTOWN/LA VILLITA	APRIL 23-26, 2013
TEXAS DENTAL ASSOCIATION	CONVENTION CENTER	MAY 2-4, 2013
TEXAS FOLKLIFE FESTIVAL	ITC	JUNE 7-9, 2013
SOCIETY FOR TECHNOLOGY IN EDUC.	CONVENTION CENTER	JUNE 21-26, 2013
LUTHERAN CHURCH- NATL. YOUTH GATH.	CONVENTION CENTER	JULY 1-5, 2013
PEOPLE EN ESPANOL	DOWNTOWN	AUG. 30-SEPT. 1, 2013
UTSA FOOTBALL	ALAMODOME	SEPTEMBER 7, 2013
WORLD'S FAIR OF COSMETIC ARTS	CONVENTION CENTER	SEPTEMBER 7-9, 2013
PREPAID LEGAL SERVICE, INC.	GRAND HYATT	SEPTEMBER 17-21, 2013
UTSA FOOTBALL	ALAMODOME	SEPTEMBER 28, 2013
S.A. ROCK 'N' ROLL MARATHON	DOWNTOWN	NOVEMBER 15-17, 2013
S.A. AUTOMOBILE DEALERS ASSOC.	CONVENTION CENTER	NOVEMBER 21-24, 2013
ASIAN FESTIVAL	ITC	FEBRUARY 1, 2012
TEXAS MUSIC EDUCATORS ASSOC.	DOWNTOWN	FEBRUARY 12-15, 2014
NIOSA (FIESTA)	DOWNTOWN/LA VILLITA	APRIL 22-25, 2014
TEXAS DENTAL ASSOCIATION	DOWNTOWN	MAY 1-4, 2014
AMER. INDUSTRIAL HYGIENE ASSOC.	GRAND HYATT	MAY 31-JUNE 5, 2014
TEXAS FOLKLIFE FESTIVAL	ITC	JUNE 6-8, 2014

NOTE: ADDITIONAL UTSA FOOTBALL GAMES THAT ARE NOT CURRENTLY SCHEDULED INCLUDE 2 GAMES IN OCTOBER, 2013, 2 GAMES IN NOVEMBER 2013, AND 4 GAMES IN 2014.

16. CITY IT LINES * CITY IT CONDUITS WILL BE INCLUDED WITHIN THE SAME TRENCH AS TIME WARNER CABLE.

17. SAWS IMPACT FEES ARE THE CONTRACTOR*S RESPONSIBILITY AND ARE SUBSIDIARY TO THE IRRIGATION WORK.

18. TIME WARNER - ALL MATERIAL WILL BE PROVIDED BY TIME WARNER AND MUST BE PICKED UP BY THE CONTRACTOR AT THE TIME AND PLACE INDICATED BY TIME WARNER. CONTRACTOR SHALL NOTIFY TIME WARNER FOUR (4) WEEKS PRIOR TO MATERIAL PICK UP. TIME WARNER CONTACT FOR THIS PROJECT IS STEPHON ROBERTSON, 210-279-1875.

19. THE CITY OF SAN ANTONIO IS USING PRIMAVERA P6 VERSION 6.2. THE CONTRACTOR MUST USE PRIMAVERA P6 VERSION 5.0 OR LATER SO THE CITY OF SAN ANTONIO CAN USE THE CONTRACTOR*S SCHEDULE.

20. AT&T APPROVED CONTRACTORS INCLUDE ZACHRY, BARTEC & TEXSTAR.

21. THE EXISTING GAS METER AND PIPING LOCATED ON THE NORTH SIDE OF MARKET STREET WILL BE REMOVED PRIOR TO CONTRACTOR*S NOTICE TO PROCEED. THE REMAINING CONCRETE SLAB AND BLOCK WALL ARE TO BE REMOVED BY THE CONTRACTOR AND WILL BE SUBSIDIARY TO COSA ITEM 101.

22. STORMWATER PLANTERS ARE TO BE PLACED PRIOR TO ILLUMINATION FOUNDATIONS.

23. ITEM 101 * PREPARATION OF RIGHT-OF-WAY. THIS ITEM INCLUDES THE PROTECTION AND PRESERVATION OF EXISTING TREES IN ACCORDANCE WITH THE TREE PROTECTION AND PRESERVATION PLANS (SHEETS 801 * 806). IN ADDITION, CUTTING, PLUGGING, AND REMOVAL OF EXISTING STORM DRAIN PIPE AS CALLED FOR ON THE PLANS IS INCLUDED IN THIS BID ITEM. COMPENSATION FOR THESE ITEMS OF WORK ARE INCLUDED IN THE BID PRICE FOR PREPARATION OF RIGHT OF WAY.

24. ITEM 202 - PRIME COAT SHALL BE APPLIED AT A RATE OF 0.30 GAL. / S.Y. AND SHALL BE PLACED AFTER THE FLEXIBLE BASE HAS BEEN CONSTRUCTED PER TXDOT ITEM 247 AND BEFORE THE LIFT OF HMAP TYPE B.

25. ITEM 203 * TACK COAT SHALL BE APPLIED AT A RATE OF 0.10 GAL. / S.Y. AND SHALL BE PLACED AFTER THE MILLING OPERATIONS AND IMMEDIATELY PRIOR TO THE OVERLAY OPERATIONS.

26. ITEM 209 * A CONCRETE BUS PAD SHALL BE CONSTRUCTED ON MARKET STREET IN THE SOUTH LANE AND SHALL BE 10* WIDE X 160* LONG. IT SHALL BE CONSTRUCTED ADJACENT TO THE GUTTER. ITS LOCATION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD ONCE THE CONVENTION CENTER DRIVEWAY LOCATION(S) HAS BEEN DETERMINED.

27. ITEM 500 * CONCRETE CURB AND GUTTER MAY BE MACHINE LAID PER ITEM 501 (MACHINE LAID CURB) IF DESIRED FOR BOTH THE STANDARD CURB AND GUTTER AND THE TYPE 2 CURB AND GUTTER. CURB CUTS FOR THE TYPE 2 CURB AND GUTTER (AND FOR THE SIDEWALK CURB) WILL BE LOCATED PER THE ROADWAY DETAILS SHEET IN RELATION TO THE STORMWATER PLANTER STRUCTURES.

28. ITEM 503 * THE LOCATION AND NUMBER OF CONCRETE DRIVEWAYS WILL BE ESTABLISHED BY THE ENGINEER IN THE FIELD ONCE THE CONVENTION CENTER EXPANSION PLANS ARE FAR ENOUGH ALONG TO DETERMINE SAID LOCATIONS. PLANS WILL BE UPDATED AND A CHANGE ORDER WILL BE PREPARED TO LOCATE THE DRIVEWAYS.

29. ITEM 507 * A CHAIN LINK WIRE FENCE WILL BE CONSTRUCTED ACROSS THE WALKWAY TO THE ALAMO DOME JUST EAST OF THE WALKWAY BRIDGE OVER THE IH 37 EAST FRONTAGE ROAD. IT WILL BE PLACED PRIOR TO WALKWAY AND PEDESTRIAN BRIDGE CONSTRUCTION AND REMOVED AFTER RETAINING WALL 3 AND WALKWAY AND PEDESTRIAN BRIDGE CONSTRUCTION IS COMPLETE. HOLES MADE WITHIN THE WALKWAY BY THE FENCE INSTALLATION AND REMOVAL WILL BE REPAIRED SMOOTHLY WITH CONCRETE MEETING THE REQUIREMENTS OF COSA ITEM 502.

30. ITEM 524 *ALL BIDDERS WILL BID $250,000 FOR THIS ITEM. THIS $250,000 WILL BE FOR A VERTICAL CIRCULATOR STRUCTURE THAT WILL PROVIDE ACCESS FROM THE PEDESTRIAN BRIDGE OVER THE WEST FRONTAGE ROAD TO THE GROUND LEVEL. THE VERTICAL CIRCULATOR STRUCTURE WILL INCLUDE STAIRS AND A LARGE FREIGHT ELEVATOR AND WILL BE DESIGNED AT A LATER DATE TO BE AESTHETICALLY AND FUNCTIONALLY CONSISTENT WITH THE CONVENTION CENTER EXPANSION. A CHANGE ORDER WILL BE PREPARED TO INCORPORATE THE VERTICAL CIRCULATOR STRUCTURE AND TO DETERMINE THE FINAL COST.

31. ITEM 9014 - THE CITY OF SAN ANTONIO PROJECT MANAGER MAY ALLOW THE CONTRACTOR TO REUSE THE CLASS 2 NON-HAZARDOUS SOIL WITHIN THE TRENCHES AND EMBANKMENT ON THE PROJECT SITE IN LIEU OF TRANSPORTING IT AWAY FROM THE PROJECT SITE TO A LANDFILL.

DELETED NOTES

NONE.

NOTES OF MODIFICATION

1. MODIFY NOTE 3 - ACCESS TO CONTIGUOUS PRIVATE PROPERTIES AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.

2. MODIFY NOTE 11 * THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR THE COST INCURRED AS A RESULT OF UTILITY RELOCATIONS PERFORMED FOR CONTRACTOR'S CONVENIENCE.

STATE OF TEXAS
ROBERT D. AUSTIN
67596
LICENSED
PROFESSIONAL ENGINEER
01/18/2013
R. Austin

NO	REVISION	DRAWN	APPROVED	DATE
				/ /
				/ /
1	ADDENDUM 2	BAG	RDA	01/18/13

URS 9901 IH10 WEST, SUITE 350 SAN ANTONIO, TEXAS 78230 (FIRM # 3162)
TEL: 210.377.3764 FAX: 210.377.0622 WWW.URSCORP.COM

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

SUPPLEMENTAL GENERAL NOTES
CITY OF SAN ANTONIO

100% SUBMITTAL	PROJECT NO.: 40-00300		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 15

DN: URS CK: URS DW: URS CK: URS

DATE: 1/17/2013 11:00:45 PM
FILE: gen_notes_02.dgn

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
106.1	BOX CULVERT EXCAVATION & BACKFILL	CY	3817
202.1	PRIME COAT	GAL	807
203.1	TACK COAT	GAL	2784.3
205.3	HMA PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	10913
208.1	SALV, HAUL & STKPL RCL APH FV (2")	SY	34098
209.1	CONCRETE PAVEMENT (BUS PAD) (10")	SY	178
307.1	CONCRETE STRUCTURE (MISCELLANEOUS)	CY	7.7
308.1	DRILLED SHAFTS (18")	LF	709
308.1	DRILLED SHAFTS (24")	LF	153
308.1	DRILLED SHAFTS (30")	LF	702
308.1	DRILLED SHAFTS (36")	LF	49
308.1	DRILLED SHAFTS (48")	LF	50
309.1	PRECAST REINFORCED CONCRETE CULVERT (4' x 3')	LF	152
309.1	PRECAST REINFORCED CONCRETE CULVERT (4' x 4')	LF	486
309.1	PRECAST REINFORCED CONCRETE CULVERT (5' x 3')	LF	110
309.1	PRECAST REINFORCED CONCRETE CULVERT (6' x 4')	LF	393
401.1	REINFORCED CONCRETE PIPE (CLASS III)(18" DIA)	LF	7
401.1	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	1190
401.1	REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	322
401.1	REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	LF	461
401.1	REINFORCED CONCRETE PIPE (CLASS III)(42" DIA)	LF	303
401.1	REINFORCED CONCRETE PIPE (CLASS III)(48" DIA)	LF	60
403.1	JUNCTION BOX 4'X4'X4'	EA	9
403.2	JUNCTION BOX 5'X5'X5'	EA	2
403.3	JUNCTION BOX 6'X6'X6'	EA	5
403.4	JUNCTION BOX 7'X7'X7'	EA	3
403.7	INLET TYPE I (COMPLETE)(10FT)	EA	7
403.XX	MANHOLES (STAGE II)	EA	10
403.XX	INLET TYPE X-1	EA	2
403.XX	CI TYPE IL-C	EA	10
403.XX	51' 2.8" TRENCH DRAIN	EA	1
403.XX	DOMED GRATE INLET (24")	EA	3
403.XX	INLET TYPE Y-1	EA	1
410.2	GRAVEL SUBGRADE FILLER (100 CY< X < 1,000 C.Y.)	CY	565
413.1	FLOWABLE BACKFILL (LOW STRENGTH)	CY	3325
500.4	CONCRETE CURB & GUTTER (> 1,000 L.F.)	LF	6184
500.5	CONCRETE CURB & GUTTER (TY.2) (> 1,000 L.F.)	LF	3830
502.1	CONCRETE SIDEWALKS(1,000 S.Y.< X <10,000S.Y.)	SY	9693
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	200
505.1	CONCRETE RIPRAP (5" THICK) (< 100 S.Y.)	SY	8.6
506.1	CONCRETE RETAINING WALLS-COMB. TYPE (< 20 C.Y.)	CY	10
520.1	HYDROMULCH	SY	28862
524	CONCRETE STEPS	CY	3
531	OBJECT MARKER ASSEMBLY	EA	15
531.13R	R3-7R RIGHT LANE MUST TURN RIGHT (30" X 30")	EA	1
531.14SPL	R3-8SPL LANE-USE CONTROL SPECIAL (VARIES)	EA	1
531.17	R4-7 KEEP RIGHT (24" X 30")	EA	1
531.18	R5-1 DO NOT ENTER (30" X 30")	EA	4
531.19	R6-1R ONE WAY (36" X 12")	EA	1
531.43	W1-7T LARGE ARROW (48" X 24")	EA	1
531.49	W9-2L LANE ENDS MERGE LEFT (30" X 30")	EA	1
531.7	R3-1R NO RIGHT TURN (24" X24")	EA	1
531.D11-1	D11-1 BIKE ROUTE (24" X 18")	EA	12
531.D1-2	D11-2 DESTINATION (42" X 30")	EA	1
531.M1-1	M1-1 INTERSTATE ROUTE MARKER (24" X 24")	EA	1
531.M1-4	M1-4 US ROUTE MARKER (24" X 24")	EA	1
531.M3-1	M3-1 CARDINAL DIRECTION NORTH (24" X 12")	EA	2
531.M4-14	M4-14 BIKGIN (12" X 6")	EA	5
531.M4-6	M4-6 END (12" X 6")	EA	1
531.M6-1	M6-1 BIKE ARROW SIGN (12" X 9")	EA	1
531.M6-2L	M6-2 DIRECTIONAL ARROW LEFT (21" X 15")	EA	2
531.M6-2R	M6-2R BIKE ARROW SIGN (12" X 9")	EA	1
531.M6-4	M6-4 BIKE ARROW SIGN (12" X 9")	EA	1
531.R3-5bP	R3-5bP LEFT LANE (PLAQUE) (30" X 12")	EA	1
531.R3-5L	R3-5L LEFT TURN ONLY (30" X 36")	EA	5
531.R3-5R	R3-5R RIGHT TURN ONLY (30" X 36")	EA	3
531.R3-6L	R3-5R LEFT AND THRU (30" X 36")	EA	1
531.R5-1A	R5-1A WRONG WAY (42" X 30")	EA	4
531.R5-1B	R5-1B BICYCLE WRONG WAY (12" X 18")	EA	2
531.R5-2	R5-2 NO TRUCKS (24" X 24")	EA	1
531.R9-6	R9-6 BICYCLE REGULATORY YIELD TO PEDS (12" X "18")	EA	3
531.R9-7	R9-7 SHARED USE PATH RESTRICTION (12" X 18")	EA	1
531.R10-11A	R10-11A NO TURN ON RED (30" X 36")	EA	5
531.R10-6	R10-6 STOP HERE ON RED (24" X 36")	EA	2
531.SPL	SPECIAL SIGN (18" X 18")	EA	2
531.W12-2A	W12-2A LOW CLEARANCE (78" X 24")	EA	1
531.W3-3	W3-3 ADVANCED TRAFFIC CONTROL (30" X 30")	EA	1
531.W4-3L	W4-3L ADDED LANE (36" X 36")	EA	1
535	24 INCH WIDE YELLOW LINE	LF	62
535.1	4 INCH WIDE YELLOW LINE	LF	2577
535.12	WORD "ONLY"	EA	10
535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	36
535.17	BICYCLE RIDER SYMBOL	EA	36
535.2	4 INCH WIDE WHITE LINE	LF	5865
535.4	8 INCH WIDE WHITE LINE	LF	1959
535.5	12 INCH WIDE WHITE LINE	LF	468
535.7	24 INCH WIDE WHITE LINE	LF	1084
535.8	RIGHT WHITE ARROW	EA	10
535.9	LEFT WHITE ARROW	EA	11
535.XX	REFL PAV MRK TY 1 BIKE LANE(G)(SLD)(100MIL)	SF	3244
537.6	TRAFFIC BUTTON TYPE I-C	EA	37
537.8	TRAFFIC BUTTON TYPE II-A-A	EA	58
537.9	TRAFFIC BUTTON TYPE II-C-R	EA	190
540.6	CONSTRUCTION EXITS (INSTALL/REMOVE)	SY	340
540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	970
540.10	GRAVEL FILTER BAGS FOR EROSION CONTROL	LF	988
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	4799
615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	4
618.1	CONDUIT (2 INCH/PVC SCHEDULE 40)	LF	602
618.2	CONDUIT (3 INCH/PVC SCHEDULE 40) (BORE)	LF	854
618.2	CONDUIT (3 INCH/PVC SCHEDULE 40)	LF	2164
620.1	ELECTRICAL CONDUCTORS (NO. 6)(BARE)	LF	37
620.2	ELECTRICAL CONDUCTORS (NO. 8)(BARE)	LF	3538
620.3	ELECTRICAL CONDUCTORS (NO. 6)(INSULATED)	LF	74
624.4	GROUND BOXES TYPE D (16892G)	EA	25
628.1	ELECTRICAL SERVICES (PER INSTALLATION)	EA	4
653.1	BATTERY BACKUP SYSTEM	EA	4

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
655.1	TYPE 332 CONTROLLER FOUNDATION	EA	4
680.1	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS [ISOLATED]	EA	3
680.3	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS [SYSTEM]	EA	1
682.1	INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SECOND)	EA	41
682.2	INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (4 SECOND)	EA	3
682.3	INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (5 SECOND)	EA	3
683.1	LED COUNTDOWN PEDESTRIAN MODULE	EA	26
684.1	TRAFFIC SIGNAL CABLES (TYPE C)(14 AWG)(CONDUCTOR NO. 4)	LF	2976
684.1	TRAFFIC SIGNAL CABLES (TYPE A)(14 AWG)(CONDUCTOR NO. 9)	LF	11368
686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(2 ARM 44-24')	EA	1
686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(2 ARM 50-36')	EA	2
686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(1 ARM 24')	EA	2
686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(1 ARM 32')(LUM)	EA	3
686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(1 ARM 36')(LUM)	EA	1
686.1	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(1 ARM 44')(LUM)	EA	1
687.1	PEDESTAL POLE ASSEMBLY	EA	20
688.2	PEDESTRIAN DETECTORS [2 INCH PUSH BUTTON]	EA	45
693.1	INTERNALLY LIGHTED STREET NAME SIGNS [TYPE/SIZE]	LF	14
695.3	EMERGENCY PREEMPTION DETECTOR	EA	11
695.4	EMERGENCY PREEMPTION DETECTOR CABLE	EA	2317
696.1	RADAR ADVANCE DETECTION DEVICE (RADD)	EA	11
696.2	RADAR ADVANCE DETECTION DEVICE (RPDD)	EA	14
696.3	RADD COMMUNICATION AND POWER CABLE	LF	1778
696.3	RPDD COMMUNICATION AND POWER CABLE	LF	3190
NSPI	WIRELESS AP ASSEMBLY	EA	4
NSPI	WIRELESS BRIDGE	EA	3
NSPI	CAT5 ETHERNET CABLE FOR WIRELESS AP ASSEMBLY	LF	558
NSPI	BELDEN POWER CABLE FOR WIRELESS AP ASSEMBLY	LF	305
NSPI	PEDESTAL POLE ASSEMBLY (20 FT)	EA	2
SPECIAL SPECIFICATION ITEMS			
9001	GROUT COLUMNS	LF	2353
9002.1	TEMPORARY SUSPENSION OF WORK IN WHOLE	DAY	20
9002.2	TEMPORARY SUSPENSION OF WORK IN PART	DAY	20
9003.1	CAST CONCRETE SEAT (CUSTOM W/INTEGRAL COLOR)	EA	15
9003.2a	CAST CONCRETE BENCH, 6' LONG (CUSTOM W/INTEGRAL COLOR)	EA	6
9003.2b	CAST CONCRETE BENCH, 4' LONG (CUSTOM W/INTEGRAL COLOR)	EA	10
9003.3	TRASH/RECYCLING RECEPTACLES	EA	13
9003.4	BOLLARDS (FAIRWEATHER, 3' HIGH)	EA	24
9003.5	BIKE RACKS (MAGLIN MBR200)	EA	13
9003.6	TREE GUARDS (VS IRONSITES, S-6)	EA	45
9004A.1	CONCRETE SEATWALL (COLOR, FINISH, JOINT SEALER, AND ANTI-GRAFFITI)	LF	101
9004A.2	SPECIAL PAVING #1 UPCHARGE	SF	13034
9004A.3	SPECIAL PAVING #2 UPCHARGE	SF	1558
9004A.4	SPECIAL PAVING #3 UPCHARGE	SF	390
9004A.5	SPECIAL PAVING #4 UPCHARGE	SF	384
9004A.6	SPECIAL PAVING #5 (ARTIST DESIGNED PAVING)	SF	312
9004B	ANTI-GRAFFITI COATING	SF	1954
9005.1	CRUSHED STONE AT TREE WELLS AND PAVING DIVIDERS	SF	3764
9005.2	GRAVEL SWALE	SF	444
9005.3	COBBLE DISSIPATORS AT STORMWATER INLETS	SF	239
9006.1	WATER TAP AND METER (1" SIZE)	EA	2
9006.2	BACKFLOW PREVENTION DEVICE WITH ENCLOSURE (1" SIZE):	EA	2
9006.3	IRRIGATION BOOSTER PUMP SYSTEM:	EA	2
9006.4	LANDSCAPE INJECTOR SYSTEMS:	EA	2
9006.5	AUTOMATIC IRRIGATION CONTROLLER (2-WIRE CENTRAL CONTROL):	EA	2
9006.6	CONTROL WIRE (2-WIRE):	LF	7590
9006.7	IRRIGATION SLEEVES (MAINLINE):	LF	1273
9006.8	IRRIGATION SLEEVES (LATERAL S):	LF	1440
9006.9	IRRIGATION SLEEVES (WIRES):	LF	1273
9006.1	IRRIGATION PRESSURE MAINLINE (2-1/2" SIZE):	LF	4500
9006.11	IRRIGATION PRESSURE MAINLINE (2" SIZE):	LF	3090
9006.12	IRRIGATION ISOLATION GATE VALVES (2-1/2" SIZE):	EA	11
9006.13	IRRIGATION ISOLATION GATE VALVES (2" SIZE):	EA	12
9006.14	IRRIGATION QUICK COUPLING VALVE (1" SIZE):	EA	52
9006.15	TREE ROOT WATERING SYSTEM (2 PER TREE):	EA	616
9006.16	SUBSURFACE DRIP IRRIGATION:	SF	22874
9006.17	REMOTE CONTROL VALVE:	EA	33
9006.18	DRIP REMOTE CONTROL VALVE:	EA	42
9007.1	TREES, 2.5" CALIPER	EA	78
9007.2	TREES, 3" CALIPER	EA	166
9007.3	TREES, 4" CALIPER	EA	84
9007.4-7	SHRUBS AND GROUNDCOVER	SF	57422
9007.8a	SOIL PREP + AMENDMENTS (SHRUB/GROUNDCOVER), 12-18" DEEP	SF	34548
9007.8b	SOIL FOR TRENCHES	SF	2946
9007.8c	SOIL FOR TREE WELLS	SF	3418
9007.9	PLANTING AREA SHEET MULCH	SF	34548
9007.1	SOIL PREP + AMENDMENTS (STORMWATER)	SF	22874
9007.11	STORMWATER PLANTER SHEET MULCH	SF	22874
9007.12a	TREE STAKES (9' REDDYSTAKE)	EA	166
9007.12b	TREE STAKES (MEGASTAKE)	EA	84
9007.13	SOIL FERTILITY TESTING	EA	12
9007.14	SOIL FOOD WEB ANALYSIS TESTING	EA	12
9007.15	LANDSCAPE MAINTENANCE, 12 MONTHS	EA	1
9008.1a	PERF. PIPE AT STORMWATER PLANTER + TREE WELLS WITH TRENCHING & DRAIN ROCK	LF	4201
9008.1b	SOLID PIPE AT TREE WELLS W/TRENCHING & DRAIN ROCK	LF	613
9008.1c	CLEANOUTS FOR UNDERDRAIN LINES	EA	76
9009	GEOGRID FOR BASE AND EMBANKMENT REINFORCEMENT	SY	22107
9010	INS VALMONT 26 FT 2 IN TAVERN GREEN STREET LIGHT ASSEMBLY (INCLUDES POLE, BASE, AND ARM)	EA	78
9011	INS GREENSTAR LED LUMINAIRE, GALAXY XD-- GLX30 MODEL, 65W	EA	59
9011	INS GREENSTAR LED LUMINAIRE, GALAXY XD-- GLX40 MODEL, 109W	EA	19
9012	INS LANDSCAPEFORMS 12 FT METALLIC BRONZE ALCOTT PEDESTRIAN LIGHT	EA	155
9013	INS LANDSCAPEFORMS 3 FT 1 IN METALLIC BRONZE HAWTHORN BOLLARD LIGHT	EA	31

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
9014.3.1	TRANSPORTATION TO DISPOSAL FACILITY (CLASS 2 NON-HAZ SOIL) (COSA)	EA	621
9014.3.2	LANDFILL DISPOSAL (CLASS 2 NON-HAZ SOIL) (COSA)	EA	621
9014.3.3	TRANSPORTATION TO DISPOSAL FACILITY (CLASS 2 NON-HAZ SOIL) (COSA)	EA	175
9014.3.4	LANDFILL DISPOSAL (CLASS 2 NON-HAZ SOIL) (COSA)	EA	175
9014.6.1	PREPARATION AND IMPLEMENTATION OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	LS	1
9015	VERTICAL CIRCULATOR	LS	1
9016.1	CONCRETE STRUCTURE (STORM WATER PLANTER - 4'-5' WIDE)	LF	1870
9016.2	CONCRETE STRUCTURE (STORM WATER PLANTER - 5'-6' WIDE)	LF	1160
9016.3	CONCRETE STRUCTURE (STORM WATER PLANTER - 6'-7' WIDE)	LF	670
9018.1	ORNAMENTAL FENCE	LF	367
9018.2	ORNAMENTAL GATE	EA	1
9019.1	PEDESTRIAN ENHANCEMENTS ON COMMERCE ST	LS	1
814	8" DI PIPE	LF	449
814	30" DI PIPE	LF	449
TxDOT ITEMS			
104 2009	REMOVING CONC (RIPRAP)	SY	2226
104 2011	REMOVING CONC (MEDIANS)	SY	165
104 2015	REMOVING CONC (SIDEWALKS)	SY	6374
104 2021	REMOVING CONC (CURB)	LF	7652
110 2001	EXCAVATION (ROADWAY)	CY	3894
132 2003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	300
132 2006	EMBANKMENT (FINAL)(DENS CONT) (TY C)	CY	912
160 2003	FURNISHING AND PLACING TOPSOIL (4")	SY	28862
247 2041	FL BS (CMP IN PLC)(TY A GR 1)(FINAL POS)	CY	1572
275 2019	CEMENT TREAT (SUBGRADE)(6")	SY	16921
340 2011	D-GR HMA(METH) TY-B PG64-22	TON	616
340 2014	D-GR HMA(METH) TY-B PG70-22	TON	12053
340 2050	D-GR HMA(METH) TY-C PG70-22	TON	5731
342 2002	PFC (ASPHALT) PG76-22	TON	506
360 2002	CONC PVMT (CONT REINF - CRCP) (9")	SY	563
400 2008	CUT & RESTORING PAV (ASPH)	SY	1370
403 2001	TEMPORARY SPL SHORING	SF	12,311
416 2001	DRILL SHAFT (18 IN)	LF	40
416 2003	DRILL SHAFT (30 IN)	LF	168
416 2004	DRILL SHAFT (36 IN)	LF	8,097
416 2006	DRILL SHAFT (48 IN)	LF	1,894
416 2016	DRILL SHAFT (SIGN MTS)(12 IN)	LF	21
416 2029	DRILL SHAFT (RDWY ILL POLE) (30 IN)	LF	24
420 2003	CL C CONC (ABUT)	CY	52.7
420 2004	CL C CONC (BENT)	CY	182
420 2006	CL C CONC (RAIL FOUNDATION)	CY	15
420 2013	CL C CONC (MISC)	CY	34.44
420 2017	CL C CONC (BENT)(MASS PLACEMENT)	CY	298.3
420 2018	CL C CONC (FOOTING)(MASS PLACEMENT)	CY	124.6
420 2029	CL S CONC (SLAB)	CY	43.5
420 2031	CL S CONC (SHEAR KEY)	CY	14
420 2033	CL S CONC (APPR SLAB)	CY	41.7
422 2001	REINF CONC SLAB	SF	23,914
423 2001	RETAINING WALL (MSE)	SF	10,791
423 2012	RETAINING WALL (CAST-IN-PLACE)	SF	503
423 2013	RETAINING WALL (TIEBACK)	SF	13,930
423 2026	RETAINING WALL (CANT DRILL SHAFT)(FACIA)	SF	3,580
425 2006	PRESTR CONC BOX BEAM (4B20)	LF	318
425 2040	PRESTR CONC BOX BEAM (SB20)(SPL)	LF	79.5
425 2053	PRESTR CONC BOX BEAM (SB20)(MOD)	LF	159
425 2068	PRESTR CONC GIRDER (TX34)	LF	3,282.90
428 2001	CONC SURF TREAT (CLASS I)	SY	3,142
432 2001	RIPRAP (CONC)(4 IN)	CY	195
432 2002	RIPRAP (CONC)(5 IN)	CY	8.6
432 2039	RIPRAP (MOW STRIP)(4 IN)	CY	22
432 2048	RIPRAP (CONC)(FLUME)	CY	44
432 2084	RIPRAP (CONC) (CL B) (4")	CY	7.6
442 2005	STR STL (MISCELLANEOUS)	LB	1045
442 2048	STRUCTURAL STEEL (MISC NON-BRIDGE)	LB	826
450 2077	RAIL (PEDESTRIAN RAIL) (TY PR6)	LF	519
450 2079	RAIL (TY 2 SED) (SPL)	LF	91
450 2121	RAIL (PEDESTRIAN RAIL) (TY PR3)	LF	244.1
450 2210	RAIL (TY T551) (MOD)	LF	3000
452 2010	REMOV RAIL (PEDESTRIAN)	LF	255
454 2001	SEALED EXPANSION JOINT (4 IN)(SEJ-A)	LF	159
460 2004	CMP (GAL STL 18 IN)	LF	32
460 2004	CMP (GAL STL 24 IN)	LF	11
464 2005	RC PIPE (CL III)(24 IN)	LF	876
464 2010	RC PIPE (CL III)(42 IN)	LF	55
465 2032	INLET (COMPL) (CURB) (TY 1) (10' X 3')	LF	1
465 2092	MANH (COMPL)(TY 1)	EA	6
465 2188	INLET (COMPL)(DROP)(TY Y-1)	EA	6
465 2478	INLET (COMPL)(TY KWIR)	EA	1
465 XXXX	INLET (COMPL)(TY M)	EA	1
471 2003	GRATE & FRAME	EA	4
481 2013	PVC (6" DIA)	LF	123
481 2013	PVC (8" DIA)	LF	241
481 2013	PVC (12" DIA)	LF	110
495 2001	RAISE EXIST STR	EA	1
496 2011	REMOV STR (BRIDGE 500-999 FT LENGTH)	EA	1
496 2067	REMOV STR (LRG PED BRIDGE) (0-50 FT LENGTH)	EA	1
502 2001A	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	20
512 2005	PORT CTB (FUR & INST)(SNGL SLP)(TY 2)	LF	1960
512 2008	PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF	2680
512 2009	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF	180
512 2023	PORT CTB (MOVE)(SNGL SLP) (TY 2)	LF	480
512 2026	PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	760
512 2027	PORT CTB (MOVE)(LOW PROF)(TY 2)	LF	200
512 2035	PORT CTB (STKPL)(LOW PROF)(TY 1)	LF	240
512 2040	PORT CTB (REMOVE)(SNGL SLP) (TY 1)	LF	1248
512 2041	PORT CTB (REMOVE)(SNGL SLP) (TY 2)	LF	1960
512 2044	PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF	2680
512 2045	PORT CTB (REMOVE)(LOW PROF)(TY 2)	LF	180
512 2052	PORT CTB (REMOVE)(F-SHAPE)(TY 1)	LF	1322
514 2015	PERM CONC TRF BARR (F-SHAPE)(TY 1)	LF	443
514 2016	PERM CONC TRF BARR (F-SHAPE)(TY 2)	LF	30
540 2001	MTL W-BEAM GD FEN (TIM POST)	LF	873
540 2005	TERMINAL ANCHOR SECTION	EA	2
540 2044	DOWNSTREAM ANCHOR TERMINAL (DAT) SECTION	EA	2
542 2001	REMOVING METAL BEAM GUARD FENCE	LF	280
542 2002	REMOVING TERMINAL ANCHOR SECTION	EA	1
545 2001	CRASH CUSH ATTEN (INSTL)	EA	2
545 2002	CRASH CUSH ATTEN (MOVE & RESET)	EA	1
545 2003	CRASH CUSH ATTEN (REMOVE)	EA	2
545 2049	CRASH CUSH ATTEN (INSTL) (WORK ZONE)	EA	2
545 2051	CRASH CUSH ATTEN (REMOVE) (WORK ZONE)	EA	2
610 2072	REMOVE RDWY ILL ASSEM	EA	30

1

NO	REVISION	DRAWN	APPROVED	DATE
				/ /
				/ /
1	ADDENDUM 2	SR	RA	01/18/13

URS
9901 IH10 WEST, SUITE 350
SAN ANTONIO, TEXAS 78230
(FIRM # 3162)
TEL: 210.377.3764 FAX: 210.377.0622 WWW.URSCORP.COM

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

QUANTITY ESTIMATE

SHEET 1 OF 2

100% SUBMITTAL	PROJECT NO.:	$PROJECTNO$	DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 18

DATE: 1/17/2013 10:56:55 PM
FILE: GEN_SUMM_01.dgn
DN: URS CK: URS DW: URS CK: URS

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BII
610 XXXX	INS RD IL AM (TY SA) 40S - 6 (.25 KW) S	EA	8	
610 XXXX	INS RD IL AM (TY SA) 40T - 6 (.25 KW) S	EA	3	
617 2003	TEMP RD IL (TIMBER POLES W/ARMS)	EA	4	
618 2018	CONDT (PVC) (SCHD 40) (2")	LF	15227	
618 2035	CONDT (PVC) (SCHD 80) (2") (BORE)	LF	616	
620 2003	ELEC CONDR (NO. 2) BARE	LF	450	
620 2004	ELEC CONDR (NO. 2) INSULATED	LF	900	
620 2009	ELEC CONDR (NO. 6) BARE	LF	1830	
620 2011	ELEC CONDR (NO. 8) BARE	LF	14692	
620 2012	ELEC CONDR (NO. 6) INSULATED	LF	3660	
620 2012	ELEC CONDR (NO. 8) INSULATED	LF	29384	
624 2007	GROUND BOX TY A (122311)	EA	40	
624 2008	GROUND BOX TY A (122311) W / APRON	EA	37	
628 2101	ELC SRV TY D 120 / 240 070 (NS) SS (E) SP (U)	EA	4	
636 2001	ALUMINUM SIGNS (TY A)	SF	70	
636 2002	ALUMINUM SIGNS (TY G)	SF	6	
636 2003	ALUMINUM SIGNS (TY O)	SF	673	
644 2022	INS SM RD SN SUP&AM TY S80(1) SA(P)	EA	26	
644 2025	INS SM RD SN SUP&AM TY S80(1) SA(T)	EA	4	
644 2027	INS SM RD SN SUP&AM TY S80(1) SA(U)	EA	2	
644 2056	RELOCATE SM RD SN SUP & AM TY 10BWG	EA	3	
644 2058	RELOCATE SM RD SN SUP & AM TY S80	EA	5	
644 2060	REMOVE SM RD SN SUP & AM	EA	41	
647 2001	INSTALL LRSS (STRUCT STEEL)	LB	516	
647 2002	RELOCATE LRSA	EA	2	
650 2053	INS OH SN SUP (50 FT BRDG)	EA	2	
658 2315	INSTL OM ASSM (OM-2Y)(WC) GND	EA	2	
662 2001	WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	LF	1540	
662 2002	WK ZN PAV MRK NON-REMOV (W) 4" (DOT)	LF	64	
662 2004	WK ZN PAV MRK NON-REMOV (W) 4" (SLD)	LF	6825	
662 2012	WK ZN PAV MRK NON-REMOV (W) 8" (SLD)	LF	3604	
662 2016	WK ZN PAV MRK NON-REMOV (W) 24" (SLD)	LF	1573	
662 2017	WK ZN PAV MRK NON-REMOV (W) (ARROW)	EA	31	
662 2018	WK ZN PAV MRK NON-REMOV (W) (DBL ARROW)	EA	2	
662 2026	WK ZN PAV MRK NON-REMOV(W)(UTURN ARROW)	EA	2	
662 2027	WK ZN PAV MRK NON-REMOV (W) (WORD)	EA	20	
662 2028	WK ZN PAV MRK NON-REMOV (W)18"(YLD TRI)	EA	25	
662 2030	WK ZN PAV MRK NON-REMOV (Y) 4" (BRK)	LF	60	
662 2032	WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	6768	
662 2039	WK ZN PAV MRK NON-REMOV (Y) 24" (SLD)	LF	62	
662 2064	WK ZN PAV MRK REMOV (W) 4" (BRK)	LF	910	
662 2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	11926	
662 2073	WK ZN PAV MRK REMOV (W) 8" (DOT)	LF	24	
662 2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	5202	
662 2079	WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	226	
662 2084	WK ZN PAV MRK REMOV (W) (ARROW)	EA	15	
662 2085	WK ZN PAV MRK REMOV (W) (DBL ARROW)	EA	8	
662 2093	WK ZN PAV MRK REMOV (W) (UTURN ARROW)	EA	4	
662 2094	WK ZN PAV MRK REMOV (W) (WORD)	EA	19	
662 2095	WK ZN PAV MRK REMOV (W) 18" (YLD TRI)	EA	7	
662 2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	6011	
662 2103	WK ZN PAV MRK REMOV (Y) 8" (SLD)	LF	182	
662 2113	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	1218	
662 2115	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	458	
666 2003	REFL PAV MRK TY I (W) 4" (BRK)(100MIL)	LF	190	
666 2012	REFL PAV MRK TY I (W) 4" (SLD)(100MIL)	LF	4287	
666 2036	REFL PAV MRK TY I (W) 8" (SLD)(100MIL)	LF	1333	
666 2048	REFL PAV MRK TY I (W) 24"(SLD)(100MIL)	LF	489	
666 2054	REFL PAV MRK TY I (W) (ARROW) (100MIL)	EA	10	
666 2069	REFL PAV MRK TY I(W)(DBL ARROW)(100MIL)	EA	2	
666 2093	REFL PAV MRK TY I(W)(UTURN ARW)(100MIL)	EA	2	
666 2096	REFL PAV MRK TY I (W) (WORD) (100MIL)	EA	10	
666 2099	REF PAV MRK TY I(W)18"(YLD TRI)(100MIL)	EA	25	
666 2111	REFL PAV MRK TY I (Y) 4" (SLD)(100MIL)	LF	3512	
666 2141	REFL PAV MRK TY I (Y)(MED NOSE)(100MIL)	EA	1	
666 2189	PAVEMENT SEALER 4"	LF	7799	
666 2191	PAVEMENT SEALER 8"	LF	1333	
666 2195	PAVEMENT SEALER 24"	LF	489	
666 2219	PAVEMENT SEALER (ARROW)	EA	10	
666 2220	PAVEMENT SEALER (WORD)	EA	10	
666 2221	PAVEMENT SEALER (MED NOSE)	EA	1	
666 2224	PAVEMENT SEALER (DBL ARROW)	EA	2	
666 2230	PAVEMENT SEALER UTURN ARROW	EA	2	
666 2257	PAVEMENT SEALER (YLD TRI)	EA	25	
672 2017	REFL PAV MRKR TY II-C-R	EA	127	
677 2001	ELIM EXT PAV MRK & MRKS (4")	LF	3006	
677 2003	ELIM EXT PAV MRK & MRKS (8")	LF	1158	
677 2005	ELIM EXT PAV MRK & MRKS (12")	LF	450	
677 2020	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	7	
690 2024	REMOVAL OF SIGNAL HEAD ASSM	EA	1	
690 2026	INSTALL OF SIGNAL HEAD ASSM	EA	1	
690 2051	REMOVAL OF SIGNAL POLE ASSM	EA	1	
6834 2002	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4	

BID ALTERNATE 1: ALTERNATE TRAFFIC CONTROL

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
203.1	TACK COAT	GAL	1076.3
205.3	HMA PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	10763
208.1	SALV, HAUL & STKPL RCL APH PV (2")	SY	10763
535	24 INCH WIDE YELLOW LINE	LF	252
535.1	4 INCH WIDE YELLOW LINE	LF	260
535.11	COM THRU/LEFT WHITE ARROW	EA	6
535.12	WORD "ONLY"	EA	5
535.2	4 INCH WIDE WHITE LINE	LF	790
535.4	8 INCH WIDE WHITE LINE	LF	1433
535.5	12 INCH WIDE WHITE LINE	LF	1669
535.7	24 INCH WIDE WHITE LINE	LF	756
535.8	RIGHT WHITE ARROW	EA	5
535.9	LEFT WHITE ARROW	EA	14
537.6	TRAFFIC BUTTON TYPE I-C	EA	19
537.8	TRAFFIC BUTTON TYPE II-A-A	EA	14
537.9	TRAFFIC BUTTON TYPE II-C-R	EA	116
305 2002	SALV, HAUL & STKPL RCL APH PV (0 TO 2")	SY	3336
340 2050	D-GR HMA(METH) TY-C PG70-22	TON	367
502 2001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	12
662 2064	WK ZN PAV MRK REMOV (W) 4" (BRK)	LF	315
662 2065	WK ZN PAV MRK REMOV (W) 4" (DOT)	LF	344
662 2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	916
662 2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	1967
662 2084	WK ZN PAV MRK REMOV (W) (ARROW)	EA	251
662 2085	WK ZN PAV MRK REMOV (W) (DBL ARROW)	EA	7
662 2094	WK ZN PAV MRK REMOV (W) (WORD)	EA	15
662 2113	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	185
662 2115	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	32
666 2003	REFL PAV MRK TY I (W) 4" (BRK)(100MIL)	LF	160
666 2036	REFL PAV MRK TY I (W) 8" (SLD)(100MIL)	LF	30
666 2048	REFL PAV MRK TY I (W) 24"(SLD)(100MIL)	LF	357
666 2111	REFL PAV MRK TY I (Y) 4" (SLD)(100MIL)	LF	812
666 2132	REFL PAV MRK TY I (Y) 24"(SLD)(100MIL)	LF	155
666 2141	REFL PAV MRK TY I (Y)(MED NOSE)(100MIL)	EA	2

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
666 2141	REFL PAV MRK TY I (Y)(MED NOSE)(100MIL)	EA	2
666 2189	PAVEMENT SEALER 4"	LF	972
666 2191	PAVEMENT SEALER 8"	LF	30
666 2195	PAVEMENT SEALER 24"	LF	512
666 2221	PAVEMENT SEALER (MED NOSE)	EA	2
672 2012	REFL PAV MRKR TY I-C	EA	18
672 2015	REFL PAV MRKR TY II-A-A	EA	120
672 2017	REFL PAV MRKR TY II-C-R	EA	3
677 2008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
690 2024	REMOVAL OF SIGNAL HEAD ASSM	EA	19
690 2026	INSTALL OF SIGNAL HEAD ASSM	EA	19

SAWS WATER LINE

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
413	FLOWABLE FILL	CY	87.78
550	TRENCH EXCAVATION	LF	1808
814	12" DI PIPE	LF	1808
814	24" DI PIPE	LF	0
814	20" DI PIPE	LF	45
814	6" DI PIPE	LF	45
814	8" DI PIPE	LF	40
824	LONG SERVICE	EA	1
824	SHORT SERVICE	EA	1
828	8" GATE VALVE	EA	2
828	12" GATE VALVES	EA	3
828	6" GATE VALVE	EA	1
828	20" BUTTERFLY VALVE	EA	1
830	24" BUTTERFLY VALVE	EA	5
831	24" X 24" TEE CUT-IN	EA	2
834	FIRE HYDRANT	EA	3
836	FITTINGS	TON	12.1
840	12" WATER TIE-INS	EA	2
840	24" WATER TIE-INS	EA	4
841	HYDROSTATIC TESTING	EA	3
844	2" TEMPORARY BLOW OFF	EA	1
844	4" TEMPORARY BLOW OFF	EA	2
846	2" AIR RELEASE VALVE	EA	1
856	24" STEEL CASING	LF	20
856	42" STEEL CASING	LF	45
858	CONCRETE ENCASEMENT	CY	5.8
3000	DISPOSAL OF AC PIPE	LF	50

SAWS SEWER

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	129
858	CONCRETE ENCASEMENT	CY	15.4
862	SEWER LINE ABANDONMENT	LF	167

SAWS RECYCLED WATER

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
511.2	ASPHALT PAVEMENT REPLACEMENT, 11" CTB	SY	5
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	258
818	12" PVC RECYCLED WATER MAIN	LF	258
836	PIPE FITTINGS	TON	0.5
840	TIE-IN 12"	EA	2
841	HYDROSTATIC TEST	EA	1
844	2" TEMPORARY BLOW-OFF	EA	1
862	ABANDONMENT OF RECYCLED WATER MAIN	LF	342

CHILLED WATER

LINE "A": BOWIE ST. TO MONTANA ST.

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
1	20" CHW STEEL PIPE (OPEN CUT)	LF	72
2	20" CHW PIPE INSULATION	LF	72
3	20" GATE VALVE	EA	2
4	20" BUTTERFLY VALVE	EA	2
5	30" CHW STEEL PIPE (OPEN CUT)	LF	2484
6	30" CHW PIPE PRE-INSULATION	LF	2484
7	30" BUTTERFLY VALVE	EA	4
8	TRENCH EXCAVATION SAFETY PROTECTION	LF	1242
9	TRENCHING, BACKFILLING & COMPACTION	LF	1242
10	CONCRETE ANCHOR	EA	4
11	30" PIPE STOP (INCLUDE HOT TAPPING)	EA	4
12	TIE-IN 30"	EA	4
13	2" AIR RELEASE ASSEMBLIES	EA	8
14	4" TEMPORARY BLOW-OFF	EA	4
15	HYDROSTATIC TEST	EA	2
16	CATHODIC PROTECTION	LF	2484
17	REINFORCED CONCRETE VAULT	EA	1
18	ABANDONMENT OF CHILLED WATER MAIN	LF	1017

LINE "B": CESAR CHAVEZ BLVD. TO MONTANA ST.

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
40	20" CHW STEEL PIPE (OPEN CUT)	LF	3059.4
41	20" CHW PIPE PRE-INSULATION	LF	3059.4
42	JACK & BORE 60" DIA	LF	420.3
43	STEEL CASING 60" DIA	LF	430.3
44	20" CHW STEEL CARRIER PIPE	LF	860.6
45	20" CHW CARRIER PIPE INSULATION	LF	860.6
46	20" GATE VALVE	EA	4
47	TRENCHING, BACKFILLING & COMPACTION	LF	1530
48	TRENCH EXCAVATION SAFETY PROTECTION	LF	1530
49	QUICK SETTING FLOWABLE FILL	CY	1789
50	24" X 20" HOT TAPPING	EA	2
51	30" X 20" HOT TAPPING	EA	2
52	2" AIR RELEASE ASSEMBLIES	EA	12
53	4" TEMPORARY BLOW-OFF	EA	4
54	HYDROSTATIC TEST	EA	4
55	CATHODIC PROTECTION	LF	3920
56	3" MILL & OVERLAY ASPHALT	SY	440
57	ASPHALT PAVEMENT REPLACEMENT	SY	140

ALTERNATE INSULATION FOR LINE "A": BOWIE ST. TO MONTANA ST.

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
30	DEDUCT TRENCHING, BACKFILLING & COMPACTION	LF	1242
31	DEDUCT 20 CHW PIPE PRE-INSULATION	LF	72
32	DEDUCT 30" CHW PIPE PRE-INSULATION	LF	2484
33	DEDUCT CATHODIC PROTECTION	LF	2484
34	ADD GILSULATE 500XR INSULATION (MATERIAL ONLY)	CF	29601
35	ADD GILSULATE 500XR INSULATION (SHIPPING & HANDLING)	TRUCK	27.6
36	ADD GILSULATE 500XR INSULATION (INSTALLATION, COMPLETE)	CF	29601

ALTERNATE INSULATION FOR LINE "B": CESAR CHAVEZ BLVD. TO MONTANA ST.

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
70	DEDUCT TRENCHING, BACKFILLING & COMPACTION	LF	1530
71	DEDUCT 20" CHW PIPE PRE-INSULATION	LF	3059.4
72	DEDUCT CATHODIC PROTECTION	LF	3059.4
73	ADD GILSULATE 500XR INSULATION (MATERIAL ONLY)	CF	20954
74	ADD GILSULATE 500XR INSULATION (SHIPPING & HANDLING	TRUCK	19.4
75	ADD GILSULATE 500XR INSULATION (INSTALLATION, COMPLETE	CF	20954

1

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES

AT&T - UNDERGROUND UTILITY

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
1	6-4" PVC CONCRETE ENCASED (TELE)	LF	1678
2	DIRECTIONAL BORE	LF	784
3	TRENCH PROTECTION	LF	874
4	MANHOLE 4'x8'x6'	EA	6
4	REMOVAL OF EXIST MANHOLE	EA	9
5	COPPER INSTALLATION	LF	2275
6	FIBER INSTALLATION	LF	2275

CPS - UNDERGROUND ELECTRIC

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
1	CONDUIT CONCRETE ENCASED 12-4" PVC W/3-2" (SCH 40)	L.F.	2579
2	DIRECTIONAL BORE	L.F.	813
3	TRENCH EXCAVATION	L.F.	2085
4	MANHOLE 7'x7'x7' (ELEC)	L.F.	16

TIME WARNER AND IT CONDUITS

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
618	CONDUIT - PVC (SCH 40) (4 RUNS)	LF	1840
852	MANHOLE 4'x4'	EA	5
550.1	TRENCH EXCAVATION PROTECTION	LF	1840

CPS - GAS LINE

ITEM NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES
100.1	MOBILIZATION	LS	1
100.2	PREPARATION OF RIGHT OF WAY	LS	1
1	INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH)		
1.1	6" PLASTIC PIPE AND TRACER WIRE	LF	145
1.2	8" PLASTIC PIPE AND TRACER WIRE	LF	172
1.3	12" STEEL PIPE	LF	470
2	CONCRETE/FLATWORK	SY	17
3	FLOWABLE FILL	CY	195
4	CUT AND RESTORE PAVEMENT (TO BE USED AS DIRECTED)	SY	56

NO	REVISION	DRAWN	APPROVED	DATE
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				/ /
1	ADDENDUM 2	BAG	RDA	01/18/13

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

QUANTITY ESTIMATE

SHEET 2 OF 2

100% SUBMITTAL	PROJECT NO.: $PROJECTNO$		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 19

DN: URS CK: URS DW: URS CK: URS

DATE: 1/17/2013 10:57:14 PM
FILE: GEN_SUMM_02.dgn

CITY OF SAN ANTONIO ITEMS				ROADWAY SHEETS																					
ITEM NO.	BID ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
202.1	PRIME COAT	GAL	807											48											
203.1	TACK COAT	GAL	1,693	76					68	112	141	97	35	196											51
209.1	CONCRETE PAVEMENT (10" DEEP)(BUS PAD)	SY	178																						
500.4	CONCRETE CURB & GUTTER (> 1,000 L.F.)	LF	6,183	31	4	30			213	168	230	200	122		511	490	220	220	164	330	225	220	196	90	
500.5	CONCRETE CURB & GUTTER TY 2	LF	3,701	0	301	330	360	350	0	0	0				160	85	220	220	220	110	220	220	155	220	220
502.1	CONCRETE SIDEWALKS(1,000 S.Y.< X <10,000S.Y.)	SY	9,693	36	416	486	461	429	178	243	405	64			452	402	554	554	533	414	476	530	408	360	269
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (100 S.Y. < X < 10,000 S.Y.)	SY	200																						
506.1	CONCRETE RETAINING WALLS-COMB. TYPE (< 20 C.Y.)	CY	10			6																			
524	CONCRETE STEPS	CY	3		3																				
9001	GROUT COLUMNS	LF	2,353																						
9009	GEOGRID FOR BASE AND EMBANKMENT REINFORCEMENT	SY	22,107	166	1,016	940	940	1,013		27	122	112	1,004	481	837	1,175	895	1,074	1,095	623	789	669	613	638	82
9014.3.1	TRANSPORTATION TO DISPOSAL FACILITY (CLASS 2 NON-HAZ SOIL) (COSA)	CY	621																						
9014.3.2	LANDFILL DISPOSAL (CLASS 2 NON-HAZ SOIL) (COSA)	CY	621																						
9014.3.3	TRANSPORTATION TO DISPOSAL FACILITY (CLASS 2 NON-HAZ SOIL) (CPS)	CY	175																						
9014.3.4	LANDFILL DISPOSAL (CLASS 2 NON-HAZ SOIL) (CPS)	CY	175																						
9016.1	CONCRETE STRUCTURE (STORM WATER PLANTER: 4' - 5' WIDE)	LF	1,870													20	220	220	220	110	220	220		110	220
9016.2	CONCRETE STRUCTURE (STORM WATER PLANTER: 5' - 6' WIDE)	LF	1,160		120	180	180	190							160	65							155	110	
9016.3	CONCRETE STRUCTURE (STORM WATER PLANTER: 6' - 7' WIDE)	LF	670		180	150	180	160																	
9016.4	CONCRETE STRUCTURE (STORM WATER PLANTER: 7' - 13' WIDE)	LF	0																						
9018.1	ORNAMENTAL FENCE	LF	367	25	180	162																			
9018.2	ORNAMENTAL GATE	EA	1		1																				

TXDOT ITEMS				ROADWAY SHEETS																					
ITEM NO.	BID ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
104 2021	REMOVING CONC (CURB)	LF	250																						
110 2001	EXCAVATION (ROADWAY)	CY	3,354																						
*	CEMENT TREAT (SUBGRADE)(6")	SY	15,258	166	1,016	940	940	1,013		27	122	112	1,004		837	1,175	895	1,074	1,095	623	789	669	613	638	82
132 2006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	912																						
247 2041	FL BS (CMP IN PLC) (TY A GR 1) (FNAL POS	CY	1,572											159											
340 2014	D-GR HMA(METH) TY-B PG70-22	TON	12,053	91	559	517	517	557		15	67	62	552	238	460	646	492	590	602	343	434	368	337	351	45
340 2050	D-GR HMA(METH) TY-C PG70-22	TON	5,750	124	233	250	231	233	75	126	173	128	314	229	177	279	219	262	272	138	183	150	141	127	75
342 2002	PFC (ASPHALT) PG76-22	TON	506											36											
360 2002	CONC PVMT (CONT REINF - CRCP) (9")	SY	563																						
420 2006	CL C CONC (RAIL FOUNDATION)	CY	15																						
423 2012	RETAINING WALL (CAST-IN-PLACE)	SF	503	15	423	65																			
432 2001	RIPRAP (CONC)(4 IN)	CY	195							2						3					2	1	1		
432 2039	RIPRAP (MOW STRIP)(4 IN)	CY	22																						
432 2048	RIPRAP (CONC)(FLUME)	CY	44																						
450 2077	RAIL (PEDESTRIAN RAIL) (TY PR6)	LF	213									21											81	111	
450 2079	RAIL (HANDRAIL) (SPL)	LF	162																						
450 2210	RAILING (TY T551) (MOD)	LF	643																						
508 2002	CONSTRUCTING DETOURS	SY	1,908																						
512 2004	PORT CTB (FUR & INST) (SNGL SLP) (TY 1)	LF	1,248																						
512 2040	PORT CTB (REMOVE) (SNGL SLP) (TY 1)	LF	1,248																						
514 2015	PERM CONC TRF BARR (F-SHAPE)(TY 1)	LF	443																						
514 2016	PERM CONC TRF BARR (F-SHAPE)(TY 2)	LF	30																						
540 2001	MTL W-BEAM GD FEN (TIM POST)	LF	873																						
540 2005	TERMINAL ANCHOR SECTION	EA	2																						
540 2044	DOWNSTREAM ANCHOR TERMINAL (DAT) SECTION	EA	2																						
542 2001	REMOVING METAL BEAM GUARD FENCE	LF	200																						
545 2049	CRASH CUSH ATTEN (INSTL) (WORK ZONE)	EA	2																						
545 2051	CRASH CUSH ATTEN (REMOVE) (WORK ZONE)	EA	2																						

CITY OF SAN ANTONIO ITEMS				REMOVAL SHEETS																
ITEM NO.	BID ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147
*	REMOVE FENCE	L.F.	823			120							126	220	231					
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2")	S.Y.	23,694	912	1,051	793		265	749	1,380	1,918	1,031	562	989	663	623	589	1,078	635	927

* ITEM FOR CONTRACTOR'S INFO ONLY. FENCE REMOVAL IS SUBSIDARY TO ITEM 101 PREPARING RIGHT-OF-WAY

TXDOT ITEMS				REMOVAL SHEETS																
ITEM NO.	BID ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147
104 2009	REMOVE RIPRAP	S.Y.	2,226							47	73	29					919	150	98	418
104 2011	REMOVE CONCRETE MEDIANS	SY	165							61	62	25								
104 2015	REMOVING CONC (SIDEWALKS)	SY	6,374	66	447	251		62	58	286	234	157						898		
104 2021	REMOVING CONC (CURB)	L.F.	6,583	30	360	260		235	102	497	500	488	237	418	238		125	290		340
452 2010	REMOV RAIL (PEDESTRIAN)	L.F.	255		180	75														
495 2001	RAISING EXIST STRUCT	EA	1			1														
496 2011	REMOV STR (BRIDGE 500-999 FT LENGTH)	EA	1																	
496 2067	REMOV STR (LRG PED BRIDGE) (0-50 FT LENGTH)	EA	1																	
512 2052	PORT CTB (REMOVE)(F-SHAPE)(TY 1)	LF	1,322							44	220	62						235	445	316
542 2001	REMOVE METAL BEAM GUARD FENCE	L.F.	1,180											193	229	306	79			307
610 2072	REMOVE ROADWAY ILLUMINATION ASSEMBLY	EA	30		1	1		1		1	1	1		2	1	1		1	1	2
644 2060	REMOVE SMALL ROADSIDE SIGN ASSEMBLY	EA	29		1	1		3	1	3	1	4	3				4	3		
644 2056	RELOCATE SM RD SN SUP & AM TY 10BWG	EA	3																	
647 2002	RELOCATE LRSA	EA	1		1															
690 2051	REMOVAL OF SIGNAL POLE ASSM	EA	1									1								

NO	REVISION	DRAWN	APPROVED	DATE
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1	ADDENDUM 2	BAG	RDA	1/18/13

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CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

ROADWAY AND REMOVAL QUANTITIES

SHEET 1 OF 2

100% SUBMITTAL	PROJECT NO.: $PROJECTNO$	DATE: 1/17/2013
DRWN. BY:	DSGN. BY: CHKD. BY:	SHEET NO.: 20

DATE: 1/17/2013 10:57:33 PM
FILE: GEN_SUMM_03.dgn

CK: URS
DW: URS
CK: URS
DN: URS

CITY OF SAN ANTONIO ITEMS		ROADWAY SHEETS																											
ITEM NO.	BID ITEM DESCRIPTION	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	PROJECT
202.1	PRIME COAT			62	112				67	90	0	49	64	74	46						110	84							
203.1	TACK COAT	81	83	48	101		10	91	64	87	0	47	61	86	69						51	39							
209.1	CONCRETE PAVEMENT (10" DEEP)(BUS PAD)										0																		178
500.4	CONCRETE CURB & GUTTER (> 1,000 L.F.)		35	463	352	365	320	256			0	65	385	35							104		139						
500.5	CONCRETE CURB & GUTTER TY 2	220	90								0																		
502.1	CONCRETE SIDEWALKS(1,000 S.Y.< X <10,000S.Y.)	269	202			347	480	338			0			20										364					
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (100 S.Y. < X < 10,000 S.Y.)										0																		200
506.1	CONCRETE RETAINING WALLS-COMB. TYPE (< 20 C.Y.)							4			0																		
524	CONCRETE STEPS											1																	
9001	GROUT COLUMNS										0	2,353																	
9009	GEOGRID FOR BASE AND EMBANKMENT REINFORCEMENT			625	1,122	616	553		666	904	0	491	642	726	226						546	421	260						
9014.3.1	TRANSPORTATION TO DISPOSAL FACILITY (CLASS 2 NON-HAZ SOIL) (COSA)																												621
9014.3.2	LANDFILL DISPOSAL (CLASS 2 NON-HAZ SOIL) (COSA)																												621
9014.3.3	TRANSPORTATION TO DISPOSAL FACILITY (CLASS 2 NON-HAZ SOIL) (CPS)																												175
9014.3.4	LANDFILL DISPOSAL (CLASS 2 NON-HAZ SOIL) (CPS)																												175
9016.1	CONCRETE STRUCTURE (STORM WATER PLANTER: 4' - 5' WIDE)	220	90								0																	1	
9016.2	CONCRETE STRUCTURE (STORM WATER PLANTER: 5' - 6' WIDE)										0																		
9016.3	CONCRETE STRUCTURE (STORM WATER PLANTER: 6' - 7' WIDE)										0																		
9016.4	CONCRETE STRUCTURE (STORM WATER PLANTER: 7' - 13' WIDE)										0																		
9018.1	ORNAMENTAL FENCE																												
9018.2	ORNAMENTAL GATE																												

TXDOT ITEMS		ROADWAY SHEETS																											
ITEM NO.	BID ITEM DESCRIPTION	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	PROJECT
104 2021	REMOVING CONC (CURB)										0								195	55									
110 2001	EXCAVATION (ROADWAY)										0			18	1	196	22	509	468	16	1,498	626							
*	CEMENT TREAT (SUBGRADE)(6")					616	553				0											*	260						
132 2006	EMBANKMENT (FINAL)(DENS CONT)(TY C)										0			247	162			218	276	9									
247 2041	FL BS (CMP IN PLC) (TY A GR 1) (FNAL POS								220	298	0	162	212	123	75						182	141							
340 2014	D-GR HMA(METH) TY-B PG70-22					339	304		330	447	0	243	318	183	112	259	30	547	460	16	271	208	143						
340 2050	D-GR HMA(METH) TY-C PG70-22	89	91			158	141	100	89	121	0	66	85	43	23	129	15	172	101	3	69	55	62						
342 2002	PFC (ASPHALT) PG76-22			40					53	72	0	39	50	71	71						42	32							
360 2002	CONC PVMT (CONT REINF - CRCP) (9")										0															180	160	223	
420 2006	CL C CONC (RAIL FOUNDATION)								14		0													1					
423 2012	RETAINING WALL (CAST-IN-PLACE)								1		0													1					
432 2001	RIPRAP (CONC)(4 IN)			9			43	15	7	30	0			4							39	41							
432 2039	RIPRAP (MOW STRIP)(4 IN)						1	1			0			10	12														
432 2048	RIPRAP (CONC)(FLUME)			27	17						0																		
450 2077	RAIL (PEDESTRIAN RAIL) (TY PR6)										0																		
450 2079	RAIL (HANDRAIL) (SPL)										0													162					
450 2210	RAILING (TY T551) (MOD)								100	283	0	260												1					
508 2002	CONSTRUCTING DETOURS								1	1	0	1						826	1,046	36									
512 2004	PORT CTB (FUR & INST) (SNGL SLP) (TY 1)										0							538	656	54									
512 2040	PORT CTB (REMOVE) (SNGL SLP) (TY 1)										0							538	656	54									
514 2015	PERM CONC TRF BARR (F-SHAPE)(TY 1)								160	283	0																		
514 2016	PERM CONC TRF BARR (F-SHAPE)(TY 2)								25	5	0																		
540 2001	MTL W-BEAM GD FEN (TIM POST)			180	30					125	0			210	265							63							
540 2005	TERMINAL ANCHOR SECTION				1						0				1														
540 2044	DOWNSTREAM ANCHOR TERMINAL (DAT) SECTION										0			1							1								
542 2001	REMOVING METAL BEAM GUARD FENCE										0							200											
545 2049	CRASH CUSH ATTEN (INSTL) (WORK ZONE)								1		0							1											
545 2051	CRASH CUSH ATTEN (REMOVE) (WORK ZONE)								1		0							1											

* ITEM FOR CONTRACTOR'S INFO ONLY. MOISTURE TREATMENT IS SUBSIDARY TO ITEM 110 EXCAVATION.

CITY OF SAN ANTONIO ITEMS			REMOVAL SHEETS													
ITEM NO.	BID ITEM DESCRIPTION	UNIT	148	149	150	151	152	153	154	155	156	157	158	159	160	PROJECT
*	REMOVE FENCE	L.F.													126	
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2")	S.Y.	794	1,132	962	1,101	1,000	1,514		722	908	495	489	411		348

* ITEM FOR CONTRACTOR'S INFO ONLY. FENCE REMOVAL IS SUBSIDARY TO ITEM 101 PREPARING RIGHT-OF-WAY

TXDOT ITEMS			REMOVAL SHEETS													
ITEM NO.	BID ITEM DESCRIPTION	UNIT	148	149	150	151	152	153	154	155	156	157	158	159	160	PROJECT
104 2009	REMOVE RIPRAP	S.Y.			10					301	181					
104 2011	REMOVE CONCRETE MEDIANS	SY										16				
104 2015	REMOVING CONC (SIDEWALKS)	SY	31	156		147	106								3,477	
104 2021	REMOVING CONC (CURB)	L.F.	570	614	271	220	154			348	251	35				
452 2010	REMOV RAIL (PEDESTRIAN)	L.F.														
495 2001	RAISING EXIST STRUCT	EA														
496 2011	REMOV STR (BRIDGE 500-999 FT LENGTH)	EA														1
496 2067	REMOV STR (LRG PED BRIDGE) (0-50 FT LENGTH)	EA														1
512 2052	PORT CTB (REMOVE)(F-SHAPE)(TY 1)	LF														
542 2001	REMOVE METAL BEAM GUARD FENCE	L.F.	66													
610 2072	REMOVE ROADWAY ILLUMINATION ASSEMBLY	EA	2	2	1	1			2	3					5	
644 2060	REMOVE SMALL ROADSIDE SIGN ASSEMBLY	EA			2	2		1								
644 2056	RELOCATE SM RD SN SUP & AM TY 10BWG	EA						3								
647 2002	RELOCATE LRSA	EA														
690 2051	REMOVAL OF SIGNAL POLE ASSM	EA														

NO	REVISION	DRAWN	APPROVED	DATE
				/ /
				/ /
1	ADDENDUM 2	BAG	RDA	1/18/13

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CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

ROADWAY AND REMOVAL QUANTITIES

SHEET 2 OF 2

100% SUBMITTAL	PROJECT NO.: $PROJECTNO$	DATE: 1/17/2013
DRWN. BY:	DSGN. BY: CHKD. BY:	SHEET NO.: 21

CK: URS DW: URS CK: URS DN: URS

DATE: 1/17/2013 10:57:50 PM
FILE: GEN_SUMM_04.dgn

SHT NO	ITEM / INTERSECTION	0104-2021 REMOVING CONC (CURB)	0110-2001 EXCAVATION (ROADWAY)	0132-2003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	0340-2011 D-GR HMA (METH) TY-B PG64-22	0400-2008 CUT & RESTORING PAV (ASPH)	0512-2005 PORT CTB (FUR & INST) (SNGL SLP) (TY 2)	0512-2008 PORT CTB (FUR & INST) (LOW PROF) (TY 1)	0512-2009 PORT CTB (FUR & INST) (LOW PROF) (TY 2)	0512-2023 PORT CTB (MOVE) (SNGL SLP) (TY 2)	0512-2026 PORT CTB (MOVE) (LOW PROF) (TY 1)
		LF	CY	CY	TON	SY	LF	LF	LF	LF	LF
40	PHASE 1 STEP 1 SHEET 1 OF 15										
41	PHASE 1 STEP 1 SHEET 2 OF 15										
42	PHASE 1 STEP 1 SHEET 3 OF 15										
43	PHASE 1 STEP 1 SHEET 4 OF 15										
44	PHASE 1 STEP 1 SHEET 5 OF 15										
45	PHASE 1 STEP 1 SHEET 6 OF 15										
46	PHASE 1 STEP 1 SHEET 7 OF 15										
47	PHASE 1 STEP 1 SHEET 8 OF 15					47					
48	PHASE 1 STEP 1 SHEET 9 OF 15	145	135.0	75.0	68.7			120	20		
49	PHASE 1 STEP 1 SHEET 10 OF 15										
50	PHASE 1 STEP 1 SHEET 11 OF 15	329	270.0	150.0	275.8	311	160	685	20		
51	PHASE 1 STEP 1 SHEET 12 OF 15	345	135.0	75.0	153.5	120		400			
52	PHASE 1 STEP 1 SHEET 13 OF 15					270		375	40		
55	PHASE 1 STEP 2 SHEET 1 OF 15										
56	PHASE 1 STEP 2 SHEET 2 OF 15										
57	PHASE 1 STEP 2 SHEET 3 OF 15										
58	PHASE 1 STEP 2 SHEET 4 OF 15					507		340	60		760
59	PHASE 1 STEP 2 SHEET 5 OF 15					40					
60	PHASE 1 STEP 2 SHEET 6 OF 15										
61	PHASE 1 STEP 2 SHEET 7 OF 15						37				
62	PHASE 1 STEP 2 SHEET 8 OF 15						420				
63	PHASE 1 STEP 2 SHEET 9 OF 15										
64	PHASE 1 STEP 2 SHEET 10 OF 15										
65	PHASE 1 STEP 2 SHEET 11 OF 15						173				
65A	PHASE 1 STEP 2 SHEET 12 OF 15										
65B	PHASE 1 STEP 2 SHEET 13 OF 15										
66	PHASE 2 STEP 1 SHEET 1 OF 13										
67	PHASE 2 STEP 1 SHEET 2 OF 13										
68	PHASE 2 STEP 1 SHEET 3 OF 13						387			30	
69	PHASE 2 STEP 1 SHEET 4 OF 13										
70	PHASE 2 STEP 1 SHEET 5 OF 13						280				
71	PHASE 2 STEP 1 SHEET 6 OF 13						413				
72	PHASE 2 STEP 1 SHEET 7 OF 13									450	
73	PHASE 2 STEP 1 SHEET 8 OF 13						90				
74	PHASE 2 STEP 1 SHEET 9 OF 13										
82	PHASE 2 STEP 2 SHEET 4 OF 11				118.0						
83	PHASE 2 STEP 2 SHEET 5 OF 11										
84	PHASE 2 STEP 2 SHEET 6 OF 11										
85	PHASE 2 STEP 2 SHEET 7 OF 11										
86	PHASE 2 STEP 2 SHEET 8 OF 11										
87	PHASE 2 STEP 2 SHEET 9 OF 11										
88	PHASE 2 STEP 2 SHEET 10 OF 11										
89	PHASE 2 STEP 2 SHEET 11 OF 11										
90	PHASE 3 SHEET 1 OF 5										
91	PHASE 3 SHEET 2 OF 5										
92	PHASE 3 SHEET 3 OF 5							220	20		
93	PHASE 3 SHEET 4 OF 5							420			
94	PHASE 3 SHEET 5 OF 5							120	20		
-	FINAL STRIPING LAYOUT										
--	FORCE ACCOUNT					75					
	TOTALS	819	540.0	300.0	616.0	1370	1960	2680	180	480	760

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN SUMMARIES

SHEET 1 OF 6

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 28

1

SHT NO	ITEM / INTERSECTION	0512-2027 PORT CTB (MOVE) (LOW PROF) (TY 2) LF	0512-2035 PORT CTB (STKPL) (LOW PROF) (TY 1) LF	0512-2041 PORT CTB (REMOVE) (SNGL SLP) (TY 2) LF	0512-2044 PORT CTB (REMOVE) (LOW PROF) (TY 1) LF	0512-2045 PORT CTB (REMOVE) (LOW PROF) (TY 2) LF	0542-2001 REMOVING METAL BEAM GUARD FENCE LF	0542-2002 REMOVING TERMINAL ANCHOR SECTION EA	0545-2001 CRASH CUSH ATTEN (INSTL) EA	0545-2002 CRASH CUSH ATTEN (MOVE & RESET) EA	0545-2003 CRASH CUSH ATTEN (REMOVE) EA
40	PHASE 1 STEP 1 SHEET 1 OF 15										
41	PHASE 1 STEP 1 SHEET 2 OF 15										
42	PHASE 1 STEP 1 SHEET 3 OF 15										
43	PHASE 1 STEP 1 SHEET 4 OF 15										
44	PHASE 1 STEP 1 SHEET 5 OF 15										
45	PHASE 1 STEP 1 SHEET 6 OF 15										
46	PHASE 1 STEP 1 SHEET 7 OF 15										
47	PHASE 1 STEP 1 SHEET 8 OF 15										
48	PHASE 1 STEP 1 SHEET 9 OF 15				120	20					
49	PHASE 1 STEP 1 SHEET 10 OF 15										
50	PHASE 1 STEP 1 SHEET 11 OF 15			160	685	20			1		1
51	PHASE 1 STEP 1 SHEET 12 OF 15				400						
52	PHASE 1 STEP 1 SHEET 13 OF 15				375	40					
55	PHASE 1 STEP 2 SHEET 1 OF 15										
56	PHASE 1 STEP 2 SHEET 2 OF 15										
57	PHASE 1 STEP 2 SHEET 3 OF 15										
58	PHASE 1 STEP 2 SHEET 4 OF 15	200	240		340	60					
59	PHASE 1 STEP 2 SHEET 5 OF 15										
60	PHASE 1 STEP 2 SHEET 6 OF 15										
61	PHASE 1 STEP 2 SHEET 7 OF 15								1		
62	PHASE 1 STEP 2 SHEET 8 OF 15						280	1			
63	PHASE 1 STEP 2 SHEET 9 OF 15										
64	PHASE 1 STEP 2 SHEET 10 OF 15										
65	PHASE 1 STEP 2 SHEET 11 OF 15										
65A	PHASE 1 STEP 2 SHEET 12 OF 15										
65B	PHASE 1 STEP 2 SHEET 13 OF 15										
66	PHASE 2 STEP 1 SHEET 1 OF 13										
67	PHASE 2 STEP 1 SHEET 2 OF 13										
68	PHASE 2 STEP 1 SHEET 3 OF 13										
69	PHASE 2 STEP 1 SHEET 4 OF 13										
70	PHASE 2 STEP 1 SHEET 5 OF 13									1	
71	PHASE 2 STEP 1 SHEET 6 OF 13										
72	PHASE 2 STEP 1 SHEET 7 OF 13										
73	PHASE 2 STEP 1 SHEET 8 OF 13			172							
74	PHASE 2 STEP 1 SHEET 9 OF 13										
82	PHASE 2 STEP 2 SHEET 4 OF 11										
83	PHASE 2 STEP 2 SHEET 5 OF 11										
84	PHASE 2 STEP 2 SHEET 6 OF 11										
85	PHASE 2 STEP 2 SHEET 7 OF 11										
86	PHASE 2 STEP 2 SHEET 8 OF 11										
87	PHASE 2 STEP 2 SHEET 9 OF 11										
88	PHASE 2 STEP 2 SHEET 10 OF 11										
89	PHASE 2 STEP 2 SHEET 11 OF 11										
90	PHASE 3 SHEET 1 OF 5										
91	PHASE 3 SHEET 2 OF 5										
92	PHASE 3 SHEET 3 OF 5										
93	PHASE 3 SHEET 4 OF 5										
94	PHASE 3 SHEET 5 OF 5										
-	FINAL STRIPING LAYOUT										
--	FORCE ACCOUNT			1628	760	40					1
	TOTALS	200	240	1960	2680	180	280	1	2	1	2

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN SUMMARIES

SHEET 2 OF 6

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 29

SHT NO	ITEM / INTERSECTION	0644-2058 RELOCATE SM RD SN SUP & AM TY S80	0662-2001 WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	0662-2002 WK ZN PAV MRK NON-REMOV (W) 4" (DOT)	0662-2004 WK ZN PAV MRK NON-REMOV (W) 4" (SLD)	0662-2012 WK ZN PAV MRK NON-REMOV (W) 8" (SLD)	0662-2016 WK ZN PAV MRK NON-REMOV (W) 24" (SLD)	0662-2017 WK ZN PAV MRK NON-REMOV (W) (ARROW)	0662-2018 WK ZN PAV MRK NON-REMOV (W) (DBL ARROW)	0662-2026 WK ZN PAV MRK NON-REMOV (W) (UTURN ARROW)	0662-2027 WK ZN PAV MRK NON-REMOV (W) (WORD)
		EA	LF	LF	LF	LF	LF	EA	EA	EA	EA
40	PHASE 1 STEP 1 SHEET 1 OF 15										
41	PHASE 1 STEP 1 SHEET 2 OF 15										
42	PHASE 1 STEP 1 SHEET 3 OF 15										
43	PHASE 1 STEP 1 SHEET 4 OF 15										
44	PHASE 1 STEP 1 SHEET 5 OF 15										
45	PHASE 1 STEP 1 SHEET 6 OF 15										
46	PHASE 1 STEP 1 SHEET 7 OF 15										
47	PHASE 1 STEP 1 SHEET 8 OF 15										
48	PHASE 1 STEP 1 SHEET 9 OF 15										
49	PHASE 1 STEP 1 SHEET 10 OF 15										
50	PHASE 1 STEP 1 SHEET 11 OF 15				338						
51	PHASE 1 STEP 1 SHEET 12 OF 15										
52	PHASE 1 STEP 1 SHEET 13 OF 15	2									
55	PHASE 1 STEP 2 SHEET 1 OF 15										
56	PHASE 1 STEP 2 SHEET 2 OF 15										
57	PHASE 1 STEP 2 SHEET 3 OF 15										
58	PHASE 1 STEP 2 SHEET 4 OF 15										
59	PHASE 1 STEP 2 SHEET 5 OF 15				56						
60	PHASE 1 STEP 2 SHEET 6 OF 15				490						
61	PHASE 1 STEP 2 SHEET 7 OF 15										
62	PHASE 1 STEP 2 SHEET 8 OF 15										
63	PHASE 1 STEP 2 SHEET 9 OF 15				438						
64	PHASE 1 STEP 2 SHEET 10 OF 15		110		365						
65	PHASE 1 STEP 2 SHEET 11 OF 15		90		227	312					
65A	PHASE 1 STEP 2 SHEET 12 OF 15										
65B	PHASE 1 STEP 2 SHEET 13 OF 15										
66	PHASE 2 STEP 1 SHEET 1 OF 13										
67	PHASE 2 STEP 1 SHEET 2 OF 13										
68	PHASE 2 STEP 1 SHEET 3 OF 13										
69	PHASE 2 STEP 1 SHEET 4 OF 13										
70	PHASE 2 STEP 1 SHEET 5 OF 13										
71	PHASE 2 STEP 1 SHEET 6 OF 13										
72	PHASE 2 STEP 1 SHEET 7 OF 13										
73	PHASE 2 STEP 1 SHEET 8 OF 13										
74	PHASE 2 STEP 1 SHEET 9 OF 13										
82	PHASE 2 STEP 2 SHEET 4 OF 11										
83	PHASE 2 STEP 2 SHEET 5 OF 11										
84	PHASE 2 STEP 2 SHEET 6 OF 11										
85	PHASE 2 STEP 2 SHEET 7 OF 11										
86	PHASE 2 STEP 2 SHEET 8 OF 11										
87	PHASE 2 STEP 2 SHEET 9 OF 11										
88	PHASE 2 STEP 2 SHEET 10 OF 11										
89	PHASE 2 STEP 2 SHEET 11 OF 11										
90	PHASE 3 SHEET 1 OF 5										
91	PHASE 3 SHEET 2 OF 5										
92	PHASE 3 SHEET 3 OF 5										
93	PHASE 3 SHEET 4 OF 5										
94	PHASE 3 SHEET 5 OF 5										
-	FINAL STRIPING LAYOUT		1340	64	4911	3292	1573	31	2	2	20
--	FORCE ACCOUNT										
	TOTALS	2	1540	64	6825	3604	1573	31	2	2	20

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CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN SUMMARIES

SHEET 3 OF 6

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 30

SHT NO	ITEM / INTERSECTION	0662-2028 WK ZN PAV MRK NON-REMOV (W)18"(YLD TRI)	0662-2030 WK ZN PAV MRK NON-REMOV (Y) 4" (BRK)	0662-2032 WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	0662-2039 WK ZN PAV MRK NON-REMOV (Y) 24" (SLD)	0662-2064 WK ZN PAV MRK REMOV (W) 4" (BRK)	0662-2067 WK ZN PAV MRK REMOV (W) 4" (SLD)	0662-2073 WK ZN PAV MRK REMOV (W) 8" (DOT)	0662-2075 WK ZN PAV MRK REMOV (W) 8" (SLD)	0662-2079 WK ZN PAV MRK REMOV (W) 24" (SLD)	0662-2084 WK ZN PAV MRK REMOV (W) (ARROW)
		EA	LF	LF	LF	LF	LF	LF	LF	LF	EA
40	PHASE 1 STEP 1 SHEET 1 OF 15								160		2
41	PHASE 1 STEP 1 SHEET 2 OF 15					20	471		151	23	3
42	PHASE 1 STEP 1 SHEET 3 OF 15						658		253		2
43	PHASE 1 STEP 1 SHEET 4 OF 15								14		
44	PHASE 1 STEP 1 SHEET 5 OF 15						140				
45	PHASE 1 STEP 1 SHEET 6 OF 15						357		315		
46	PHASE 1 STEP 1 SHEET 7 OF 15						567				
47	PHASE 1 STEP 1 SHEET 8 OF 15						446				
48	PHASE 1 STEP 1 SHEET 9 OF 15						441				
49	PHASE 1 STEP 1 SHEET 10 OF 15						65				
50	PHASE 1 STEP 1 SHEET 11 OF 15			190		20	230				
51	PHASE 1 STEP 1 SHEET 12 OF 15			345		100			6		
52	PHASE 1 STEP 1 SHEET 13 OF 15								195	28	2
55	PHASE 1 STEP 2 SHEET 1 OF 15										
56	PHASE 1 STEP 2 SHEET 2 OF 15					20	328		268	20	1
57	PHASE 1 STEP 2 SHEET 3 OF 15					130	1018		29		
58	PHASE 1 STEP 2 SHEET 4 OF 15						139				
59	PHASE 1 STEP 2 SHEET 5 OF 15						196				
60	PHASE 1 STEP 2 SHEET 6 OF 15					20	470				
61	PHASE 1 STEP 2 SHEET 7 OF 15										
62	PHASE 1 STEP 2 SHEET 8 OF 15										
63	PHASE 1 STEP 2 SHEET 9 OF 15										
64	PHASE 1 STEP 2 SHEET 10 OF 15			252							
65	PHASE 1 STEP 2 SHEET 11 OF 15			232							
65A	PHASE 1 STEP 2 SHEET 12 OF 15					50			96		
65B	PHASE 1 STEP 2 SHEET 13 OF 15					20			506	35	4
66	PHASE 2 STEP 1 SHEET 1 OF 13						80				
67	PHASE 2 STEP 1 SHEET 2 OF 13						505				
68	PHASE 2 STEP 1 SHEET 3 OF 13						839		424		
69	PHASE 2 STEP 1 SHEET 4 OF 13						224	24		30	
70	PHASE 2 STEP 1 SHEET 5 OF 13						241				
71	PHASE 2 STEP 1 SHEET 6 OF 13						412		412		
72	PHASE 2 STEP 1 SHEET 7 OF 13						423		634	50	
73	PHASE 2 STEP 1 SHEET 8 OF 13						429				
74	PHASE 2 STEP 1 SHEET 9 OF 13								207		
82	PHASE 2 STEP 2 SHEET 4 OF 11						242		117		
83	PHASE 2 STEP 2 SHEET 5 OF 11										
84	PHASE 2 STEP 2 SHEET 6 OF 11						225				
85	PHASE 2 STEP 2 SHEET 7 OF 11						300				
86	PHASE 2 STEP 2 SHEET 8 OF 11					50	137				
87	PHASE 2 STEP 2 SHEET 9 OF 11					100	280				
88	PHASE 2 STEP 2 SHEET 10 OF 11					60			425		1
89	PHASE 2 STEP 2 SHEET 11 OF 11					40				12	
90	PHASE 3 SHEET 1 OF 5					160	970				
91	PHASE 3 SHEET 2 OF 5					40	137				
92	PHASE 3 SHEET 3 OF 5						384		379		
93	PHASE 3 SHEET 4 OF 5					80	420		198		
94	PHASE 3 SHEET 5 OF 5						152		413	28	
-	FINAL STRIPING LAYOUT	25	60	5749	62						
--	FORCE ACCOUNT										
	TOTALS	25	60	6768	62	910	11926	24	5202	226	15

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MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN SUMMARIES

SHEET 4 OF 6

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 31

SHT NO	ITEM / INTERSECTION	0662-2085 WK ZN PAV MRK REMOV (W) (DBL ARROW)	0662-2093 WK ZN PAV MRK REMOV (W) (UTURN ARROW)	0662-2094 WK ZN PAV MRK REMOV (W) (WORD)	0662-2095 WK ZN PAV MRK REMOV (W) 18" (YLD TRI)	0662-2099 WK ZN PAV MRK REMOV (Y) 4" (SLD)	0662-2103 WK ZN PAV MRK REMOV (Y) 8" (SLD)	0662-2113 WK ZN PAV MRK SHT TERM (TAB) TY W	0662-2115 WK ZN PAV MRK SHT TERM (TAB) TY Y-2	0677-2001 ELIM EXT PAV MRK & MRKS (4")	0677-2003 ELIM EXT PAV MRK & MRKS (8")
		EA	EA	EA	EA	LF	LF	EA	EA	LF	LF
40	PHASE 1 STEP 1 SHEET 1 OF 15			4		230				70	160
41	PHASE 1 STEP 1 SHEET 2 OF 15			1		528				20	181
42	PHASE 1 STEP 1 SHEET 3 OF 15			1		525				50	100
43	PHASE 1 STEP 1 SHEET 4 OF 15			1		360				40	100
44	PHASE 1 STEP 1 SHEET 5 OF 15										
45	PHASE 1 STEP 1 SHEET 6 OF 15					124					160
46	PHASE 1 STEP 1 SHEET 7 OF 15									70	
47	PHASE 1 STEP 1 SHEET 8 OF 15									130	
48	PHASE 1 STEP 1 SHEET 9 OF 15					257				490	
49	PHASE 1 STEP 1 SHEET 10 OF 15									65	
50	PHASE 1 STEP 1 SHEET 11 OF 15					203				27	
51	PHASE 1 STEP 1 SHEET 12 OF 15			1							
52	PHASE 1 STEP 1 SHEET 13 OF 15	2		1						82	
55	PHASE 1 STEP 2 SHEET 1 OF 15										
56	PHASE 1 STEP 2 SHEET 2 OF 15			1		56					70
57	PHASE 1 STEP 2 SHEET 3 OF 15									160	
58	PHASE 1 STEP 2 SHEET 4 OF 15										
59	PHASE 1 STEP 2 SHEET 5 OF 15									20	
60	PHASE 1 STEP 2 SHEET 6 OF 15									120	
61	PHASE 1 STEP 2 SHEET 7 OF 15										
62	PHASE 1 STEP 2 SHEET 8 OF 15										
63	PHASE 1 STEP 2 SHEET 9 OF 15										
64	PHASE 1 STEP 2 SHEET 10 OF 15					252				30	
65	PHASE 1 STEP 2 SHEET 11 OF 15					240				250	
65A	PHASE 1 STEP 2 SHEET 12 OF 15			2		153				196	
65B	PHASE 1 STEP 2 SHEET 13 OF 15	2	2	2		87					
66	PHASE 2 STEP 1 SHEET 1 OF 13									20	
67	PHASE 2 STEP 1 SHEET 2 OF 13									459	
68	PHASE 2 STEP 1 SHEET 3 OF 13										
69	PHASE 2 STEP 1 SHEET 4 OF 13					170				84	
70	PHASE 2 STEP 1 SHEET 5 OF 13										296
71	PHASE 2 STEP 1 SHEET 6 OF 13										
72	PHASE 2 STEP 1 SHEET 7 OF 13										
73	PHASE 2 STEP 1 SHEET 8 OF 13					430				75	
74	PHASE 2 STEP 1 SHEET 9 OF 13				7	78				78	
82	PHASE 2 STEP 2 SHEET 4 OF 11					600					
83	PHASE 2 STEP 2 SHEET 5 OF 11					40					
84	PHASE 2 STEP 2 SHEET 6 OF 11						182				
85	PHASE 2 STEP 2 SHEET 7 OF 11										
86	PHASE 2 STEP 2 SHEET 8 OF 11					574				130	
87	PHASE 2 STEP 2 SHEET 9 OF 11					368				190	
88	PHASE 2 STEP 2 SHEET 10 OF 11			1		510				130	91
89	PHASE 2 STEP 2 SHEET 11 OF 11					226					
90	PHASE 3 SHEET 1 OF 5									20	
91	PHASE 3 SHEET 2 OF 5										
92	PHASE 3 SHEET 3 OF 5										
93	PHASE 3 SHEET 4 OF 5	2	1	2							
94	PHASE 3 SHEET 5 OF 5	2	1	2							
-	FINAL STRIPING LAYOUT							1218	458		
--	FORCE ACCOUNT										
	TOTALS	8	4	19	7	6011	182	1218	458	3006	1158

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MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN SUMMARIES

SHEET 5 OF 6

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHK'D. BY:	SHEET NO.: 32

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SHT NO	ITEM / INTERSECTION	0677-2005 ELIM EXT PAV MRK & MRKS (12") LF	0677-2020 ELIM EXT PAV MRK & MRKS (36")(YLD TRI) EA	0690-2024 REMOVAL OF SIGNAL HEAD ASSM EA	0690-2026 INSTALL OF SIGNAL HEAD ASSM EA	6834-2002 PORTABLE CHANGEABLE MESSAGE SIGN EA
40	PHASE 1 STEP 1 SHEET 1 OF 15					
41	PHASE 1 STEP 1 SHEET 2 OF 15					
42	PHASE 1 STEP 1 SHEET 3 OF 15					
43	PHASE 1 STEP 1 SHEET 4 OF 15					
44	PHASE 1 STEP 1 SHEET 5 OF 15					
45	PHASE 1 STEP 1 SHEET 6 OF 15					
46	PHASE 1 STEP 1 SHEET 7 OF 15					
47	PHASE 1 STEP 1 SHEET 8 OF 15					
48	PHASE 1 STEP 1 SHEET 9 OF 15	450				
49	PHASE 1 STEP 1 SHEET 10 OF 15					
50	PHASE 1 STEP 1 SHEET 11 OF 15					
51	PHASE 1 STEP 1 SHEET 12 OF 15					
52	PHASE 1 STEP 1 SHEET 13 OF 15					
55	PHASE 1 STEP 2 SHEET 1 OF 15			1	1	
56	PHASE 1 STEP 2 SHEET 2 OF 15					
57	PHASE 1 STEP 2 SHEET 3 OF 15					
58	PHASE 1 STEP 2 SHEET 4 OF 15					
59	PHASE 1 STEP 2 SHEET 5 OF 15					
60	PHASE 1 STEP 2 SHEET 6 OF 15					
61	PHASE 1 STEP 2 SHEET 7 OF 15					
62	PHASE 1 STEP 2 SHEET 8 OF 15					
63	PHASE 1 STEP 2 SHEET 9 OF 15					
64	PHASE 1 STEP 2 SHEET 10 OF 15					
65	PHASE 1 STEP 2 SHEET 11 OF 15					
65A	PHASE 1 STEP 2 SHEET 12 OF 15					
65B	PHASE 1 STEP 2 SHEET 13 OF 15					
66	PHASE 2 STEP 1 SHEET 1 OF 13					
67	PHASE 2 STEP 1 SHEET 2 OF 13					
68	PHASE 2 STEP 1 SHEET 3 OF 13					
69	PHASE 2 STEP 1 SHEET 4 OF 13					
70	PHASE 2 STEP 1 SHEET 5 OF 13					
71	PHASE 2 STEP 1 SHEET 6 OF 13					
72	PHASE 2 STEP 1 SHEET 7 OF 13					
73	PHASE 2 STEP 1 SHEET 8 OF 13					
74	PHASE 2 STEP 1 SHEET 9 OF 13		7			
82	PHASE 2 STEP 2 SHEET 4 OF 11					
83	PHASE 2 STEP 2 SHEET 5 OF 11					
84	PHASE 2 STEP 2 SHEET 6 OF 11					
85	PHASE 2 STEP 2 SHEET 7 OF 11					
86	PHASE 2 STEP 2 SHEET 8 OF 11					
87	PHASE 2 STEP 2 SHEET 9 OF 11					
88	PHASE 2 STEP 2 SHEET 10 OF 11					
89	PHASE 2 STEP 2 SHEET 11 OF 11					
90	PHASE 3 SHEET 1 OF 5					
91	PHASE 3 SHEET 2 OF 5					
92	PHASE 3 SHEET 3 OF 5					
93	PHASE 3 SHEET 4 OF 5					
94	PHASE 3 SHEET 5 OF 5					
-	FINAL STRIPING LAYOUT					
--	FORCE ACCOUNT					4
	TOTALS	450	7	1	1	4

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN SUMMARIES

SHEET 6 OF 6

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 33

MARKET ST REALIGNMENT -- TRAFFIC CONTROL GENERAL NOTES & PHASING NARRATIVE

1. THIS IS A SUGGESTED TRAFFIC CONTROL PLAN (TCP) FOR THE CONTRACTOR'S CONSIDERATION. THE CONTRACTOR MAY SUBMIT AN ALTERNATE TCP SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN TEXAS FOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL NOT IMPLEMENT ANY SUCH ALTERNATE TCP WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

2. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SEE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED AT THE JOB SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND RELATED INDUSTRY STANDARDS AND REGULATIONS. CITY CONSTRUCTION INSPECTORS AND THE TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT THE TRAFFIC CONTROL DEVICES BEING DEPLOYED. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE TRAFFIC CONTROL DEVICES DO NOT CONFORM TO ESTABLISHED STANDARDS OR INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP CONSTRUCTION OPERATIONS AT NO EXPENSE TO THE CITY UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED BY THE CONTRACTOR.

3. THESE SUGGESTED TRAFFIC CONTROL PLANS SERVE AS A GUIDE FOR THE SEQUENCING OF CONSTRUCTION AND THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THESE SUGGESTED TRAFFIC CONTROL PLANS DO NOT ATTEMPT TO ADDRESS EVERY ASPECT OF CONSTRUCTION THAT IS REQUIRED OR COULD BE ENCOUNTERED DURING EACH PHASE OF CONSTRUCTION. THIS DOES NOT, HOWEVER, RELIEVE THE CONTRACTOR FROM HIS SOLE RESPONSIBILITY OF CONSTRUCTING THE PROPOSED IMPROVEMENTS AND PROVIDING FOR THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION.

4. PEDESTRIAN DETOURS SHOULD BE PROVIDED AS DIRECTED BY THE ENGINEER AND CONFORMING TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CHAPTER 6D. IN THE EVENT A TEMPORARY PATH IS REQUIRED TO FACILITATE THE DETOUR, THE PATH, MATERIAL, AND SLOPES SHOULD CONFORM TO ADA AND TAS GUIDELINES. PEDESTRIAN DETOURS WILL NOT BE PAID FOR SEPARATELY HOWEVER ARE SUBSIDIARY TO ITEM 502.

5. REFER TO BARRICADE AND CONSTRUCTION STANDARDS BC (1 THRU 12) - 07 FOR OTHER PERTINENT INFORMATION NOT SHOWN.

6. PAYMENT FOR TRAFFIC CONTROL RELATED TO THE PROJECT WORK ZONE AND ITS VARIOUS WORK AREAS SHALL BE INCIDENTAL TO ITEM 502, "BARRICADES SIGNS, AND TRAFFIC HANDLING".

7. USE NECESSARY FLAGGERS AND APPROPRIATE SIGNING TO SAFELY GUIDE THE TRAFFIC THROUGH THE WORK AREA AS DIRECTED.

8. INSTALL SIGNS AND BARRICADES AS APPROVED BY THE ENGINEER PRIOR TO OPENING THE SECTION TO TRAFFIC. THE ENGINEER MAY DIRECT THE CONTRACTOR TO FURNISH ADDITIONAL SIGNS, BARRICADES, AND CHANNELIZING DEVICES REQUIRED TO MAINTAIN TRAFFIC AND MOTORIST SAFETY DURING CONSTRUCTION. ANY SUCH ADDITIONAL SIGNS, BARRICADES, ETC., ARE CONSIDERED SUBSIDIARY TO PAY ITEM 502 "BARRICADES, SIGNS, AND TRAFFIC HANDLING".

9. INSTALL AND MAINTAIN ALL BARRICADES AND SIGNS IN GOOD VISIBLE CONDITION AT ALL TIMES. PROVIDE ENOUGH BARRICADES, CHANNELIZATION DEVICES AND SIGNS TO REPLACE THOSE DAMAGED DURING THE CONSTRUCTION OF THE PROJECT. THIS INCLUDES NECESSARY REPAIR AND MAINTENANCE DUE TO ACTS OF VANDALISM, NATURE OR ACCIDENT.

10. USE FLASHING WARNING LIGHTS AND FLAGS TO CALL ATTENTION TO ADVANCED WARNING SIGNS AS DIRECTED.

11. VERIFY THE LOCATION OF SIGNS, BARRICADES AND CHANNELIZING DEVICES PRIOR TO THEIR PLACEMENT TO ASSURE THEIR VISIBILITY TO ALL MOTORISTS IN VERTICAL CURVES, HORIZONTAL CURVES, AND OTHER GEOMETRIC CONSTRAINTS.

12. USE ADDITIONAL SIGNS AND BARRICADES TO DIRECT TRAFFIC AND PROTECT WORKERS IN THE IMMEDIATE VICINITY OF CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. THIS WORK IS CONSIDERED SUBSIDIARY TO ITEM 502.

13. MAINTAIN THOSE PORTIONS OF THE PROJECT WHICH REQUIRE CONSTRUCTION UNDER TRAFFIC IN AN ACCEPTABLE CONDITION. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.

14. THE SPACING OF SIGNS MAY VARY TO MEET TRAFFIC CONDITIONS AS DIRECTED BY THE ENGINEER.

15. REMOVE ALL SIGNS, BARRICADES, AND CHANNELIZATION DEVICES NOT IN USE FROM THE PROJECT SITE AND STORE NEATLY AT AN APPROVED LOCATION OR AS DIRECTED BY THE ENGINEER.

16. COOPERATE IN THE USE OF THE RIGHT-OF-WAY WITH THE STATE OF TEXAS, CITY OF SAN ANTONIO, AND VARIOUS PUBLIC UTILITY COMPANIES, AS REQUIRED TO ALLOW FOR UTILITY ADJUSTMENTS AND ROAD CONSTRUCTION TO BE DONE BY OTHERS.

17. PLACE ALL WORK ZONE PAVEMENT MARKING IN ACCORDANCE WITH STANDARD SHEETS BC (11)-07, BC (12)-07, AND THE LATEST VERSION OF TEXAS MUTCD.

18. CONSTRUCTION IN ANY AREA THAT IS ADVERSELY AFFECTING TRAFFIC PATTERNS OR SAFETY MUST BE PURSUED DILIGENTLY. IF, IN THE OPINION OF THE ENGINEER, CONSTRUCTION IS NOT PRECEDING TOWARDS COMPLETION IN THESE AREAS, THE CITY MAY REQUIRE THE CONTRACTOR TO ALTER THE WORK SCHEDULE TO EXPEDITE COMPLETION IN THE AREAS OF CONCERN.

19. CHANNELIZING DEVICES WILL BE REQUIRED ALONG THE EDGE OF ROADWAYS OPENED TO TRAFFIC AS DIRECTED. USE VERTICAL PANELS AS CHANNELIZATION DEVICES WITH SPACING AS SHOWN ON THE PLANS, STANDARDS BC (1) - 07 THRU BC (12) - 07, THE TEXAS MUTCD, OR AS DIRECTED.

20. NO CONSTRUCTION EQUIPMENT IS TO REMAIN ON THE ROADWAY DURING NIGHT HOURS UNLESS AUTHORIZED BY THE ENGINEER.

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

TRAFFIC CONTROL
NOTES & NARRATIVE

SHEET 1 OF 4

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 34

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21. PLACE ALL WORK VEHICLES NOT IN USE, STOCKPILED MATERIAL, ETC. AT A MINIMUM OF 16 FEET FROM THE OUTER EDGE OF THE NEAREST TRAVEL LANE OR AS DIRECTED.

22. INSTALL BARRIER REFLECTORS ON ALL TEMPORARY CONCRETE TRAFFIC BARRIERS.

23. NO PHASE OF CONSTRUCTION SHALL START UNTIL COMPLETION OF THE PREVIOUS PHASE UNLESS AGREED UPON BY THE ENGINEER AND CONTRACTOR. OPTIONAL WORK AREAS MAY BE STARTED AS APPROVED BY THE ENGINEER.

24. A POWER BROOM WILL BE REQUIRED WHEN CLEANING THE ROADWAY. ROADWAY TRAVEL WAYS SHOULD BE KEPT CLEAN AT ALL TIMES.

25. REGULATORY SIGNAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

26. PROVIDE AND MAINTAIN ACCESS TO PROPERTIES AND BUSINESSES ADJACENT TO THE RIGHT-OF-WAY AT ALL TIMES UNLESS OTHERWISE DIRECTED.

27. AS WORK PROGRESSES, LOCATIONS OF TEMPORARY TRAFFIC CONTROL DEVICES WILL BE ADJUSTED AND MODIFIED AS NECESSARY BY THE CONTRACTOR, WITH THE APPROVAL OF THE TRAFFIC ENGINEER.

28. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES, SPECIAL DIRECTIONAL DEVICES AND/OR BUSINESS NAME SIGNS MAY BE ORDERED BY THE TRAFFIC ENGINEER AT THE CONTRACTOR'S EXPENSE.

29. ANY DAMAGE TO PERMANENT TRAFFIC SIGNALS, THE CONTROLLER BOX, LOOPS OR CONDUITS DURING OR UPON COMPLETION OF THE PROJECT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

30. WHEN DROP-OFF ADJACENT TO THE ROADWAY (TEMPORARY OR OTHERWISE) EXCEEDS 2 INCHES AND IS LESS THAN 2 FEET, THE CONTRACTOR SHALL PROVIDE DELINEATED DRUMS OR VERTICAL PANELS IN ACCORDANCE WITH THE MOST CURRENT STANDARDS BY TXDOT. HOWEVER, THIS WILL ONLY BE POSSIBLE IF A MINIMUM BUFFER ZONE OF 4 FEET IS AVAILABLE BETWEEN THE EDGE OF TRAVELWAY AND THE WARNING OR CONTROL DEVICE. THE DRUMS OR PANELS SHALL BE PLACED AT 25 FOOT INTERVALS IN CURVES OR PER BC(9)-07 IN TANGENTS ALONG THE EDGE OF THE TEMPORARY ROADWAY. THERE WILL BE NO SEPARATE PAY FOR THIS WORK.

31. WHEN A DROP-OFF ON THE ROADWAY (TEMPORARY OR OTHERWISE) EXCEEDS 2 FEET, THE CONTRACTOR SHALL PLACE A TEMPORARY PROTECTIVE BARRIER ON THE EDGE OF THE TEMPORARY ROADWAY CONFORMING TO THE TEXAS MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) OR PROVIDE PROPER BACK SLOPE.

32. A MINIMUM 3:1 (H:V) TEMPORARY SAFETY SLOPE OF STABLE COMPACTED MATERIAL WILL BE REQUIRED TO PROTECT ALL DROP-OFFS GREATER THAN 2" AT ALL TIMES DURING NON-WORKING HOURS.

33. ADDITIONAL TEMPORARY WIDENING MAY BE REQUIRED FOR SLOPES TO MAINTAIN THE MINIMUM TRAVEL SURFACE. EMBANKMENT SHALL BE AT NO DIRECT PAYMENT AND IS SUBSIDIARY TO THE TEMPORARY WIDENING.

34. OFF-DUTY POLICE OFFICERS WILL BE REQUIRED, AS INDICATED IN THE TRAFFIC CONTROL NARRATIVE, TO ASSIST WITH TRAFFIC HANDLING DURING THE VARIOUS CONSTRUCTION OPERATIONS.

35. THE CONTRACTOR SHALL ENSURE ADEQUATE DRAINAGE DURING ALL PHASES OF CONSTRUCTION WHILE MAINTAINING ALL SW3P (STORM WATER POLLUTION PREVENTION) FEATURES IN THE PROPER LOCATION AND ENSURE THAT THEY ARE FUNCTIONING CORRECTLY.

36. NIGHTWORK IS UNDERSTOOD TO MEAN BETWEEN THE HOURS OF 9:30 PM AND 5:30 AM. WHEN NIGHT WORK IS REQUIRED, THE LANE OR LANES ADJACENT TO THE WORK WILL BE PERMITTED TO BE CLOSED.

37. INSTALL MESSAGE BOARDS TO NOTIFY THE TRAVELING PUBLIC OF IMPENDING/UPCOMING NIGHT WORK AND/OR LANE CLOSURES AS DIRECTED DEPENDING ON TRAFFIC CONDITIONS.

38. TRAFFIC SIGNAL HEADS SHOULD BE COVERED WITH NON TRANSPARENT MATERIAL PRIOR TO FULL OPERATION.

39. DAILY/TEMPORARY LANE CLOSURES OTHER THAN THE PERMANENT LANE CLOSURES SHOWN IN THE TRAFFIC CONTROL PLAN ARE NOT ALLOWED DURING THE HOURS OF 6:00 TO 8:30 AM AND 4:00 TO 6:30 PM.

40. OPEN PITS FOR UTILITY AND OTHER CONSTRUCTION ACTIVITIES WILL NEED TO BE BACKFILL OR COVERED WITH STEEL PLATE DURING NON WORKING HOURS.

** DO NOT COMPLETE FINAL ACP OVERLAY UNTIL DETAILED IN PHASE 3.

PHASE I STEP I

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

TRAFFIC CONTROL NOTES & NARRATIVE

SHEET 2 OF 4

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 35

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MARKET ST REALIGNMENT – TRAFFIC CONTROL GENERAL NOTES & PHASING NARRATIVE

MARKET ST REALIGNMENT -- TRAFFIC CONTROL GENERAL NOTES & PHASING NARRATIVE

PHASE 1 STEP 2

PHASE 2 STEP 1

1. INSTALL SW3P COUNTERMEASURES AS SHOWN IN THE PLANS.
2. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS AND SHIFT TRAFFIC.
3. ADJUST PORTABLE CONCRETE TRAFFIC BARRIER AS SHOWN IN THE PLANS.
4. CLOSE MARKET STREET SIDEWALKS AND DETOUR PEDESTRIAN TRAFFIC TO COMMERCE STREET.
5. DEMOLISH EXISTING EXIT CEASAR CHAVEZ EXIT RAMP AND PEDESTRIAN BRIDGES.
6. BEGIN CONSTRUCTION OF EXIT RAMP. EXIT RAMP BRIDGE SECTION OVER MONTANA AND MARKET STREET MUST HAVE SLAB AND TRAFFIC RAIL COMPLETE BEFORE BEGINNING STEP 2. MARKET ST CLOSURES FOR PLACING BEAMS, PANELS, SLABS AND TRAFFIC RAIL ARE NOT TO EXCEED 24HRS. ALL CLOSURES MUST BE APPROVED IN WRITING BY THE ENGINEER AND CAN NOT OCCUR DURING MAJOR EVENTS AS DEFINED BY THE ENGINEER.
7. CONSTRUCT PEDESTRIAN BRIDGE AND COMPLETE BEFORE PROCEEDING TO PHASE 3.
8. CONSTRUCT PEDESTRIAN CIRCULATOR AND IT MAY BE COMPLETED IN SUBSEQUENT PHASES.
9. COMPLETE STORM DRAIN OUTFALL AND TIE IN WITH PHASE 1 STEP 1 CONSTRUCTION.
10. CONSTRUCT MONTANA STREET AS SHOWN IN THE PLANS. DO NOT CONSTRUCT SIDEWALK AND BIKE PATH IN CONFLICT WITH PHASE 2 STEP 2 DETOUR.
11. CONSTRUCT WEST FRONTAGE ROAD AS SHOWN IN THE PLANS.
12. RECONSTRUCT SOUTHBOUND ENTRANCE NOT IN CONFLICT WITH THE TEMPORARY EXIT RAMP.

PHASE 2 STEP 2

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MARKET STREET REALIGNMENT

TRAFFIC CONTROL
NOTES & NARRATIVE

SHEET 3 OF 4

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
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MARKET ST REALIGNMENT – TRAFFIC CONTROL GENERAL NOTES & PHASING NARRATIVE

1. INSTALL SW3P COUNTERMEASURES AS SHOWN IN THE PLANS.
2. INSTALL TEMPORARY HOTMIX AT MONTANA INTERSECTION AND SHIFT TRAFFIC TO DETOUR SECTION AS SHOWN IN THE PLANS.
3. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS AND SHIFT TRAFFIC.
4. CLOSE BOWIE ST.
5. COMPLETE UTILITY CONSTRUCTION ALONG MARKET ST REALIGNMENT.
6. CONSTRUCT MARKET ST REALIGNMENT AS SHOWN IN THE PLANS.
7. CONSTRUCT NORTH BOUND ENTRANCE RAMP/MARKET STREET UTILIZING TEMP RAMP CLOSURES. RAMP CLOSURE MAY OCCUR BETWEEN 6:30PM FRIDAY TO 5:00 AM SUNDAY DURING NON MAJOR EVNETS. RAMP CLOSURE MUST BE APPROVED BY THE ENGINEER IN WRITING TWO WEEKS PRIOR TO CLOSURE.
8. RESTORE IH 37 PAVEMENT MARKINGS TO THEIR ORIGINAL CONFIGURATION AND OPEN CESAR CHAVEZ EXIT RAMP. THIS RAMP MUST BE OPEN BEFORE PROCEEDING TO PHASE 3.
9. PLACE PAVEMENT MARKINGS AND SIGNAGE ON NEWLY CONSTRUCTED AREAS IN ACCORDANCE WITH THE FINAL STRIPING AND SIGNING LAYOUTS.

PHASE 3

1. INSTALL SW3P COUNTERMEASURES AS SHOWN IN THE PLANS.
2. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS AND SHIFT TRAFFIC.
3. COMPLETE TIE INS AS SHOWN IN THE PLANS AT WEST FRONTAGE ROAD, MARKET ST, AND MONTANA ST.
4. REMOVE HOTMIX DETOUR AND COMPLETE SIDEWALK AND BIKE PATH IN AREAS OF EXISTING HOTMIX DETOUR.
5. REMOVE TEMPORARY CEASAR CHAVEZ EXIT RAMP. CONSTRUCT ENTRANCE RAMP FROM MARKET STREET.
6. COMPLETE CONSTRUCTION OF ALL REMAINING TRAFFIC SIGNALS, AND SIGNAGE. THIS WORK WILL REQUIRE TEMPORARY LANE CLOSURES AND PORTIONS OF THIS WORK WILL REQUIRE NIGHT TIME WORK. APPROPRIATE CONSTRUCTION SIGNING IN ACCORDANCE WITH MUTCD, TXDOT BC, TCP, & WZ STANDARDS SHALL BE UTILIZED DURING THIS WORK.
7. USING MOBILE OPERATIONS, PLACE FINAL ACP OVERLAY THROUGHOUT THE PROJECT WITH LIMITS AS DEFINED IN THE ROADWAY CONSTRUCTION PLANS. REESTABLISH LANE LINE UTILIZING SHORT TERM TABS IN THE CONFIGURATION SHOWN IN THE PAVEMENT MARKINGS LAYOUT.
8. USING MOBILE OPERATIONS, PLACE PAVEMENT MARKINGS AS SHOWN IN THE PAVEMENT MARKINGS LAYOUT. USE OFF DUTY POLICE OFFICERS TO ASSIST WITH TRAFFIC HANDLING DURING THIS WORK.
9. REMOVE SW3P COUNTER MEASURES AND TEMPORARY TRAFFIC CONTROL.
10. PERFORM FINAL CLEANUP.

MARKET ST REALIGNMENT – TRAFFIC CONTROL GENERAL NOTES & PHASING NARRATIVE

DEFINITION OF MILESTONES

MILESTONE 1 – OPEN MARKET AND FRONTAGE – IMPLEMENT PHASE 2 STEP 2 MARKET STREET AND WEST FRONTAGE AS DEFINED ON SHEETS 82 TO 85. ABANDON BOWIE STREET. PEDESTRIAN BRIDGE SPAN CROSSING FRONTAGE ROAD, MARKET STREET AND FRONTAGE MUST BE IN PLACE PRIOR TO OPENING TO TRAFFIC.

MILESTONE 2 – OPEN S.B. EXIT RAMP (TO CESAR E. CHAVEZ) – OPEN RAMP AS DEFINED IN PHASE 3 SHEETS 92 & 93. INCLUDES PLACEMENT OF FREEWAY SIGNS, FINAL HOTMIX, FINAL PAVEMENT MARKINGS, AND FINAL SIGNING OF IH 37 AND EXIT RAMP TO 26+00.

MILESTONE 3 – SUBSTANTIAL COMPLETION – THIS IS DEFINED AS ALL ROADWAY OPEN TO TRAFFIC WITH COMPLETED ROADWAY SECTIONS INCLUDING FINAL HOTMIX, PAVEMENT MARKINGS, AND SIGNING.

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MARKET STREET REALIGNMENT

TRAFFIC CONTROL
NOTES & NARRATIVE

SHEET 4 OF 4

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
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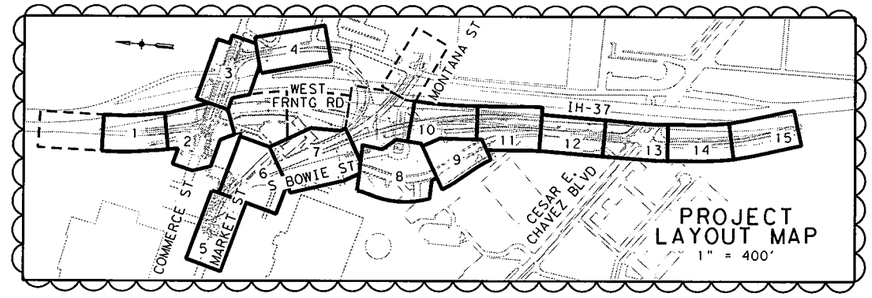

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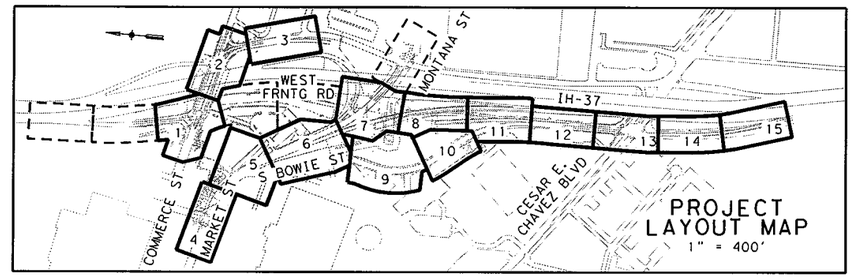

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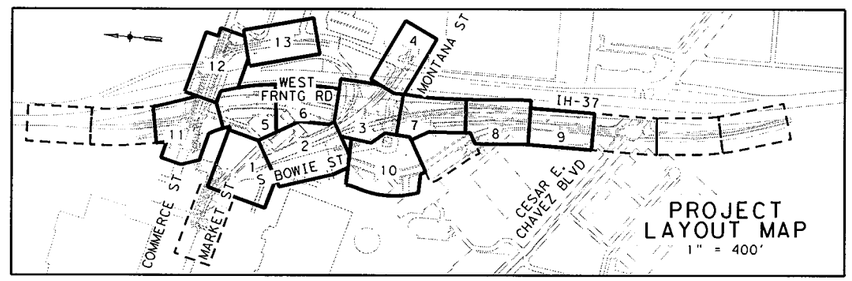

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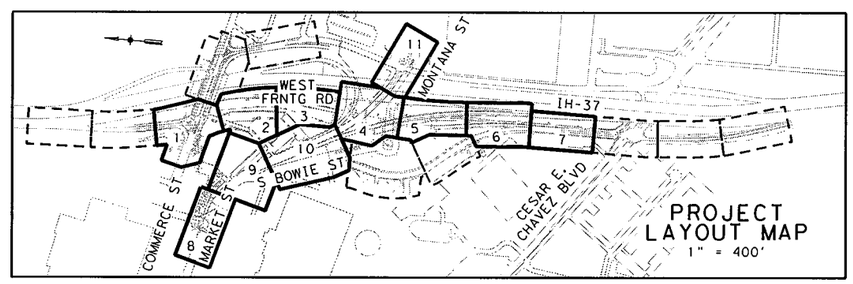

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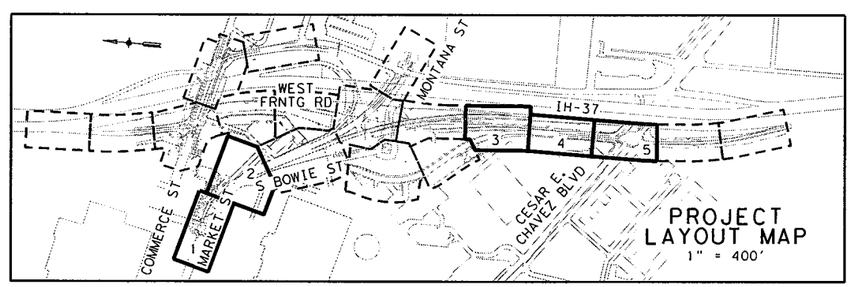

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

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MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN SHEET LAYOUT MAPS

SHEET 1 OF 1

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 39

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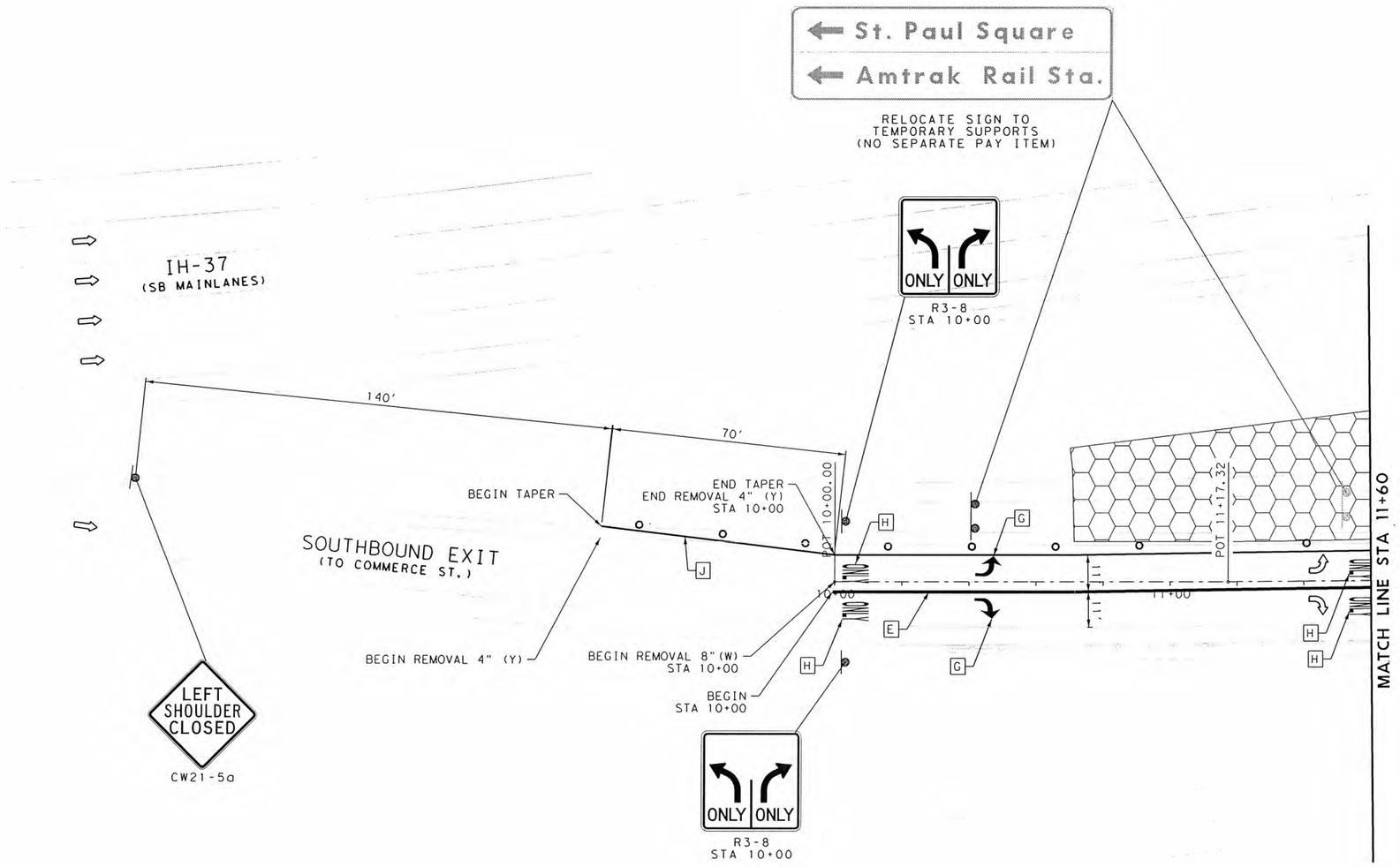
I.D.	ITEM	DESCRIPTION	UNIT	QTY
E	0662-2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	160
G	0662-2084	WK ZN PAV MRK REMOV (W) (ARROW)	EA	2
H	0662-2094	WK ZN PAV MRK REMOV (W) (WORD)	EA	4
J	0662-2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	230
	0677-2001	ELIM EXT PAV MRK & MRKS (4")	LF	70
	0677-2003	ELIM EXT PAV MRK & MRKS (8")	LF	160



LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
- CHANNELIZING DEVICES

NOTES:
1. FOR ADDITIONAL DETAILS SEE STANDARD DETAIL SHEETS.
2. EXISTING FEATURES ARE SHOWN SCREENED BACK, IE FADED.
3. EXISTING PAVEMENT MARKINGS CONFLICTING WITH WORK ZONE PAVEMENT MARKINGS SHALL BE REMOVED.
4. MAINTAIN 30' TURNING RADII AT INTERSECTION DURING CONSTRUCTION.
5. ACCESS TO ADJOINING PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
6. ONE SECTION OF LPCB TY II MUST BE AT EACH END OF BARRIER. THIS IS INCLUDED IN OVERALL BARRIER LENGTH.
7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

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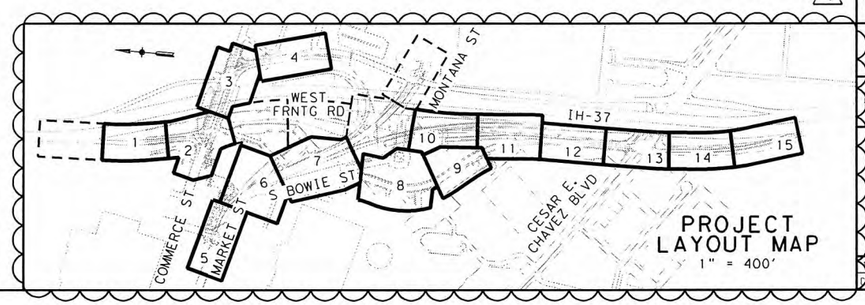
SCALE: 1"=40' 1



PROJECT LAYOUT MAP
1" = 400'

URS
9901 IH10 WEST, SUITE 350
SAN ANTONIO, TEXAS 78230
TEL: 210.377.3764 FAX: 210.377.0622
(FIPM # 3162)
WWW.URSCORP.COM

PAPE-DAWSON ENGINEERS
555 EAST RANDY | SAN ANTONIO, TEXAS 78216
PHONE: 210.375.9000 | FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
SOUTHBOUND EXIT TO COMMERCE ST.

TRAFFIC CONTROL PLAN
PHASE 1 STEP 1

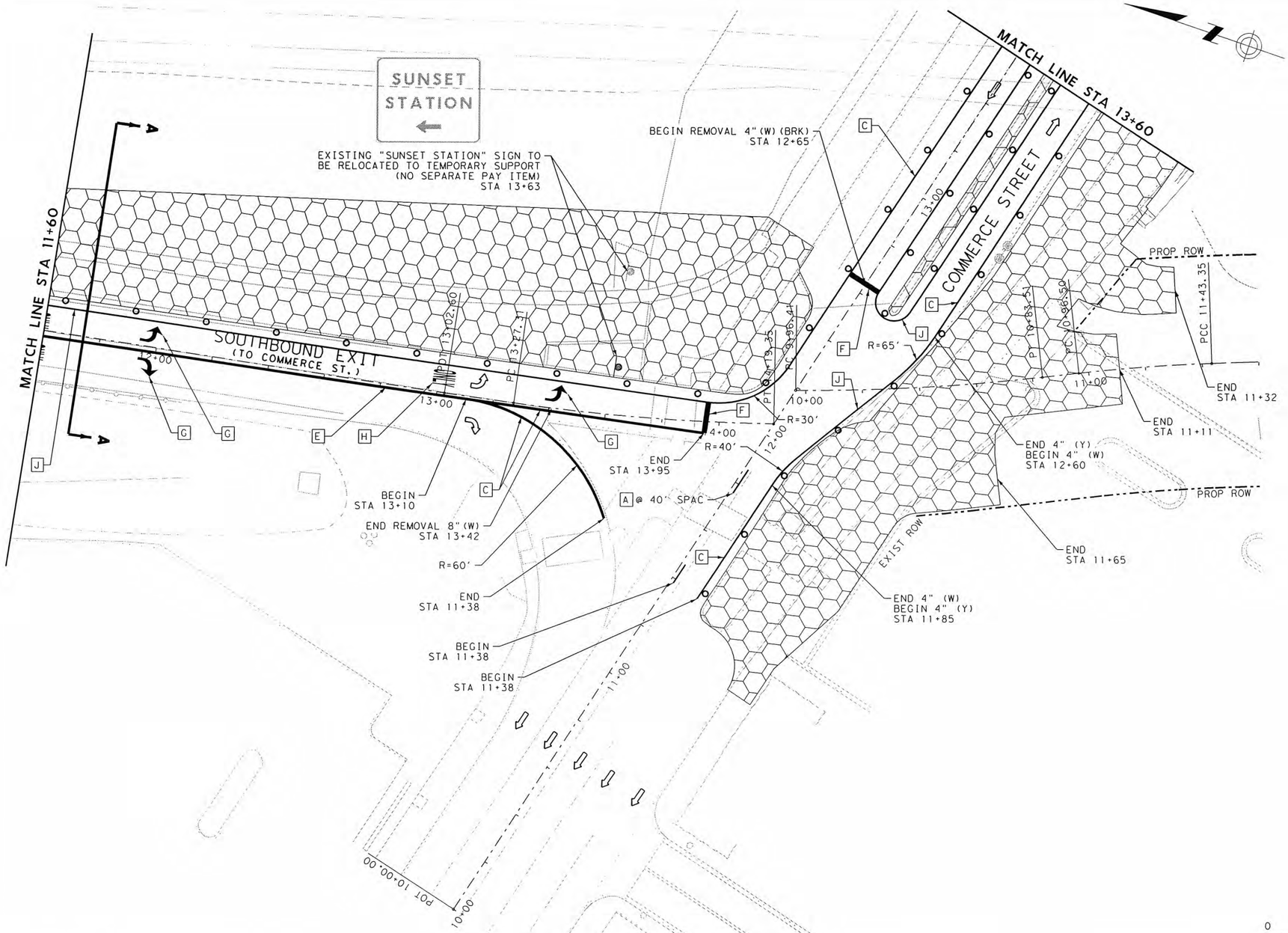
BEGIN TO STA 11+60 1

SHEET 1 OF 15

00% SUBMITTAL	PROJECT NO.:		DATE: JANUARY 2013
DRWN. BY:	DSGN. BY:	CHK'D. BY:	SHEET NO.: 40

DATE: 1/17/2013 11:58:36 AM
FILE: P:\80\04\00\Design\Civil\TCP\PHASE 1\ADDENDUM PLANS\STEP 1\80040QTCP01.dgn

I.D.	ITEM	DESCRIPTION	UNIT	QTY
A	0662-2064	WK ZN PAV MRK REMOV (W) 4" (BRK)	LF	20
C	0662-2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	471
E	0662-2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	151
F	0662-2079	WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	23
G	0662-2084	WK ZN PAV MRK REMOV (W) (ARROW)	EA	3
H	0662-2094	WK ZN PAV MRK REMOV (W) (WORD)	EA	1
J	0662-2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	528
	0677-2001	ELIM EXT PAV MRK & MRKS (4")	LF	20
	0677-2003	ELIM EXT PAV MRK & MRKS (8")	LF	181



LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
- CHANNELIZING DEVICES

NOTES:

1. FOR ADDITIONAL DETAILS SEE STANDARD DETAIL SHEETS.
2. EXISTING FEATURES ARE SHOWN SCREENED BACK, IE FADED.
3. EXISTING PAVEMENT MARKINGS CONFLICTING WITH WORK ZONE PAVEMENT MARKINGS SHALL BE REMOVED.
4. MAINTAIN 30' TURNING RADII AT INTERSECTION DURING CONSTRUCTION.
5. ACCESS TO ADJOINING PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
6. ONE SECTION OF LPCB TY II MUST BE AT EACH END OF BARRIER. THIS IS INCLUDED IN OVERALL BARRIER LENGTH.
7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1 17 13

REVISIONS

URS — 9901 IH10 WEST, SUITE 350, SAN ANTONIO, TEXAS 78230 — TEL: 210.377.3764 FAX: 210.377.0622 — (FIRM = 3162) WWW.URSCORP.COM

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

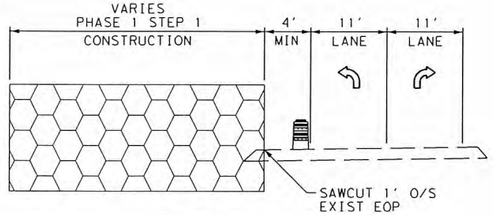
MARKET STREET REALIGNMENT
WEST FRONTAGE ROAD

TRAFFIC CONTROL PLAN PHASE 1 STEP 1

STA 11+60 (RD04) TO STA 11+60 (RD07) 1

SHEET 2 OF 15

00% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 41



SECTION A - A
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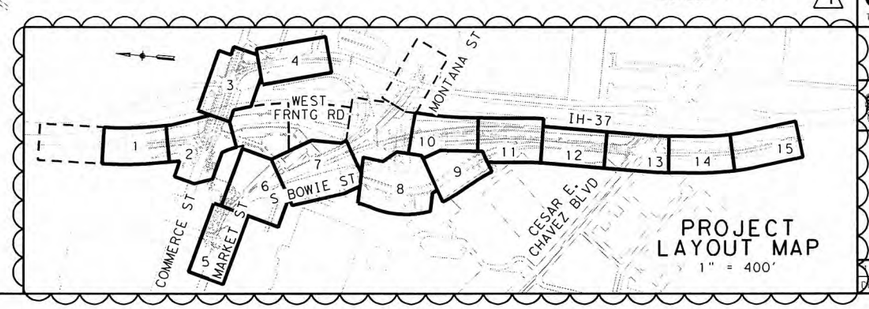

PROJECT LAYOUT MAP
1" = 400'

DATE: 1/17/2013 11:58:37 AM
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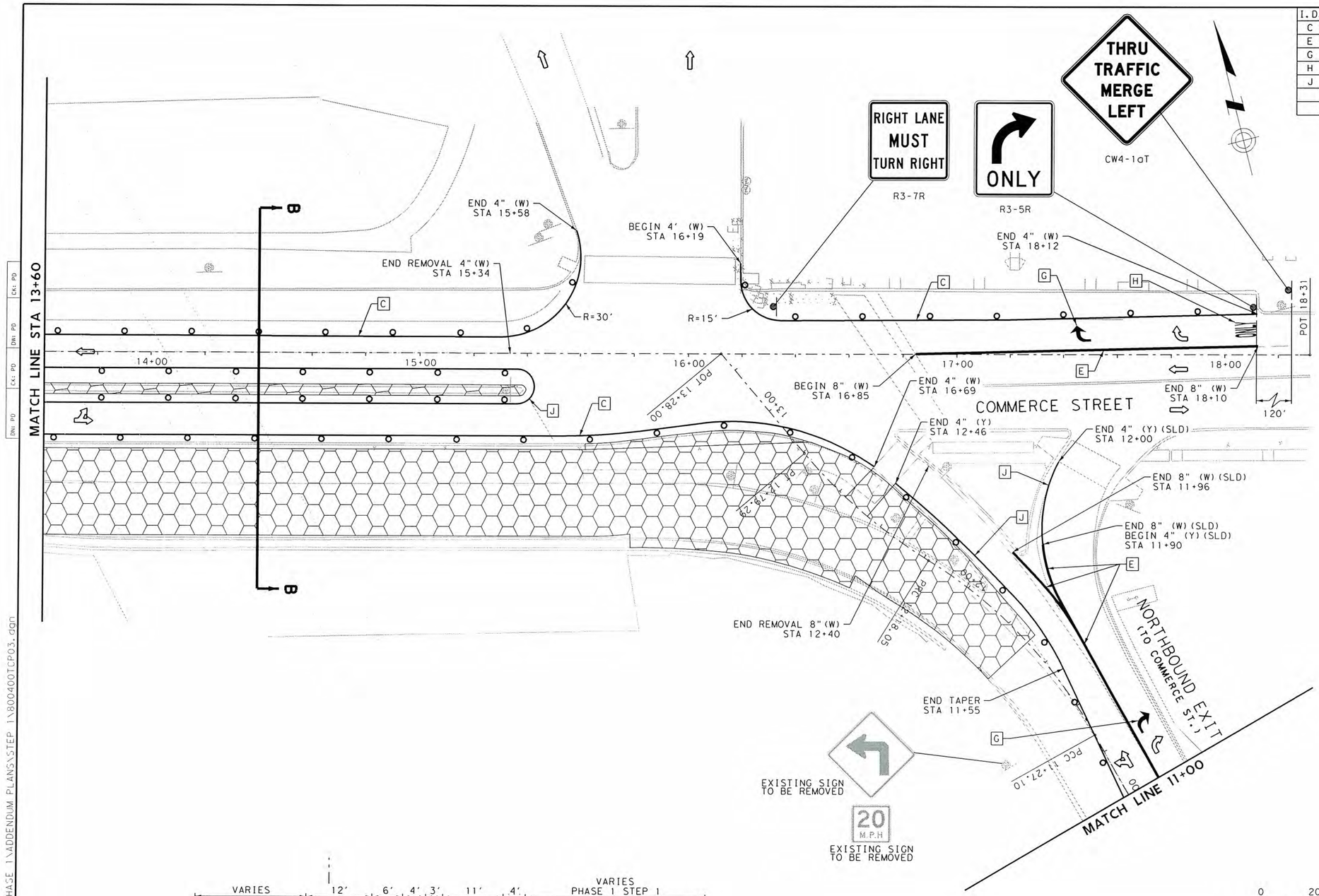
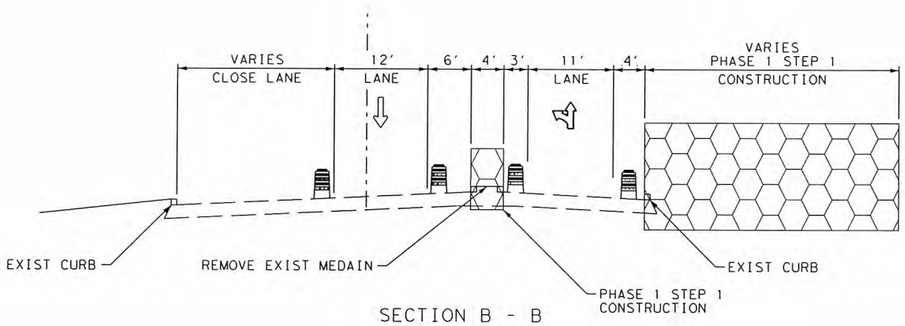
I.D.	ITEM	DESCRIPTION	UNIT	QTY
C	0662-2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	658
E	0662-2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	253
G	0662-2084	WK ZN PAV MRK REMOV (W) (ARROW)	EA	2
H	0662-2094	WK ZN PAV MRK REMOV (W) (WORD)	EA	1
J	0662-2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	525
	0677-2001	ELIM EXT PAV MRK & MRKS (4")	LF	50
	0677-2003	ELIM EXT PAV MRK & MRKS (8")	LF	100





SECTION B - B
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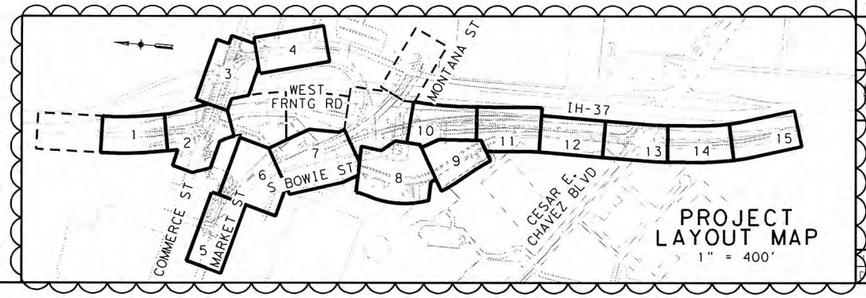

PROJECT LAYOUT MAP
1" = 400'

LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
- CHANNELIZING DEVICES

NOTES:
1. FOR ADDITIONAL DETAILS SEE STANDARD DETAIL SHEETS.
2. EXISTING FEATURES ARE SHOWN SCREENED BACK, IE FADED.
3. EXISTING PAVEMENT MARKINGS CONFLICTING WITH WORK ZONE PAVEMENT MARKINGS SHALL BE REMOVED.
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6. ONE SECTION OF LPCB TY II MUST BE AT EACH END OF BARRIER. THIS IS INCLUDED IN OVERALL BARRIER LENGTH.
7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

URS — 9901 IH10 WEST, SUITE 350, SAN ANTONIO, TEXAS 78230 — TEL: 210.377.3764 — FAX: 210.377.0622 — (FIRM # 3162) — WWW.URSCORP.COM

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
COMMERCE STREET

TRAFFIC CONTROL PLAN PHASE 1 STEP 1

STA 13+60 TO END

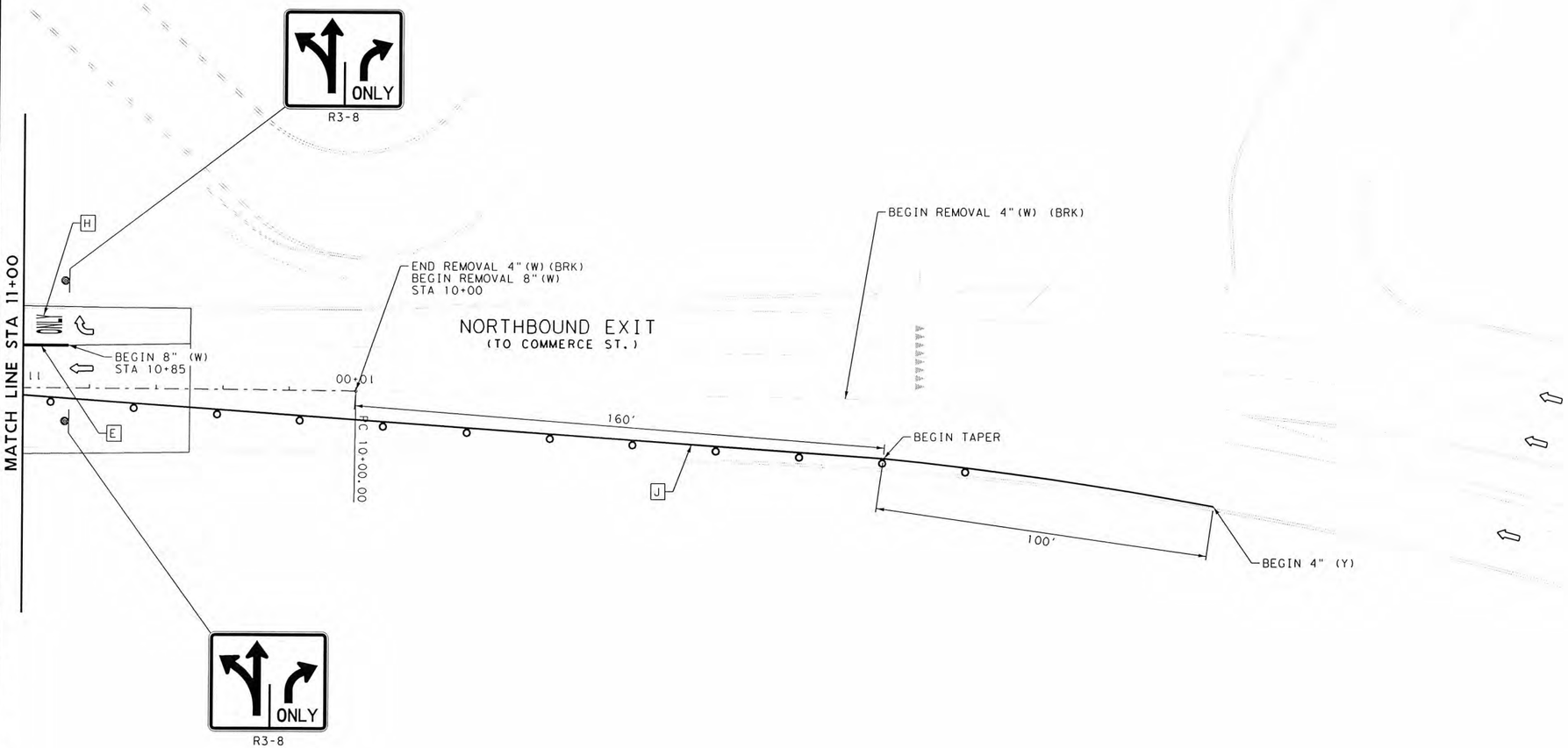
1

SHEET 3 OF 15

00% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 42

DATE: 1/17/2013 11:58:41 AM
FILE: P:\80\04\00\Design\Civil\TCP\PHASE 1\ADDENDUM PLANS\STEP 1\800400TCP03.dgn

I.D.	ITEM	DESCRIPTION	UNIT	QTY
E	0662-2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	14
H	0662-2094	WK ZN PAV MRK REMOV (W) (WORD)	EA	1
J	0662-2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	360
	0677-2001	ELIM EXT PAV MRK & MRKS (4")	LF	40
	0677-2003	ELIM EXT PAV MRK & MRKS (8")	LF	100



LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
- CHANNELIZING DEVICES

NOTES:

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7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

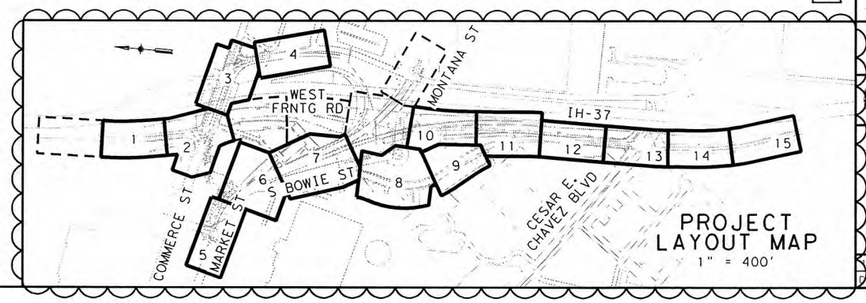
STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

SCALE: 1"=40' (0 20 40)



PROJECT LAYOUT MAP
1" = 400'

URS
9901 IH10 WEST, SUITE 350
SAN ANTONIO, TEXAS 78230
TEL: 210.377.3764 FAX: 210.377.0622
(FIRM # 3162)
WWW.URSCORP.COM

PAPE-DAWSON ENGINEERS
555 EAST RANDOLPH | SAN ANTONIO, TEXAS 78216
PHONE: 210.375.9000 | FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
MARKET STREET

TRAFFIC CONTROL PLAN
PHASE 1 STEP 1
STA 11+00 TO END

1

SHEET 4 OF 15

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 43

DATE: 1/17/2013 11:58:43 AM
FILE: P:\80\04\00\Design\Civil\TCP\PHASE 1\ADDENDUM PLANS\STEP 1\800400TCP04.dgn

I.D.	ITEM	DESCRIPTION	UNIT	QTY
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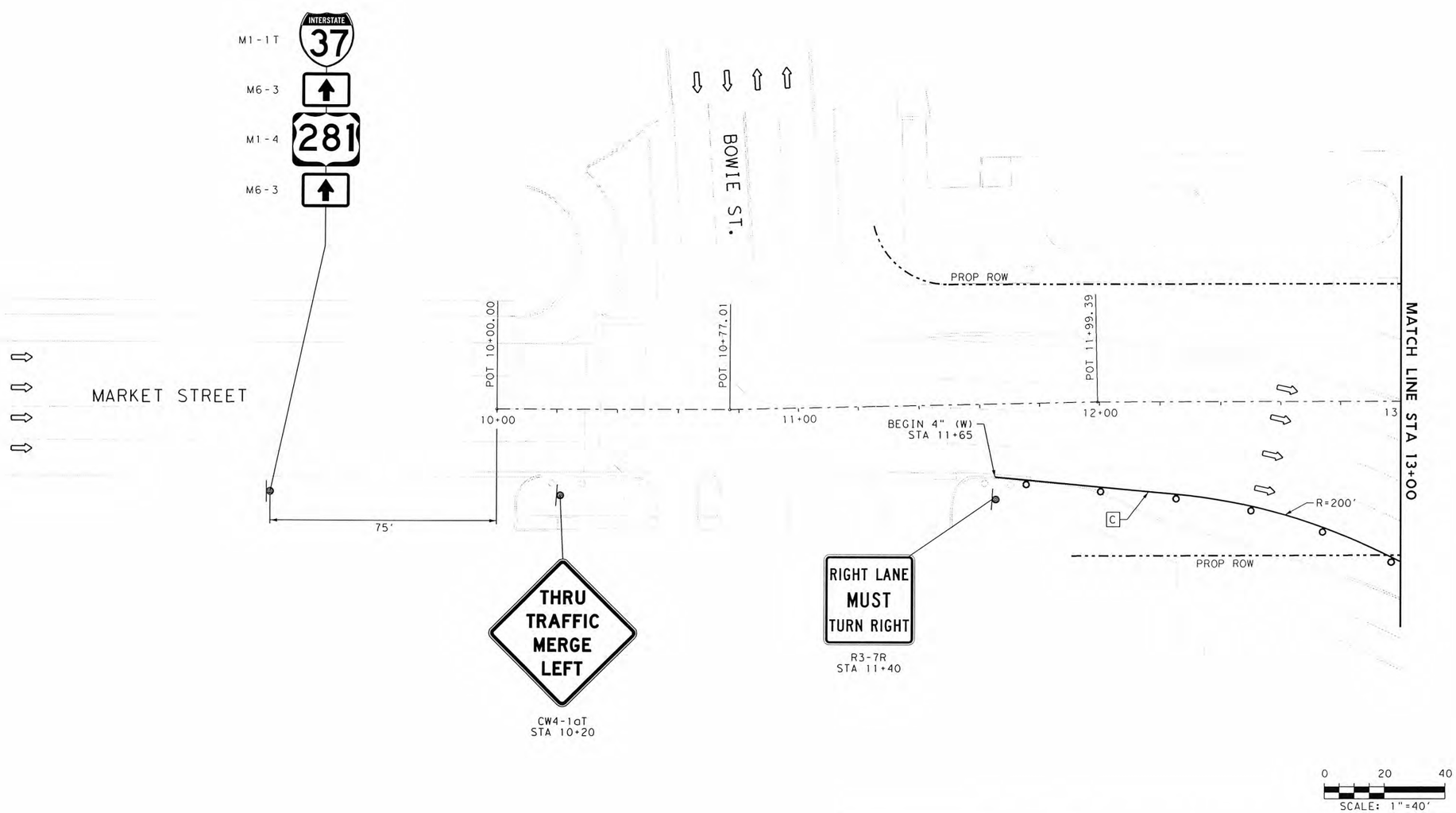

LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
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NOTES:

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7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

URS
9901 IH10 WEST, SUITE 350
SAN ANTONIO, TEXAS 78230
(FIRM # 3182)
TEL: 210.377.3764 FAX: 210.377.0622 WWW.URSCORP.COM

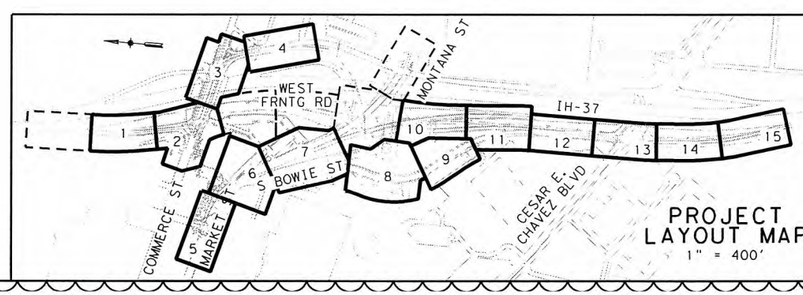
PAPE-DAWSON ENGINEERS
555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216
PHONE: 210.375.9000 | FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
MARKET STREET

TRAFFIC CONTROL PLAN PHASE 1 STEP 1

BEGIN TO STA 13+00



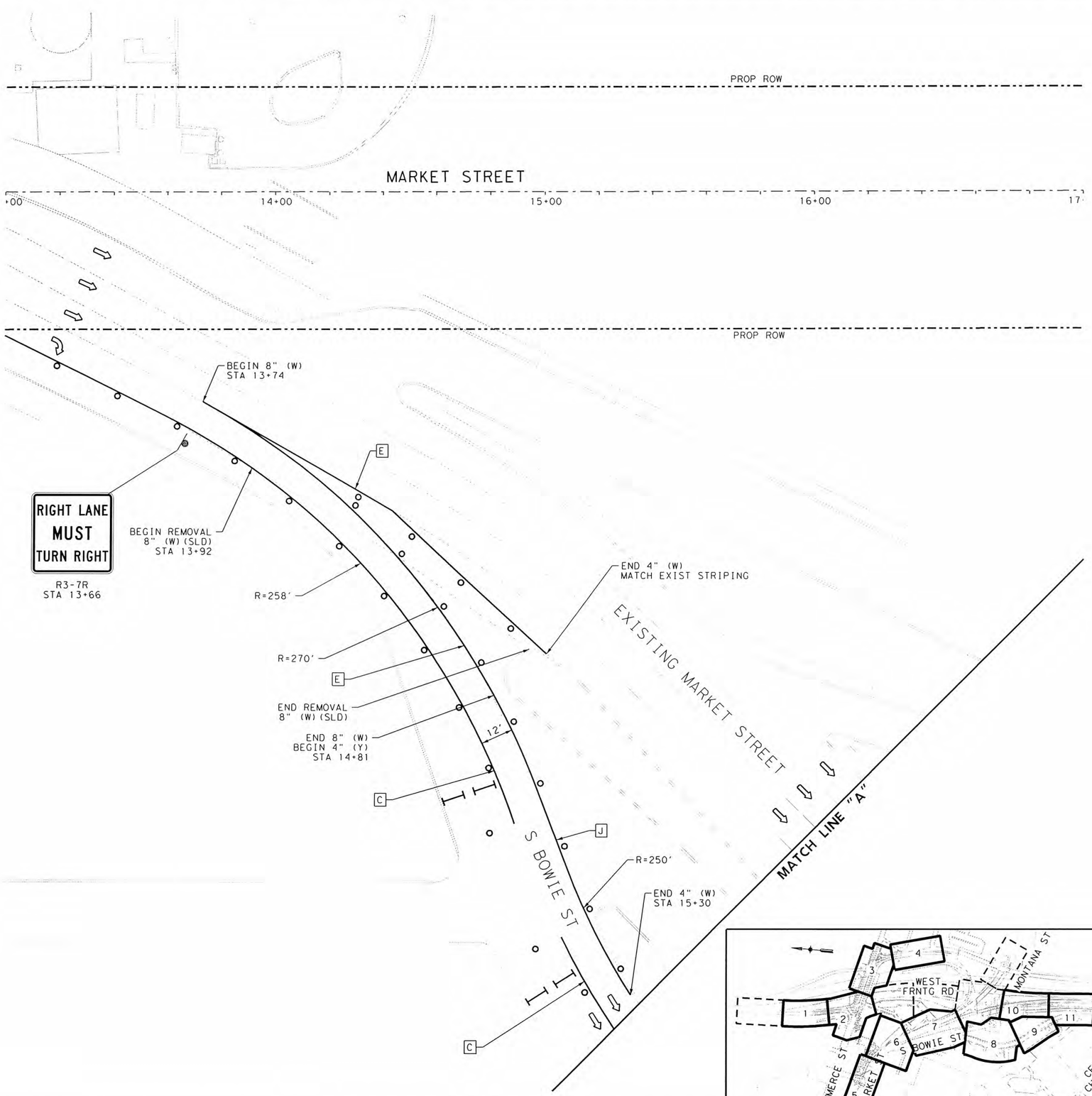
PROJECT LAYOUT MAP
1" = 400'

SHEET 5 OF 15

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 44

DATE: 1/17/2013 11:58:44 AM
FILE: P:\80\04\00\Design\CV\TCP\PHASE 1\ADDENDUM PLANS\STEP 1\0004001105.dgn

I.D.	ITEM	DESCRIPTION	UNIT	QTY
C	0662-2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	357
E	0662-2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	315
J	0662-2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	124
	0677-2003	ELIM EXT PAV MRK & MRKS (8")	LF	160



LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
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NOTES:
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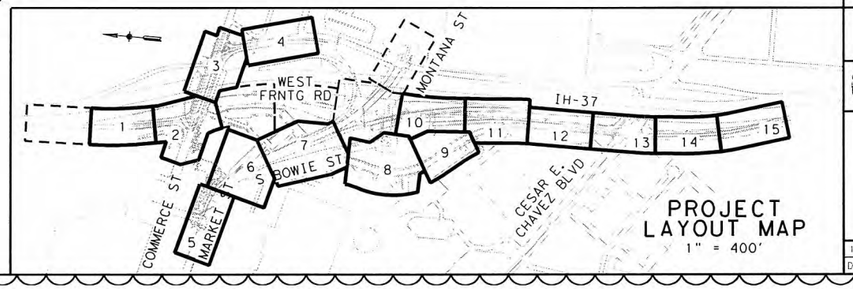
7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

0 20 40
SCALE: 1"=40'



PROJECT LAYOUT MAP
1" = 400'

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS
JOHN A. TYLER
105193
LICENSED
PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
				/ /
				/ /
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

URS
9901 IH10 WEST, SUITE 350
SAN ANTONIO, TEXAS 78230
TEL: 210.377.3764 FAX: 210.377.0622
(FIRM # 3162)
WWW.URSCORP.COM

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PHONE: 210.375.9000 | FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
MARKET STREET

TRAFFIC CONTROL PLAN
PHASE 1 STEP 1

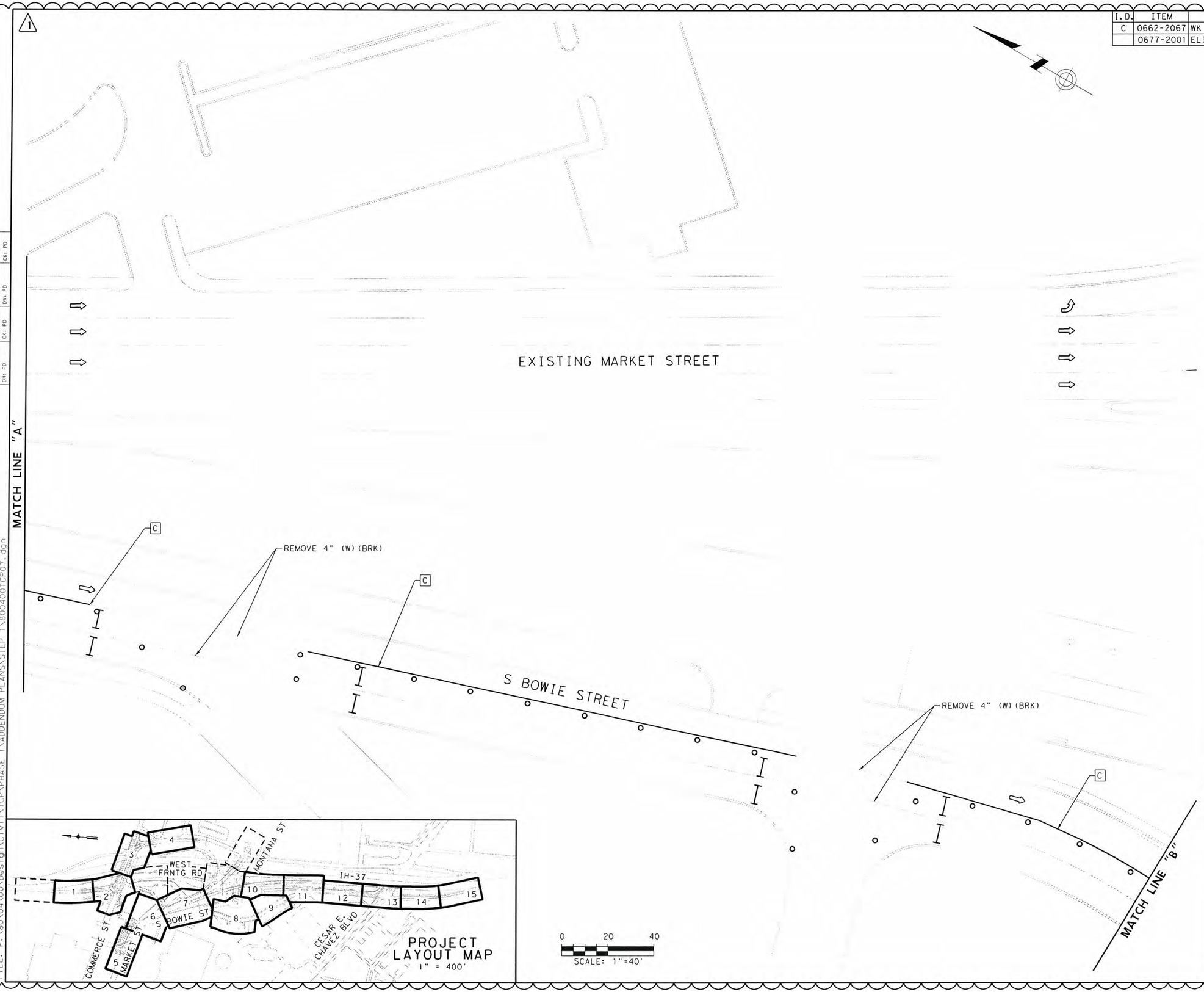
BEGIN TO MATCHLINE A

SHEET 6 OF 15

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 45

DATE: 1/17/2013 11:58:46 AM
FILE: P:\80\04\00\Design\Civil\TCP\PHASE 1\ADDENDUM PLANS\STEP 1\80040011CP06.dgn

I.D.	ITEM	DESCRIPTION	UNIT	QTY
C	0662-2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	567
	0677-2001	ELIM EXT PAV MRK & MRKS (4")	LF	70



LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
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7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
				/ /
				/ /
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

URS — 9901 IH10 WEST, SUITE 350, SAN ANTONIO, TEXAS 78230 — (FIRM # 3162) — TEL: 210.377.3764 — FAX: 210.377.0622 — WWW.URSCORP.COM

PAPE-DAWSON ENGINEERS — 555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 — PHONE: 210.375.9000 | FAX: 210.375.9010 — TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
MARKET STREET

TRAFFIC CONTROL PLAN PHASE 1 STEP 1

MATCHLINE "A" TO MATCHLINE "B"

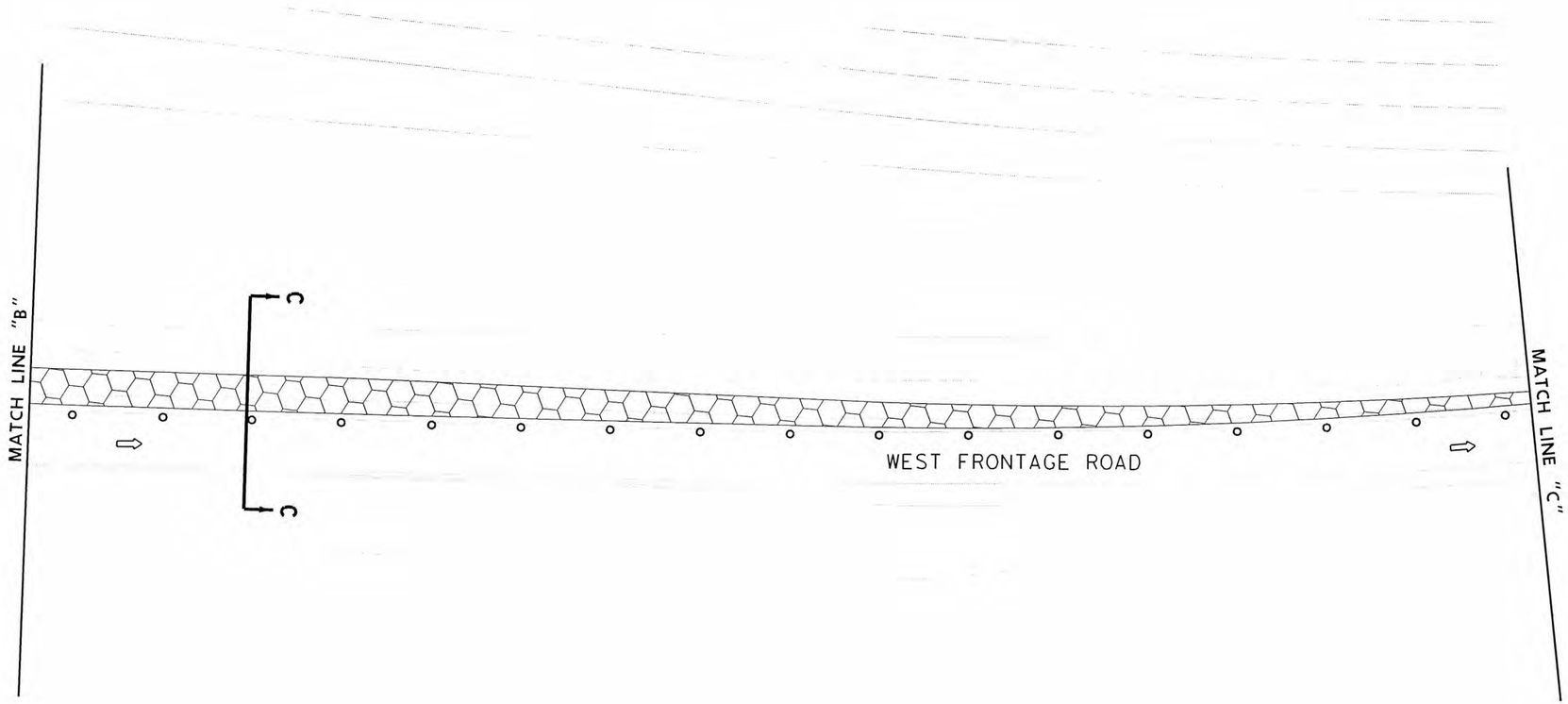
SHEET 7 OF 15

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 46

DATE: 1/17/2013 11:58:47 AM
FILE: P:\80\04\00\Design\Civil\TCP\PHASE 1\ADDENDUM PLANS\STEP 1\800400TCP07.dgn

DN: PD | CK: PD | DW: PD | CK: PD

I.D.	ITEM	DESCRIPTION	UNIT	QTY



LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
- CHANNELIZING DEVICES

NOTES:
1. FOR ADDITIONAL DETAILS SEE STANDARD DETAIL SHEETS.
2. EXISTING FEATURES ARE SHOWN SCREENED BACK, IE FADED.
3. EXISTING PAVEMENT MARKINGS CONFLICTING WITH WORK ZONE PAVEMENT MARKINGS SHALL BE REMOVED.
4. MAINTAIN 30' TURNING RADII AT INTERSECTION DURING CONSTRUCTION.
5. ACCESS TO ADJOINING PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
6. ONE SECTION OF LPCB TY II MUST BE AT EACH END OF BARRIER. THIS IS INCLUDED IN OVERALL BARRIER LENGTH.
7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUNA — 84722 — LICENSED PROFESSIONAL ENGINEER

JAMES A. LUNA, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

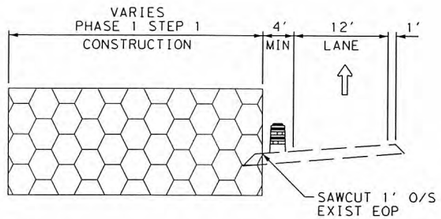
REVISIONS

URS — 9901 IH10 WEST, SUITE 350, SAN ANTONIO, TEXAS 78230 — (FIRM # 3162) — TEL: 210.377.3764 — FAX: 210.377.0622 — WWW.URSCORP.COM

PAPE-DAWSON ENGINEERS — 555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 — PHONE: 210.375.9000 | FAX: 210.375.9010 — TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

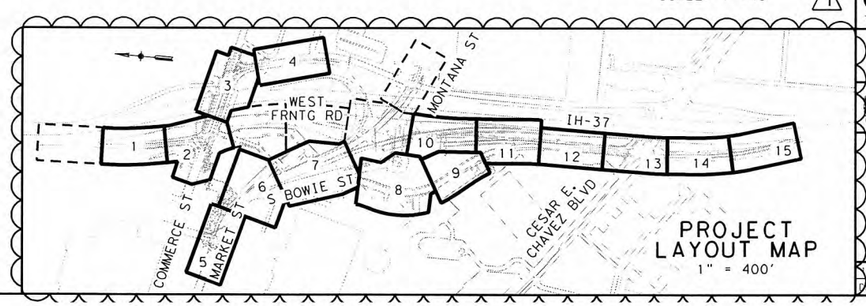
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
WEST FRONTAGE ROAD
TRAFFIC CONTROL PLAN
PHASE 1 STEP 1
MATCHLINE "B" TO MATCHLINE "C"



SECTION C - C
NOT TO SCALE

0 20 40
SCALE: 1"=40'



PROJECT LAYOUT MAP
1" = 400'

90% SUBMITTAL	PROJECT NO.:		SHEET 14 OF 15
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 53

DATE: 1/17/2013 11:58:55 AM
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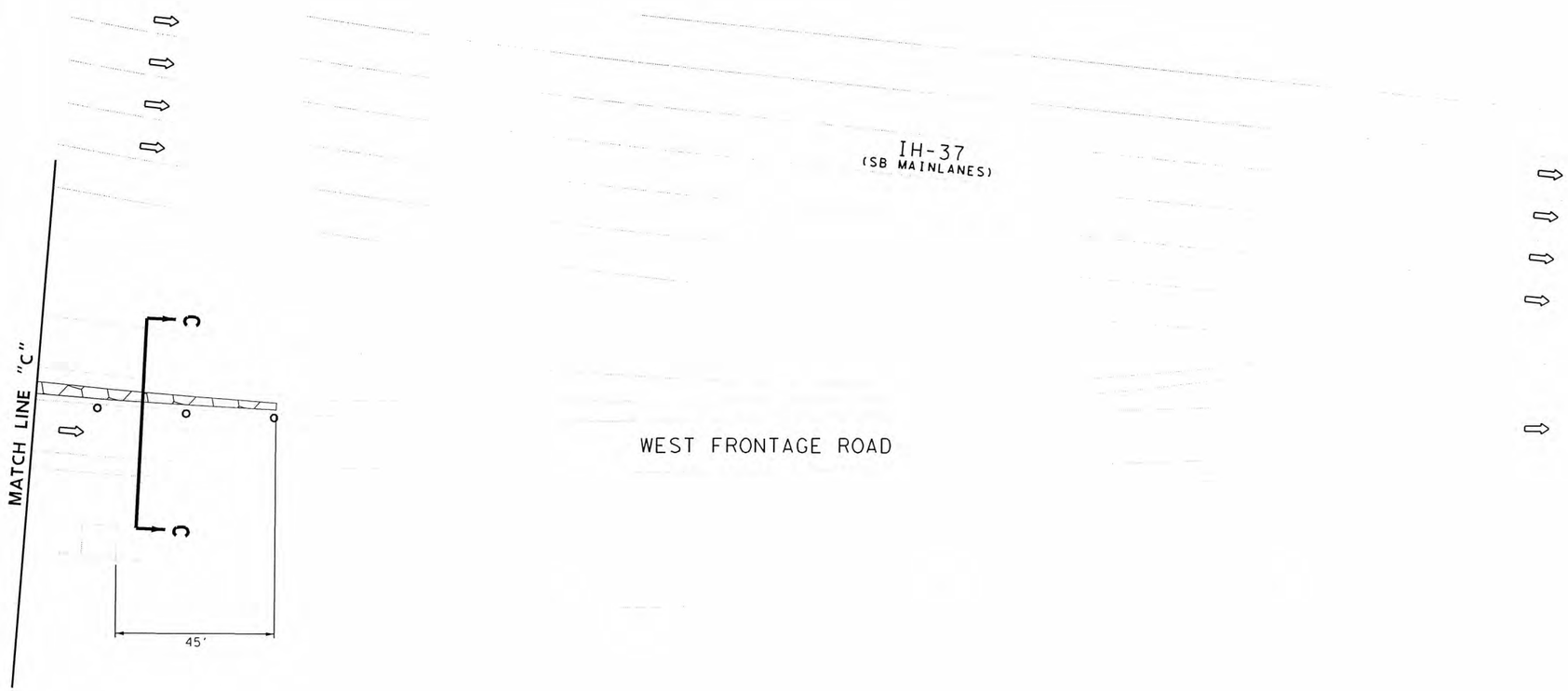
I.D.	ITEM	DESCRIPTION	UNIT	QTY



LEGEND

- FULL DEPTH CONSTRUCTION
- TEMPORARY HMAC
- SIGN POST
- TRAFFIC FLOW ARROWS
- TY III BARRICADE
- PRECAST CONCRETE TRAFFIC BARRIER, SINGLE SLOPE
- LOW PROFILE CONCRETE BARRIER, TY I & TY II
- CHANNELIZING DEVICES

NOTES:
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7. SEE TxDOT BARRICADE AND CONSTRUCTUION CHANNELIZING DEVICES STANDARDS BC(9)-07 FOR BARREL SPACING.

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS — JOHN A. TYLER — 105193 — LICENSED — PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS — JAMES A. LUTZ — 84722 — LICENSED — PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

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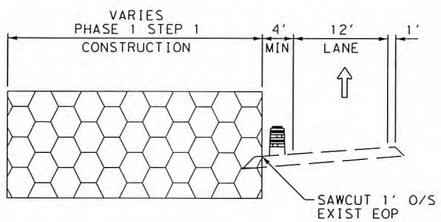
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT
WEST FRONTAGE ROAD
TRAFFIC CONTROL PLAN
PHASE 1 STEP 1
MATCHLINE "C" TO END

1

SHEET 15 OF 15

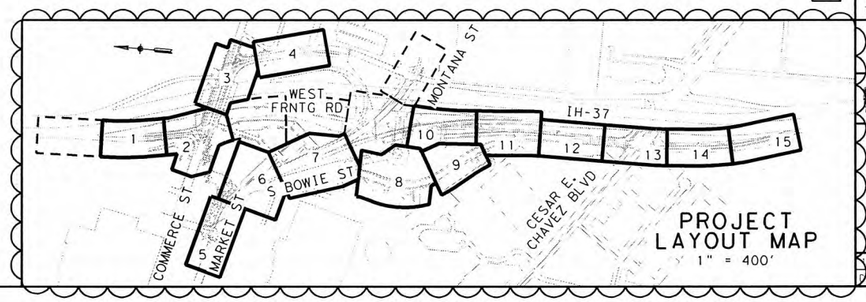
00% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHK'D. BY:	SHEET NO.: 54



SECTION C - C
NOT TO SCALE

0 20 40
SCALE: 1"=40'

1



PROJECT LAYOUT MAP
1" = 400'

DATE: 1/17/2013 11:58:56 AM
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Chain TCP_G contains:

CUR TCPCV1 TCP20 TCP25 CUR TCPCV2 TCP40

Beginning chain TCP_G description
==========

Curve Data

Curve TCPCV1
P.I. Station 100+29.27 N 13,702,267.2784 E 2,133,801.6595
Delta = 10° 27' 06.38" (LT)
Degree = 17° 54' 17.75"
Tangent = 29.2681
Length = 58.3737
Radius = 320.0000
External = 1.3357
Long Chord = 58.2928
Mid. Ord. = 1.3301
P.C. Station 100+00.00 N 13,702,292.4642 E 2,133,786.7500
P.T. Station 100+58.37 N 13,702,245.2152 E 2,133,820.8906
C.C. N 13,702,455.4769 E 2,134,062.1167
Back = S 30° 37' 29.50" E
Ahead = S 41° 04' 35.88" E
Chord Bear = S 35° 51' 02.69" E

Course from PT TCPCV1 to TCP20 S 41° 04' 35.88" E Dist 83.9982

Point TCP20 N 13,702,181.8947 E 2,133,876.0832 Sta 101+42.37

Course from TCP20 to TCP25 S 40° 29' 15.58" E Dist 181.6877

Point TCP25 N 13,702,043.7129 E 2,133,994.0501 Sta 103+24.06

Curve Data

Curve TCPCV2
P.I. Station 105+40.00 N 13,701,879.4784 E 2,134,134.2585
Delta = 40° 12' 20.75" (RT)
Degree = 9° 42' 40.14"
Tangent = 215.9430
Length = 414.0165
Radius = 590.0000
External = 38.2765
Long Chord = 405.5742
Mid. Ord. = 35.9446
P.C. Station 103+24.06 N 13,702,043.7129 E 2,133,994.0501
P.T. Station 107+38.08 N 13,701,663.5380 E 2,134,135.3210
C.C. N 13,701,660.6352 E 2,133,545.3281
Back = S 40° 29' 15.58" E
Ahead = S 0° 16' 54.83" E
Chord Bear = S 20° 23' 05.20" E

Course from PT TCPCV2 to TCP40 S 0° 16' 54.83" E Dist 765.3708

Point TCP40 N 13,700,898.1764 E 2,134,139.0866 Sta 115+03.45

==========
Ending chain TCP_G description

ADDENDUM: 1 S BOWIE ST TRAFFIC CONTROL REVISED

DESIGN

STATE OF TEXAS
JOHN A. TYLER
105193
LICENSED
PROFESSIONAL ENGINEER

JOHN A. TYLER, P.E. — 1/17/2013 DATE

REVIEW & APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. — 1/17/2013 DATE

NO	REVISION	DRAWN	APPROVED	DATE
1	S BOWIE ST TRAFFIC CONTROL REVISED	TPD	JAT	1/17/13

REVISIONS

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARKET STREET REALIGNMENT

TRAFFIC CONTROL PLAN
HORIZONTAL ALIGNMENT
DATA

SHEET 1 OF 1

100% SUBMITTAL	PROJECT NO.:		DATE: 1/17/2013
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 54A

DATE: 1/17/2013 3:15:09 PM
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