# **DISCLAIMER** "The plans and report information provided by the City of San Antonio is for informational purposes only. The City assumes no responsibility or liability for any errors or omissions in the content of these materials. The information is provided on an "as is" basis with no guarantees of completeness, accuracy, usefulness or timeliness."



# CITY OF SAN ANTONIO

# DEPARTMENT OF

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES

# SEELING CHANNEL IMPROVEMENTS (PHASE I)

#### PROJECT LIMITS:

SEELING CHANNEL: WILSON BLVD - S. JOSEPHINE-TOBIN DR.

S. JOSEPHINE-TOBIN DR - 25 MPH DESIGN SPEED W. WOODLAWN AVE - W. CRAIG PL A.D.T. (NB) 1558 (2011)

W. CRAIG PL - 30 MPH DESIGN SPEED S. JOSEPHINE-TOBIN DR WEST 150'

W. MISTLETOE AVE. (NE) - 30 MPH DESIGN SPEED WILSON BLVD - EAST 310' A.D.T. - 220 (2006)

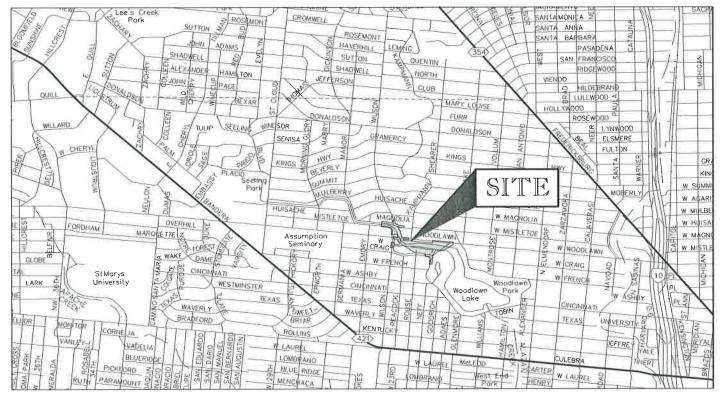
W. MISTLETOE AVE. (NW) - 30 MPH DESIGN SPEED WILSON BLVD - WEST 320' A.D.T. - 220 (2006)

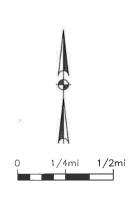
W. MISTLETOE AVE. (SW) - 30 MPH DESIGN SPEED WILSON BLVD - WEST 330' A.D.T. - 220 (2006)

W. WOODLAWN AVE. — 45 MPH DESIGN SPEED WILSON BLVD — S. JOSEPHINE—TOBIN DR. A.D.T. — 7086 (2011)

WILSON BLVD - 35 MPH DESIGN SPEED W. WOODLAWN AVE. - W. MISTLETOE AVE. (N) - 3820 (2002)

#### LOCATION MAP

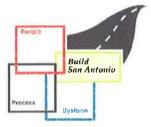








AECOM TECHNICAL SERVICES, INC. TBPE REG. NO F-3580



						*DOT BRIDGE STANDARDS	
051150.11		CHA	NNEL DETAILS			COMMON FOUNDATION DETAILS (FD)	
GENERAL	146 151		HANNEL PLAN AND PROFILES	255 25	56	SEALED EXPANSION JOINT TYPE A (SEJ-A)	
1 1 TITLE SHEET	152 157		HANNEL RETAINING WALLS PLAN AND PROFILES	257 25	57	BRIDGE APPROACH SLAB, ASPHALT (BAS-A)	
2 2 INDEX OF SHEETS	158 158		HANNEL DETAILS KEY PLAN	258 25	58	BRIDGE APPROACH SLAB, CONCRETE (BAS-C)	
3 3 PROJECT LEGEND	159 161		HANNEL JOINT LAYOUT PLAN AND PROFILE	259 25	59	CEMENT STABILIZED ABUTMENT BACKFILL (CSAB)	
4 6 HORIZONTAL AND VERTICAL CONTROL			HANNEL JOINT LATOUT PLAN AND PROFILE HANNET ACCESS RAMP PLAN AND PROFILE			CONCRETE RIPRAP TYPE RR8 & RR9 (CRR)	
7 10 OVERALL PROJECT CONTROL LAYOUT	162 162					SLAB BEAM DETAILS (PSB-4SB12, PSB-4SB15, PSB	R-5SR15)
11 15 PROJECT CONTROL	163 163		YPICAL SLAB REINFORCEMENT PLAN			SLAB BEAM ELASTOMERIC BEARING DETAILS, PSBE	
16 19 ROADWAY TYPICAL SECTIONS	164 164		PSTREAM TRANSITION PLAN			SLAB BEAM RAIL ANCHORAGE DETAILS (PSBRA)	.5
20 22 TYPICAL CHANNEL SECTIONS I, II & III	165 166		PSTREAM TRANSITION SECTIONS			TRAFFIC RAIL TYPE C223	
23 24 GENERAL NOTES	167 167		OWNSTREAM TRANSITION PLAN	200 20	00	TRAFFIC RAIL TIPE C225	
25 28 SUMMARY OF BID ITEMS	168 168	58 D	OWNSTREAM TRANSITION SECTIONS		c	SIGNING AND PAVEMENT MARKING DETAILS	
29 29 SPECIFICATIONS LIST	169 169	59 D	OWNSTREAM TRANSITION DETAILS	269 2	73 73	SIGNING AND PAVEMENT MARKING	
29 29 31 EGILICATIONS EIGT	170 171	71 CI	HANNEL WALL STRUCTURAL DETAILS		_	NOT USED	
TRAFFIC CONTROL PLAN	172 172	72 CI	HANNEL STANDARD STRUCTURAL DETAILS			TRAFFIC SIGNAL LAYOUT PLAN	
	173 173	73 EF	ROSION CONTROL PRODUCT STANDARD DETAILS & NOTES	2/3 2			
30 30 TRAFFIC CONTROL PLAN GENERAL NOTES	174 174	74 CI	HANNEL ACCESS RAMP GRADING PLAN	076 07		IGNING AND PAVEMENT MARKING STANDARDS	
31 31 TRAFFIC CONTROL PLAN SEQUENCE OF WORL	1/5 1/6	76 B	ANCROFT AVE. RIGHT-OF-WAY GRADING PLAN			COSA STANDARD PAVEMENT MARKINGS (WORDS)	
32 32 TRAFFIC CONTROL PLAN WOODLAWN TYPICAL	L SECTIONS					COSA STANDARD PAVEMENT MARKINGS (ARROWS) COSA STANDARD PAVEMENT MARKINGS W/ REFLEC	CTIVE DAICED DAVENENT MARKEDS
33 34 TRAFFIC CONTROL PLAN OVERALL PHASING I	AYOUT	DRA	INAGE DETAILS				CIIVE KAISED PAVEMENI MAKKEKS
35 36 TRAFFIC CONTROL PLAN PH1 LAYOUT	177 177	77 0	VERALL DRAINAGE AREA MAP			COSA BICYCLE LANE PAVEMENT MARKINGS	
37 37 TRAFFIC CONTROL PLAN DETOUR #4 MAP PH	ASE 1 178 179	79 DI	ETAILED DRAINAGE AREA MAP I & II			COSA TYPICAL CROSSWALK DETAILS	
38 38 TRAFFIC CONTROL PLAN DETOUR *5 MAP PH	ASE 1 180 181	81 S	TORM DRAIN CALCULATIONS   &	281 28		TXDOT SIGN MOUNTING DETAILS, SMD	
39 41 TRAFFIC CONTROL PLAN PH1 - STEP 3	182 191		TORM DRAIN PLAN AND PROFILES	287 29		TXDOT TYPICAL SIGN REQUIREMENTS, TSR	24.014
42 44 TRAFFIC CONTROL PLAN PH1 - STEP 4			WALE II AND I2 PLAN AND PROFILES	292 29		TXDOT DELINEATOR & OBJECT MARKER DETAILS, D	J&UNI
45 45 TRAFFIC CONTROL PLAN PEDESTRIAN DETOU	R MAP PHASE 1 STEP 5 194 194		ULVERT K PLAN AND PROFILE	298 29		TXDOT METAL BEAM GUARD FENCE, GF (31)-11	F/71)TD 11
46 46 TRAFFIC CONTROL PLAN PHASE 2 LAYOUT	195 196		ULVERT K DETAILS	299 29		TXDOT METAL BEAM GUARD FENCE TRANSITION, GF	
47 47 TRAFFIC CONTROL PLAN DETOUR *1 MAP PH			TORM DRAIN LATERAL SECTIONS	300 30		TXDOT SINGLE GUARDRAIL TERMINAL (ET -2000 PL	
48 49 TRAFFIC CONTROL PLAN PH2 - STEP 1	157 157	-		301 30		METAL BEAM GUARD FENCE , DS ANCHOR TERMINA	AL, GF (31) DAT11
50 50 TRAFFIC CONTROL PLAN DETOUR *2 MAP PH		טט טו	RAINAGE DETAILS	302 30		TxDOT BRIDGE END DETAILS, BED-11	
111/11/10 001111102 12/11/02/12 11/11	Z - SILF Z	DRA	INAGE STANDARDS			TxDOT QUADGUARD II SYSTEM (NARROW), QUAD (N	
	201 203		OSA TYPE 'C' INLET AND INLET EXTENSION STANDARDS			COSA VEHICLE DETECTOR INSTALLATION DETAILS,	
1101110 001111102 1211111102 0 2111101		0.0	OSA PIPE BEDDING AND MISC DRAINAGE DETAILS	305 30		TxDOT TRAFFIC SIGNAL INSTALLATION TYPICAL DE	·
54 54 TRAFFIC CONTROL PLAN DETOUR *3 MAP PH			OSA ELEVATED SIDEWALK AND RETARD STANDARDS			TxDOT ELECTRICAL DETAILS, ED(1)-03, ED(2)-03	& ED(3)-03
55 56 TRAFFIC CONTROL PLAN PH3			OSA CONCRETE CHANNEL RIP-RAP	309a 30	)9a	TxDOT ELECTRICAL DETAILS, ED(7)-03	SAWS SANITARY SEWER REPLACEMENT DETAILS
			xDOT CULVERT END CAP, CEC (FW)			440	
TRAFFIC CONTROL STANDARDS	207 207	0/ 1:	XDOT CULVERT END CAP, CEC (FW)				448 COVER SHEET
57 60 COSA BARRICADE AND CONSTRUCTION STAND	DARDS 208 208	08 1:	XDOT CURB INLET TYPE C AND EXTENSION TYPE E, IL-C				449 GENERAL NOTES
61 72 TxDOT BARRICADE AND CONSTRUCTION STAN			XDOT (SAN ANTONIO DISTRICT) CURB INLET TY C AND EXT. TY C-E				450 ABBREVIATIONS & LEGEND
73 73 TXDOT TCP TYPICAL DETAILS: WZ(TD)-03	209 210		xDOT HORIZONTAL INLET TYPE H WITH GRATE, IL-H-G				451 PROJECT LAYOUT
74 74 TXDOT WORK ZONE SHORT TERM PAVEMENT	MARKINGS: W7(STPM)-03 211 212		xDOT SLOTTED DRAIN, SD	345 3	74	CHANNEL CROSS SECTIONS 452	452 SUMMARY QUANTITY SHEET
75 75 TXDOT WORK ZONE SIGNING FOR UNEVEN LA	017 017	13 T:	xDOT JUNCTION BOX STRUCTURE TYPE 2, JB-2-02 (FW)			453	460 SANITARY SEWER PLAN & PROFILE
76 82 TxDOT TRAFFIC CONTROL PLAN: TCP(1-1 th		14 T:	xDOT STORM DRAIN MANHOLE DETAIL TYPE 1-C, MH-1-02 (FW)		L	ANDSCAPE DETAILS 461	461 EXISTING MANHOLE RECONSTRUCTION &
	14 37 12, 161 (2 1 (1114 37 12 & 161 (2 37 12		XDOT MULTIPLE-BOX-CULVERT CAST-IN-PLACE MISC DETAILS, MC-MD	375 3	75	LANDSCAPE MATERIALS SCHEDULE	ADJUSTMENTS
	114 37 90, 101 (7 1) 90		xDOT MULTIPLE-BOX-CULVERT CAST-IN-PLACE 9'-0" SPAN, MC-9-10				462 DETAILS
86 87 TXDOT LOW PROFILE CONCRETE BARRIER: L	1 CB(1 Z) 10		XDOT BOX CULVERTS PRECAST MISC DETAILS, SCP-MD			OVERALL TREE PRESERVATION PLAN 463	
88 89 TXDOT SINGLE SLOPE CONCRETE BARRIER T	TFL 1. 33CB(27 10		XDOT SINGLE BOX CULVERTS PRECAST 3'-0" SPAN, SCP-3			705	
90 90 TxDOT SINGLE SLOPE CONCRETE BARRIER PI	INNED FLACEMENT: 33CB(3) 10		XDOT SINGLE BOX CULVERTS PRECAST 6'-0" SPAN, SCP-6	382 3		+03	471 CPS UNDERGROUND ELECTRIC
91 92 TxDOT CONCRETE SAFETY BARRIER TYPE 1			XDOT SINGLE BOX CULVERTS PRECAST 0-0 SPAN, 3CF-0  XDOT SINGLE BOX CULVERTS PRECAST 7'-0" SPAN, SCP-7				
93 93 TXDOT CONCRETE SAFETY BARRIER PINNED	PLACEMENT (F-SHAPE): CSB (7) - 10 220 220	20 1:	XDOT SINGLE BUX CULVERTS PRECAST 7-0 SPAN, SCP-7			TREE PRESERVATION DETAILS	ATE OF TEXA
94 94 TxDOT VEHICLE IMPACT ATTENUATOR (SAND	FILLED PLASTIC MODULES): VIA (SFPM) - 10 221 221	21 1:	XDOT SINGLE BOX CULVERTS PRECAST 8'-0" SPAN, SCP-8			HISTORICAL BRIDGE & EXISTING TRAIL LIGHTS	
<u>6</u>			XDOT EXTENDED CURB DETAILS, ECD			HISTORICAL BRIDGE PROTECTION & NOTES	
STORMWATER POLLUTION PREVENTION DETAILS	223 223	23 T:	XDOT CONCRETE WINGWALLS, PW			OVERALL GRADING PLAN	1 24:
95 95 STORM WATER POLLUTION PREVENTION PLAN				390 3	90	OVERALL LANDSCAPE GRADING PLAN	STEPHANIE D. BLEW
96 97 EROSION CONTROL PLAN OVERALL LAYOUT		00:0	DOE LAVOUTS			WOOD AND AND DADY DETAILS	
98 98 EROSION CONTROL PLAN PH1 LAYOUT			DGE LAYOUTS			WOODLAWN LAKE PARK DETAILS	92682
99 103 EROSION CONTROL PLAN PHASE 1	224 224	∠4 B	RIDGE LAYOUT S. JOSEPHINE-TOBIN DR			OVERALL SITEWORK PLAN	92682 OSSIERES
104 104 EROSION CONTROL PLAN PH2 LAYOUT			QUANTITY SUMMARY S. JOSEPHINE-TOBIN DR.			OVERALL SITEWORK XY COORDINATES	100/ONAL ENGLE A. V
105 107 EROSION CONTROL PLAN PHASE 2			BUTMENT 1 DETAILS S. JOSEPHINE-TOBIN DR	393 3		SITEWORK ENLARGEMENTS	Millegeo
			BUTMENT 5 DETAILS S. JOSEPHINE-TOBIN DR			JOGGING TRAIL PROFILE	01 1 2000
			BENTS 2-4 DETAILS S. JOSEPHINE-TOBIN DR	402 4	-03	DRAINAGE CROSSINGS & DETAILS	Stephanie PBlew
109 110 EROSION CONTROL PLAN PHASE 3			SLAB LAYOUT S. JOSEPHINE-TOBIN DR			SITEWORK DETAILS	Sport with the state of the sta
111 111 ENVIRONMENTAL PERMITS, ISSUES AND COMM	233 233		PRESTRESSED CONCRETE SLAB BEAMS, PSBND (MOD)	416 4	116	OVERALL TREE & PLANTING PLAN	
9			CONCRETE PARAPET 32" TALL (T221 (MOD))			PLANTING PLAN	
STORMWATER POLLUTION PREVENTION STANDA	236 236	36 B	RIDGE LAYOUT WOODLAWN LAKE TRAIL			PLANTING LIST & DETAILS	
112 113 COSA TEMPORARY EROSION SEDIMENT & WA	TER POLLUTION CONTROL MEASURES 2360 236	36a ∩	QUANTITY SUMMARY WOODLAWN LAKE TRAIL			IRRIGATION NOTES	NO DATE DESCRIPTION DWGCHK REVISIONS
2			BUTMENTS 1 & 4 DETAILS WOODLAWN LAKE TRAIL			IRRIGATION PLAN	REVISIONS
ROADWAY DETAILS			SENTS 2 & 3 DETAILS WOODLAWN LAKE TRAIL			IRRIGATION PEAN IRRIGATION DETAILS	
114 115 DEMOLITION PLANS - S. JOSEPHINE-TOBIN DE			BRIDGE LAYOUT WILSON BLVD	+20 4	2/	INNIGHTION DETAILS	AECOM TECHNICAL SERVICES, INC.
116 127 ROADWAY PLAN AND PROFILES	239 239		SUMMARY OF QUANTITIES WILSON BLVD.				AECOM TECHNICAL SERVICES, INC. 6800 PARK TEN BLVD., SUITE 180 SOUTH SAN ANTONIO, TEXAS_78213
128 131 BICYCLE AND PEDESTRIAN LAYOUT PLAN	240 240					OODLAWN LAKE PARK ELECTRICAL PLAN DETAILS	AECOM 6800 PARK TEN BLVD., SUITE 180 SOUTH SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM
132 132 LEAD WALK & DRIVEWAY TABLE			ABUTMENT *1 & *3 DETAILS WILSON BLVD	428 42	28	ELECTRICAL LIGHTING PLAN	TBPE REG. NO. F-3580
133 134 INTERSECTION DETAILS			NTERIOR BENT *2 DETAILS WILSON BLVD	429 42	29	ELECTRICAL ONE-LINE DIAGRAM	
n 135 136 MISCELLANEOUS FENCE & GATE DETAILS	243 243	43 P	PRESTRESSED CONCRETE SLAB BEAM SPANS (TY SB12) WILSON BLVD	430 43	30	ELECTRICAL SCHEDULES	
137 137 PAVING DETAILS			BRIDGE APPROACH SLAB ASPHALTIC CONCRETE PAVEMENT WILSON BLVD			ELECTRICAL DETAILS	
D IJ/ IJ/ I AVINO DETAILS			BRIDGE LAYOUT WOODLAWN AVE				
(0)			BRIDGE CONSTRUCTION SEQUENCE WOODAWN AVE.		5/	AWS WATER LINE REPLACEMENT DETAILS	
ROADWAY STANDARDS			SUMMARY OF QUANTITIES WOODLAWN AVE.	432 43		COVER SHEET	
138 138 COSA CONCRETE DRIVEWAY STANDARDS			ABUTMENT *1 & *3 DETAILS WOODLAWN AVE			GENERAL NOTES	
139 140 COSA MISC CONSTRUCTION STANDARDS I-II	249 249	49 IN	NTERIOR BENT *2 DETAILS WOODLAWN AVE			MISCELLANEOUS DETAILS	CITY OF SAN ANTONIO
141 141 COSA WHEELCHAIR RAMP STANDARDS			PRESTRESSED CONCRETE SLAB BEAM SPANS (TY SB15) WOODLAWN AVE			PROJECT LAYOUT	
142 142 COSA CHAIN LINK WIRE FENCE STANDARDS			PRESTRESSED CONCRETE SLAB BEAMS (NON-STANDARD SPANS)			SUMMARY QUANTITY SHEET	CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
143 143 TXDOT CONCRETE PAVEMENT DETAILS - CO						WATER LINE PLANS	SEELING CHANNEL PHASE I
143 143 TXDOT CONCRETE PAVEMENT DETAILS - CO		"				WATER METER RELOCATIONS	CHEET WIDEA
						WATER LINE CROSSING DETAILS SHEETS   &	SHEET INDEX
145 145 TRAFFIC RAIL FOUNDATION AND MISC DETAIL	2: IKL					WATERLINE SUPPORTS WOODLAWN AVE &	1 OF 1
L.						WILSON BRIDGES	PROJECT NO.: 60184822 DATE: JULY 2012
<u>.</u> 6							DRWN. BY: BM DSGN. BY: MJP CHKD. BY: SDB SHEET NO. 2
990							CHANGE OF DISSINGUE OF MICH CHANGES SUB SHEET NO. Z

STEPHANIE D. BLEW

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
SEELING CHANNEL PHASE I

PROJECT LEGEND

PROJECT NO 60184822

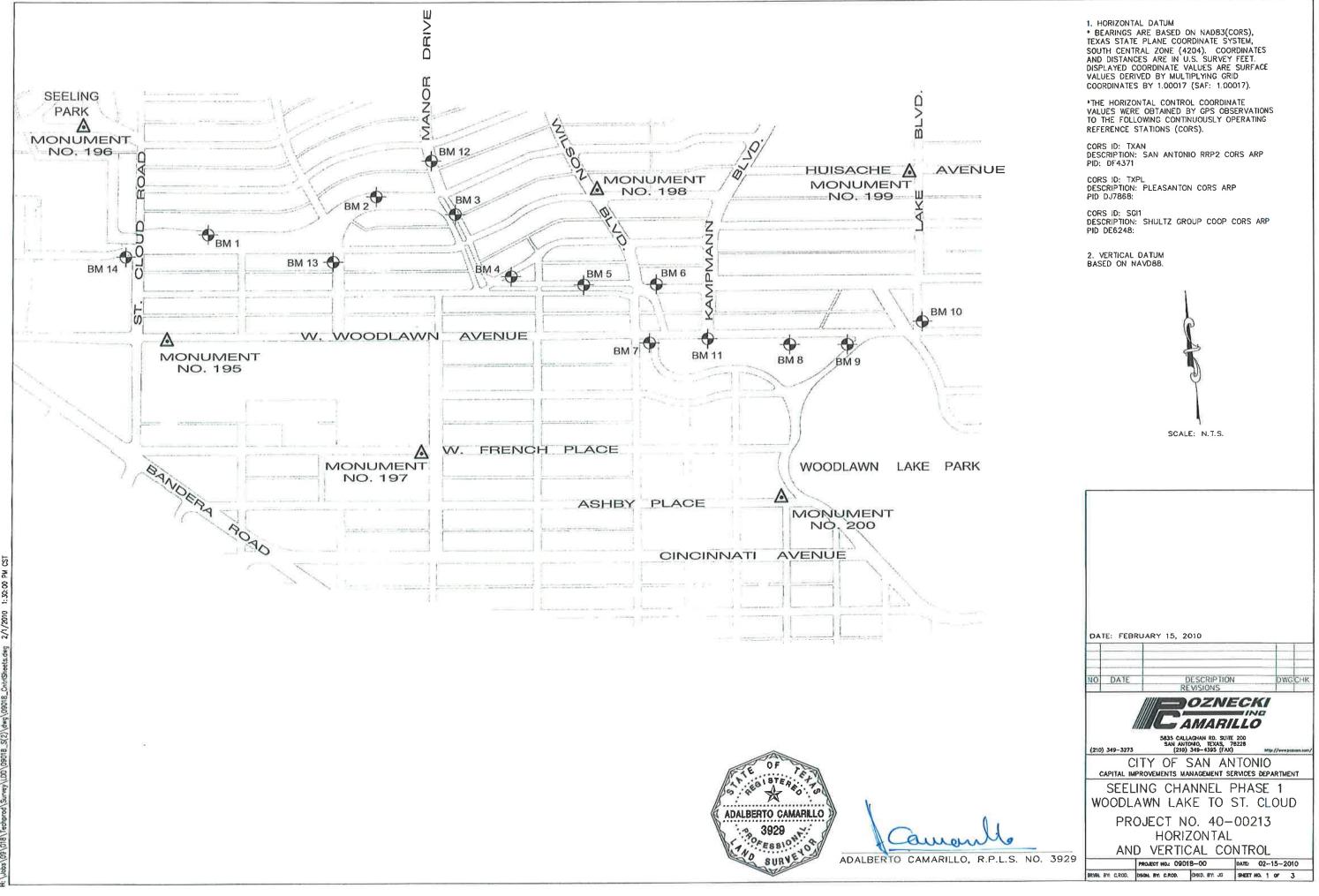
RWN BY: BM DSGN BY: MJP CHKO BY: SDB SHEET NO.

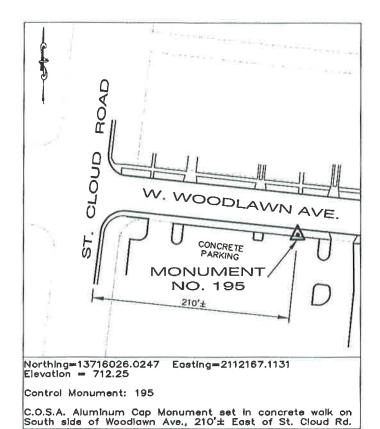
AECOM TECHNICAL SERVICES, INC 6800 PARK TEN BLVD., SUITE 18D SOU' SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM

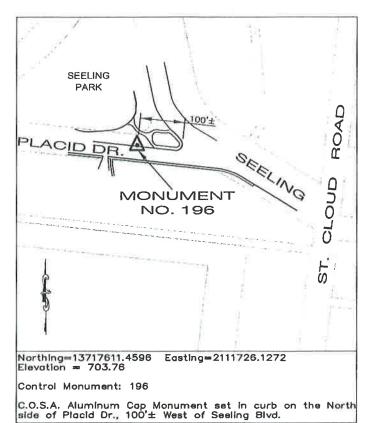
TBPE REG NO F-3580

DATE: JULY 2012

NO DATE

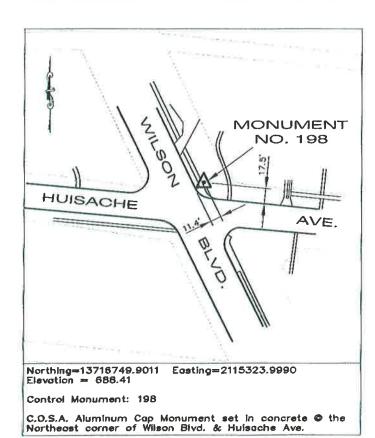


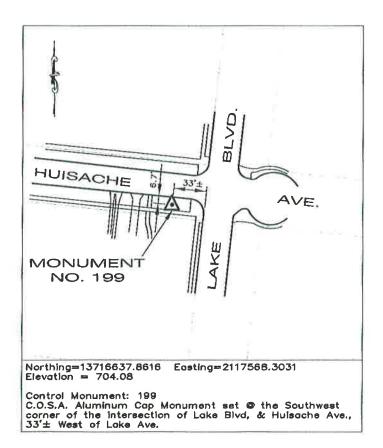


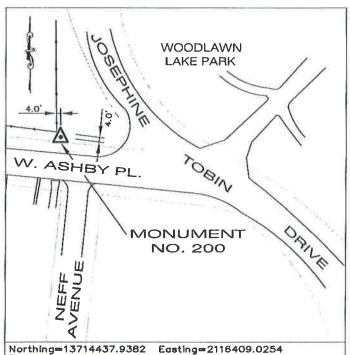




Control Monument: 197 C.O.S.A. Aluminum Cap set in concrete © the Southwest corner of French Pl. & Germania Ave., 82'± West of Germania St.







C.O.S.A. Aluminum Cap Monument set in concrete © the Northwest corner of Josephine Tobin Dr. & Ashby Pl., 4' South & 4' East of a chainlink fence corner.

1. HORIZONTAL DATUM \* BEARINGS ARE BASED ON NADB3(CORS),
TEXAS STATE PLANE COORDINATE SYSTEM,
SOUTH CENTRAL ZONE (4204). COORDINATES
AND DISTANCES ARE IN U.S. SURVEY FEET.
DISPLAYED COORDINATE VALUES ARE SURFACE VALUES DERIVED BY MULTIPLYING GRID COORDINATES BY 1.00017 (SAF: 1.00017).

\*THE HORIZONTAL CONTROL COORDINATE VALUES WERE OBTAINED BY GPS OBSERVATIONS TO THE FOLLOWING CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS).

CORS ID: TXAN DESCRIPTION: SAN ANTONIO RRP2 CORS ARP PID: DF4371

DESCRIPTION: PLEASANTON CORS ARP PID DJ7868:

DESCRIPTION: SCHULTZ GROUP COOP CORS ARP PID DE6248:

2. VERTICAL DATUM BASED ON NAVDBB.



ADALBERTO CAMARILLO, R.P.L.S. NO. 3929

DATE: FEBRUARY 15, 2010

NO DATE



(210) 349-3273

5835 CALLAGHAN RD. SUITE 200 SAN ANTONIO, TEXAS, 78228 (210) 349-4395 (FAX)

CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE 1 WOODLAWN LAKE TO ST. CLOUD

PROJECT NO. 40-00213 HORIZONTAL AND VERTICAL CONTROL

PROJECT NO.: 09018-00 | DATE: 02-15-2010 DRIMAL BY: C.ROO. DISGN. BY: C.ROO. DISKN. BY: JO SHEET NO. 2 OF 3

# TEMPORARY BENCHMARKS

вм	DESCRIPTION	ELEVATION
1	Top of railroad spike in 18" oak tree opposite side of street at 2639 W. Mulberry Avenue	696.47'
2	Top of railroad spike in power pole at 2527 & 2531 W. Mulberry Avenue	693.28'
3	Top of railroad spike in power pole on the east side of Manor Drive @ southwest corner of 2450 W. Mulberry Avenue	690.10'
4	Scribed "□" on south curb, opposite side of street at 2447 W. Magnolia Avenue	687.39'
5	Scribed "□" on north curb at 2431 W. Mistletoe Avenue	685.93'
6	Scribed "□" on north curb at 2323 W. Mistletoe Avenue	682.97'
7	Top of railroad spike in power pole at the northeast corner at 822 & 824 W. Woodlawn Avenue	685.01'
8	Scribed "□" on headwall on south side of street, opposite 2203 W. Woodlawn Avenue	680.93'
9	Aluminum TxDot disk on headwall at the northwest corner of the S. Josephine Tobin Drive bridge at Alazan Creek, 115'± southwest of W. Woodlawn Avenue	681.27'
10	C.O.S.A. aluminum disk on retaining wall on east side of Lake Boulevard, 40'± north of W. Woodlawn Avenue	685.07'
11	C.O.S.A. aluminum disk on south curb of W. Woodlawn Avenue at the intersection of the centerline of Kampmann Blvd.	680.67'
12	C.O.S.A. aluminum disk on east curb of Manor Drive, north of driveway at 2454 W. Summit Avenue	691.52'
13	C.O.S.A. aluminum disk on west curb of Morning Glory Drive, 75'± south of Hulsache Avenue	693.55'
14	C.O.S.A. aluminum disk on south curb of W. Hulsache Avenue, 65'± west of St. Cloud Road	703.34'

ADALBERTO CAMARILLO
3929
ESSIONO
SURVE

ADALBERTO CAMARILLO, R.P.L.S. NO. 3929

1. HORIZONTAL DATUM

\* BEARINGS ARE BASED ON NADB3(CORS),
TEXAS STATE PLANE COORDINATE SYSTEM,
SOUTH CENTRAL ZONE (4204). COORDINATES
AND DISTANCES ARE IN U.S. SURVEY FEET.
DISPLAYED COORDINATE VALUES ARE SURFACE
VALUES DERIVED BY MULTIPLYING GRID
COORDINATES BY 1.00017 (SAF: 1.00017).

\*THE HORIZONTAL CONTROL COORDINATE VALUES WERE OBTAINED BY GPS OBSERVATIONS TO THE FOLLOWING CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS).

CORS ID: TXAN
DESCRIPTION: SAN ANTONIO RRP2 CORS ARP
PID: DF4371

CORS ID: TXPL
DESCRIPTION: PLEASANTON CORS ARP
PID DJ7868:

CORS ID: CGI1
DESCRIPTION: SCHULTZ GROUP COOP CORS ARP
PID DE6248:

2. VERTICAL DATUM BASED ON NAVD88.

DATE: FEBRUARY 15, 2010

1	01\07\2011	REVISED ELEVATION FOR THE 45	VT	JG
NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		



5833 CALLAGHAN RO, SUITE 200 EAN ANTONIO, TEXAS, 78228 (210) 348-4365 (FAX)

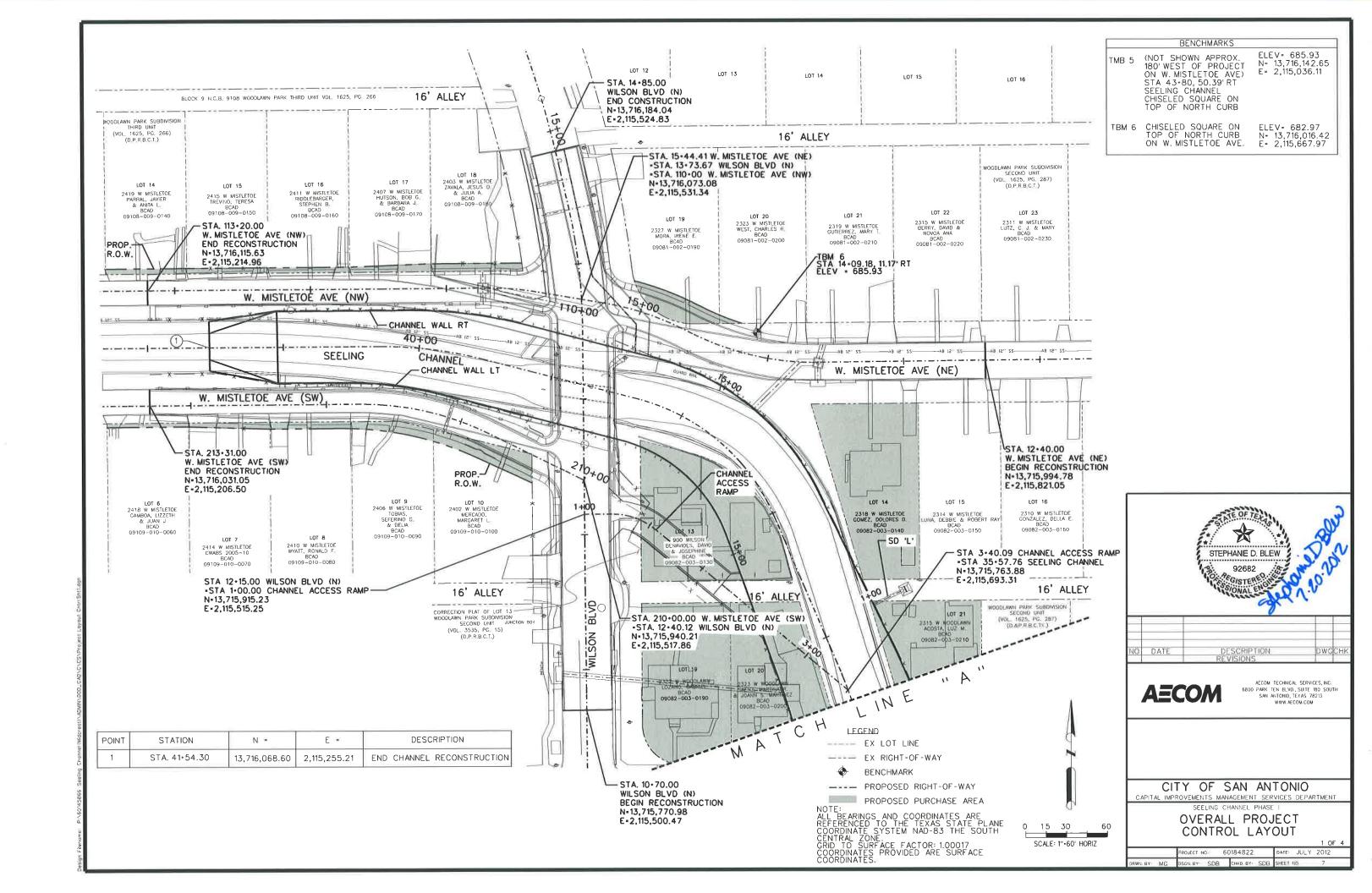
(210) 349-3273

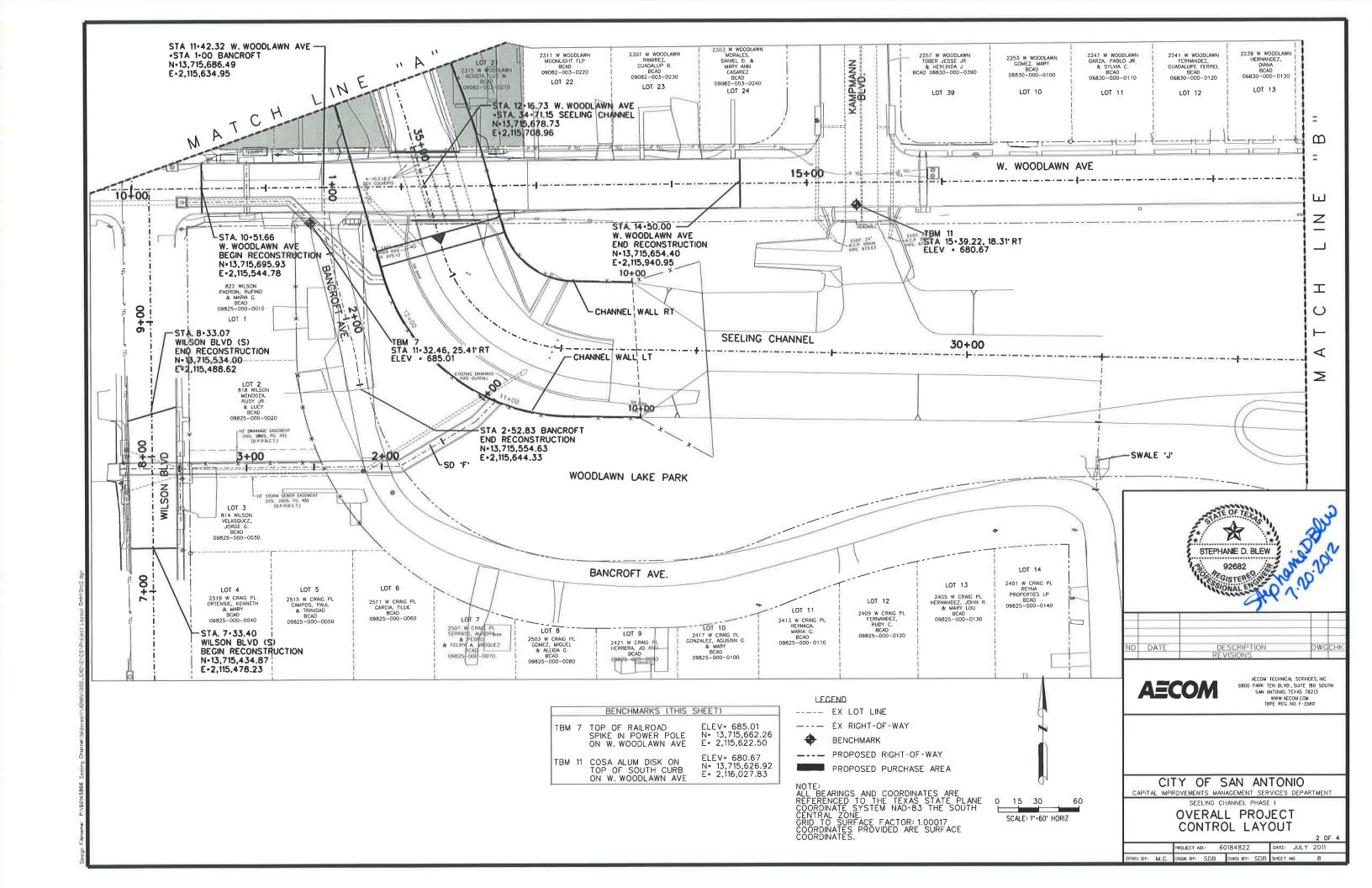
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

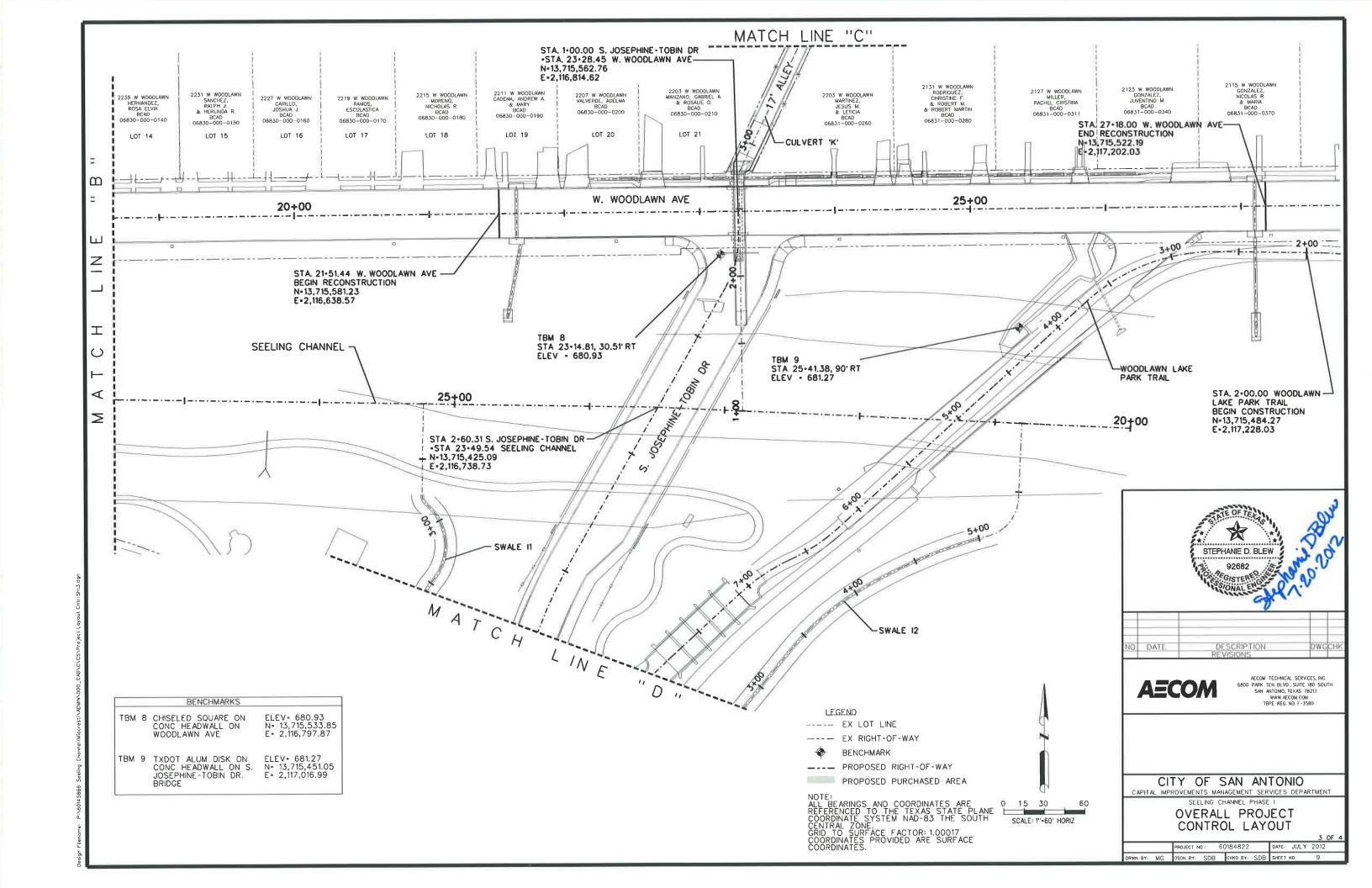
SEELING CHANNEL PHASE 1 WOODLAWN LAKE TO ST. CLOUD

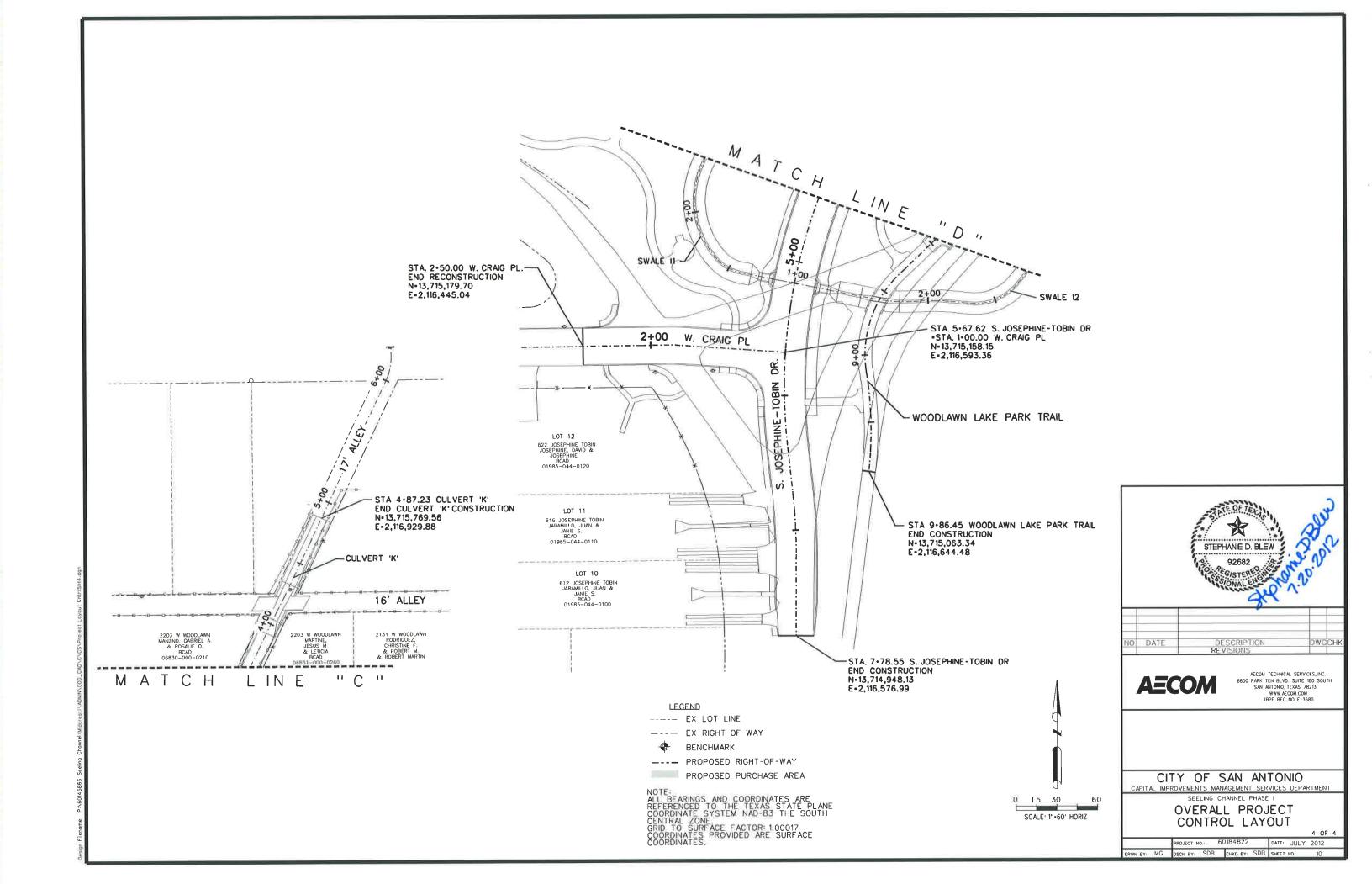
PROJECT NO. 40-00213 HORIZONTAL

9\018\Techprod\Survey\LDD\Q9018\_S(2)\dwg\09018\_CntriSheets.dwg 1/7/2011 9:23:26 AM CST









# S. JOSEPHINE-TOBIN DR.

Beginning chain JTO	DBIN description	****
Point JT01	N 13,715,562.7628 E 2,116,814.6157 Sto	1+00.00
Course from JT01	to PC JT02 S 5° 56' 41.20" W Dist 18.9519	
	0 0-1-	

# Curve Data

Curve JT02 P.I. Station Delta Degree = Tangent - Length - Radius =	1+39.11 N 30° 04' 52.85'' (RT) 76° 23' 39.74'' 20.1533 39.3764 75.0000	13,715,523.8679 E	2,116,810.5656
External - Long Chord - Mid. Ord P.C. Station P.T. Station C.C. Back - S Ahead - S Chord Bear - S	2,6605 38,9257 2,5694 1+18,95 N 1+58,33 N 5° 56' 41,20" W 36° 01' 34,05" W 20° 59' 07,62" W	13,715,543.9128 E 13,715,507.5690 E 13,715,551.6806 E	2,116,812.6529 2,116,798.7124 2,116,738.0562

Course from PT JT02 to PC JT03 S 36° 01' 34.05" W Dist 230.1838

# Curve Data

Curve JT03 P.I. Station	5+17.54 N	13,715,217.0561 E	2,116,587.4399
Delta	35° 45' 23.59" (LT)		
Degree -	14° 19' 26.20"		
Degree - Tangent - Length -	129.0290		
Length •	249.6278		
Rodius	400.0000		
External =	20.2957		
Long Chord 💌	245.5966		
Mid, Ord	19.3157		
P.C. Station	3+88.51 N	13,715,321.4081 E	2,116,663.3289
P.T. Station	6+38.14 N	13,715,088.0285 E	2,116,586.8329
C.C.	N	13,715,086.1465	E 2,116,986.8284
Back S	36° 01' 34.05" W		
Ahead S	0° 16' 10.46" W		
Chord Bear 🍵 S	18° 08' 52.25" W		

Course from PT JT03 to PC JT04 S 0° 16' 10.46" W Dist 35.4294

#### Curve Dota

Curve JT04 P.I. Station Delta - Degree - Tangent - Length - Radius - External - Long Chord - Mid. Ord P.C. Station P.T. Station C.C. Back - S	6+95.82 N 6° 22' 07.93" (RT) 14° 19' 26.20" 22.2545 44.4631 400.0000 0.6186 44.4402 0.6176 6+73.57 N 7+18.03 N	13,715,030.3452 E  13,715,052.5995 E 13,715,008.2400 E 13,715,054.4814 E	2,116,586.5615 2,116,586.6662 2,116,583.9888 2,116,186.6706
Back S Ahead S Chord Bear S	0° 16' 10.46'' W 6° 38' 18.39'' W 3° 27' 14.43'' W		

Course from PT JT04 to JT05 S 6° 38' 18.39" W Dist 60.5190

7+78.55 N 13,714,948.1267 E 2,116,576.9925 Sto

Ending chain JTOBIN description

# WILSON BLVD SOUTH OF W. WOODLAWN AVE.

Beginning chain WIL-SOUTH description							
Point 1003	Ν	13,715,401.6547 E	2,115,474.7106	Sta	7+00.00		
Course from 1003 to	1004	N 5° 59' 37.26" E	Dist 300.0013				
Point 1004	Ν	13,715,700.0160 E	2,115,506.0364	Sta	10+00.00		
Ending chain WIL-SOUTH description							

## WILSON BLVD NORTH OF W. WOODLAWN AVE.

Beginning chain WIL	description
Point WIL01	N 13,715,701.3404 E 2,115,493.4094 Sto 10+00.00
Course from WIL01	to WILO2 N 5° 47' 18.65" E Dist 164.8553
Point WIL02	N 13,715,865.3551 E 2,115,510.0362 Sta 11+64.86
Course from WIL02	to PC WILO3 N 5° 57' 53.64" E Dist 190.8997
	Curve Data
Curve WILO3 P.I. Station Delta Degree Tongent Length - Radius - External - Long Chord - Mid. Ord P.C. Station P.T. Station C.C. Back - N Ahead - N Chord Bear - N	13+98.34 N 13,716,097.5727 E 2,115,534.2994  12° 09' 11.08" (LT) 14° 19' 26.20"
Course from PT W	ILO3 to PC WILO4 N 6° 11' 17.44" W Dist 32.0230
	Curve Data
Curve WILO4 P.I. Station Delta Degree = Tangent Length = Radius = External =	16+17.89 N 13,716,316.1686 E 2,115,510.5980 21° 06' 01.73" (LT) 7° 20' 44.21" 145.2720 287.2528 780.0000 13,4129
Long Chord * Mid. Ord P.C. Station P.T. Station C.C. Back - N Ahead - N Chord Bear * N	
Point WIL05	N 13,716,445.2730 E 2,115,443.9946 Sto 17+59.88
Ending chain WIL d	escription

#### W. CRAIG PL

Point 190	N 13,715,158.1515 E	2,116,593.3627 Sta	1+00.00
Course from 190 to	191 N 79° 37' 46.23" W	Dist 78.0822	
Point 191	N 13,715,172.2073 E	2,116,516.5560 Sta	1+78.08
	Cu	rve Data	
Tangent Length   Radius   External   Long Chord   Mid. Ord.   P.C. Station   P.T. Station   C.C.   Bock   N	4° 39' 15.02" (LT) 57° 17' 44.74" 4.0638 8.1231 100.0000 0.0825 8.1208 0.0825 1+78.08 N 1+86.21 N 9° 37' 46.24" W 4° 17' 01.25" W	3,715,172.9388 E 13,715,172.2073 E 13,715,173.3436 E 13,715,073.8408 E	
Point 193	N 13,715,173.3436 E	2,116,508.5151 Sta	1+86.21
Course from 193 to	194 N 84° 17' 01.26" W	Dist 122.8136	
Point 194	N 13 715 185 5762 F	E 2,116,386.3122 Sta	3+09.02

#### W. WOODLAWN AVE.

Point 117	Ν	13,715,701.3404 E	2,115,493.4094	Sta	10+00.00
Course from 117 t	o 118 S	84° 00' 44.29" E Di	st 1,836.6453		
Point 118	N	13,715,509.7509 E	2,117,320.0346	Sta	28+36.65

#### CHANNEL ACCESS RAMP

Beginning chain RAMP do	lescription	
Point RAMP01	N 13,715,915.2283 E 2,115,515.2472 Sta	1+00.00
Course from RAMP01 to	o PC RAMPO2 S 84° 02' 06.36" E Dist 20.2627	

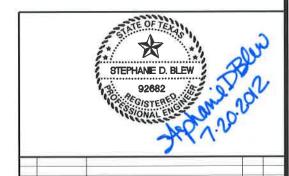
#### Curve Data

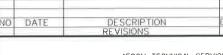
Curve RAMPO2			
P.I. Station	1+38.75 N	13,715,911.2009 E	2,115,553.7923
Delta :=	40° 35' 35.20" (RT)		
Degree	114° 35' 29.61"		
Tangent -	18.4921		
Tangent Length Radius	35.4242		
Radius	50.0000		
External •	3.3100		
Long Chord	34.6879		
Mid. Ord	3.1045		
P.C. Station	1+20.26 N	13,715,913.1226 E	2,115,535.4002
P.T. Station	1+55.69 N	13,715,897.7743 E	2,115,566.5078
C.C.	N	13,715,863.3933	E 2,115,530.2043
Back S	84° 02' 06.36" E		
Ahead - S	43° 26' 31.16" E		
Chord Bear 🖛 S	63° 44' 18.76" E		

Course from PT RAMPO2 to RAMPO3 S 43° 26' 31.16" E Dist 184.4052

N 13,715,763.8830 E 2,115,693.3085 Sta Point RAMP03

..... Ending chain RAMP description





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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

#### PROJECT CONTROL

PROJECT NO: 60184822 DATE: JULY 2012 RWN BY: JDB DSCN BY: MJP CHKO BY: SDB SHEET NO.

#### WOODLAWN LAKE PARK TRAIL

Beginning chain PED-BRIDGE description	
D. I. J. 1999	
Point 1020 N 13,715,484.2693 E 2,117,228.0344 Sta 2+00.00	
Course from 1020 to PC PED03 N 82° 42' 45.82" W Dist 65.4969  Curve Data	
Curve PED03	
P.I. Station Delta	
P.T. Station 3+70.98 N 13,715,467.1387 E 2,117,063.2504 C.C. N 13,715,353.7081 E 2,117,145.3083 Back - N 82° 42' 45.82" W Ahead = S 54° 07' 02.27" W Chord Bear - S 75° 42' 08.23" W	
Course from PT PED03 to PC PED04 S 54° 07' 02.27" W Dist 249.1855	
Curve Data	
Curve PED04 P.I. Station Delta = 17° 35' 12.20" (RT) Degree * 40° 55' 32.00" Tangent = 21.6565 Length = 42.9725 Radius = 140.0000 External = 42.8040	
Long Chord	3
Curve Data	
Curve PED05 P.I. Station 6+85.40 N 13,715,294.6032 E 2,116,802.1099 Delta - 18° 04' 16.09" (LT) Degree - 40° 55' 31.99" Tongent - 22.2629 Length - 44.1561 Radius - 140.0000 External - 1.7591	
Long Chord	
Course from PT PED05 to PI1023 S 53° 37' 58.39" W Dist 75.3115	
Point PI1023 N 13,715,236.7457 E 2,116,723.5397 Sta 7+82.61	
Course from P11023 to PC PED06 S 52° 24' 24.68" W Dist 44.8141	
Curve Data	
Curve PED06 P.I. Station 8+74.46 N 13,715,183.0723 E 2,116,649.0556 Delto 58° 28' 08.77" (LT) Degree 68° 10' 20.78" Tangent 47.0379 Length 85.7665 Radius 84.0454 External 12.2676 Long Chord 82.0932	
Mid. Ord 10.7051	2

# Curve Data

Curve PED07 P.I. Station	9+47.33 N	13.715.101.9688 E	2	,116,652.6181
Delta *	14° 24' 52.38" (RT)	15,715,101.3000		,110,032.0101
Degree -	21° 13′ 14.37′′_			
Tangent =	34.1438 67.9270			
Length • Radius •	270.0000			
External -	2.1503			
Long Chord =	67.7480			
Mid. Ord P.C. Station	2.1333 9+13.19 N	13 715 136 0707 F	-	2,116,651,1198
P.T. Station	9+81.11 N	13,715,136.0797 E 13,715,068.5588 E	2	2,116,645.5779
C.C.	N	13,715,124.2312	Ε	2,116,381.3799
Back S	S 2° 30' 54.50" E S 11° 53' 57.88" W			
Ahead * S Chord Bear * S				
Course from PT	PED07 to 1026 S 11° 53' 5	7.87" W Dist 5.334	7	
Point 1026	N 13.715.063.3387	E 2,116,644,4779	Sto	9+86.45
1 01111 1020	14 13,710,003.3387	2,110,044,4770	0.0	5 50.15
***************************************				
Ending chain PED	-BRIDGE description			

## W. MISTLETOE AVE (SW)

Beginning chain MIS_SW descrip	otion
Point 1000 N 13	3,715,940.2109 E 2,115,517.8575 Sto 210+00.00
Course from 1000 to PC MIS_	SWC1 N 57° 17' 36.53" W Dist 78.2804
	Curve Data
Delta - 26° 37' Degree - 27° 17' Tongent - Length - Rodius - 2 Externol - Long Chord - Mid. Ord - P.C. Station 210°	49.6979 97.6002 10.0000 5.8006 96.7241 5.6446 78.28 N 13,715,982.5086 E 2,115,451.9885 75.88 N 13,716,014.6239 E 2,115,360.7517 N 13,715,805.8043 E 2,115,338.5179 0.74" W
Course from PT MIS_SWC1 to	1002 N 83° 55' 20.74" W Dist 155.1198
End Construction	N 13,716,031.0472 E 2,115,206.5037 Sta 213+31.00
Ending chain MIS_SW description	on

## W. MISTLETOE AVE (NW)

Point MISNW01	N 13.716.073.07	79 F	2,115,531.3367 Sta	110+00,00
Course from MISNW01				
		Curve	Data	
Tangent - Length = Radius - External - Long Chord - Mid. Ord. = P.C. Station P.T. Station C.C. Back = N 74 Ahead - N 83	110+51.33 N 9° 53' 14.38" (LT) 28° 38' 52.40" 17.2996 34.5133 200.0000 0.7468 34.4705 0.7440 110+34.03 N 110+68.54 N 4° 02' 06.36" W 8° 55' 20.74" W 8° 55' 43.55" W		,087.1961 E 16,082.4379 E 6,089.0277 E 13,715,890.1518 E	2,115,481.9868 2,115,498.6192 2,115,464.7844 2,115,443.609
Course from PT MISNV	VO2 to end N 83°	55' 20.7	74" W Dist 331.460	0
End Construction A	13,716,124.120	16 F	2,115,135,1907	Sta 113+20.00

# W. MISTLETOE AVE (NE)

Point MISNE01	N	13,715,970.7166	E 2,116,059.8	421 Sta	10+00.00
Course from MISN	E01 to P0	MISNEO2 N 84	° 14' 47.19" W [	Dist 362.95	004
			Curve Data		
Curve MISNE02 P.I. Station Delta Degree - Tangent - Length - Radius - External - Long Chord - Mid. Ord P.C. Station P.T. Station C.C. Back - N Chord Bear - N	56° 51'	4+11.67 N 12' 51.03" (RT) 38' 52.40" 48.7193 95.5772 200.0000 5.8484 94.6703 5.6823 13+62.95 N 14+58.53 N 47.19" W 56.16" W 21.68" W	13,716,001.9865 13,716,007.102 13,716,038.616 13,716,206		
Course from PT N	vIISNE02 t	o PC MISNEO3 N	√ 56° 51' 56.16"	W Dist 9.2	2634
			Curve Data		
Curve MISNE03 P.I. Station	170 1/	14+97.98 N 0' 10.20" (LT)	13,716,060.1836	6 E	2,115,576.4090
Delto = Degree = Tangent = Length = Radius = External =	28°	38' 52.40" 30.1927 59.9329 200.0000			
Curve MISNEO3 P.I. Station Delta = Degree = Tangent = Length = External = Long Chord = Mid. Ord. = P.C. Station P.T. Station C.C. Station C.C. Station P.T. Station C.C. Stati	56° 51' 74° 02 65° 27'	38' 52.40" 30.1927 59.9329 200.0000 2.2662 59.7089 2.2408 14+67.79 N 15+27.72 N 56.16" W 06.36" W 01.26" W	13,716,043.68 13,716,068.48 13,715,876	01 E 80 E .2019 E	2,115,601.6921 2,115,547.3808 2,115,492.3711
Delto Degree - Tangent - Length - Radius - External - Long Chord - Mid. Ord P.C. Station P.T. Station C.C. Back - N Ahead - N Course from PT 1					

Ending chain MISNE description



CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

PROJECT CONTROL

PROJECT NO: 60184822 DATE: JULY 2012 DRWN BY: JDB DSGN BY: MJP CHKO BY: SDB SHEET NO.

#### SEELING CHANNEL

Beginning chain		
	CHNL description	
Point CHNL1	N 13,715,369.7066 E 2,117,083.8526 Sta 20+00.00	
Course from CH	INL1 to CHNL01 N 80° 52' 57.73" W Dist 349.5362	
Point CHNL01	N 13,715,425.0927 E 2,116,738.7324 Sta 23+49.54	
Course from CH	INL01 to PC CHNL02 N 82° 36' 20.16" W Dist 943.8812	
	Curve Data	
Curve CHNLO2 P.I. Station Delta = Degree = Tangent = Length = Radius = External =	33*68.02 N 13,715,556.1698 E 2,115,728.7218 73° 26' 43.43" (RT) 57° 17' 44.81" 74.5993 128.1864 100.0000 24.7600	
	119.5885 19.8461 32+93.42 N 13,715,546.5690 E 2,115,802.700 34+21.60 N 13,715,629.8178 E 2,115,716.8460 N 13,715,645.7374 E 2,115,815.5 N 82° 36' 20.16" W N 9° 09' 36.73" W N 45° 52' 58.45" W	)8 570
Course from PT	CHNL02 to PC CHNL03 N 9° 09' 36.73" W Dist 92.6150	
	Curve Data	
Curve CHNLD3 P.I. Station Delto Degree = Tangent = Length = Radius = External =	35+46.92 N 13,715,753.5401 E 2,115,696.8955 7° 29' 05.54" (LT) 11° 27' 32.96" 32.7054 65.3178 500.0000 1.0685	1
	65.2714 1.0662 35+14.22 N 13,715,721.2517 E 2,115,702.1021 35+79.54 N 13,715,784.8751 E 2,115,687.527 N 9° 09' 36.73" W 13,715,641.6540 E 2,115,208.4 N 16° 38' 42.27" W N 12° 54' 09.50" W	'3 178
Course from P1	CHNL03 to PC CHNL04 N 16° 38' 42.27" W Dist 118.4630	
	Curve Data	
	37+71.79 N 13,715,969.0750 E 2,115,632.4571 52° 23' 24.09" (LT) 38° 11' 49.87" 73.7929 137.1568 150.0000 17.1688 132.4283 15.4055 36+98.00 N 13,715,898.3741 E 2,115,653.594 38+35.16 N 13,715,995.4778 E 2,115,563.549 N 16° 38' 42.27" W N 69° 02' 06.36" W	-5
	N 42° 50' 24.31" W	
Course from P1	T CHNL04 to PC CHNL05 N 69° 02' 06.36" W Dist 116.7576	
	Curve Data	
Curve CHNL05 P.I. Station Delta - Degree - Tongent - Length - Radius - External - Long Chord - Mid. Ord	39+91.11 N 13,716,051.2773 E 2,115,417.9201 14° 53' 14.38" (LT) 19° 05' 54.94" 39.1957 77.9499 300.0000 2.5497 77.7308 2.5282	
P.C. Station P.T. Station C.C. Back	39*51.91 N 13,716,037.2532 E 2,115,454.5210 40*29.86 N 13,716,055.4271 E 2,115,378.944 N 13,715,757.1133 E 2,115,347.10 N 83° 55' 20.74" W	17
Course from P1	T CHNL05 to end N 83° 55′ 20.74″ W Dist 270.1400	
End Constructio	n 43+00.00 N 13,716,084.0277 E 2,115,110.3268	

# CHANNEL WALL LT

Point LTWA	_L01	N	13,715,4	90.2495	Е	2,115,8	48.293	0 Sta	10+00.00
Course from	n LTWAL	L01 to	PC LTWA	LLO2C N	82°	36' 20	).16" W	Dist	53.6838
					urve				
Curve LTW/ P.I. Station		1	1+61.96	N 1	3,715,	<b>:</b> 511.093	5 E		2,115,687.6798
Delta Degree Tangent Length Radius External	}	73° 2 39° .	9' 59.48' 30' 51.59' 108.276 186.008 145.000 35.966	53 31 00 2					
Long Chord Mid. Ord. P.C. Statio P.T. Statio	on		173.513 28.8181 10+53.68 12+39.69	N N	13,7 13,7	15,497. 15,618.0	1585 1054	E E	2,115,795.0557 2,115,670.5443 2,115,813,71
C.C. Back Ahead Chord Bear	* N * N	82° 36 9° 06 45° 51'	20.16" 20.68" 20.42" \	W W V	'	3,715,6	40.932	.O L	2,115,813.71
Course from	n PT LT	WALL02	C to PC	LTWALL(	)3 N	9° 06'	20.68	" W D	ist 125.0145
					urve				
Curve LTW/ P.I. Station Delta Degree Tangent Length Radius External		4° 2	3+81.84 (0' 10.48' (9' 43.38 17.131' 34.24 452.50 0.324	(LT) 2 60 00 2	13,715	5,758.3	597 E	Ξ	2,115,648.0487
Long Chord Mid. Ord. P.C. Statio P.T. Statio C.C. Back Ahead Chord Bear	= N = N	13° 26'	34.23 0.323 13+64.71 13+98.95 ' 20.68" 31.16" W	9 N N W	13,71 13,7	5,741.4 15,775. 13,715,6	.445 0216 69.833	E E 51 E	2,115,650.7599 2,115,644.0664 2,115,203.96
Course from	n PT LT	WALL03	to PC L	TWALLO	+ N 1	3° 26'	31.16"	W Dis	t 115.9005
					urve				
Curve LTW P.I. Statio Delta Degree		55° 3 50°	5+74.16  5' 35.20  55' 46.49  59.30	N " (LT)	13,715	5,945.4	283	Ē	2,115,603.3378
Tangent Length Radius External Long Chord Mid. Ord. P.C. Statio P.T. Statio C.C. Back Ahead Chord Bear	= N = N	69° 02	39.30 109.156 112.500 14.674 104.92: 12.9815 15+14.85 16+24.01 31.16" V 06.36" 18.76" W	8 0 8 50 N N N	13,71	15,887. 5,966.6 13,715,8	5477	Ë E 2 E	2,115,617.1241 2,115,547.9580 2,115,507.70
Course from	m PT LT	WALL04	to PC L	TWALLO	5 N 6	9° 02'	06.36	" W D	ist 135.8675
					urve				
Curve LTW. P.I. Statio Delto Degree Tongent Length Radius External Long Chord Mid. Ord.	n - -	14° 5	17+94.83 3' 14.38" 25' 08.34 34.94 69.50 267.50 2.273 69.30	95 53 00 5 99	13,71	6,027.7	'653	E	2,115,388.4491
P.C. Stati P.T. Stati C.C.	on on	600 00	2.254 17+59.88 18+29.38	N N	13,7 13,7	16,015.2 16,031.4 13,715,7	2606 1656 765.469	E E 91 E	2,115,421.0850 2,115,353.6961 2,115,325.33
Back Ahead Chord Bear		83° 55 76° 28'	' 06.36" ' 20.74" 43.55"	W W					
Course from	m PT LT	WALL05	to end	N 83° 5	5' 20	.74" W	Dist	51.56	

# **BANCROFT**

1 01110	N 13,715,686.4940 E 2,115,634.9540 Sta	1+00.00
Course from	1013 to PC BAN_C1 S 5° 59' 15.71" W Dist 29.0436	
	Curve Data	
Tangent Length Radius External	1*35.02 N 13,715,651.6643 E 13° 38' 02.83" (LT) 114° 35' 29.61" 5.9772 11,8980 50.0000 0.3560	2,115,631.3008
Long Chord Mid. Ord P.C. Station P.T. Station C.C. Back Ahead Chord Bear	1+29.04 N 13.715.657.6089 E	2,115,631.924 2,115,632.09 2,115,681.4
Course from	PT BAN_C1 to 1015 S 7° 38' 47.12" E Dist 84.1740	
Point 1015	N 13,715,562.3146 E 2,115,643.2963 Sta	2+25.12
Course from	1015 to 1016 S 4° 35' 31.40" E Dist 5.3248	
Point 1016	N 13,715,557.0069 E 2,115,643.7226 Sta	2+30.44
Course from	1016 to 1017 S 1° 32' 33.41" E Dist 22.3867	
	N 13,715,534.6283 E 2,115,644.3253 Sto	2+52.8



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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

PROJECT CONTROL

PROJECT NO: 60184822 DATE: JULY 2012 DRWN BY: JDB DSGN BY: MJP CHKD BY: SDB SHEET NO

#### CHANNEL WALL RT

Point RTWALL01	N 13,715,590.3839	E 2,115,853.5911 Sta	10+00.00
Course from RTWAL	LO1 to PC RTWALLO2C	N 82° 36' 20.16" W Dist	43.7932
		Curve Data	
Curve RTWALLO2C P.I. Station Delta - Degree - Tangent - Length - Radius - External - Long Chord -		13,715,601.3057 E	2,115,769.4333
Mid. Ord. = P.C. Station P.T. Station C.C. Back = N	10.9310 10+43.79 N 11+14.35 N 82° 36' 20.16" W 9° 06' 20.68" W	13,715,596.0200 E 13,715,641.8585 E 13,715,650.5626 E	2,115,810.1621 2,115,762.9337 2,115,817.2406

Course from PT RTWALLO2C to PC RTWALLO3 N 9° 06' 20.68" W Dist 58.5282

		Curve Data		
Curve RTWALL03 P.I. Station Delta	12+22.11 N 10° 16' 35.11'' (LT)	13,715,748.2598 E	2,	115,745.8800
Degree Tangent Length Radius	10° 27' 53.94" 49.2311 98.1981 547.5000			
External = Long Chord = Mid. Ord. =	2.2090 98.0666 2.2001			
P.C. Station P.T. Station C.C.	11+72.88 N 12+71.07 N	13,715,699.6491 E 13,715,794.7008 E N 13,715,613.0033		,115,753.6712 2,115,729.5418 2,115,213.0708
Back = N Ahead = N Chord Bear = N	9° 06' 20.68" W 19° 22' 55.79" W 14° 14' 38.24" W			

Course from PT RTWALLO3 to PC RTWALLO4 N 19° 22' 55.79" W Dist 123.9733

#### Curve Dota

Curve RTWALL04 P.I. Station	14+81.79 N	13,715,993.4742 E		2,115,659.6121
Delto	49° 39' 10.57" (LT)			,
Degree	30° 33' 27.90"			
	86.7423			
Tangent Length Radius	162.4889			
Radius	187.5000			
External -	19.0925			
Long Chord 🛎	157.4518			
Mid. Ord. =	17.3281			
P.C. Station	13+95.05 N	13,715,911.6480 E		2,115,688.3991
P.T. Station	15+57.54 N	13,716,024.5103 E	_	2,115,578.6122
C.C.	N N	13,715,849.4228	Ε	2,115,511.5255
Back N	19° 22' 55.79" W			
Ahead N	69° 02' 06.36" W			
Chord Bear 💌 N	44° 12' 31.08" W			

Course from PT RTWALLO4 to PC RTWALLO5 N 69° 02' 06.36" W Dist 97.0821

#### Curve Data

Curve KIWAL	LUJ						
P.I. Station		16+98.06 N		13,716,074.7892	Ε	2,1	15,447.3910
Delta		14° 53' 14.38" (LT)					
Degree		17° 13' 54.53"					
Tangent	-	43.4419					
		86.3944					
Length Radius		332.5000					
	-	2.8259					
Long Chord	-	86.1516					
	-	2.8021					
P.C. Station	1	16+54.62 N		13,716,059.2458	Ε		.115,487.9570
P.T. Station		17+41.01 N			Ε		15,404.1932
C.C.			Ν	13,715,748.75	574 E		2,115,368.9898
Back	- N	69° 02' 06.36" W					
Ahead	= N	83° 55' 20.74" W					
Chord Bear	- N	76° 28' 43.55" W					

Course from PT RTWALL05 to end N 83° 55' 20.74" W Dist 97.3000

End Construction Sta 18+38.31 N 13,716,089.6900 E 2,115,307.4420

Ending chain RTWALL description

SD 'F'

Beginning chain SD_F description
Point 10005 N 13,715,514.4458 E 2,115,742.8578 Sta 1+00.00
Course from 10005 to 10006 S 51° 00' 49.61" W Dist 21.3627
Point 10006 N 13,715,501.0058 E 2,115,726.2526 Sta 1+21.36
Course from 10006 to 10007 S 66° 00' 49.61" W Dist 65.1706
Point 10007 N 13,715,474.5129 E 2,115,666.7100 Sta 1+86.53
Course from 10007 to 10008 N 83° 59' 15.23" W Dist 207.1757
Point 10008 N 13,715,496.2134 E 2,115,460.6739 Sto 3+93.71
Ending chain SD_F description

#### SWALE J

Beginning chain SWAL	E-J description	
Point 1018	N 13,715,496.0105 E 2,116,192.2774 Sta	1+00.00
Course from 1018 to	1019 S 9° 00' 34.71" W Dist 140.0000	
Point 1019	N 13,715,357.7379 E 2,116,170.3533 Sta	2+40.00
Ending chain SWALE-	J description	*****

#### CHI VERT 'K'

	<u>CUL VEF</u>	<u> </u>	
Beginning chain CULVE	RT-K description		
Point CULVERTK01	N 13,715,415.1414	E 2,116,800.7408 Sta	1+00.00
Course from CULVER1	TK01 to CULVERTK02	N 5° 47' 28.03" E Dist 17	7.2129
Point CULVERTK02	N 13,715,591.449	8 E 2,116,818.6219 Sta	2+77.21
Course from CULVER1	TK02 to CULVERTK03	N 31° 54' 14.07" E Dist 1	33.1366
Point CULVERTK03	N 13,715,704.474	42 E 2,116,888.9841 Sta	4+10.35
Course from CULVER	KO3 to CULVERTKO4	N 34° 06' 31.04" E Dist 1	1.0208
Point CULVERTK04	N 13,715,713.599	2 E 2,116,895.1642 Sta	4+21.37
Course from CULVER1	KO4 to PC CULVERT	KO5 N 31° 48' 50.65" E Di	st 178.3723
		Curve Data	
Curve CULVERTK05 P.I. Station Delta Degree 1 Tangent Length Radius 5 External Long Chord 7 Mid. Ord. 7 P.C. Station P.T. Station	18.1813 40.0000 1.0557 18.0252 1.0286	13,715,865.1734 E	
P.T. Station C.C. Bock N 3 Ahead N : Chord Bear N 18	1° 48' 50.65" E 5° 46' 16.38" E	13,715,865.1734 E 13,715,882.2378 E 13,715,886.2600 E	2,116,995.0025 2,116,955.205
Course from PT CUL\	/ERTK05 to CULVERTI	KO6 N 5° 46' 16.38" E Dis	t 7.4894
Dalas CULVERTION	N 13 715 880 680	2 E 2,116,995.7556 Sta	6+25.41

#### SD 'M'

Point YY009	N 13,715,587.8369 E 2,116,814.7376 Sta	1+00.00
Course from YY009	9 to YY010 N 84° 00' 44.29" W Dist 107.3766	
Point YY010	N 13,715,599.0379 E 2,116,707.9468 Sta	2+07.3

#### SD 'N'

Point YY011	N 13,715,587.1067 E 2,116,821.6994 Sta	1+00.00
Course from YY	'011 to YY012 S 84° 00' 44.29" E Dist 315.8987	
Point YY012	N 13,715,554.1538 E 2,117,135.8747 Sta	4+15.90



CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

#### PROJECT CONTROL

PROJECT NO: 60184822 DATE: JULY 2012 DRWN BY: JDB DSGN BY: MJP CHKD BY: SDB SHEET NO.

#### SWALE II

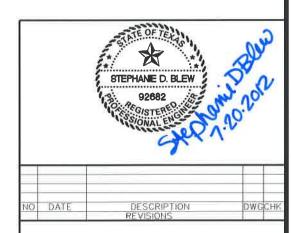
SWALE II
Beginning chain SWALE-11 description
Point SWALEWEST01 N 13,715,208.3241 E 2,116,605.9444 Sto 1+00.00
Course from SWALEWEST01 to PC SWALEWEST02 N 72° 12' 54.43" W Dist 40.6920
Curve Data
Curve SWALEWEST02 P.I. Station Delta = 36° 13' 18.90" (RT) Degree = 184° 49' 30.34" Tangent = 10.1389 Length = 19.5979 Radius = 31.0000 External = 16159
Long Chord - 19.2732 Mid. Ord. = 1.5359 P.C. Station 1.40.69 N 13,715,220.7533 E 2,116,567.1971 P.T. Station 1.60.29 N 13,715,232.0534 E 2,116,551.5842 C.C. Back - N 72° 12' 54.43" W Ahead - N 35° 59' 35.53" W Chord Bear - N 54° 06' 14.98" W
Curve Data
\$
Curve SWALEWEST03 P.I. Station
P.C. Station 1-60.29 N 13,715,232.0534 E 2,116,551.5842 P.T. Station 2+53.21 N 13,715,316.9404 E 2,116,558.9498 C.C. N 13,715,270.2532 E 2,116,604.1748 Back N 35° 59' 35.53" W Ahead N 45° 54' 41.05" E Chord Bear N 4° 57' 32.76" E
Curve Data
Curve SWALEWEST04
P.I. Station Delta
Curve Data
Curve SWALEWEST05 P.I. Station P.I. Station Pelto Pelto Pelto Pelto Perce Perc
Mid. Ord 0.9418 P.C. Station 3+15.10 N 13,715,372.8162 E 2,116,560.4982 P.T. Station 3+23.85 N 13,715,380.8895 E 2,116,557.9262 C.C. N 13,715,379.6025 E 2,116,567.843 Bock N 7° 23' 39.84" E Chord Bear N 17° 40' 16.02" W
Course from PT SWALEWEST05 to SWALEWEST06 N 7° 23' 39.84" E Dist 67.1052
Point SWALEWEST06 N 13,715,447.4366 E 2,116,566.5625 Sto 3+90.95
Ending choin SWALE-I1 description
SD 'L'
Beginning chain SD_L description
Point 1011 N 13,715,824.8171 E 2,115,718.9467 Sta 1+00.00
Course from 1011 to 1012 N 70° 37' 04.21" E Dist 26.2202
Point 1012 N 13,715,833.5187 E 2,115,743.6809 Sta 1+26.22
Ending chain SD_L description

SW	ALE	12
		_

SWALE 12 Beginning chain SWALE-12 description
Point YY001 N 13,715,208.3241 E 2,116,605.9444 Sto 1+00.00
Course from YY001 to PC SWALEEAST02 S 72° 12' 54.42" E Dist 57.7672
Curve Data
Curve SWALEEASTO2 P.I. Station Delto
Back S 72° 12' 54.43" E Ahead S 87° 59' 11.74" E Chord Bear - S 80° 06' 03.08" E  Curve Data
Curve SWALEEAST03
P.I. Station Delta - 10° 05' 25.70" (RT) Degree - 44° 04' 25.14"  Tangent - 11.4770 Length - 22.8946 Radius - 130.0001 Externol - Long Chord - Mid. Ord P.C. Station P.T. Station 2+16.45 N 13,715,184.5470 E 2,116,696,0913 P.T. Station 2+16.45 N 13,715,181.7373 E 2,116,718.7830
C.C. N 13,715,054.6272 E 2,116,691.524 Back S 87° 59' 11.72" E Ahead S 77° 53' 46.02" E Chord Bear S 82° 56' 28.87" E
Course from PT SWALEEAST03 to PC SWALEEAST04 S 77° 53' 46.01" E Dist 14.7085
Curve Data
Curve SWALEEAST04 P.I. Stotion Delto
Chord Bear N /3° 4/' 22.60" E
Course from PT SWALEEAST04 to PC SWALEEAST05 N 45° 28' 31.22" E Dist 63.5155  Curve Data
Curve SWALEEAST05 P.I. Station Delto = 19° 03' 47.77" (RT) Degree - 28° 38' 52.40"  Tangent - 66.5434 Radius - 200.0000 External - 2.7998 Long Chord - 66.2369 Mid. Ord 2.7611
P.C. Station P.T.
Curve Data
Curve SWALEEAST06 P.I. Station Delta 17° 24' 40.04" (RT) Degree 16° 22' 12.80" Tongent 53.5923 Length 106.3585 Radius 106.3585 Radius 106.3585 Rodius 106.3585 Rodius 106.3585 Rodius 106.3585 Rodius 106.3585 Rodius 106.3585
Mid. Ord 4.0323 P.C. Station 4+00.75 N 13,715,271.7693 E 2,116,869.1466 P.T. Station 5+07.11 N 13,715,302.3140 E 2,116,970.5979 C.C. N 13,714,955.7630 E 2,117,019.6126 Back - N 64° 32' 18.99" E Ahead - N 81° 56' 59.03" E Chord Bear - N 73° 14' 39.01' E



Curve SWALEEASTO7
P.I. Station
Detta 72° 49' 56.76" (1)
Degree 190° 59' 09.35"
Tangent 22.1310
Length 38.1350
Radius 30.0000
External 7.2798
Long Chord 35.6188
Mid. Ord. 5.8582
P.C. Station 5.07.11 N
P.T. Station
C.C.
Back N 81° 56' 59.03" E
Ahead N 9° 07' 02.27" E
Chord Bear N 45° 32' 00.65" E 13,715,305.4132 E 2,116,992.5109 13,715,302.3140 E 13,715,327.2646 E 13,715,332.0183 E Course from PT SWALEEAST07 to YY008 N 9° 07' 02.27" E Dist 55.8237 N 13,715,382.3831 E 2,117,004.8633 Sta Ending chain SWALE-I2 description





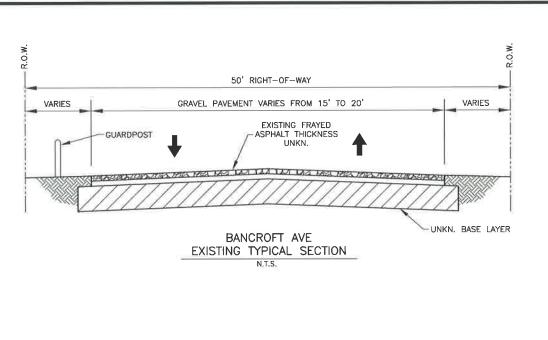
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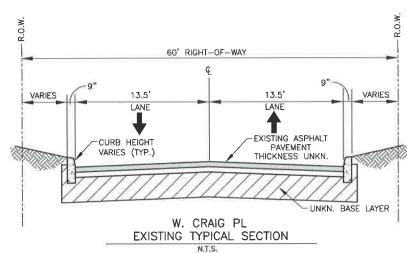
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

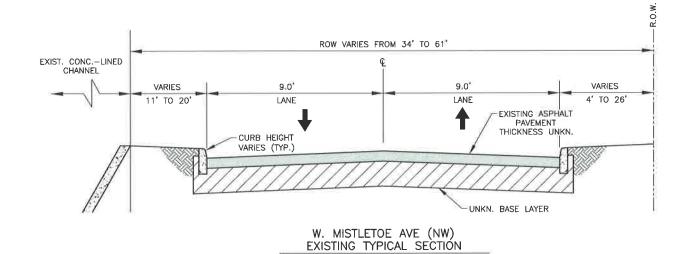
SEELING CHANNEL PHASE I

PROJECT CONTROL

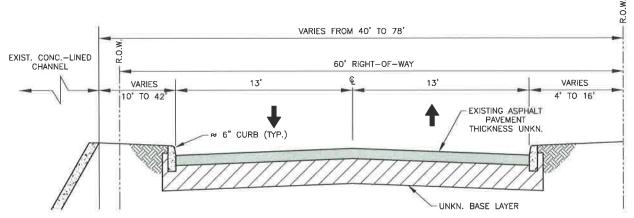
PROJECT NO: 60184822 DATE JULY 2012 DRWN BY: JDB DSGN BY: MJP CHKD BY: SDB SHEET NO.



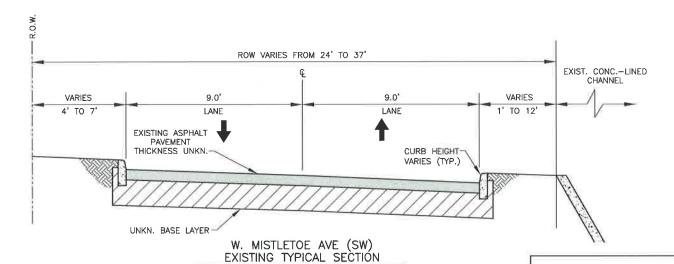




N.T.S.



W. MISTLETOE AVE (NE)
EXISTING TYPICAL SECTION
N.T.S.





**AECOM** 

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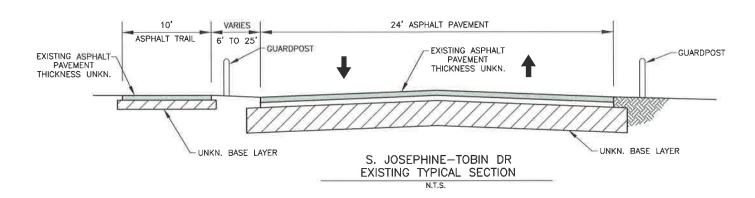
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

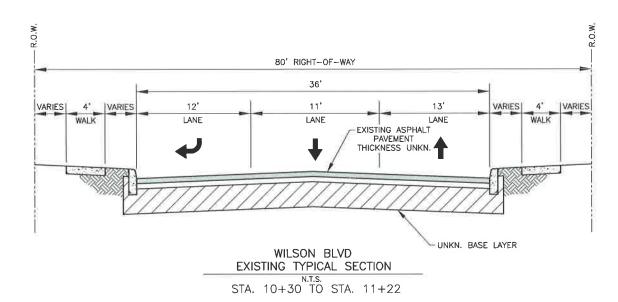
SEELING CHANNEL PHASE I

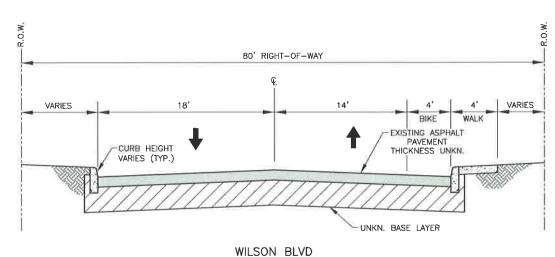
EXISTING ROADWAY
TYPICAL SECTIONS I

PROJECT NO. | 60184822 | DATE: JULY 2012

DRIVIN. BY M.G. | DSGN. BY | SDB | CHKO. BY | SDB | SHEET NO. | 16



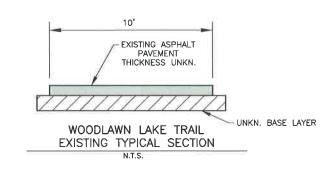


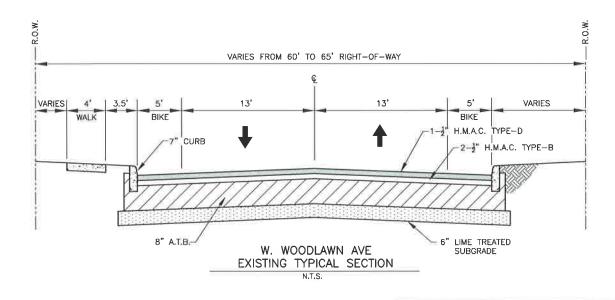


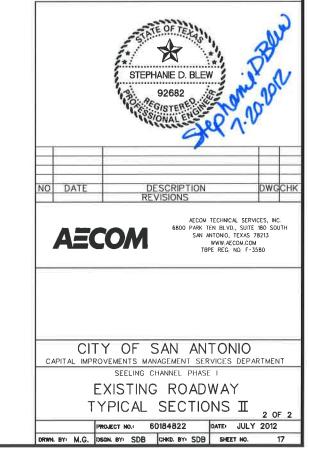
EXISTING TYPICAL SECTION

N.T.S.

STA. 11+22 TO STA. 14+85

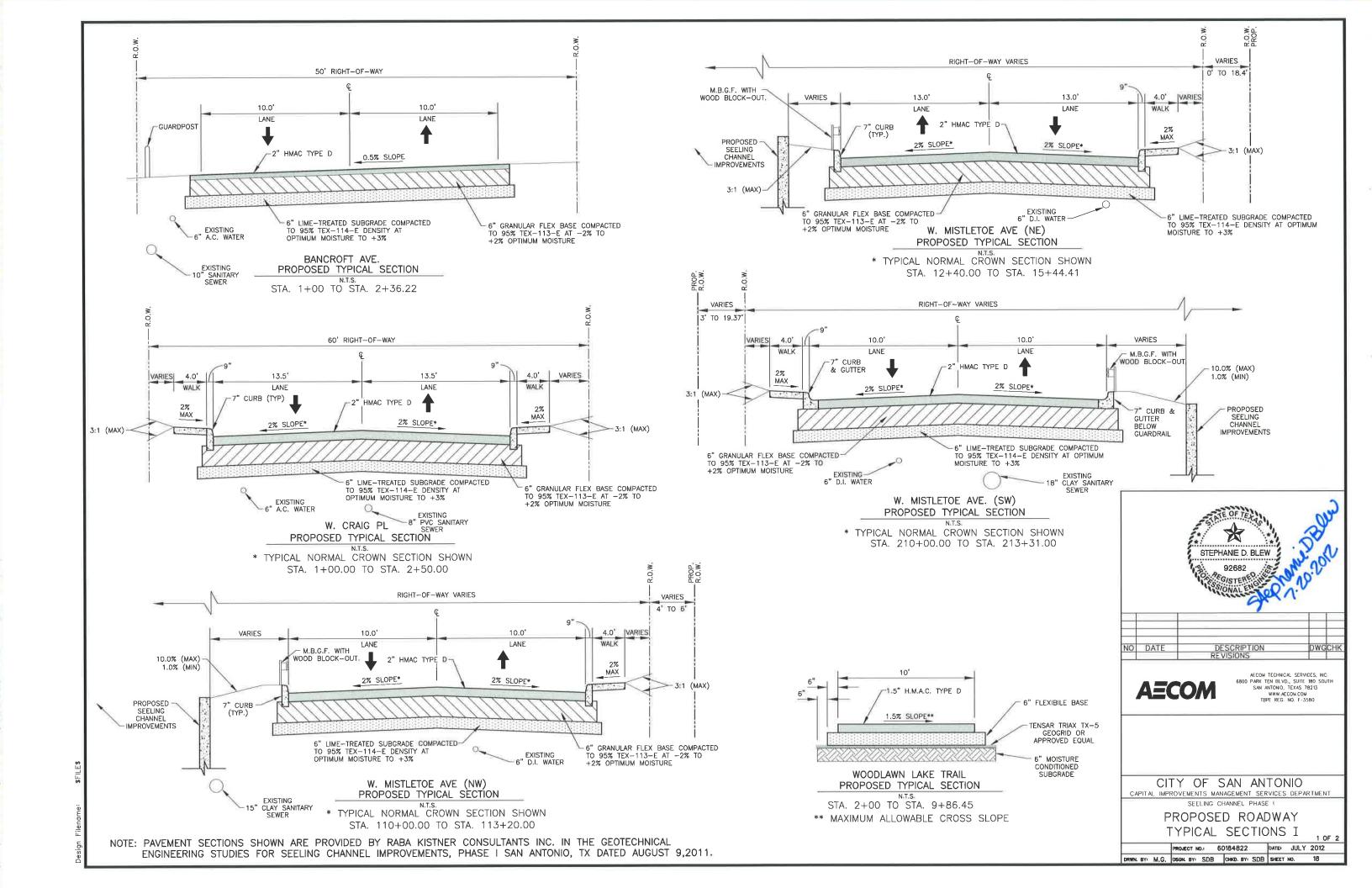


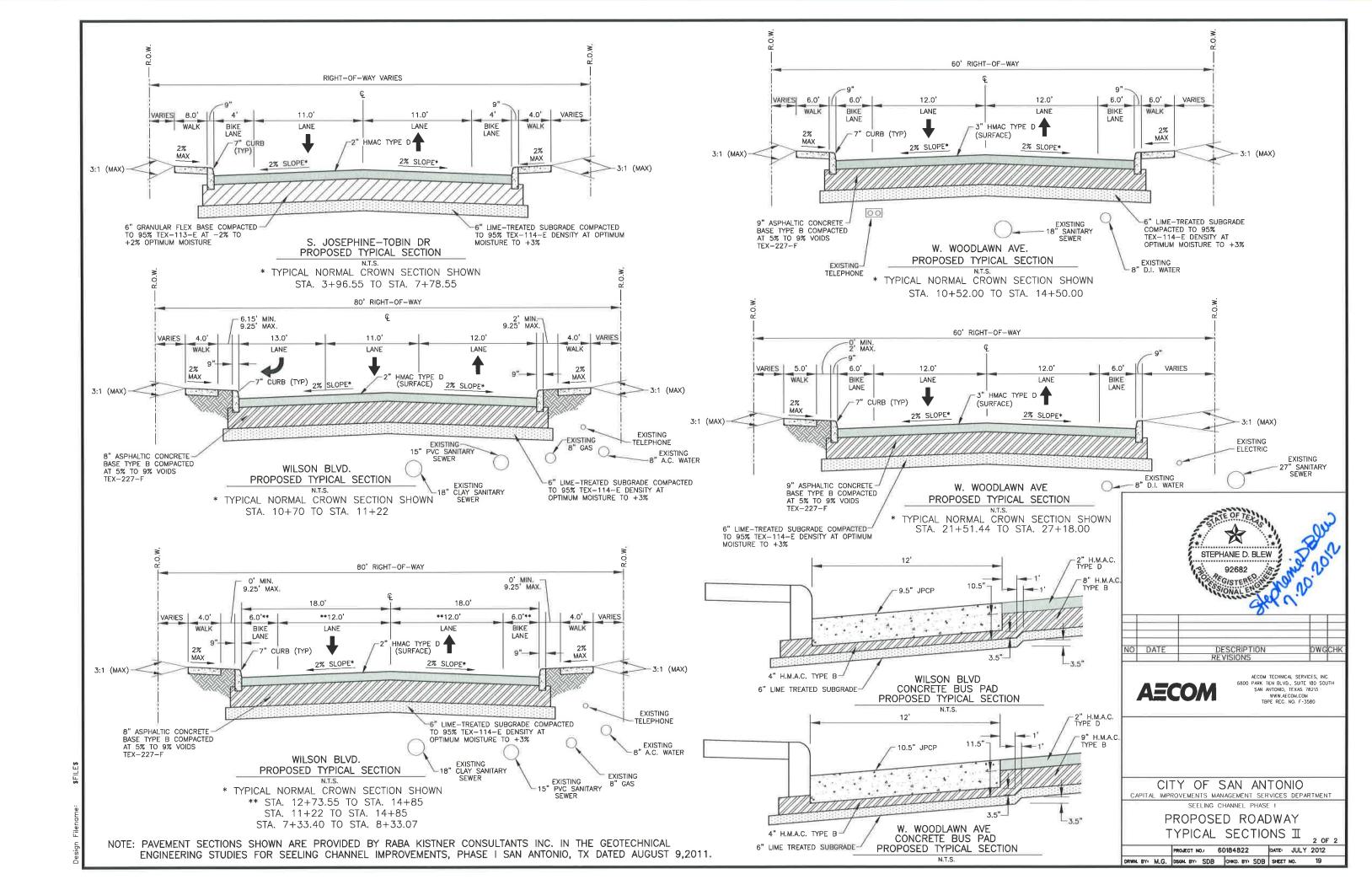


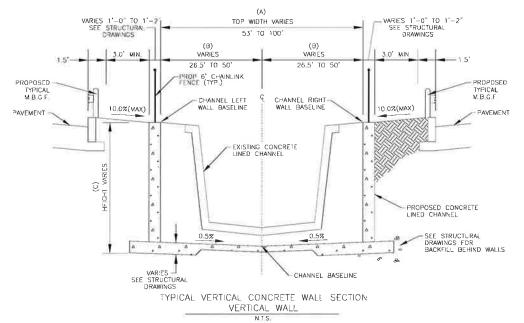


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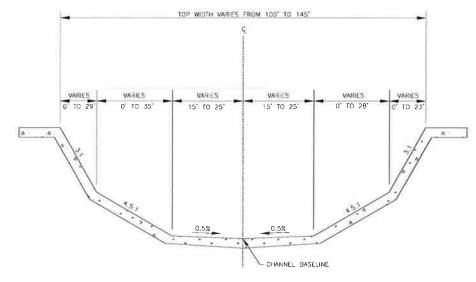
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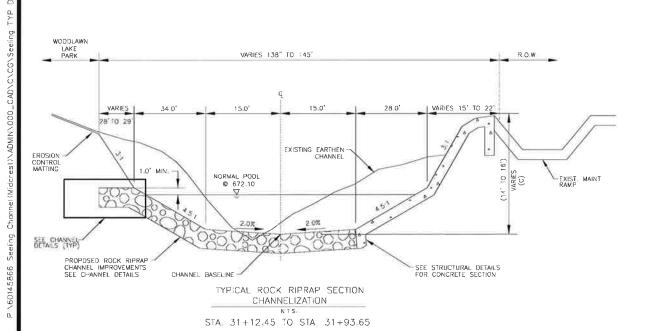
s	tatio	ın	Top Width	Top Width to Centerline	Height
			(ft)	(ft)	(ft)
FROM		TO	Α	В	C
40+69.78	to	41+04.29	53	26.5	12-14
39+03,68	to	40+69.78	53-65	Varies	11-13
38+40,97	to	39+03,68	65	32.5	11-12
37+36.85	to	38+40,97	65-75	Varies	11-13
36+17-22	to	37+36.85	75	37.5	11-13
35+24.32	to	36+17.22	75-95	Varies	11-13
34+21.60	to	35+24,32	95	47.5	10-13
32+93.42	to	34+21,60	95-100	Varies	14-15
32±45.06	to	32+03.42	100	50	14-16

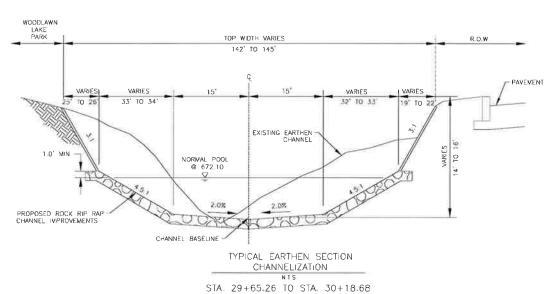


TYPICAL CONCRETE TRANSITION SECTION

6.75.

STA. 31+93.65 TO STA. 32+45.06





NOTE:
1. EROSION CONTROL MATTING SHALL BE
PROPEX LANDLOK® 300 WITH DUCKBILL ANCHORS
OR APPROVED EQUAL.



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TBPE REG NO F-3580

CITY OF SAN ANTONIO

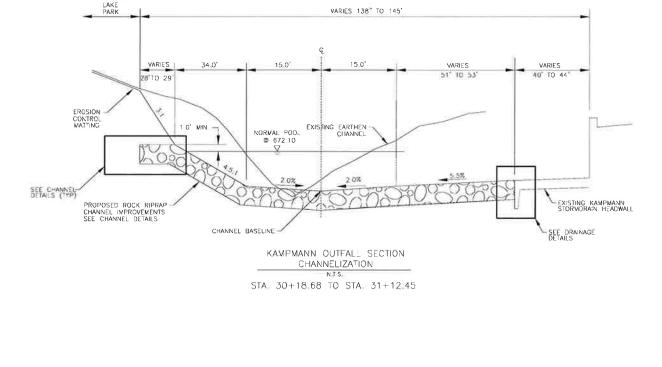
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
SEELING CHANNEL PHASE I

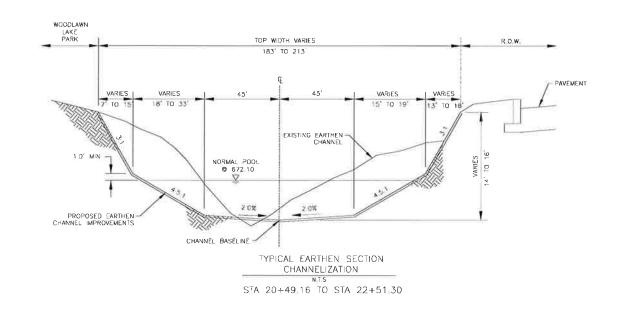
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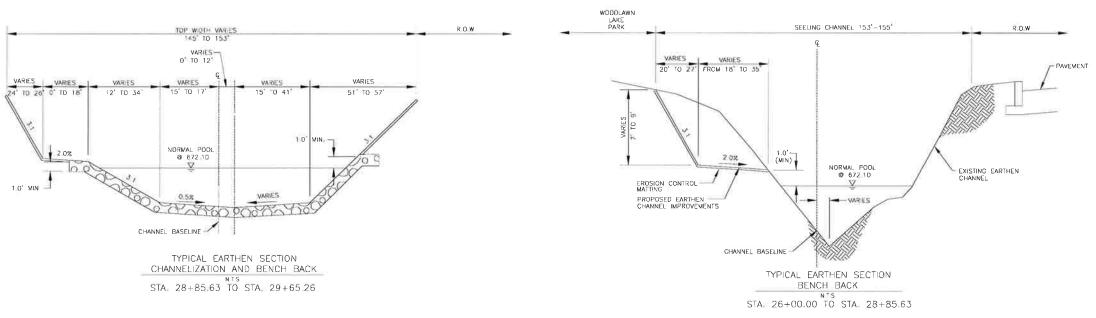
PROJECT NO 60184822 DATE JULY 2012

RINNEY BM DSCN BY MJP CHKD BY SDB SHEET NO 20

WOODLAWN:









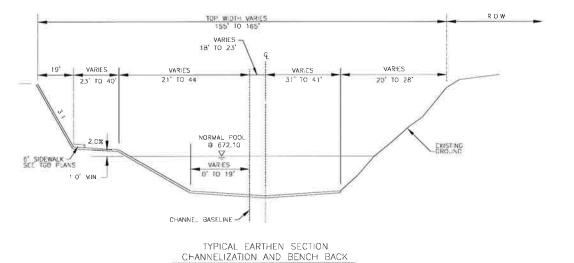


CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

TYPICAL CHANNEL SECTIONS I

					2 OF 3
		PROJECT NO 6	0184822	DATE JULY	2012
ORWN. BY	ВМ	DSGN. BY: MJP	CHKD BY SDB	SHEET NO.	21



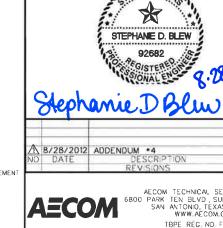
STA 23+58.00 TO STA 26+00.00

PAVEMENT VARIES VARIES VARIES
2' 10 18' 0' 10 23' 29' 10 35' VARIES 20' TO 28' EXISTING EARTHEN CHANNEL NORWAL POOL 9 672 10 1,0' VIN -CHANNEL BASELINE

TYPICAL EARTHEN SECTION CHANNELIZATION AND BENCH BACK NTS STA 22+51 30 TO STA 23+58 00

WOODLAWN LAKE PARK ₱ PAVEMENT VARIES VARIES

NOTE:
1. EROSION CONTROL MATTING SHALL BE
PROPEX LANDLOK® 300 WITH DUCKBILL ANCHORS
OR APPROVED EQUAL. 



R.D.W

AECOM TECHNICAL SERVICES, INC 6800 PARK TEN BLVD, SUITE 180 SOUT SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM TBPE REG NO F-3580

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

TYPICAL CHANNEL SECTIONS III

DATE JULY 2012 PROJECT NO 60184822 DRWN BY BM DSGN BY: M.IP CHKD BY: SDB SHFFT ND.

VARIES ; VARIES TO 18 0' TO 23' 29' TO 35" 20' TO 28" EXISTING EARTHEN CHANNEL NORMAL POOL @ 672,10 WOODLAWN LAKE PARK PROPOSED CONCRETE: TOP WIDTH VARIES 183' TO 213 ROCK RIPRAP VARIES 15° TO 19° VARIES VARIES CHANNEL BASELINE TYPICAL EARTHEN SECTION CHANNELIZATION AND BENCH BACK EXISTING EARTHEN -CHANNEL N.T.S. STA 23+0350 TO STA 23+81-50 1.0' MIN NORMAL POOL @ 672 10 PROPOSED ROCK RIPRAP TYPICAL EARTHEN SECTION CHANNELIZATION NT.S STA 21+13-16 TO STA 21+44-27

WOODLAWN LAKE PARK

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST.
- NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL, THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.
- IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
- CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION:

207-7720 / 207-7765

1-800-344-8377

SAN ANTONIO WATER SYSTEM (SAWS) 233-2010 BEXAR METROPOLITAN WATER DISTRICT (BEXAR MET) 354-6538 / 357-5741 COSA DRAINAGE 207-8052

COSA SIGNAL OPERATIONS TEXAS STATE WIDE ONE CALL LOCATOR

- CITY PUBLIC SERVICE ENERGY

- TIME WARNER

- AT&T
- MCI
- 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
- 12. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE REPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATE- 13. RIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
- 13. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN OR STORE MATERIALS OVERNIGHT WITHIN THE DESIGNATED 100-YEAR FLOODPLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOODPLAIN DEVELOPMENT PERMIT.
- 14. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS.
- IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE CITY INSPECTOR, AND CALL THE CITY HISTORIC PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION. THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY.

IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT

IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACT DURATION WILL NOT BE EXTENDED.

16. IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, C.O.S.A. SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND / OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND / OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR C.O.S.A. APPROVAL.

THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE C.O.S.A. INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.

CONTRACTOR IS TO INCLUDE A MAILBOX POST BLOCKOUT FOR VACANT LOTS AND ALL RESIDENCES WHICH DO NOT HAVE MAILBOXES AT THE CURB. BLOCKOUTS ARE PROVIDED FOR FUTURE USE BY THE POST OFFICE.

18. CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY DAYS PRIOR NOTICE FOR SHELTER REMOVAL (TELEPHONE NOS: (210) 362-2155 OR (210) 362-2096). THE CONTRACT-OR WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CON-TRACTOR IS REQUIRED TO REPLACE ALL FLATWORK REMOVED OR DAMAGED IN THE COURSE OF EXECUTING THE CONTRACT UNLESS OTHERWISE NOTED BY VIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING VIA FACILITIES IF ADJACENT TO WORK AREA

#### TREE PROTECTION AND PRESERVATION GENERAL NOTES

- NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- 2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION DURING CONSTRUCTION ACTIVITY. AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
- 3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
- ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
- ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
- 6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
- NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OF TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
- 8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
- 9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
- 10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
- 11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
- 12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
- TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
- 14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
- 15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
- 16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

#### **ACCESSIBILITY REQUIREMENTS**

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.
- WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY.
- 3. PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.
- 4. FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST

#### **DECEMBER 2009**

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CITY OF SAN ANTONIO GENERAL NOTES

% SUBMITTAL PROJECT NO.: SEELING CHANNEL PHASE I DATE: JULY 2012 RWN BY: M.G. DSGN BY: S.D.B. CHKD BY:

#### **SWE NOTES**

- THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A FLOODPLAIN, DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-207-8052 AS SOON AS CONFILICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
- CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY, OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
- NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDE DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- EIGHTY-FIVE PERCENT OF THE EARTHEN CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE.

#### **ENGINEER'S NOTES**

- ALL STORM DRAIN PIPE SHALL BE RCP CLASS III WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C361 OR C443UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL PRECAST BOX CULVERTS SHALL BE ASTM C1433 WITH RUBBER GASKETS FOR SEALING THE JOINTS.
- ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. THE CONTRACTOR IS REMINDED OF HIS RESPONSIBILITY TO PROVIDE A TRENCH SAFETY PROTECTION PLAN PRIOR TO THE START OF CONSTRUCTION. THIS DOCUMENT SHALL BE SUBMITTED TO THE CITY AT THE PRECONSTRUCTION CONFERENCE.
- LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF STORM DRAIN CONSTRUCTION SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF CONSTRUCTION. THIS SHALL BE A NO SEPARATE PAY ITEM.
- ALL JOINTS, SEALS, CONNECTIONS, AND MODIFICATIONS NECESSARY FOR PROPER INSTALLATION OF STORM DRAINAGE SYSTEMS SHALL BE SUBSIDIARY TO CMP, RCP AND BOX CULVERT BID ITEMS.
- ENERGY DISSIPATION BLOCKS SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE RIPRAP AND ARE A NON SEPARATE PAY ITEM.
- CONTROL POINTS FOR MANHOLES AND JUNCTION BOXES SHALL BE THE CENTER OF THE
- CONTROL POINTS FOR CURB INLETS SHALL BE THE MIDPOINT OF THE FACE OF CURB FOR CURB INLET ONLY (EXCLUDING INLET EXTENSIONS). TOP OF CURB INLET ELEVATIONS SHALL MATCH THE PROPOSED TOP OF CURB ELEVATIONS.
- ALL RCP STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A CLASS 'C' EMBEDMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL BACKFILL AND EMBEDMENT SHALL BE SUBSIDIARYTO COSA BID ITEM 401.
- MANHOLE RISERS ARE SUBSIDIARY TO JUNCTION BOX, MANHOLE AND INLET, BID ITEMS. ALL MANHOLE COVERS SHALL BE BOLTED.
- 10. ALL HORIZONTAL BENDS AND PIPE TO PIPE ANGLED CONNECTIONS IN RCP PIPE SHALL BE CONSTRUCTED USING PRE-FABRICATED BENDS AND FITTINGS.
- 11. THE LOCATIONS OF DRIVEWAYS, STEPS, ETC., AS SHOWN ON THESE PLANS ARE APPROXIMATE. ACCURATE LOCATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AFTER CONSULTATION WITH THE PROPERTY OWNERS.
- 12. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
- 13. CONTRACTOR SHALL REPLACE ALL BENCHMARKS REMOVED OR MODIFIED BY CONSTRUCTION
- 14. CONTRACTOR SHALL RECONSTRUCT ALL EXISTING DRIVEWAYS TO THE LIMITS SHOWN OR TO THE NEAREST CONSTRUCTION JOINT IN THE EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.
- 15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND MAINTAIN ALL EROSION CONTROL FACILITIES BEFORE, DURING, AND AFTER ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 16. FLEXIBLE BASE SHALL BE TYPE D GRADE 1.
- 17. FOR PEDESTRIAN SAFETY, THE CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (4 FEET TALL MINIMUM) AROUND ALL OPEN EXCAVATIONS OR AS DIRECTED BY THE ENGINEER. SUCH FENCING SHALL NOT OBSTRUCT SIGHT LINES OF THE TRAVELING PUBLIC. THIS SHALL BE A NO SEPARATE PAY ITEM.
- 18. THE CONTRACTOR SHALL COVER OR TEMPORARILY REMOVE EXISTING SIGNS THAT CONFLICT WITH THE SUGGESTED TRAFFIC CONTROL PLANS OR THE INTENT THEREOF BUT DO NOT REQUIRE RELOCATION DUE TO PHYSICAL CONFLICTS. SAID SIGNS SHALL NOT BE RELOCATED UNTIL TEMPORARY SIGN SUPPORTS HAVE BEEN INSTALLED TO ALLOW FOR THE IMMEDIATE RELOCATION OF ANY SUCH SIGNS. THIS SHALL BE A NO SEPARATE PAY ITEM.
- 19. THE PROJECT IS LOCATED WITHIN THE FEMA 100 YEAR FLOODPLAIN, AND IS SUBJECT TO PERIODIC INUNDATION. CONTRACTOR SHALL NOT STOCKPILE ANY CONSTRUCTION MATERIALS WITHIN THE 100 YEAR FLOODPLAIN, AND SHALL BE RESPONSIBLE FOR CLEARING ANY CONSTRUCTION MATERIALS FROM ADJACENT WATERWAYS AFTER A FLOOD EVENT. REPAIR OF ANY DAMAGES TO DRAINAGE STRUCTURES IN THE PROJECT AREA, OR DOWNSTREAM CAUSED BY CONSTRUCTION DEBRIS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 20. ALL BEARINGS AND COORDINATES ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NAD-83 THE SOUTH CENTRAL ZONE. GRID TO SURFACE FACTOR: 1.000169. COORDINATES PROVIDED ARE SURFACE COORDINATES.

- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING & PROTECTION OF UTILITY POLES DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF THEIR POLES SO THEY CAN VERIFY THE POLES ARE BEING PROPERLY BRACED, PROTECTED, AT NO
- 22. PREPARATION OF ROW SHALL INCLUDE ALL ROW AREAS WITHIN THE PROJECT, WHOLE LOT PURCHASE AREAS, DRIVEWAY AND LEAD WALK PENETRATION AREAS, SEELING CHANNEL, AND WOODLAWN LAKE PARK AREA WITHIN THE DAYLIGHT AND PROJECT LIMITS. PREPARATION OF ROW SHALL INCLUDE REMOVAL OF EXISTING CONCRETE, RETAINING WALLS, CONCRETE COLUMNS, BRIDGE CLASS CULVERTS, THE S. JOSEPHINE-TOBIN DR. BRIDGE, SLOPE PAVING, FLUMES, GUARDRAILS, AND STORM DRAIN CONDUIT, EXISTING PARK TRAIL, REMOVAL & SALVAGE OF WOODEN BOLLARS AND OTHER AREAS AS REQUIRED FOR THE DIVERSION AND CARE OF WATER.
- 23. ALL COORDINATES ARE TAKEN AT EDGE OF PAVEMENT OR BACK OF VERTICAL CURBS UNLESS NOTED OTHERWISE.
- 24. ALL RADII DIMENSIONS ARE TO FACE OF CURB.
- 25. CONTRACTOR SHALL PROTECT ALL EXISTING FENCE AND GATES ALONG ROW LINES UNLESS OTHERWISE NOTED
- 26. FILL MATERIAL SHALL BE FREE OF VEGETATION AND DEBRIS, AND SHALL BE UNIFORMLY COMPACTED TO A MINIMUM 95% TEX-113-E AT -2% TO +2% PERCENTAGE POINTS ABOVE THE SOILS' OPTIMUM MOISTURE CONTENT UNTIL FINAL COMPACTION, DETERMINED BY THAT TEST. FILL MATERIAL SHALL BE SPREAD IN LOOSE LIFTS NOT EXCEEDING 8 INCHES THICK, ON-SITE SOILS, FREE OF ANY UNUITABLE MATERIAL, ROCK OR CONCRETE GREATER THAN 4 INCHES IN ANY DIRECTION, MAYBE USED AS GENERAL SITE FILL.
- 27. FENCE AND GATE ITEMS SHALL INCLUDE CONNECTIONS TO EXISTING FENCING NOT IMPACTED BY THE PROJECT AND INCLUDE REPLACEMENT OF MOW STRIPS IF PRESENT ALONG THE EXISTING FENCELINE. ADDITIONAL CORNER POSTS MAY BE REQUIRED FOR CONNECTION, AND ARE A NO SEPARATE PAY ITEM.

  CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL PARTY FOR THE PROPERTY OF T FOR REUSE OR IN EXCESS OF WHAT IS REQUIRED FOR RELOCATION. THIS SHALL BE A NO SEPARATE PAY ITEM.
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING IRRIGATION SYSTEMS IN THE PROJECT AREA. ADJUSTMENTS TO EXISTING IRRIGATION SYSTEMS IMPACTED BY THE PROJECT SHALL BE NO SEPARATE PAY ITEM.
- 29. CONTRACTOR SHALL SALVAGE EXISTING LANDSCAPING PLANTS AND MATERIALS ON PRIVATE PROPERTY TO THE MAXIMUM EXTENT PRACTICABLE.
- 30. TREE LESS THAN 6"IN DIAMETER ARE NOT SHOWN ON PLANS.
- 31. THE REPAIR AND MAINTENANCE OF THE DIVERSION AND CARE OF WATER SHALL BE THE SOLE RESPOBSIBILITY OF THE CONTRACTOR AND SHALL BE A NO SEPARATE PAY ITEM.
- 32. THE CONTRACTOR IS ENCOURAGED TO REUSE ON-SITE EXCAVATED SOILS TO THE MAXIMUM EXTENT PRACTICABLE.
- A(33. EROSION CONTROL MATTING SHALL BE PROPEX LANDLOK 300 WITH DUCKBILL ANCHORS OR APPROVED EQUAL.
  - 34. LIME STABILIZED SUBGRADE SHALL CONTAIN 3% HYDRAUTED LIME BY WEIGHT, IF DRY PLACEMENT OF LIME IS USED DURING CONSTRUCTION, AN ADDITIONAL 1% OF LIME SHOULD BE ADDED.
- 35. CONTRACTOR SHALL ENSURE FENCES DISTURBED BY CONSTRUCTION ARE CLOSED AT THE END OF EACH WORKING DAY WITH TEMPORARY CONSTRUCTION FENCING AT A MINIMUM. THIS SHALL BE A NON-SEPARATE PAY ITEM.
- 36. CONTRACTOR SHALL REFER TO THE DIVERSION AND CARE OF WATER SPECIFICATION FOR ADDITIONAL REQUIREMENTS RELATED TO THE MANAGEMENT OF STORMWATER DURING CONSTRUCTION.
- 37. IN ACCORDANCE WITH THE SPECIAL ENVIRONMENTAL SPECIFICATIONS, CONTRACTOR IS ENCOURAGED TO REUSE SOILS EXCAVATED FROM THE AREA OF CONCERN TO FORM THE PROPOSED LANDSCAPE BERMS SHOWN ON THE OVERALL LANDSCAPE GRADING PLAN, PROVIDED THE FILL MATERIAL IS PLACED NO CLOSER THAN 10 FEET FROM PROPOSED PAVEMENT AND SIDEWALK.

  38. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE APPEARANCE OF ALL CONCRETE STRUCTURES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

#### UTILITY LEVEL OF QUALITY TABLE

Utility	Level Quality			
Othity	Horizontal Designation	Vertical Designation		
Storm Drain Mains	С	Α		
Wastewater Mains	Α	Α		
Water Distribution Mains*	С	С		
Natural Gas Mains*	В	С		
Overhead Electrical Lines	С	n/a		
Underground Electrical Lines	В	D		
Overhead Telecommunication Lines	С	n/a		
Underground Telecommunication Line	В	С		
Water Service Lines	С	С		
Wastewater Service Lines	С	С		
Gas Service Lines	D	D		

\*Water distribution mains and natural gas mains are at level A quality in point elevations near channel crossings locations only

}	STEPHANE D. BLEW 92682 GISTER SONAL END BLEW	5°	
	A 8/28/2012 ADDENDUM •4 NO DATE DESCRIPTION REVISIONS	DWG	SDB CHK
	AECOM TECHNICAL SERVIC 6800 PARK TEN BLYD., SUITE SAN ANTONIO, TEXAS 71 WWW.AECOM.COM TBPE REG. NO. F-35	180 S 3213	IC. SOUTH
	CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPAR	TMEN	Т
	SEELING CHANNEL PHASE I  GENERAL NOTES	2 (	IF 2

PROJECT NO.: 60184822

DATE: JULY 2012

#### SUMMARY OF SWPPP QUANTITIES

	540.01.1	540.06	540.09	540.1
SHT NO.	ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 1)	CONSTRUCTION EXITS (INSTALL/REMOVE)	TEMPORARY SEDIMENT CONTROL FENCE	CURB INLET GRAVEL FILTERS
	LF	SY	LF	LF
99	20		886	40
100	30		878	40
101			120	40
102		200	1066	70
103		200	668	
105	20		555	130
106		200	988	230
107		200	660	92
109			890	375
110			400	170
TOTAL	70	800	7111	1187

#### SUMMARY OF ENVIRONMENTAL QUANTITIES

	110.2.1	110.2.2	110.4.1	110.5.1	110.5.2
SHEET	TRANSPORTATION OF IMPACTED SOILS	DISPOSAL OF IMPACTED SOILS	REMOVAL, STORAGE, & TREATMENT OF IMPACTED GROUNDWATER	HEALTH & SAFETY PLAN	WASTE MANAGEMENT PLAN
	CY	CY	GAL	LS	LS
N/A	71	71	500	1	1
TOTAL	71	71	500	1	1

#### SUMMARY OF ROADWAY QUANTITIES

	100.1	100.2	101.1	104.1	107.1	108.1	108.2	200.1	202.1	203.1	205.2a	205.2b	205.2c	205.3b	205.4b	205.4c	500.1	500.4	502.1	503.1	503.2	503.5
SHT. NO.	MOBILIZATION	INSURANCE & BOND	PREP RIGHT OF WAY	STREET EXCAVATION	EMBANKMENT (FINAL)(DENS CONT)(TY C)	LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	LIME	FLEXIBLE BASE (6" COMPACTED DEPTH)	PRIME COAT	TACK COAT	HOT MIX ASPHALTIC PAVEMENT, TYPE B (4" COMP. DEPTH)	HOT MIX ASPHALTIC PAVEMENT, TYPE B (8" COMP. DEPTH)	HOT MIX ASPHALTIC PAVEMENT, TYPE B (9" COMP. DEPTH)	HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	HOT MIX ASPHALTIC PAVEMENT, TYPE D (3" COMP. DEPTH)	CONCRETE CURBING	CONCRETE CURB & GUTTER	CONCRETE SIDEWALKS	PORTLAND CEMENT CONCRETE DRIVEWAY	PORTLAND CEMENT CONCRETE DRIVEWAY-CO MMERCIAL	GRAVEL DRIVEWAY
	LS	LS	LS	CY	CY	SY	TON	SY	GAL	GAL	SY	SY	SY	SY	SY	SY	LF	LF	SY	SY	SY	SY
116	1	1	1	15	356	313	2	253	51						231		229		123			
117				479	280	1772	13	1532	306						1382		753		366	169		
118				156	30	633	5	541	108						474		327		41			
119				332	104	1225	9	1048	210						919		647		147	86		
120				458	17	1059	8	892	178						757		685		140	104		
121				395	25	9584	72	896	179						758			698	148	83		15
122						462	3		85			457		808	440		66		77	40	24	
123				213	95	1301	10		239	230		1149			1066		326	89	177	73	75	
124				93	34	477	4		87	83		414		72	374		161		44	53		
125				367.5	337	1220	9		224	212	153		1058	823		967	660		253	70	37	
126				121.5	718	2185	16		401	382			1912	406		1754	877		232	146		
127				198	197	935	7		171	56	534		282	262		274	370		74	76		
Total	1	1	1	2826	2192	21164	159	5161	2238	963	686	2020	3252	2370	6401	2994	5100	787	1822	900	136	15

#### CONT. SUMMARY OF ROADWAY QUANTITIES

	506.1	508.1	513.1	515.1	516.1	516.2	520.1	522.1	523.1	523.3	523.4	523.6	524.1	SP. 4	354 2002	360 2015	360 2016	420 2006	450 2166	450 2203
SHT. NO.	CONCRETE RETAINING WALLS - COMB TY	RELOCATING WIRE FENCE	REMOVING AND RELOCATING MAIL BOXES	TOPSOIL (6")	BERMUDA SODDING	ST. AUGUSTINE SODDING	HYDROMULOH	SIDEWALK PIPE RAILING	ADJUST CHAIN LINK VEHICULAR GATE	ADJUST CHAIN LINK PEDESTRIAN GATE	ADJUST WROUGHT IRON VEHICULAR GATE	ADJUST WROUGHT IRON PEDESTRIAN GATE	CONCRETE STEPS	REMOVE & RESET WROUGHT IRON FENCE	PLANE & TEXT ASPH CONC PAV (0" - 2")	CONC PVMT (JOINTED - CPCD) (9.5")	CONC PVMT (JOINTED - CPCD) (10.5")	CL C CONC (RAIL FOUNDATION)	RAIL (TY C223)	RAIL (TY T221)(MOD)
	CY	LF	EA	CY	SY	SY	SY	LF	EA	EA	EA	EA	CY	LF	SY	SY	SY	CY	LF	LF
116				86	129	129	257											7		44
117				227	340	340	680				1			88						
118				122	183	183	366				1			90						
119				132	197	197	394													
120		60		64	95	95	190		1	1		1	0	65						
121	0.5		1	72	108	108	216					1	0	39						
122	2.2	395		11	16	16	32								808					
123		53		103	154	154	308							-		155		6	39	
124				53	79	79	158							86	72					
125				81	121	121	243						0		823		132			
126	26.4			87	130	130	261	251					1	-	406					
127	7.2			35	53	53	106	22					1	-	262		465			
Total	36.4	508	1	1073	1606	1606	3212	273	1	1	2	2	2	368	2370	155	597	13	39	44

Ь.				-
NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

AECOM TECHNICAL SERVICES, INC.
6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
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TBPE REG. NO. F-3580

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

SUMMARY OF BID ITEMS

 PROJECT NO.:
 60184822
 DATE:
 JULY
 2012

 DRWN, BY:
 BM
 DSGN, BY:
 MJP
 CHKD, BY:
 SDB
 SHEET NO.
 25

#### SUMMARY OF CHANNEL QUANTITIES

	104.1	105.1	107.1	108.1	108.2	200.1	205.4b	306.1	307.1	503.1	505.12	507.2	507.4	507.5	515.1	516.1	516.2	520.1	554.1	432 2021	SP. 2
SHT. NO.	STREET EXCAVATION	CHANNEL EXCAVATION	EMBANKMENT (FINAL)(DENS CONT)(TY C)	LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	LIME	FLEXIBLE BASE (6" COMPACTED DEPTH)	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMPACTED DEPTH)	STRUCTURAL EXCAVATION	CONCRETE STRUCTURE (RETAINING WALLS)	PORTLAND CEMENT CONCRETE DRIVEWAY	CONCRETE RIPRAP (8" THICK)	CHAINLINK WIRE FENCE (6 HIGH)	GATE- PEDESTRIAN	GATE- VEHICULAR (20 FEET)	TOPSOIL (6")	BERMUDA SODDING	ST AUGUSTINE SODDING	HYDROMULC H	EROSION CONTROL MATTING	RIPRAP (STONE PROTECTI ON)(18 IN)	SOLDIER PILE & LAGGING
	CY	CY	CY	SY	TON	SY	SY	CY	CY	SY	SY	LF	EA	OPENING	CY	SY	SY	SY	SY	CY	SF
146								5962	1446			710									9318
14 7								9319	1485			610							'	٠	585
148		2674	7					8940	1473		1228	511							574	352	
149		4798									116								2818	513	
150	4461	7204	1365																3774 •	140	
151		4108																	764	150	
174	441		211					618					4	1					· ,	}	
175	555		203	341	3	305	305			72					471	705	705	14 10			
176	78		158												514	769	769	1538			
Total	5535	18783	1944	341	300	305	305	24839	4404	72	1344	1831	4	1	985	1474	1474	2948	7930	1155	9903
QUANTITIES INCLUDE F	PROPOSED GRADING	WITHIN WOODLAN	VN LAKE PARK AREAS	(** 3,755 SY O	F FILTER FABRI	NCLUDED WITH	THIS ITEM FOR	CONTRACTORS	INFORMATION.	)		·		·	·		·	·		<u>^</u>	

S(\*\* 3,755 SY OF FILTER FABRIC INCLUDED WITH THIS ITEM FOR CONTRACTORS INFORMATION.)

#### SUMMARY OF DRAINAGE QUANTITIES

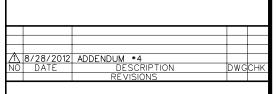
	306	307.1	307.1b	401.1a	401.1b	401.1c	401.1d	401.1e	401,1f	403.7a	403.7b	403.9	407.1	410.2	412.1	413.1	505.1	505.11	505.12	508.1	511.1	515.1
SHT. NO.	STRUCTURAL EXCAVATION	CONCRETE STRUCTURE (RETAINING WALL)	CONCRETE STRUCTURE (ELEVATED SIDEWALKS)	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)		REINFORCED CONCRETE PIPE (CLASS III)(48" DIA)	REINFORCED CONCRETE PIPE (CLASS III)(60" DIA)	REINFORCED	INLET TYPE I (COMPLETE)(10FT)	INLET TYPE II (COMPLETE)(10F		CONCRETE ENCASEMENT	00.11/51	CEMENT STABILIZED SAND	FLOWABLE BACKFILL (LOW STRENGTH)	CONCRETE	CONCRETE RIPRAP (6" THICK)	CONCRETE RIPRAP (8" THICK)		FLEXIBLE PAVEMENT STRUCTURE REPAIR	TOPSOIL (6")
	CY	CY	CY	LF	LF	LF	LF	LF	LF	EA	EA	EA	CY	CY	CY	CY	SY	SY	SY	LF	SY	CY
182				31	3					3		4	11	252	34	23						
183						14			87	2		4	3	65	9	6						
184					8	164	22	59		3	1	6	6	148	20	14						
185				22						1			1	17	3	2						
186							32			2		4	6	131	18	12						
187						37	16				4	6	3	63	8	6					27	37
188				205						4			6	132	18	13						
189																	6		3			
190																	10		5			
191																	11		5			
192			7.7														22	9				
193			7.7														22	9				
194	24	50.4												16	2	2		49	11	240		34
197				25										16	2	2						
Total	24	50.4	15.4	283	11	215	70	59	87	15	5	24	36	840	114	80	70	67	24	240	27	71

#### CONT. SUMMARY OF DRAINAGE QUANTITIES

	516.1	516.2	520.1	522.1	550.1	551.1	432 2021	459 2015	462 2001
SHT. NO.	BERMUDA SODDING	ST. AUGUSTINE SODDING	HYDROMULCH	SIDEWALK PIPE RAILING	TRENCH EXCAVATION SAFETY PROTECTION	TEMPORARY SPECIAL SHORING	RIPRAP (STONE PROTECTION)(18 IN)	GABIONS (PVC)(GALV)(3FT X 3FT)	CONC BOX CULV (3 FT X 2 FT)
	SY	SY	SY	LF	LF	SF	CY	CY	LF
182					230	3672			
183					161				
184					363				
185					35				
186					264				
187	56	56	111		347				
188					222				
189					84				
190					46				
191					138				
192				14			4.5		
193				14			12		13
194	77	77	48		27	950		37	
197					27				
Total	133	133	159	28	1944	4622	16.5	37	13

#### CONT. SUMMARY OF DRAINAGE QUANTITIES

462 2012	462 2016	462 2021	462 2026	465 2001	465 2474	465 2090	465 2093	465 2736	466 2048	466 2053	474 2005	474 2006
CONC BOX CULV (6 FT X 5 FT)	CONC BOX CULV (7 FT X 5 FT)	CONC BOX CULV (8 FT X 6 FT)	CONC BOX CULV (9 FT X 7 FT)	INLET (COMPL) TY C	INLET EXT (TY C-E)	MANH (COMPL)(JUNCT BOX)(TY 2)	MANH (COMPL)(TY 1-C)	INLET (COMPL)(TY H WITH GRATE)	WINGWALL (PW)(HW-4 FT)	WINGWALL (PW)(HW-9 FT)	SLOT DRAIN (GAL STL)(18 IN)	SLOT DRAIN OUTFALL (GAL STL)(1 IN)
LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	LF
			328				1					
						1	1					
						1	1					
				1	1							
173						1	1					
		294					1					
											26	58
											46	104
											48	90
									2			
	113									1		
								1				
173	113	294	328	1	1	3	5	1	2	1	120	252



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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

SUMMARY OF BID ITEMS

 DRWN. BY:
 BM
 DSGN. BY:
 MJP
 CHKD. BY:
 SDB
 SHEET NO.
 26

#### SUMMARY OF BRIDGE QUANTITIES

SUMMA	ARY OF	BRIDGE (	QUANTITI	ES				~~~~	~~~	~~~	~~~													
	400 2001	400 2005	400 2020	416 2002	416 2003	420 2003	420 2004	420 2029	420 2033	420 2034	420	425 2014	425 2016	425 2017	428 2001	432 2001	432 2021	450 2203	450 2166	454 2001	459 2015	459 2017	496 2010	SP. 3
SHT. NO.	STRUCT EXCAV	CEM STABIL BKFL	CEMENT STABILIZED SAND	DRILLED SHAFT (24"	DRILLED SHAFT (30")	CL C CONC (ABUT)	CL C CONC	CL S CONC (SLAB)	CL S CONC (APPR SLAB)	CL S CONC (BRIDGE SDWLK)	CL C CONC (MONUMENT)	PRESTR CONC SLAB BEAM (4SB12)	PRESTR CONC SLAB BEAM (4SB15)	PRESTR CONC SLAB BEAM (5SB15)	CONC SURF TREATMENT (CLASS I)	RIPRAP (CONC) (4IN)	RIPRAP (STONE PROTECTION)(18IN)	RAIL (TY T221)(MOD)	RAIL (TY C223)	SEALED EXPANSION JOINT (4 IN)(SEJ-A)	GABIONS (PVC)(GALV )(3FTX3FT)	GABIONS (PVC)(GA LV)(3FTX1 .5FT)	REMOV STR (BRIDGE)	CONTECH PEDESTRIAN BRIDGE
	CY	CY	CY	LF	LF	CY	CY	CY	CY	CY	CY	) LF	LF	LF	SY	CY	CY	LF	LF	LF	CY	CY	EA	EA
240			35.8		260	49.0	19.7	49.8	38.4	23.1		₹ 808			558.7	<b></b>			184	100				
247			38.6		400	52.4	22.7	79.1	109	50.2		l√	1279		949.66				217	110				
224a		89		1308		47.3	74.0	268.4	136	93.3	10.3	)	192	2112	1525	46.7	80	392.3		140	114	18		
236a	50	50		334		21.8	13.6	44.4	0	0	12	)									80	17	1	1
TOTAL	50	139	74.4	1642	660	170.5	130.0	441.7	283.4	166.6	22.3	₹ 808	1471	2112	3033.36	46.7	80	392.3	401	350	194	35	1	1
												<u>^</u>	-		· · · · · · · · · · · · · · · · · · ·	<u> </u>	·							

#### SUMMARY OF SIGNING & PAVEMENT MARKINGS QUANTITIES

	509.1	531.03	531.06	531.13	531.14	531.44	531.51	531.57	531.62	531.68	531.69	531.7	531.71	531.86	531.87	531.88	531.89	535.1	535.4	535.7	535.8	535.9
SHT. NO.	METAL BEAM GUARD RAIL	R1-1 STOP (30")(HIGH DENSITY)	R2-1 SPEED LIMIT (24"x30")(HIGH DENSITY)	R3-7 LEFT LANE MUST TURN LEFT OR RIGHT LANE MUST TURN RIGHT	R3-8 LANE-USE CONTROL (30"x30")(HIGH DENSITY)	W16-7 DIAGONAL ARROW SIGN	W11-2 PED CROSSING	9 INCH [229mm] STREET NAME, BLOCK NUMBER (VARIES x9")(HIGH DENSITY)	W16-9 AHEAD	R3-17 BIKE LANE	R3-17aP AHEAD PLAQUE	R3-17bP END PLAQUE	R4-4 BEGIN RIGHT TURN YIELD TO BIKES	R8-3a No PARKING	R7-201P TOW AWAY ZONE PLAQUE	W8-20 WATCH FOR WATER ON ROAD	RS-031 BUS STOP	4 INCH WIDE YELLOW LINE	8 INCH WIDE WHITE LINE	24 INCH WIDE WHITE LINE	RIGHT WHITE ARROW	LEFT WHITE ARROW
	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA
269																		306	36	226	1	
270	725	3	1		1			6		1				1	1			893	424			
271	114	1	1					2		1				2	2	1	1	1064	1080	212		
272			2			1	3		2	3				1	1	1	2	1463	1290	142		
273	76	2	2	1				4		3	2	1	1	4	4			1394	1080		1	1
Total	915	6	6	1	1	1	3	12	2	8	2	1	1	8	8	2	3	5119	3910	579	2	1

#### CONT. SUMMARY OF SIGNING & PAVEMENT MARKINGS QUANTITIES

	535.12	535.16	535.17	535.18	537.8	544 2001	545 2028	658 2238	658 2259	658 2267	658 2315	658 2316	658 2339	658 2383
SHT. NO.	WORD "ONLY"	STRAIGHT WHITE ARROW BICYCLE FACILITY	BICYCLE RIDER SYMBOL	SHARROW SYMBOL (BICYCLE AND CHEVRON)	TRAFFIC BUTTON (TYPE II A-A)	GUARDRAIL END TREATMENT (INSTALL)	CRASH CUSH ATTEN (INSTL)(QUAD )(N)	INSTL DEL ASSM (D-SW)SZ 1(FLX)SRF(BI)	INSTL DEL ASSM (D-SW)SZ (TYC)CTB(BI)	INSTL DEL ASSM (D-SY)SZ 1(FLX)SRF	INSTL OM ASSM (OM-2Y)(WO GND	INSTL OM ASSM (OM-2Z)(FLX )GND	INSTL OM ASSM (OM-2Y)(WC) GND (BI)	INSTL OM ASSM (OM-3R)(WC) GND
	WORD	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
269					6						4			
270	1	7	7		13	1		32	6			2	2	1
271		6	6		15		2	6	6			2	2	
272		7	7		21					20			6	
273	2	8	8	3	20	1		5	8	1			4	
Total	3	28	28	3	76	2	2	43	20	21	4	4	14	1

#### SUMMARY OF TRAFFIC SIGNAL QUANTITIES

	618.1	618.1	620.1	680.2	682.4	684.1	688.2	694.1	694.2	694.4	694.6
SHT. NO.	CONDIUT TRENCHED 1-1/2 INCH PVC	CONDIUT ON POLE 1-1/2 INCH RMC	ELECTRICAL CONDUCTORS (NO 6) (BARE)	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2IND)	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (9-CONDUCTO R)	PEDESTRIAN DETECTORS (2 INCH PUSH-BUTT ON)	VIVDS PROCESSOR UNIT	VIVDS CAMERA ASSEMBLY	VIVDS SET-UP SYSTEM	VIVDS COMMUNICATIONS CABLE (COAXIAL)
	LF	LF	LF	EA	EA	LF	EA	EA	EA	EA	LF
275	30	150	120	1	8	550	8	4	4	1	380
Total	1	1	1	2826	2192	21164	159	5730	2238	963	686

8/28/2012	ADDENDUM *4		SDB
DATE	DESCRIPTION	DWG	CHK
	REVISIONS		
	8/28/2012 DATE		DATE DESCRIPTION DWG

AECOM TECHNICAL SERVICES, INC.

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

SUMMARY OF BID ITEMS

ITEM	PB.1	PB.2	PB.3	PB.4	PB.5	PB.6	PB.7	PB.8	<b>∃</b> \$								
	Asphalt Jogging Trail (Includes	Concrete Banding	Concrete	Pedestrian Bridge		Relocation of Existing	Entry Columi	n Ornamental									
	Concrete Ribbon Curb and Drainage	on Pedestrian Bridge	Walk for Pedestrian Bridge	Bega Lights Complete	Removable Bollard Complete	Bega Pole Lighting	Complete (Pedestrian Bridge)	Complete				<b>\</b>	<b>\</b>				
UNIT	Gops) SF	SF 852	1,789	EA	EA 6	Complete EA 4	EA 4	LF 44				, , ,	, , ,				
	4,572	652	· · · · · · · · · · · · · · · · · · ·	22	0	4	4	44						4			
	HICULAR BRIDGE &		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_	~~~		11		1	1		)			
ITEM	VB.1	VB.2	VB.3 (	VB.4	VB.5 (	VB.6	VB.7	VB.8	VB.9	VB.10	VB.11	VB.12	$\dashv$				
DESQ.	Limestone Stone Veneer	Cast Stone Cap	Aluminum / Light House Enclosure and Entry( Monument/ Tower Light	Complete 4	Aluminum Letters of Entry Wall w/ Stee Backing	Ornamental Steel Railing on Walls Complete	Vehicular Bridge Arch Columns Complete		LED Ligh		Landscape	Irrigation System Complete					
UNIT		LF	EA	Ture Aury	EA	LF	EA	EA	EA	TUEAU EAU	LS	LS		)			
QTY	9,944	1,988	1	1	16	1,907	8	2	16	4	1	1		<u> </u>			
LANDSCA	APE MITIGATION													<			
ITEM	LM.1	LM.2	LM.3	LM.4	LM.5	LM.6	LM.7	LM.8	LM.9	LM.10	LM.11	LM.12	LM.13	)			
DESC.	Fertilizer	Landscape Planting - 2'' Trees	Landscape Planting - 4'' Trees	Landscape Planting - 6" Trees	Channel Plants	New Planting / Watering / Gator Bags / Water	Plant and Turf Maintenance (90 Days)	- w/ 2"	- w/ 2" Compost	a ldh Hydromulch- ' Drainfield Mix 2 dd Composted To dressing	2' Existing Tree	<b>₹</b> 1 €1 (1112 (110)	e Existing Cypress G Tree Milling	}			
UNIT	LS 1.00	EA 102	EA 36	EA 48	LS 1	Truck LS 1	LS 1	SF 6,355	dressing SF 215,675	g SF	LF (1,579	EA 2	EA 5	$\stackrel{>}{\sim}$			
				1	'		'	•		,				)			
ALTERNA ITEM	ATE *1 - PEDESTRIA PB.9	N BRIDGE UPGRADE:	S TYPB.11	PB.12	PB.13	ALTERNA'	TE *2 - CONC Pl.1	RETE PARK TE	RAIL 1.2	ALTERNATE *3	- PARK TRAIL	LIGHTING PI.3	PI.4	)			
	Pedestrian Bridge	FB.IV		FB.12 \	FB.13		FI.I	Retaini	ng Wall	11 EIVI		1.0	11.7	$\leq$			
DESC.	Safety Railing Upgrade to Horizontal Cables	( <del>/</del>	Pedestrian Bridge Steel Tube	Pedestrian Bridge ( Steel Frame	) Banding )	DESC.	Concrete Tro	il } (concre	plete ete, cap, rain, NDS stone	DESC.		Vehicular N e Light Po	ew Bega ble Lights	$\frac{1}{2}$			
UNIT	LS 1	LF 480	LF	LF 480	SF 852	LINIT	CC			LINIT	-	- 1	ΕΛ	)			
QTY	1	480	480	480	852	UNIT QTY	SF 8,486	- L	37	UNIT		1 I	5 EA	7			
ALTERNA	ATE *4 - PARK SHA	DE STRUCTURE AND	PICNIC AREAS	S			7	•		<b>Q</b> 11	'	•					
ALTERNA ITEM	ATE *4 - PARK SHA PI.5	DE STRUCTURE AND PI.6	PICNIC AREAS	S PI.8	PI.9	PI.10			}								
ITEM			PI.7  ADA Picnic	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation	Pedestal Drinking	PI.10 Pavilion Lights		·						<u>A</u>			
DESC.	PI.5 Pavilion- (Prefabricated)	PI.6 BBQ Grill	PI.7 ADA Picnic Tables	PI.8 Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard	Pedestal Drinking Fountain (w/ Pet Fountain )	Pavilion Lights		·						Δ			
ITEM	PI.5 Pavilion-	PI.6	PI.7  ADA Picnic	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation	Pedestal Drinking Fountain (w/ Pet	Pavilion			}					Δ.			
DESC. UNIT	PI.5 Pavilion- (Prefabricated) EA 1	PI.6 BBQ Grill EA 4	PI.7  ADA Picnic Tables  EA 4	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA	Pedestal Drinking Fountain (w/ Pet Fountain )	Pavilion Lights								<u>^</u>			
DESC. UNIT QTY	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN	PI.6  BBQ Grill  EA  4	PI.7  ADA Picnic Tables  EA 4	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA	Pedestal Drinking Fountain (w/ Pet Fountain )	Pavilion Lights								<u></u>			
DESC.  UNIT QTY  SUMMARY NEW PEE	PI.5  Pavilion- (Prefabricated)  EA  1  Y OF LANDSCAPIN DESTRIAN BRIDGE	PI.6  BBQ Grill  EA  4	PI.7  ADA Picnic Tables  EA  4	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA  3	Pedestal Drinking Fountain (w/ Pet Fountain ) EA	Pavilion Lights EA 2	PRF 7	PRF &						<u>^</u>			
DESC. UNIT QTY	PI.5 Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT &	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING &	PI.7  ADA Picnic Tables  EA 4	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA  3  PBE.4  •10 THHN WI CONDUIT 8	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  IRE, RISER DIAGRAM	Pavilion Lights  EA 2  PBE.6	PBE.7 PANEL	PBE.8  GENERAL NS CONDITION						Δ.			
DESC.  UNIT QTY  SUMMARY  NEW PEC  ITEM  DESC.  UNIT	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA  3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  IRE, RISER DIAGRAM	Pavilion Lights  EA 2  PBE.6  LIGHTING	PANEL	GENERAL						<u></u>			
DESC.  UNIT OTY  SUMMARY  NEW PEE  ITEM  DESC.	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL	PI.7  ADA Picnic Tables  EA 4  ANTITIES  PBE.3  DEMOLITIC  HR	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA  3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  IRE, & XES  LS	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u>			
DESC.  UNIT QTY  SUMMARY  NEW PEC  ITEM  DESC.  UNIT QTY  NEW VEH	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  CHICULAR BRIDGE	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  MONUMENT	PI.7  ADA Picnic Tables  EA 4  ANTITIES  PBE.3  DEMOLITIC  HR 24	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF 788	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  IRE, & RISER DIAGRAM  LS  1	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u>^</u>			
DESC.  UNIT QTY  SUMMARY  NEW PEC ITEM  DESC.  UNIT QTY	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  CHICULAR BRIDGE & VBE.1  *8 THHN WIRE,	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  MONUMENT  VBE.2	PI.7  ADA Picnic Tables  EA 4  ANTITIES  PBE.3  DEMOLITIC  HR	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA  3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF  788	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  IRE,  XXES  LS  1  VBE.5	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	MS GENERAL CONDITION	s					<u>^</u>	<u> </u>	8/2012 ADDENDUM	1 •4 QUANTITIES
DESC.  UNIT QTY  SUMMARY  NEW PEC  ITEM  DESC.  UNIT QTY  NEW VEH	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  CHICULAR BRIDGE S VBE.1  *8 THHN WIRE, CONDUIT &	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  MONUMENT  VBE.2  TRENCHING & BACKFILL	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  •10 THHN W CONDUIT	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA  3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF  788  VBE.4  VIRE, LIGHTING & LIGHTING & LIGHTING STALLER	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  IRE,  RISER DIAGRAM  XES  LS  1  VBE.5  GENERAL	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u>^</u>	<u> </u>		ESCRIPTION
DESC.  UNIT QTY  SUMMARY NEW PEC ITEM  DESC.  UNIT QTY  NEW VEH ITEM  DESC.  UNIT UNIT	PI.5  Pavilion- (Prefabricated)  EA  1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  CHICULAR BRIDGE VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  **  **  **  **  **  **  **  **  *	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  *10 THHN W CONDUIT JUNCTION BE	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  • 10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, & UIGHTING INSTALLED  OXES EA	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  IRE,  RISER DIAGRAM  XES  LS  1  VBE.5  GENERAL	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u>	2 8/28 1 8/14 NO D	ATE   D	1 •4 QUANTITIES ESCRIPTION VISIONS
DESC.  UNIT OTY  SUMMARY NEW PEC ITEM  DESC.  UNIT OTY  NEW VEH ITEM  DESC.	PI.5  Pavilion- (Prefabricated)  EA  1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  CHICULAR BRIDGE VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  "10 THHN CONDUIT JUNCTION BO	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO LF 788  VBE.4  VIRE LIGHTING INSTALLET	Pedestal Drinking Fountain (w/ Pet Fountain )  EA 1  PBE.5  RISER DIAGRAM  XES LS 1  VBE.5  GENERAL CONDITIONS	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u>	NO DA	ATE D	ESCRIPTION VISIONS  AECOM TECHNICAL
DESC.  UNIT QTY  SUMMARY NEW PEC ITEM  DESC.  UNIT QTY  NEW VEH ITEM  DESC.  UNIT QTY	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  HICULAR BRIDGE S  VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  TRENCHING & BACKFILL  LF  282	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  *10 THHN W CONDUIT JUNCTION BE	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  • 10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, & UIGHTING INSTALLED  OXES EA	Pedestal Drinking Fountain (w/ Pet Fountain)  EA  1  PBE.5  RISER DIAGRAM  XES  LS  1  VBE.5  GENERAL CONDITIONS  LS	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u> ▲	NO DA	ATE D	ESCRIPTION VISIONS  AECOM TECHNICAL O PARK TEN BLVD., SAN ANTONIO, TE
DESC.  UNIT QTY  SUMMARY NEW PEC ITEM  DESC.  UNIT QTY  NEW VEH ITEM  DESC.  UNIT QTY	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  HICULAR BRIDGE 8  VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  TRENCHING & BACKFILL  LF  282	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  *10 THHN W CONDUIT JUNCTION BE	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  • 10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, & UIGHTING INSTALLED  OXES EA	Pedestal Drinking Fountain (w/ Pet Fountain)  EA  1  PBE.5  RISER DIAGRAM  XES  LS  1  VBE.5  GENERAL CONDITIONS  LS	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u>	NO DA	ATE D	ESCRIPTION VISIONS  AECOM TECHNICAL O PARK TEN BLVD.,
DESC.  UNIT QTY  SUMMARY  NEW PEC  ITEM  DESC.  UNIT  QTY  NEW VEH  ITEM  DESC.  UNIT  QTY  ALTERNA  ITEM	PI.5  Pavilion- (Prefabricated)  EA  1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  CHICULAR BRIDGE & VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682  ATE *3 - PARK TI TE.1  *8 THHN WIRE,	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  "10 THHN W CONDUIT JUNCTION F 1,341  TE.3	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF 788  VIRE, & LIGHTING INSTALLED  EA 21  TE.4	Pedestal Drinking Fountain (w/ Pet Fountain )  EA  1  PBE.5  RISER DIAGRAM  XES  LS  1  VBE.5  GENERAL CONDITIONS  LS  1  TE.5	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u>	NO DA	ATE D	ESCRIPTION VISIONS  AECOM TECHNICAL 10 PARK TEN BLVD., SAN ANTONIO, TE WWW.AECO
DESC.  UNIT QTY  NEW PEC ITEM  DESC.  UNIT QTY  NEW VEH ITEM  DESC.  UNIT QTY  ALTERNA ITEM  DESC.	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  HICULAR BRIDGE  VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682  ATE *3 - PARK TI TE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  *10 THHN W CONDUIT JUNCTION BOOK STAN STAN STAN STAN STAN STAN STAN STAN	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, LIGHTING INSTALLET  EA 21  TE.4  (IRE, & COMMENT ON COM	Pedestal Drinking Fountain (w/ Pet Fountain)  EA  1  PBE.5  RE, & XES  LS  1  VBE.5  GENERAL CONDITIONS  LS  1  TE.5  GENERAL CONDITIONS	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u>	NO DA	ATE D	ESCRIPTION VISIONS  AECOM TECHNICAL 10 PARK TEN BLVD., SAN ANTONIO, TE WWW.AECO
DESC.  UNIT QTY  SUMMARY  NEW PEC  ITEM  DESC.  UNIT  QTY  NEW VEH  ITEM  DESC.  UNIT  QTY  ALTERNA  ITEM	PI.5  Pavilion- (Prefabricated)  EA 1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  HICULAR BRIDGE  VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682  IATE *3 - PARK TI TE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL	PI.7  ADA Picnic Tables  EA 4  ANTITIES  PBE.3  DEMOLITIC  HR 24  VBE.3  *10 THHN W CONDUIT  TE.3  *10 THHN W CONDUIT	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, LIGHTING INSTALLED  EA 21  TE.4  //IRE, LIGHTING INSTALLED	Pedestal Drinking Fountain (w/ Pet Fountain)  EA 1  PBE.5  RE, RISER DIAGRAM  VBE.5  GENERAL CONDITIONS  LS 1  TE.5  GENERAL	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<b>△</b>	NO DA	ATE D	ESCRIPTION VISIONS  AECOM TECHNICAL 10 PARK TEN BLVD., SAN ANTONIO, TE WWW.AECO
DESC.  UNIT QTY  SUMMARY NEW PEC ITEM  DESC.  UNIT QTY  NEW VEH ITEM  DESC.  UNIT QTY  ALTERNA ITEM  DESC.  UNIT QTY	PI.5  Pavilion- (Prefabricated)  EA  1  Y OF LANDSCAPIN  DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF  1576  CHICULAR BRIDGE  VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF  2682  ATE *3 - PARK TI TE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF  150  ATE *4 - PARK S	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL  LF	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  "10 THHN W CONDUIT JUNCTION BY LF 75	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, LIGHTING INSTALLED  OXES EA 21  TE.4  //IRE, LIGHTING INSTALLED  OXES EA 6  AREAS	Pedestal Drinking Fountain (w/ Pet Fountain)  EA  1  PBE.5  RISER DIAGRAM  XES  LS  1  VBE.5  GENERAL CONDITIONS  LS  1  TE.5  GENERAL CONDITIONS  LS  LS  LS  LS  LS  LS  LS  LS  LS	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s						A=	ATE D	ESCRIPTION VISIONS  AECOM TECHNICAL 10 PARK TEN BLVD., SAN ANTONIO, TE WWW.AECO TBPE REG. NC
DESC.  UNIT QTY  NEW PEC ITEM  DESC.  UNIT QTY  NEW VEH ITEM  DESC.  UNIT QTY  ALTERNA  DESC.  UNIT QTY  ALTERNA  ALTERNA  ALTERNA  ALTERNA  ALTERNA	PI.5  Pavilion- (Prefabricated)  EA  1  Y OF LANDSCAPIN  DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  HICULAR BRIDGE 8  VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682  ATE *3 - PARK TI TE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 150  ATE *4 - PARK S PE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 150	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL  LF  75  HADE STRUCTURE  PE.2  TRENCHING & BACKFILL	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  *10 THHN W CONDUIT JUNCTION BY LF  1,341  TE.3  *10 THHN W CONDUIT JUNCTION BY AND PICNIC	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, LIGHTING INSTALLED  TE.4  (IRE , LIGHTING INSTALLED  AREAS  EA 6  AREAS  PE.4  VIRE, LIGHTING INSTALLED	Pedestal Drinking Fountain (w/ Pet Fountain )  EA 1  PBE.5  IRE, SIRER DIAGRAM  VBE.5  GENERAL CONDITIONS  LS 1  TE.5  GENERAL CONDITIONS  LS 1  PE.5  GENERAL CONDITIONS  LS 1	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s					<u></u>	CAPITAL	CITY OF S	AECOM TECHNICAL 10 PARK TEN BLVD., SAN ANTONO, TE WWW.AECO TBPE REG. NO  SAN ANTON NAGEMENT SERVICES HANNEL PHASE I
DESC.  UNIT QTY  SUMMARY NEW PEC ITEM  DESC.  UNIT QTY  NEW VEH ITEM  DESC.  UNIT QTY  ALTERNA ITEM  DESC.  UNIT QTY  ALTERNA ITEM  ALTERNA ITEM	PI.5  Pavilion- (Prefabricated)  EA  1  Y OF LANDSCAPIN DESTRIAN BRIDGE PBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 1576  HICULAR BRIDGE S  VBE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 2682  ATE *3 - PARK TI TE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 150  IATE *4 - PARK S PE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 150  IATE *4 - PARK S PE.1  *8 THHN WIRE, CONDUIT & JUNCTION BOXES  LF 150	PI.6  BBQ Grill  EA  4  IG-ELECTRICAL QUA  PBE.2  TRENCHING & BACKFILL  LF  282  & MONUMENT  VBE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL  LF  282  RAIL LIGHTING  TE.2  TRENCHING & BACKFILL  LF  75  HADE STRUCTURE  PE.2  TRENCHING & BACKFILL	PI.7  ADA Picnic Tables  EA  4  ANTITIES  PBE.3  DEMOLITIC  HR  24  VBE.3  *10 THHN W CONDUIT JUNCTION BOOK ON BOUNT JUNCTION BOOK ON	PI.8  Trash or Recyclable Receptacles - CoSA Parks & Recreation Standard  EA 3  PBE.4  •10 THHN WI CONDUIT & JUNCTION BO  LF 788  VBE.4  VIRE, LIGHTING INSTALLED  TE.4  (IRE , LIGHTING INSTALLED  AREAS  EA 6  AREAS  PE.4  VIRE, LIGHTING INSTALLED	Pedestal Drinking Fountain (w/ Pet Fountain)  EA  1  PBE.5  IRE, SIRER DIAGRAM  XES  LS  1  VBE.5  GENERAL CONDITIONS  LS  1  TE.5  GENERAL CONDITIONS  LS  1  PE.5  GENERAL CONDITIONS  LS  1	Pavilion Lights  EA 2  PBE.6  LIGHTING INSTALLED  EA 11	PANEL -TERMINATIO LS	GENERAL CONDITION  LS  1	s						CAPITAL	CITY OF S	AECOM TECHNICAL 10 PARK TEN BLVD., SAN ANTONO, TE WWW.AECO TBPE REG. NO  SAN ANTON NAGEMENT SERVICES HANNEL PHASE I

# SUMMARY OF TRAFFIC CONTROL PLAN QUANTITIES

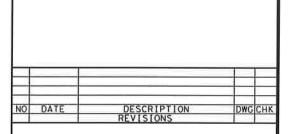
COSA Standard Specifications

230.1	525.1	530.1
FLEXIBLE PAVEMENT STRUCTURE REPAIR (6" HMAC TY B)	CONCRETE TRAFFIC BARRIER (PORTABLE) (LOW PROFILE)	BARRICADES, SIGNS & TRAFFIC HANDLING
SY	LF	LS
112	740	1

TxDOT Standard Specifications

508- <b>2002</b>	512 <b>-2004</b>	512 <b>-2022</b>	512-2040	545-2001	545-2002	545 <b>- 2003</b>
	PORT CTB (FUR & INST) (SNGL SLP OR F-SHAPE) (TYPE 1)		PORT CTB (REMOVE) (SNGL SLP OR F-SHAPE) (TYPE 1)	CRASH CUSH ATTEN (VIA SFPM) (INSTL) (WORK ZONE)	CRASH CUSH ATTEN (V A SFPM) (MOVE & RESET) (WORK ZONE)	CRASH CUSH ATTEN (VIA SFPM) (REMOVE) (WORK ZONE)
SY	LF	LF	LF	EA	EA	EA
242	120	120	120	2	2	2

NOTE: QUANTITY SHOWN FOR FURNISHING LOW PROFILE CONCRETE BARRIER INCLUDES 620 LF OF TYPE 1 AND 120 LF OF TYPE 2.



AECOM

AECOM TECHNICAL SERVICES, INC. 6800 PARK TEN BLVD., SUITE 180 SOUTH SAN ANTONIO, TEXAS 78213 With, AECOMA COM 18PE REG. NO. F-3580



58/35 CALLAGHAN RD SUITE 200 SAN ANTONIO, TEXAS, 78228 (210) 349—4395 (FAX)

SAN ANTONIO, TEXAS, 78228 (210) 349–4395 (FAX) http://www.p

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
SEELING CHANNEL PHASE I

SUMMARY OF BID ITEMS

SHEET 1 OF 1

PROJECT NO. 1 60184822 DATE: 7/19/2012

DRMM. BY:RJZ DSM. BY:RJZ CMCD. BY:FC SMEET NO. 28

#### COSA SPECIFICATIONS LIST

ITEM NO. DESCRIPTION  100 MOBILIZATION  101 PREPARING RICHT-OF-WAY  104 STREET EXCAVATION  105 CHANNEL EXCAVATION  107 MERANKENT  108 LIME TREATED SUBGRADE  200 FLEWBLE BASE  202 PRIME COAT  203 TACK COAT  203 BASE AND PAVEMENT REPLACEMENT  300 CONCRETE  300 FRENFORCING STEEL  301 FENFORCING STEEL  302 CONCRETE STRUCTURES  303 STORM SEVER JUNCTION BOXES AND INLETS  400 EXCAVATION, TRENCHING AND BACKFILLING  401 RENFORCING TEEL PIPE  403 STORM SEVER JUNCTION BOXES AND INLETS  407 CONCRETE STRUCTURES  409 CAST IRON CASTINGS  410 CURRENCE STRUCTURES  401 TEMPORCING TEMPORT AND BACKFILLING  402 EXCAVATION, TRENCHING AND BACKFILLING  403 STORM SEVER JUNCTION BOXES AND INLETS  404 CONCRETE STRUCTURES  405 STRUCTURES  407 CONCRETE STRUCTURES  408 STRUCTURES  408 STRUCTURES  409 CAST IRON CASTINGS  410 SUBGRADE FILLER  411 LEXIBITE PIPE TO MANHOLE CONNECTOR  412 CEMENT STABILIZED SAND  413 FLOWABLE FILL  414 FLEXIBITE PIPE TO MANHOLE CONNECTOR  500 CONCRETE SDEWALKS  501 ASPHALTIC CONCRETE, POPTILAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS  502 CONCRETE SDEWALKS  503 ASPHALTIC CONCRETE, POPTILAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS  505 CONCRETE SDEWALKS  506 CONCRETE RIPEAD  507 CHAIN LINK WIRE FENCE  508 BLOCATING WIRE FENCE  509 METAL BEEM GUARD DRAIL  510 INBER GUARD POPTILAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS  501 CHAIN LINK WIRE FENCE  502 METAL BEEM GUARD DRAIL  511 CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR)  512 CONCRETE STEEPS  503 ASPHALT CONCRETE RIPES  504 FENCE STORM STRUCK AND PEDESTRIAN GATES  505 CONCRETE STEEPS  506 CONCRETE STRUCTURES AND PEDESTRIAN GATES  507 CHAIN LINK WIRE FENCE  508 BLOCATING WIRE FENCE  509 METAL BEEM GUARD PAVEMENT MARKINGS  510 INBER GUARD POPTICAL SHORMS  520 TORMOUTH AND REPLACING PAVEMENT MARKINGS  531 SHOWNER AND REPLACING PAVEMENT MARKINGS  532 CONCRETE STRUCTURES AND PEDESTRIAN GATES  534 FERDON ON THE PROPER STRUCTURES AND PEDESTRIAN GATES  535 CONCRETE STRUCTURES AND PEDESTRIAN SHORM STRUCTURES  536 FE	003A 3	LOW TOATIONS LIST
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#### TXDOT SPECIFICATIONS LIST

ITEM NO.	DESCRIPTION
354	PLANING AND TEXTURING PAVEMENT
360	CONCRETE PAVEMENT
400	EXCAVATION AND BACKFILL FOR STRUCTURES
416	DRILLED SHAFT FOUNDATIONS
420	CONCRETE STRUCTURES
422	REINFORCED CONCRETE SLAB
425	PRECAST PRESTRESSED CONCRETE STRUCTURAL MEMBERS
428	CONCRETE SURFACE TREATMENT
432	RIPRAP
450	RAILING
454	BRIDGE EXPANSION JOINTS
459	GABIONS AND GABION MATTRESSES
462	CONCRETE BOX CULVERTS AND STORM DRAINS
465	MANHOLES AND INLETS
466	HEADWALLS AND WINGWALLS
474	SLOTTED DRAIN
496	REMOVING STRUCTURES
508	CONSTRUCTING DETOURS
512	PORTABLE CONCRETE TRAFFIC BARRIER
540	METAL BEAM GUARD FENCE
544	GUARDRAIL END TREATMENTS
545	CRASH CUSHION ATTENUATORS
658	DELINEATOR AND OBJECT MARKER ASSEMBLIES

#### SPECIAL SPECIFICATIONS LIST

ITEM NO.	DESCRIPTION
110	SPECIAL ENVIRONMENTAL SPECIFICATIONS
SP.1	DIVERSION AND CARE OF WATER
SP.2	SOLDIER PILE & LAGGING
SP.3	CONTECH PEDESTRIAN BRIDGE

#### SAWS SPECIFICATIONS LIST

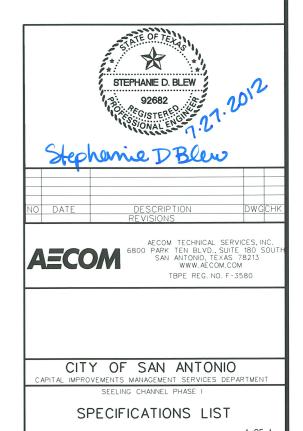
ITEM NO.	DESCRIPTION
100	MOBILIZATION
101	PREPARATION OF RIGHT-OF-WAY
200	FLEXIBLE BASE
300	CONCRETE (NATURAL AGGREGATE)
301	REINFORCING STEEL
307	CONCRETE STRUCTURES
550	TRENCH SAFETY EXCAVATION PROTECTION
804	EXCAVATION, TRENCHING AND BACKFILL
812	WATER MAIN INSTALLATION
816	STEEL PIPE INSTALLATION
818	PVC (C-900) PIPE INSTALLATION
824	SERVICE SUPPLY LINES (WATER)
828	GATE VALVES
833	METER AND METER BOX INSTALLATION
834	FIRE HYDRANTS
836	GREY-IRON AND DUCTILE IRON FITTINGS
839	ANCHORAGE AND THRUST BLOCKING
840	WATER TIE-INS
841	HYDROSTATIC TESTING OPERATIONS
844	BLOWOFF ASSEMBLIES
846	AIR RELEASE ASSEMBLIES
847	DISINFECTION
848	SANITARY SEWERS
849	AIR AND DEFLECTION TESTING (SANITARY SEWER)
850	SANITARY SEWER STRUCTURES
851	ADJUSTING EXISTING MANHOLES
852	SANITARY SEWER MANHOLES
854	SANITARY SEWER LATERALS
855	RECONSTRUCTION OF EXISTING MANHOLES
856	JACKING, BORING OR TUNNELING PIPE
858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS
860	VERTICAL STACKS
862	ABANDONMENT OF SEWER MAINS AND MANHOLES
864	BYPASS PUMPING
866	SEWER MAIN TELEVISION INSPECTION
868	SEWER MAIN CLEANING
3000	SPECIFICATIONS FOR HANDLING ASBESTOS CEMENT PIPE

#### LANDSCAPING SPECIFICATIONS LIST

ITEM NO.	DESCRIPTION
02810	IRRIGATION SYSTEM
02871	SITE AND STREET FURNISHINGS
02900	LANDSCAPE PLANTING
02935	LANDSCAPE MAINTENANCE
02940	TREATMENT OF EXISTING TREES
04810	UNIT MASONRY ASSEMBLIES
05500	METAL FABRICATIONS
07900	JOINT SEALERS
09900	PAINTS AND COATINGS
321316.15.4	LITHOCRETE
260000	GENERAL REQUIREMENT FOR ELECTRICAL WORK
260500	BASIC MATERIALS AND METHODS
260514	WIRE AND CABLE (600 VOLT AND LESS)

#### NOTES:

- 1. WHEN USING A MIXTURE OF STANDARD SPECIFICATION SOURCES (COSA AND TXDOT) NUMBERING CONFLICTS BETWEEN THE SOURCES BECOME APPARENT. THE INTENT OF THIS SPECIFICATION LIST IS TO PROVIDE THE CONTRACTOR WITH A REFERENCE TO THE PREDOMINANT SPECIFICATION FROM EACH SOURCE.
- 2. REFERENCES TO TECHNICAL SPECIFICATIONS WITHIN TECHNICAL SPECIFICATION FURTHER COMPLICATES THE NUMBERING CONFLICTS. THE CONTRACTOR SHALL UNDERSTAND REFERENCES WITHIN A TXDOT SPECIFICATION LEAD BACK TO OTHER TXDOT SPECIFICATIONS, AND REFERENCES WITHIN A COSA SPECIFICATION LEAD BACK TO A COSA SPECIFICATION.
- 3. IT IS THE INTENT OF THIS PLAN SET TO DISTINGUISH THE GOVERNING SPECIFICATION (COSA vs. TxDOT) BY THE BID ITEM USED.



PROJECT NO.: 60184822

DRWN. BY: BM DSGN. BY: MJP CHKD. BY: SDB SHEET NO.

DATE: JULY 2012

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Design Filename: P:\60145