

SCANNED BY
PLANNING

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-0697-01-06

CONSTRUCTION PLANS FOR
98TH & SAGE
PAVING & UTILITY
IMPROVEMENTS
ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
OCTOBER 2005

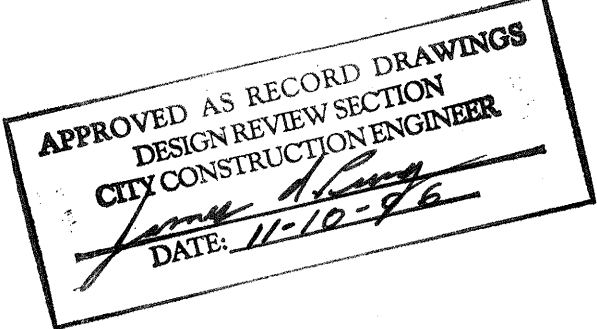
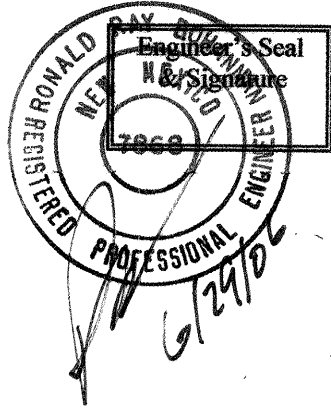
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INDEX TO DRAWINGS

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7. MASTER UTILITY PLAN
8. WATER LINE UTILITY IMPROVEMENTS
9. WATER LINE UTILITY IMPROVEMENTS
10. SIGNAL PLANS
11. STRIPING PLAN
12. DETAILS

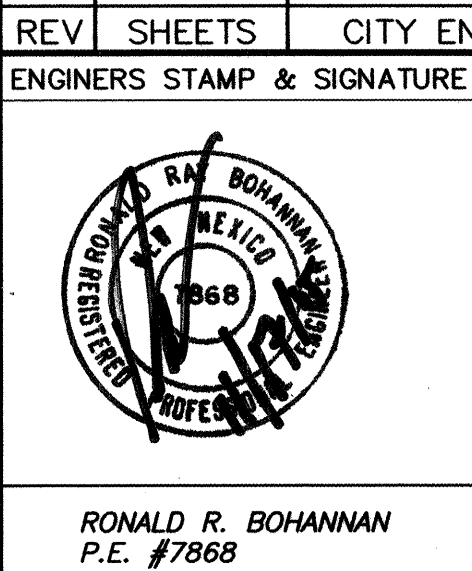
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction with survey information provided by Baseline Field Services NMPI# 5110.

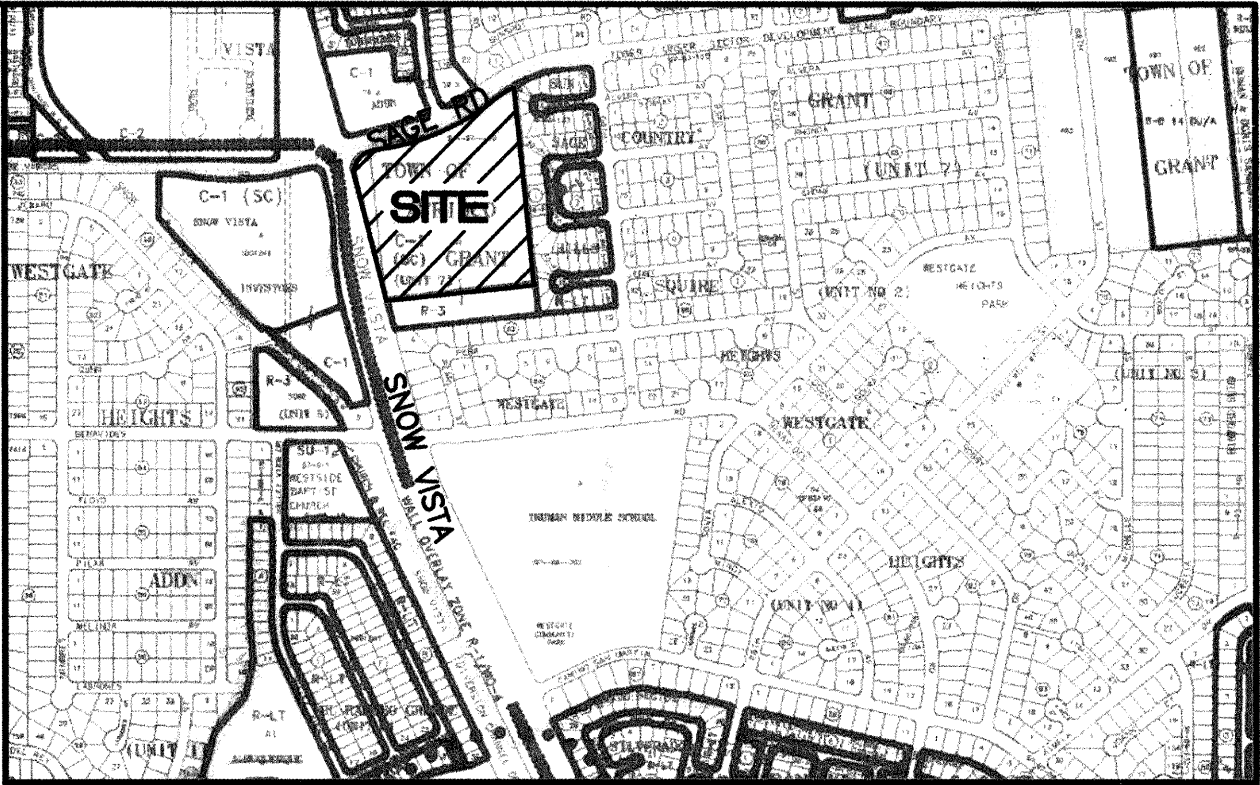


DRB # 1003991

TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100



REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		12/12/05		APPROVED FOR CONSTRUCTION	
		Transportation		11-18-05			
		Water/Wastewater		11-18-05			
		Hydrology		11/18/05			
		AMAFCA		N/A			
Constr. Mngmt.		N/A		12/12/05		City Engineer Date	
Constr. Coord.		12/12/05					
CITY PROJECT NO.		7697.81		SHEET		1 - 12	



VICINITY MAP M-9 SCALE NONE

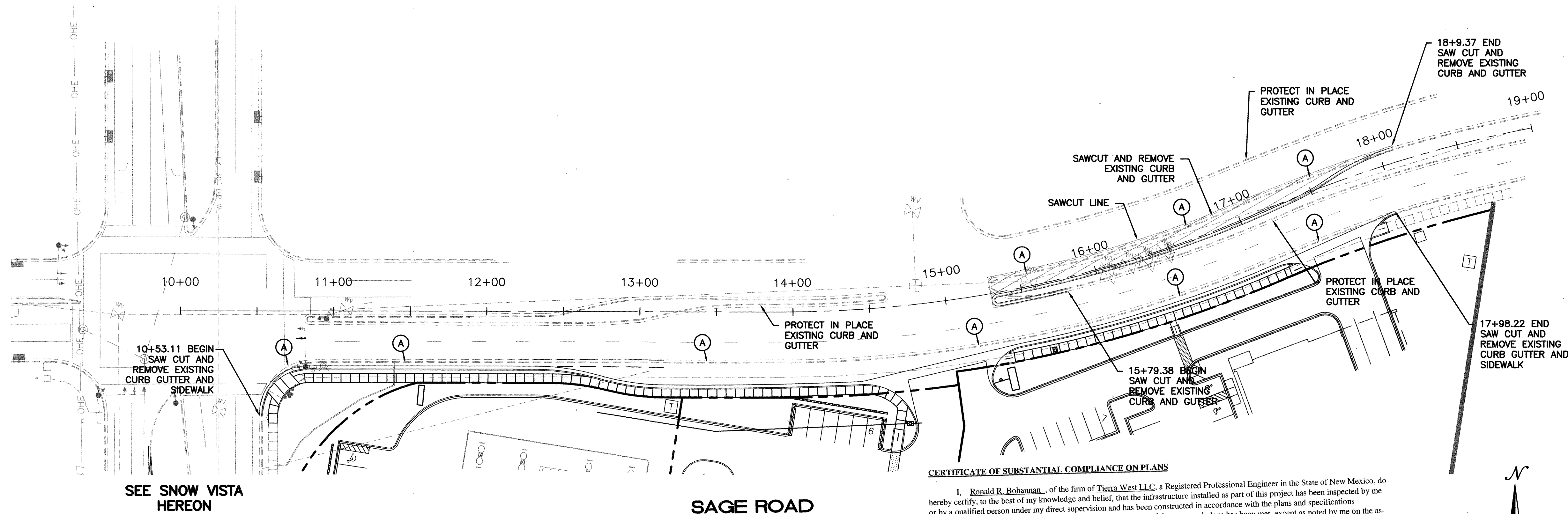
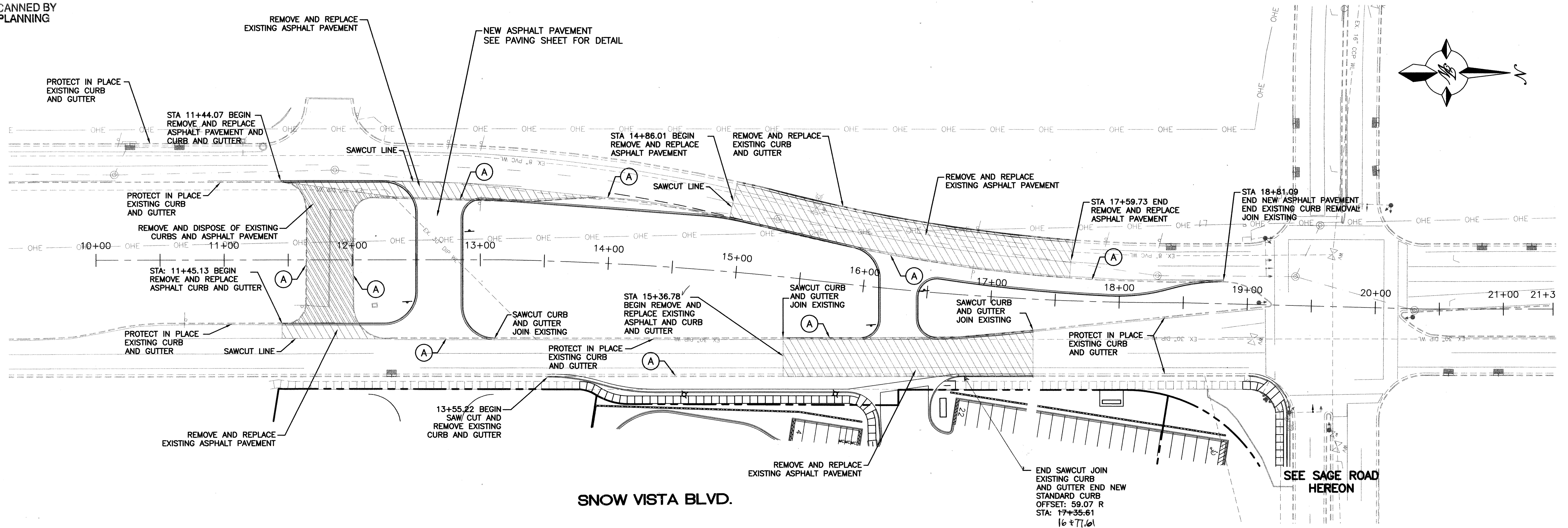
NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988 EDITION (UPDATE #7).
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.
3. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNERS EXPENSE.
8. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSIONED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

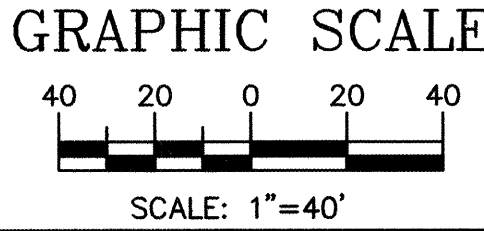
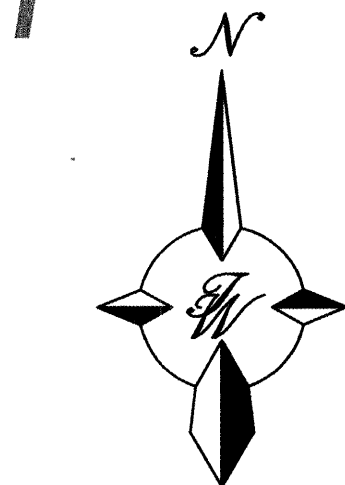
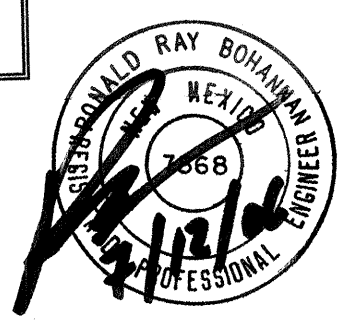
SCANNED BY
PLANNING



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

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Engineer's Seal
& Signature

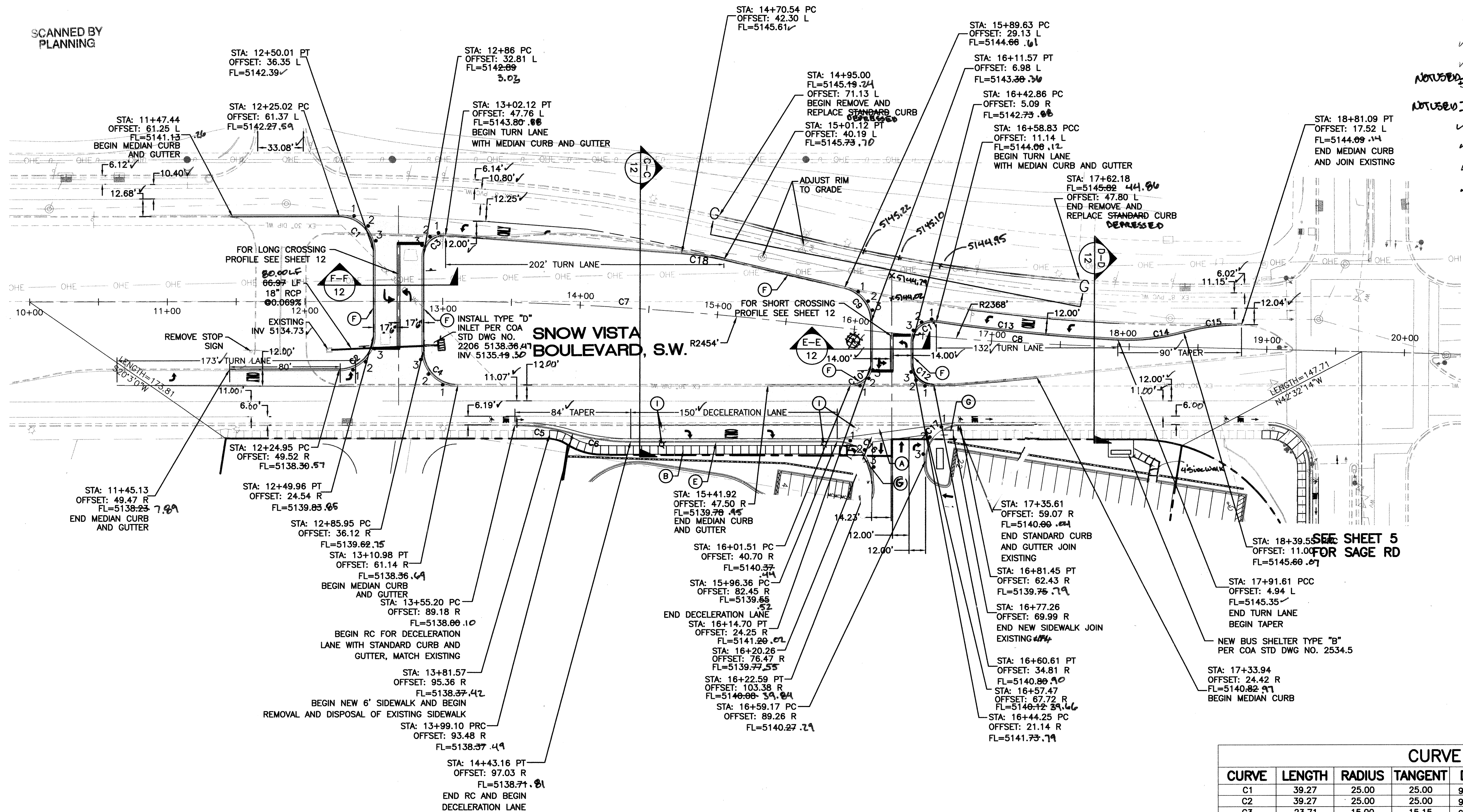


KEYED NOTE:
A REMOVE AND DISPOSE OF EXISTING ASPHALT CURB AND GUTTER

TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: 98TH AND SAGE PAVEMENT REMOVAL SNOW VISTA BLVD AND SAGE ROAD	
DESIGN-REVIEW COMMITTEE APPROVE DEC 12 2005 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL DEC 12 2005 CITY ENGINEER
CITY PROJECT NO. 7697.81	ZONE MAP NO. M-9
SHEET 4 OF 12	

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	JAYNES CORP	2006		A.C.S. MONUMENT	"2"-10"			NO.	BY	DATE					
WORK ORDER NO.	BASELINE SERVICE	DATE	2006	C.O.A. BRASS CAP											
INSPECTOR	CONTRACTOR	DATE	2006	NM STATE PLANE COORDINATES								REMARKS	BY		
ACCEPTANCE BY	CONTRACTOR	DATE	2006	Central Zone	N.A.D. 1927							DESIGN			
VERIFICATION BY	CONTRACTOR	DATE	2006	X=354,207.50								DESIGNED BY: SA			
DRAWING NO.	TIERRA WEST	DATE	2006	Y=1,473,257.74								DRAWN BY: EMT			
MICRO-FILM INFORMATION				G-G=0.9667887								DRAWN NAME: 2520-Snow Vista-removal.dwg			
				Da= 0'16.47"								CHECKED BY: RRB			
				ELEV=5133.97											

SCANNED BY
PLANNING



KEYED NOTE:

- (A) 6' VALLEY GUTTER PER COA STD DWG #2420.
- (B) 6' SIDEWALK TO BE BUILT WITH THIS WORK ORDER PER COA STD DWG #2430.
- (C) WHEEL CHAIR RAMP PER COA STD DWG #2441 CASE I.
- (D) WHEEL CHAIR RAMP PER COA STD DWG #2441 CASE II.
- (E) STANDARD CURB PER COA STD DWG #2415A.
- (F) MEDIAN CURB PER COA STD DWG #2415B.
- (G) UNIDIRECTIONAL WHEELCHAIR RAMP SEE DETAIL SHEET-12.
- (I) EXISTING LIGHT POLES TO BE RELOCATED BY PNM

NEW PAVEMENT

QUARTER POINTS

C1	FL	ELEV.	C10	FL	ELEV.
1	42.66	.71	1	40.57	.44
2	42.37	-	2	40.78	-
3	42.08	.31	3	40.99	.41.02

C2	FL	ELEV.	C11	FL	ELEV.
1	38.68	.57	1	43.68	.44.12
2	39.06	-	2	43.36	-
3	39.45	.85	3	43.05	.42.08

C3	FL	ELEV.	C12	FL	ELEV.
1	43.57	.86	1	41.83	.40.84
2	43.34	-	2	41.26	-
3	43.11	.03	3	41.58	.19

C4	FL	ELEV.	C16	FL	ELEV.
1	38.67	.61	1	39.88	.52
2	38.99	-	2	39.81	-
3	39.30	.15	3	39.95	.40.22

C9	FL	ELEV.	C17	FL	ELEV.
1	44.34	.61	1	39.88	.11
2	44.02	-	2	40.01	-
3	43.70	.36	3	40.14	.21

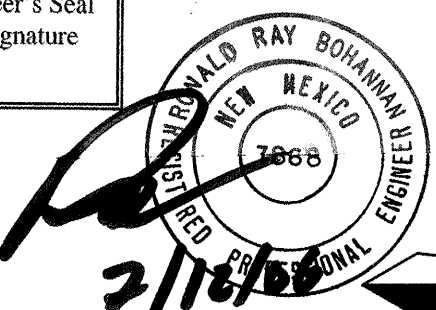
CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH
C1	39.27	25.00	25.00	90°00'00"	S30°05'28"W	35.36
C2	39.27	25.00	25.00	90°00'00"	N59°54'32"W	35.36
C3	23.71	15.00	15.15	90°33'11"	S59°37'56"E	21.32
C4	39.31	25.00	25.04	90°05'38"	N30°02'39"E	35.38
C5	42.63	150.00	21.46	16°16'55"	S06°48'52"E	42.48
C6	42.65	150.00	21.47	16°17'23"	N06°49'06"W	42.50
C7	251.40	2454.13	125.81	5°52'10"	S11°02'26"E	251.29
C8	237.30	2368.13	118.75	5°44'29"	N10°59'35"W	237.20
C9	33.54	25.00	19.84	76°51'28"	S36°41'10"W	31.08
C10	23.54	15.00	14.98	89°54'37"	N59°55'47"W	21.20
C11	25.83	15.00	17.46	98°40'09"	S55°33'01"E	22.76
C12	23.91	15.00	15.35	91°19'17"	N29°27'16"E	21.46
C13	132.52	1283.00	66.32	5°55'05"	N09°10'29"W	132.46
C14	48.42	150.00	24.42	18°29'42"	N21°22'53"W	48.21
C15	42.41	150.00	21.35	16°11'55"	S22°31'47"E	42.27
C16	37.90	25.00	23.67	86°51'46"	S28°28'05"W	34.37
C17	38.98	25.00	24.71	89°19'35"	S59°35'18"E	35.15
C18	31.19	200.00	15.63	8°56'09"	S06°12'39"E	31.16

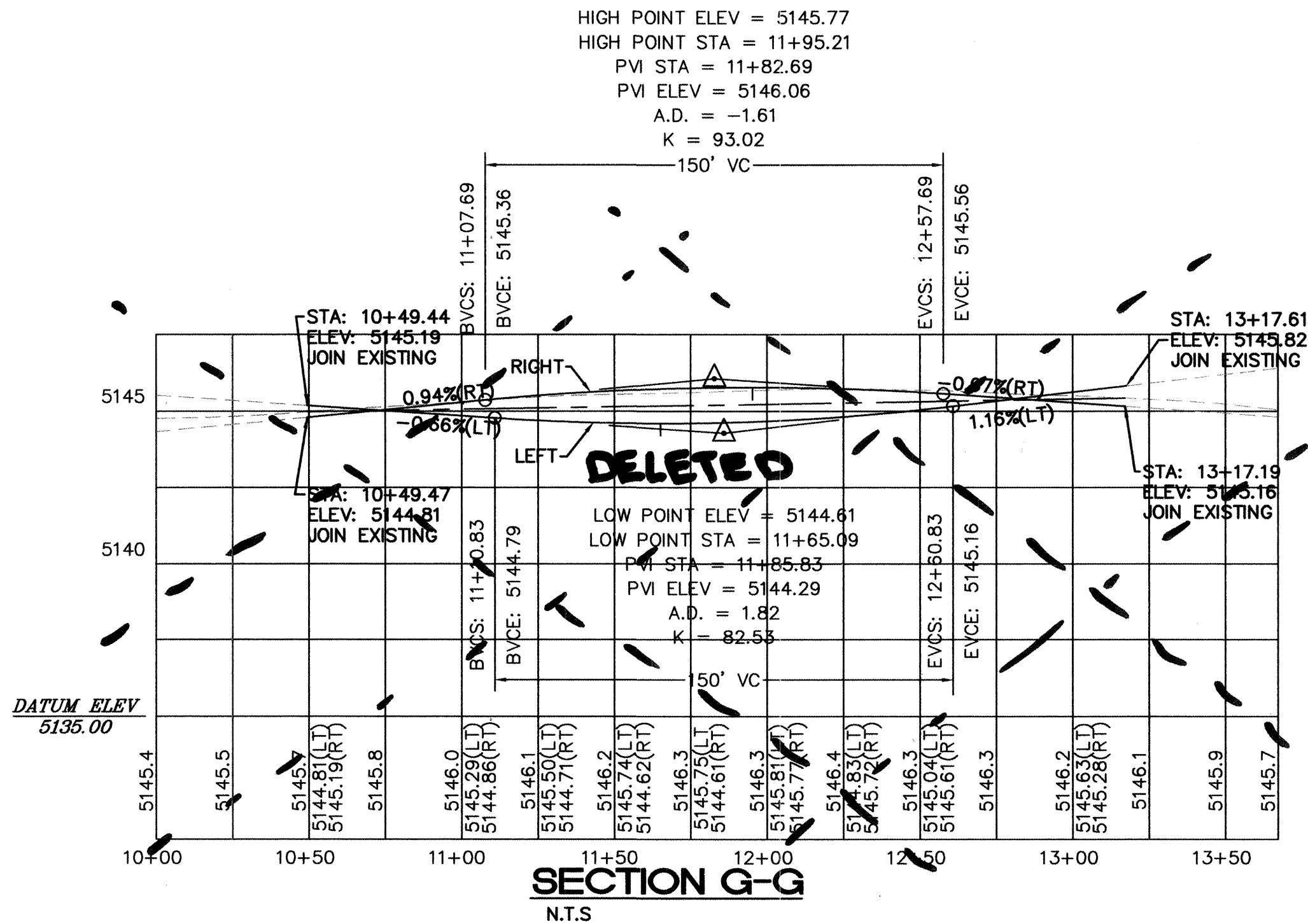
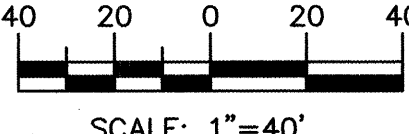
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Engineer's Seal
& Signature



GRAPHIC SCALE



TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

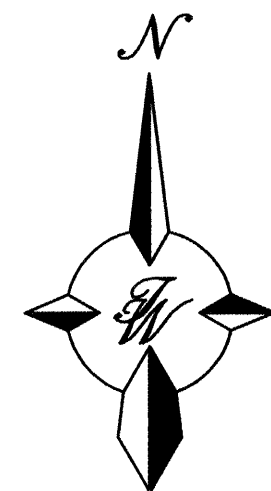
TITLE:
98TH AND SAGE
PAVING IMPROVEMENTS
SNOW VISTA BLVD

DESIGN REVIEW COMMITTEE	GPV-ENGINEER-APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED DEC 18 2005 DESIGN REVIEW COMMITTEE	APPROVED DEC 18 2005 CITY ENGINEER			
CITY PROJECT NO.	7697.81	ZONE MAP NO.	M-9	SHEET OF 5 - 12

C1	FL	ELEV.	C5	FL	ELEV.
	1	41.11		1	38.35
	2	41.08		2	38.10
	3	41.04		3	37.85

C6	FL	ELEV.	C11	FL	ELEV.
	1	36.69		1	32.33
	2	36.46		2	32.39
	3	36.23		3	32.45

C13	FL	ELEV.
	1	31.00
	2	30.56
	3	30.12



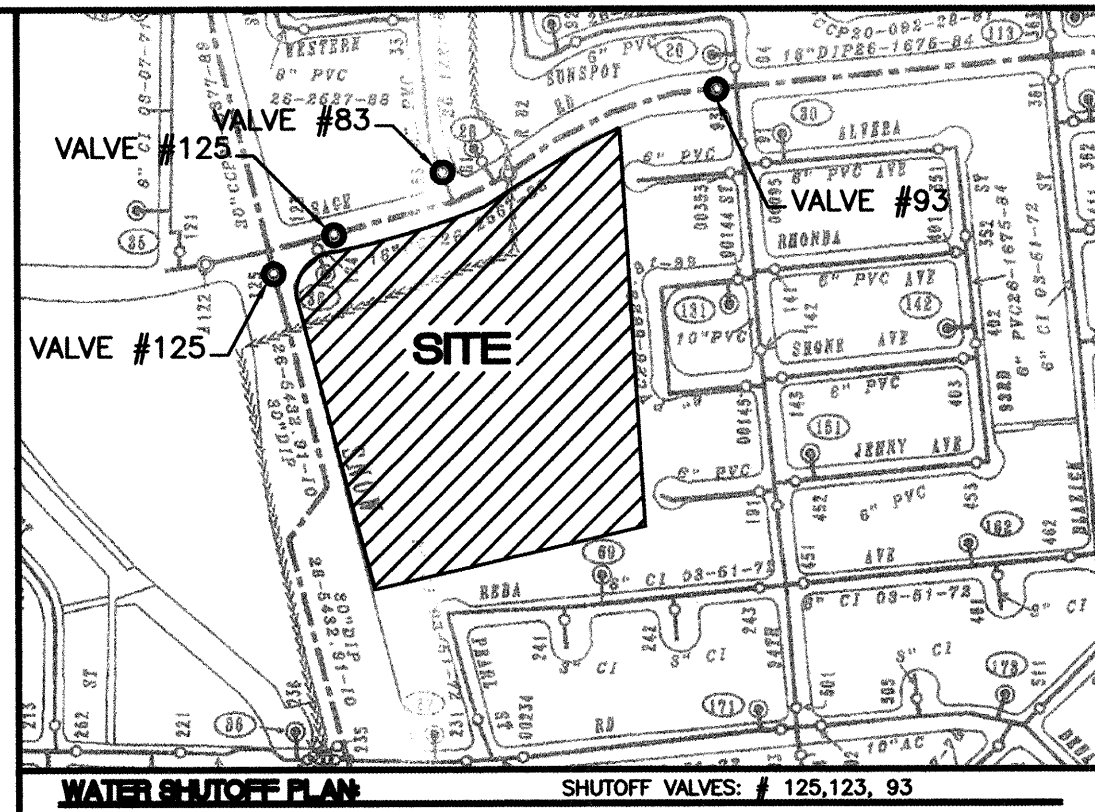
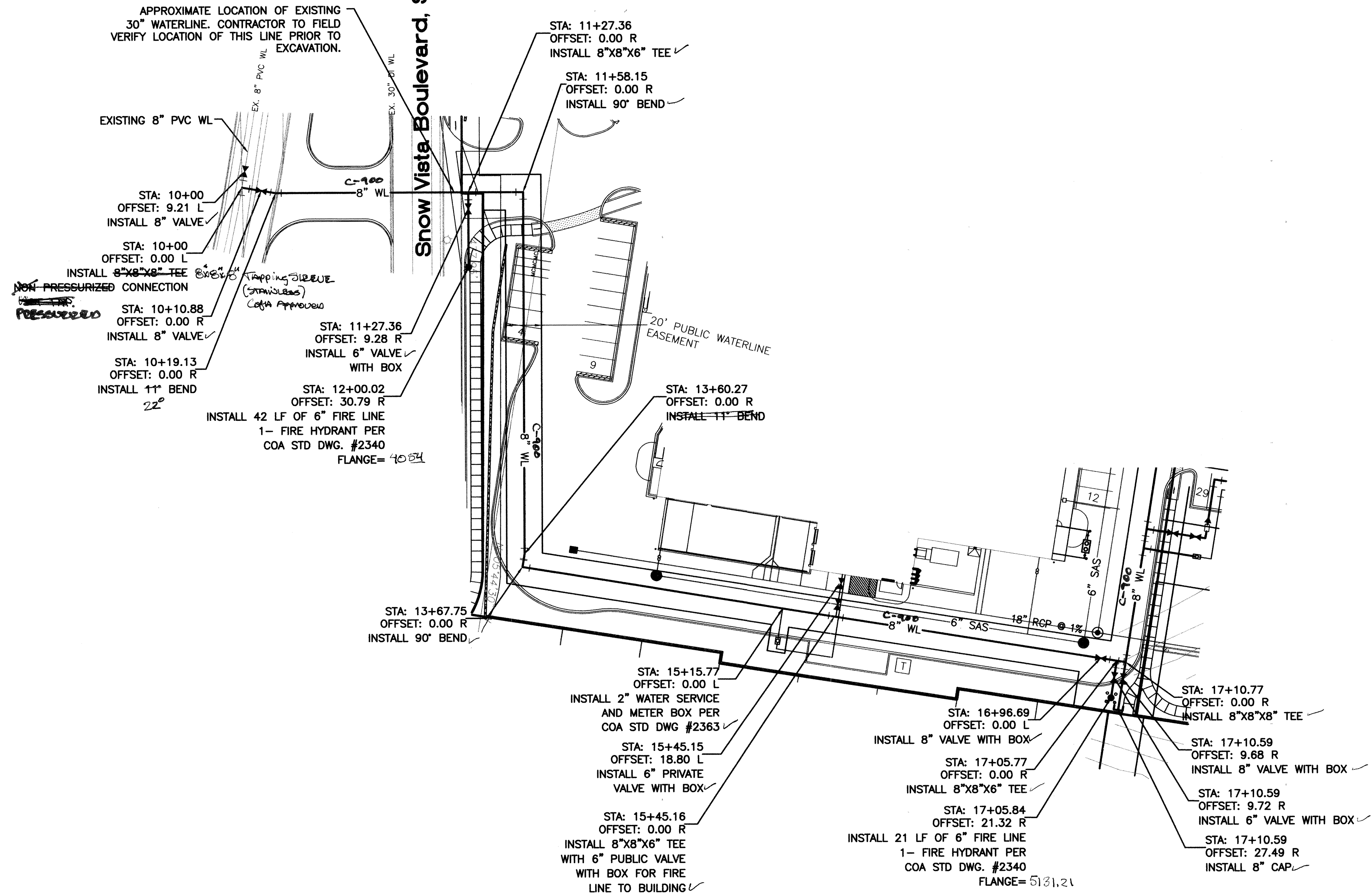
SCALE: 1"=40'

NEW PAVEMENT

Tierra West, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100										NO.			DESIGNED BY		DRAWN BY:		CHECKED BY
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP																	
TITLE: 98TH AND SAGE PAVING IMPROVEMENTS SAGE ROAD S.W.																	
DESIGN REVIEW COMMITTEE DESIGN REVIEW COMMITTEE				CITY ENGINEER APPROVAL CITY ENGINEER				LAST DESIGN UPDATE	MO./DAY/YR.		MO./DAY/YR.						
CITY PROJECT NO.				7697.81				ZONE MAP NO.		M-9		SHEET		OF			
												6		12			

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SCANNED BY
PLANNING

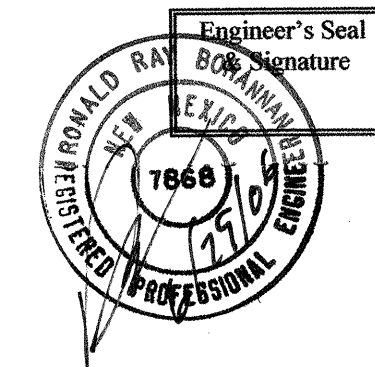


- ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
- NOTIFY CITY OF ALBUQUERQUE, WATER SYSTEMS DIVISION (PHONE 857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
- APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
- SHUTOFF THE VALVES INDICATED IN THE PLAN ABOVE.

- NOTE:
- SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
 - ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340.
 - ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO AND CONSTRUCTION OF UTILITIES.
 - SEE SHEET 7 FOR RESTRAINING TABLE
 - ELECTRONIC MARKER DISCS ARE REQUIRED FOR WATER LINE AND SANITARY SEWER LINES AS PER CITY STANDARD SECTION 170.

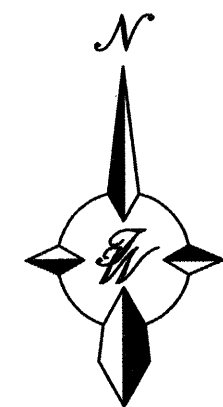
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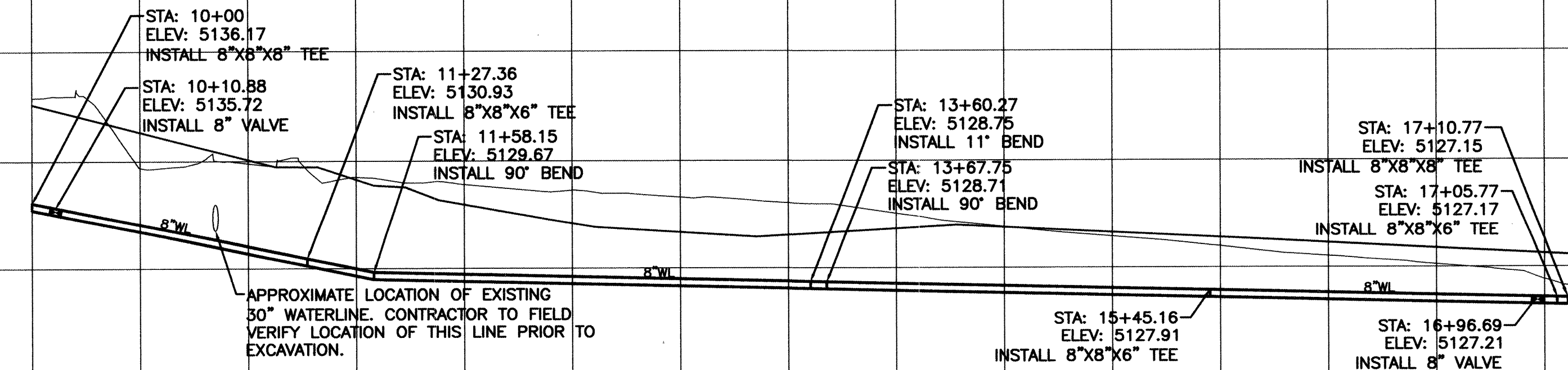


CAUTION:
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

SCALE: HORIZ. 1"=50'
VERT. 1"=10'



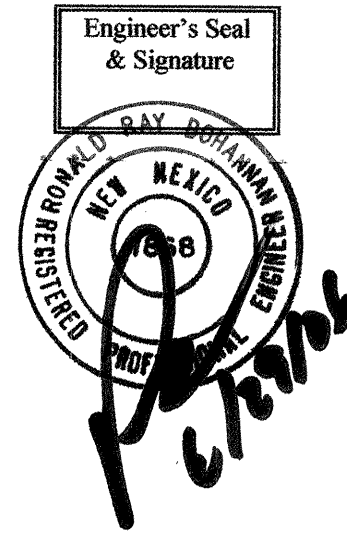
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR James Corp	DATE 12/2/2005	A.C.S. MONUMENT "2-MB"	C.O.A. BRASS CAP	NO.	DATE		DESIGNED BY: SA DRAWN BY: EMT CHECKED BY: RRB
INSPECTOR'S NAME BOHANNON, R.	DATE 12/2/2005	NM STATE PLANE COORDINATES	Central Zone- N.A.D. 1927	BY	REMARKS		
FIELD VERIFICATION BOHANNON, R.	DATE 12/2/2005	X=354,207.50	Y=1,473,257.74	NO.	REVISIONS		
CORRECTED BY James Corp	DATE 12/2/2005	G-G=0.9967887	Da= 0'16.47"	DATE	DESIGN		
MICRO-FILM INFORMATION	RECORDED BY	ELEV=5133.97	(NOV202)	DATE	NO.		
CITY PROJECT NO. 7697.81		ZONE MAP NO. M-9		SHEET 8 - 12		JOB NO.: 25020 DRAWN NAME: 2520-98th-UT1.dwg DATE: 10-26-05	



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

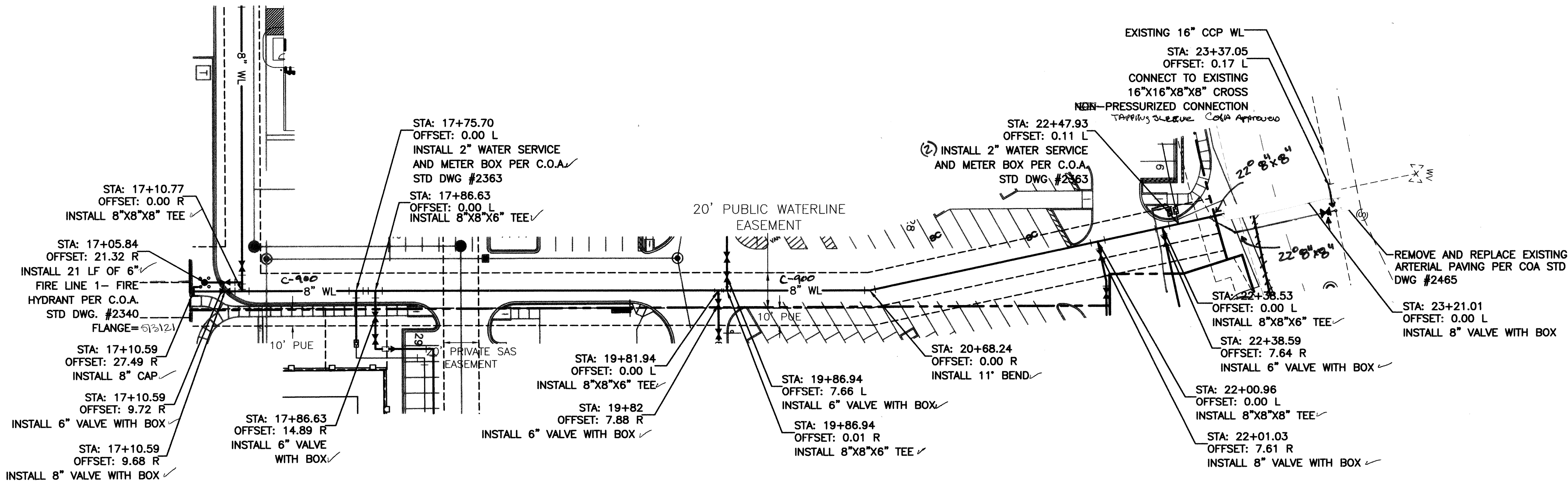
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Engineer's Seal
& Signature

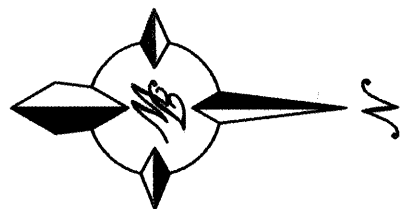


NOTE:

1. SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
2. ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340
3. ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO AND CONSTRUCTION OF UTILITIES.
4. SEE SHEET 7 FOR RESTRAINING TABLE
5. PRIVATE GATE VALVE SHALL BE CAST IRON VALVE CANS.
6. ELECTRONIC MARKER DISCS ARE REQUIRED FOR WATER LINES AND SANITARY SEWER LINES AS PER CITY STANDARD SECTION 170.



CAUTION:
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IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.



SCALE: HORIZ. 1"=50'
VERT. 1"=10'

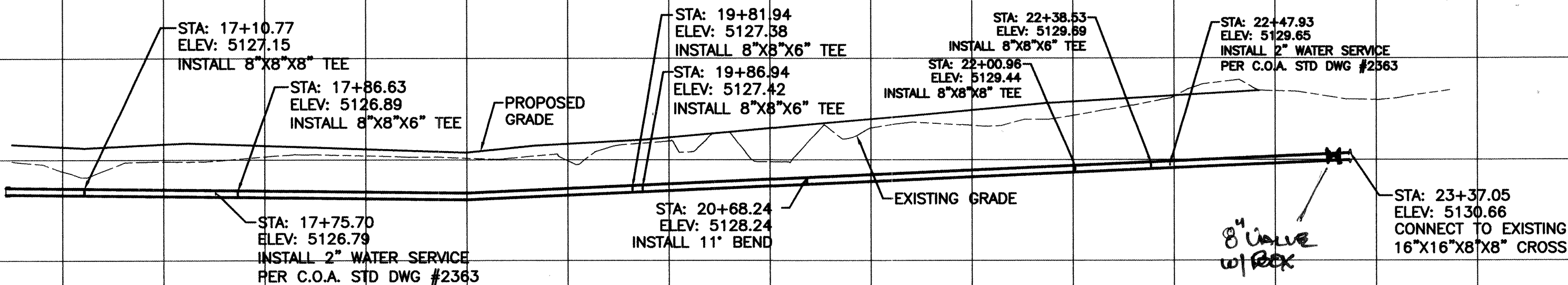
5150

5140

5130

5120

5110



TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
98TH AND SAGE
UTILITY IMPROVEMENTS
WATERLINE

DESIGN REVIEW COMMITTEE
APPROVED
DEC 1 2 2005
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
DEC 1 2 2005
CITY ENGINEER

LAST DESIGN UPDATE

MO./DAY/YR. MO./DAY/YR.
SHEET 9 OF 12

CITY PROJECT NO. 7697.81

ZONE MAP NO. M-9

JOB NO.: 25020
DATE: 11-08-05

DRAWN BY: EMT
CHECKED BY: RRB

DESIGNED BY: SA
DRAWN BY: EMT
CHECKED BY: RRB

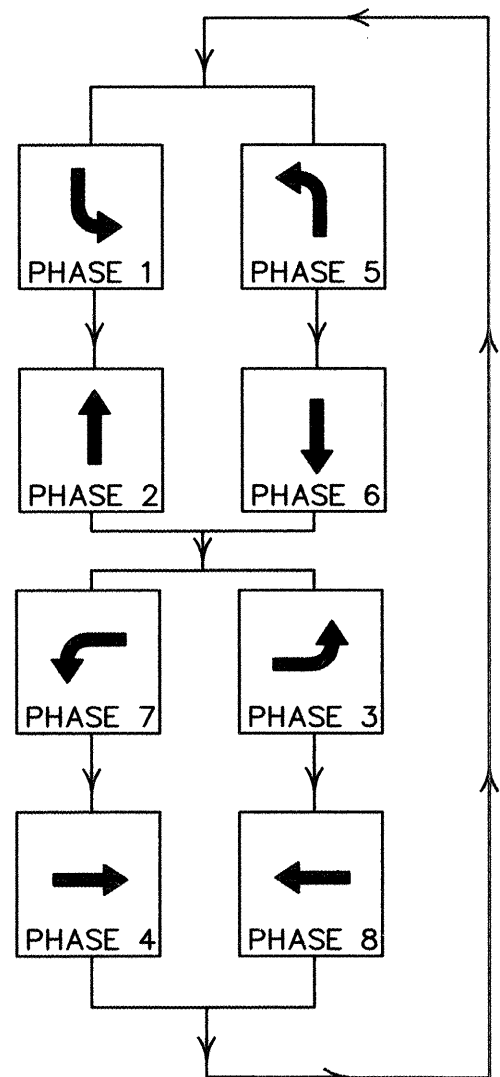
CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE					CONDUIT FILL BY CONTRACTOR LENGTH AND TYPE												
RUN ID 	SIZE/LENGTH			TYPE	REMARKS	MCC 5	MCC 7	MCC 20	SCC #2	SCC #4	SCC #6	DLIC	CC #6	CC #12	OPTICOM SYSTEM	VIDEO CABLE	LUMINAIRE
	2"	3"	4"			(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)
11	LEAVE EXIST. CONDUIT			REC	PB3 TO PB14	REUSE EXIST. WIRE											
12	LEAVE EXIST. CONDUIT			REC	PB3 TO PB14	REUSE EXIST. WIRE											
8	EXTEND EXIST. CONDUIT 5'			REC	PB2 TO PB01	2 @ 43'		2 @ 43'			1 @ 43'						
9	EXTEND EXIST. CONDUIT 5'			REC	PB1 TO PB2										SPARE		
10	REUSE EXISTING				MA2 TO PB2												
7	EXTEND EXIST. CONDUIT 5'																
TOTALS						86'		86'			43'						

- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE. THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRIC WIRING AND APPARATUS, AND THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).
- LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO AVOID UTILITY CONFLICTS AND TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY. FOUNDATIONS, POLES, CONTROL CABINETS, AND SPLICE CABINETS SHALL NOT BE PLACED IN THE PEDESTRIAN PATH.
- THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENT AND ANY DRIVEWAYS FOR SIDE STREET CROSSING. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY BY THE PROJECT MANAGER.
- SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SLICE BARS. SLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE DETECTOR TO THE CONTROLLER CABINET.
- ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROLLER CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLE SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS (857-8000) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, AND MUST BE PRESENT WHEN SIGNALS ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROLLER DOOR IS OPENED.
- THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAY IN ADVANCE OF ANY ANTICIPATED POWER SERVICE CONNECTIONS OR MODIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE TO MAINTAIN ELECTRICAL SERVICE IN THE CITY'S NAME. ALL COSTS FOR PUBLIC SERVICE COMPANY TO PROVIDE POWER WILL BE PAID FOR DIRECTLY BY THE CITY OF ALBUQUERQUE.
- LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE. ALL WIRE SPLICES SHALL BE WATERPROOF. ALL UNUSED CONDUCTORS SHALL BE WATERPROOFED USING NYLON CRIMPED ON WIRES CAPS.
- IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
- CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.
- EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE WIRING REMOVED.
- EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
- THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNAL ARE TURNED OFF.

2558 TRAFFIC SIGNAL FOUNDATION DETAILS TYPE II AND TYPE III STANDARDS
2560 TRAFFIC SIGNAL MISCELLANEOUS DETAILS
2562C TRAFFIC SIGNAL MASTARM DETAILS TYPE III STANDARD
2562C TRAFFIC SIGNAL TYPE III STANDARD-MISCELLANEOUS DETAILS
2568 TRAFFIC SIGNAL MACHINE VISION VEHICLE DETECTION DETAILS
2569 TRAFFIC SIGNAL OPTICAL DETECTOR INSTALLATION DETAILS
2570 TRAFFIC SIGNAL ELECTRICAL SERVICE DETAIL

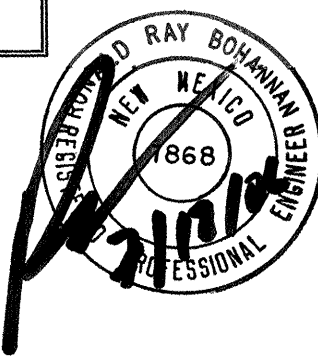
SIGNAL PHASING



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

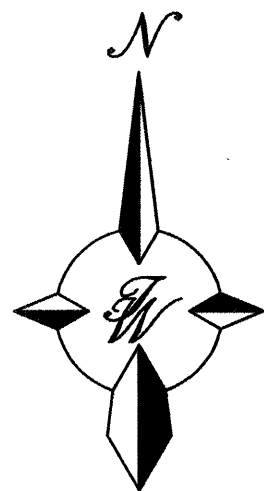
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction with survey information provided by Baseline Field Services NMPL#5110.

Engineer's Seal
& Signature

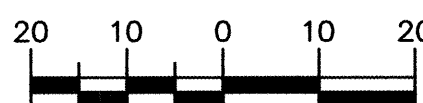


SYMBOL KEY

MA1	SIGNAL & CABINET ID
99	NEW CONDUIT RUN ID
S1	CONDUIT RUN ID (POWER SERVICE)
C1	CONDUIT RUN ID (INTERCONNECT)



GRAPHIC SCALE



SCALE: 1"=20'

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
SC1	SPLICE CABINET NUMBER
PB1	PULL BOX NUMBER (SIGNALS)
PBS1	PULL BOX NUMBER (POWER)
PBC1	PULL BOX NUMBER (INTERCONNECT)
DL1(1)	DETECTOR LOOP PHASE # (LOOP #)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
BP	BACK PLATE
EC	EXTENDED CALL LOOP DETECTOR
SD	SYSTEM LOOP DETECTOR
MH1	TRAFFIC MANHOLE NUMBER
M	METER

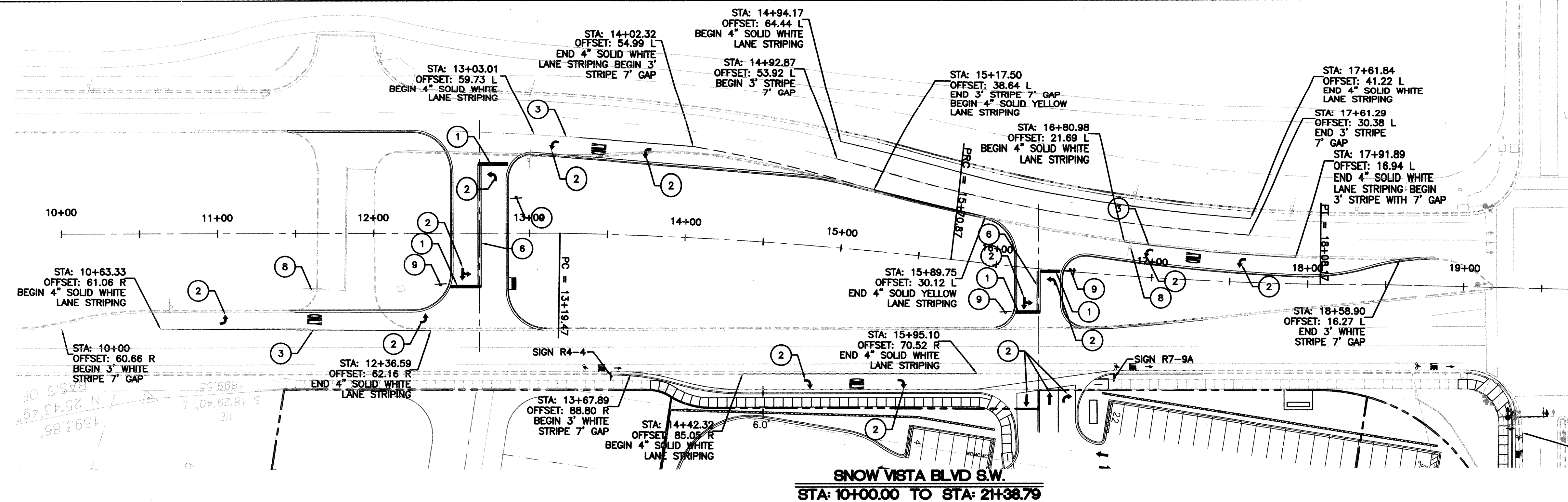
NOTES

- EXISTING LINE LOCATION PER CITY OF ALBUQUERQUE PROJECT # 4188.91
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY ADJUSTMENTS AND PROGRAMING MODIFICATIONS FOR VIDEO CAMERA
- REUSE EXISTING VIDEO CABLE IF POSSIBLE. NO SPLICES WILL BE ALLOWED.
- IF SWEEPS ARE NECESSARY USE MINIMUM 5' RADIOUS.
- IF EXISTING EQUIPMENT OR CONDITIONS ARE NOT AS INDICATED ON PLAN, CONTRACTOR IS TO CONTACT ENGINEER.

TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: 98TH AND SAGE SIGNAL PLAN	
DESIGN REVIEW COMMITTEE APPROVED DEC 12 2005 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED DEC 12 2005 CITY ENGINEER
CITY PROJECT NO. 7697.81	ZONE MAP NO. M-9
SHEET 10 OF 12	

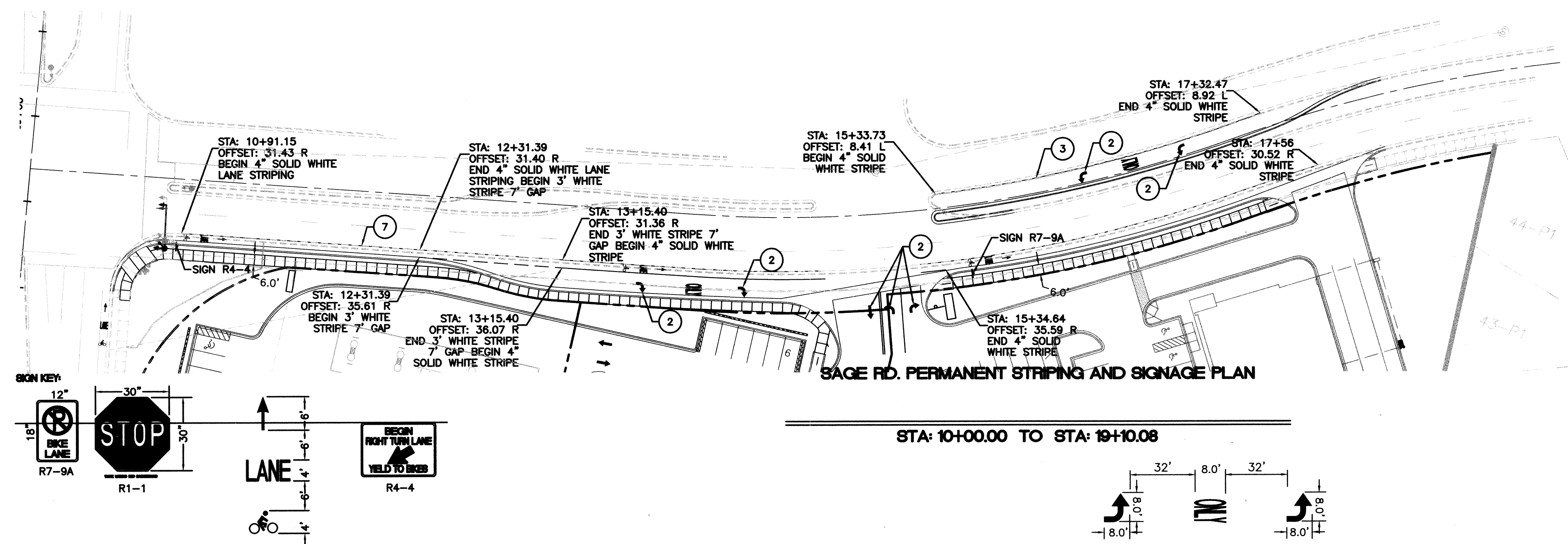
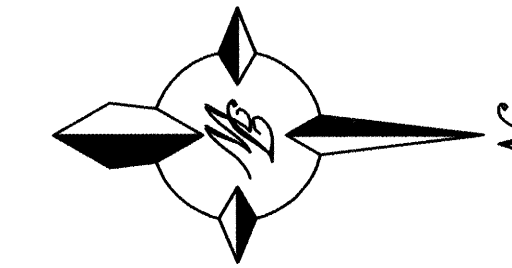
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR JAYNES CORP 2006	WORK BASELINE SERVICES 2006	A.C.S. MONUMENT "2-M9"	C.O.A. BRASS CAP	DATE	BY	REMARKS	REVISIONS
SUBMITTER COATERRA WEST	DATE 2006	NM STATE PLANE COORDINATES	Central Zone - NAD. 1927				
VERIFICATION BY TERRA WEST	DATE 2006	X=354,207.50	Y=1,473,257.74				
CORRECTED BY	DATE	G-G=0.9867887					
MICRO-FILM INFORMATION		RECORDED BY		JOB NO.: 25020		DATE: 12-9-05	
		NO.					
		ELEV=5133.97 (NGVD29)					





GENERAL NOTE

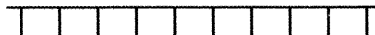
1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MINIMUM OF 0.25 INCHES AND A WIDTH TO EQUAL 2 TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.



- KEYED NOTES:**

- 1 12" SOLID WHITE STOP BAR
- 2 NEW TURN ONLY ARROWS PER DETAIL THIS SHEET
- 3 4" SOLID WHITE LANE STRIPING
- 4 4" DASHED WHITE LANE STRIPING
- 5 4" SOLID YELLOW LANE STRIPING
- 6 4" DOUBLE YELLOW LANE STRIPING
- 7 6" SOLID WHITE STRIPE FOR BIKE LANE
- 8 REMOVE EXITING SIGN
- 9 STOP SIGN "R1-1"

LEGEND

- | | |
|---|---|
|  | EXISTING CURB & GUTTER |
|  | PROPOSED CURB & GUTTER |
|  | BOUNDARY LINE |
|  | CENTERLINE |
|  | EXISTING SIDEWALK |
|  | PROPOSED SIDEWALK |
|  | EXISTING STREET LIGHT |
|  | EXISTING STORM SEWER INLET |
|  | PROPOSED PERMANENT STRIPING |
|  | PROPOSED (TURN LANE) PERMANENT STRIPING |
|  | PROPOSED (TURN LANE) PERMANENT STRIPING |

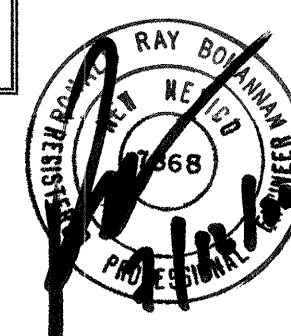
* SIGN FACES SHOWN FOR REFERENCE; CONTRACTOR SHALL VERIFY DIRECTION OF ARROW TO CORRELATE WITH INSTALLATION LOCATION AND TRAFFIC MOVEMENTS.

**** CONTRACTOR SHALL COORDINATE WITH TRAFFIC
OPERATIONS PRIOR SIGNING AND STRIPING**

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, **Ronald K. Bohannon**, of the firm of **Tierra West LLC**, a Registered Professional Engineer in the State of New Mexico, do hereby certify that to the best of my knowledge and belief, the design and construction installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction with survey information provided by Baseline Field Services NMPT# S# 5110.

Engineer's Seal
& Signature

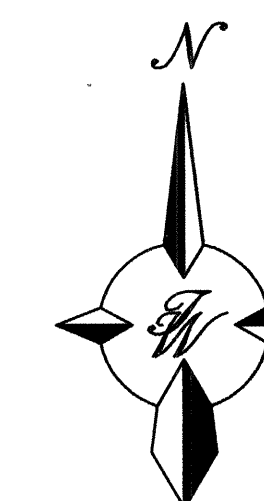


ARROW DETAILS

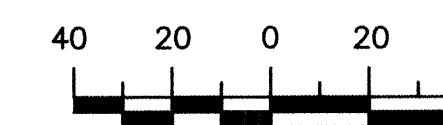
NOTE:
ALL SYMBOLS, STOP BARS AND CROSSWALKS
SHALL BE PREFORMED THERMOPLASTIC TAPE.

NOTES:

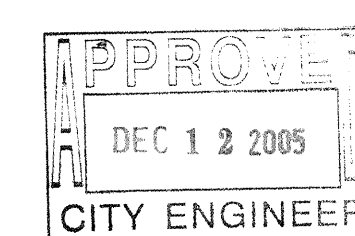
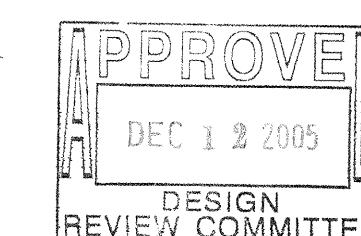
1. COORDINATE WITH TRAFFIC OP'S PRIOR TO SIGNING & STRIPING.
2. PAINT ALL MEDIAN NOSES YELLOW W/ GLASS BEADS.
3. PREFORMED THERMO PLASTIC SHALL BE USED FOR ALL NEW TRAFFIC CONTROL MARKINGS: TURNING ARROWS, WORD "ONLY" AND STRIPING.



GRAPHIC SCALE



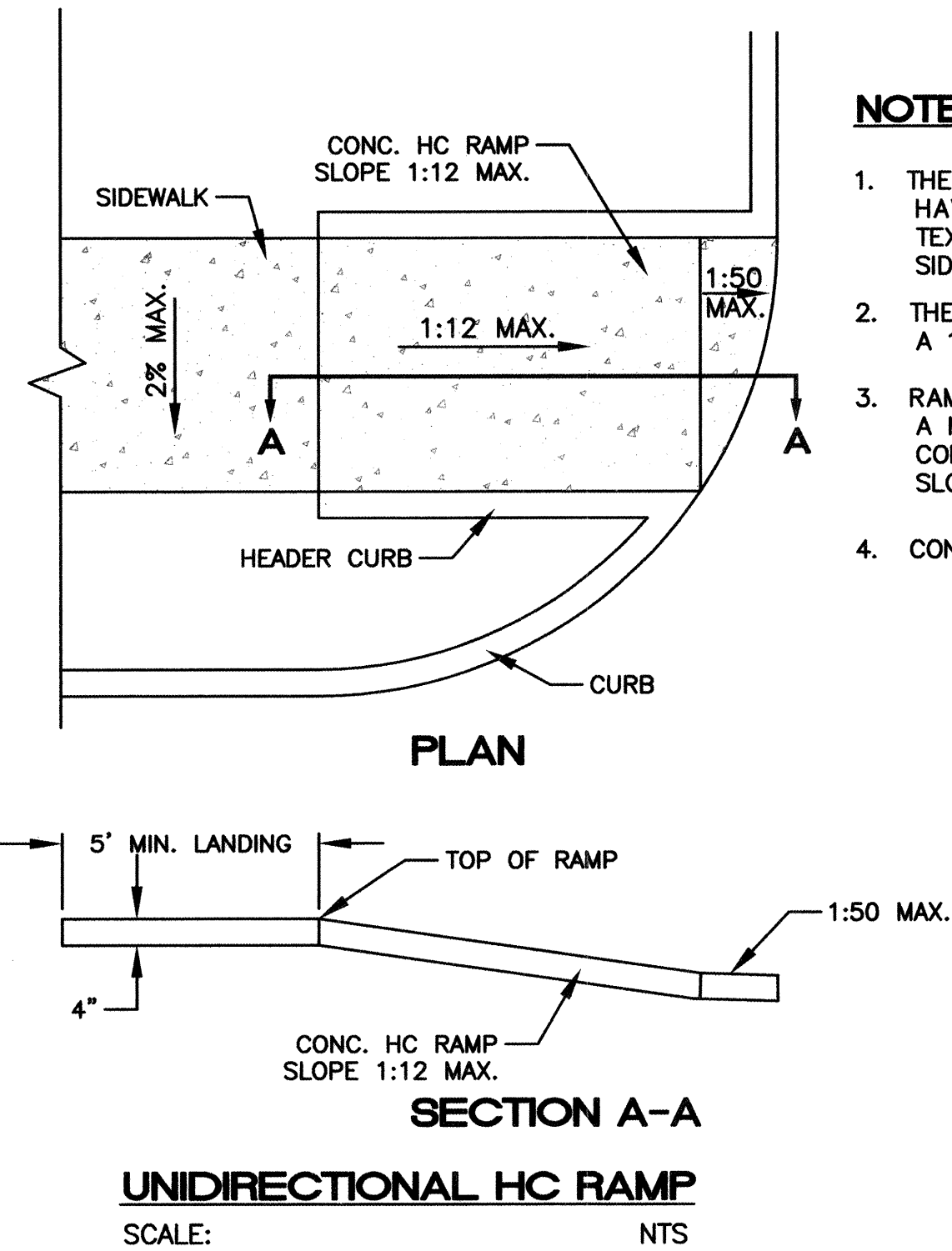
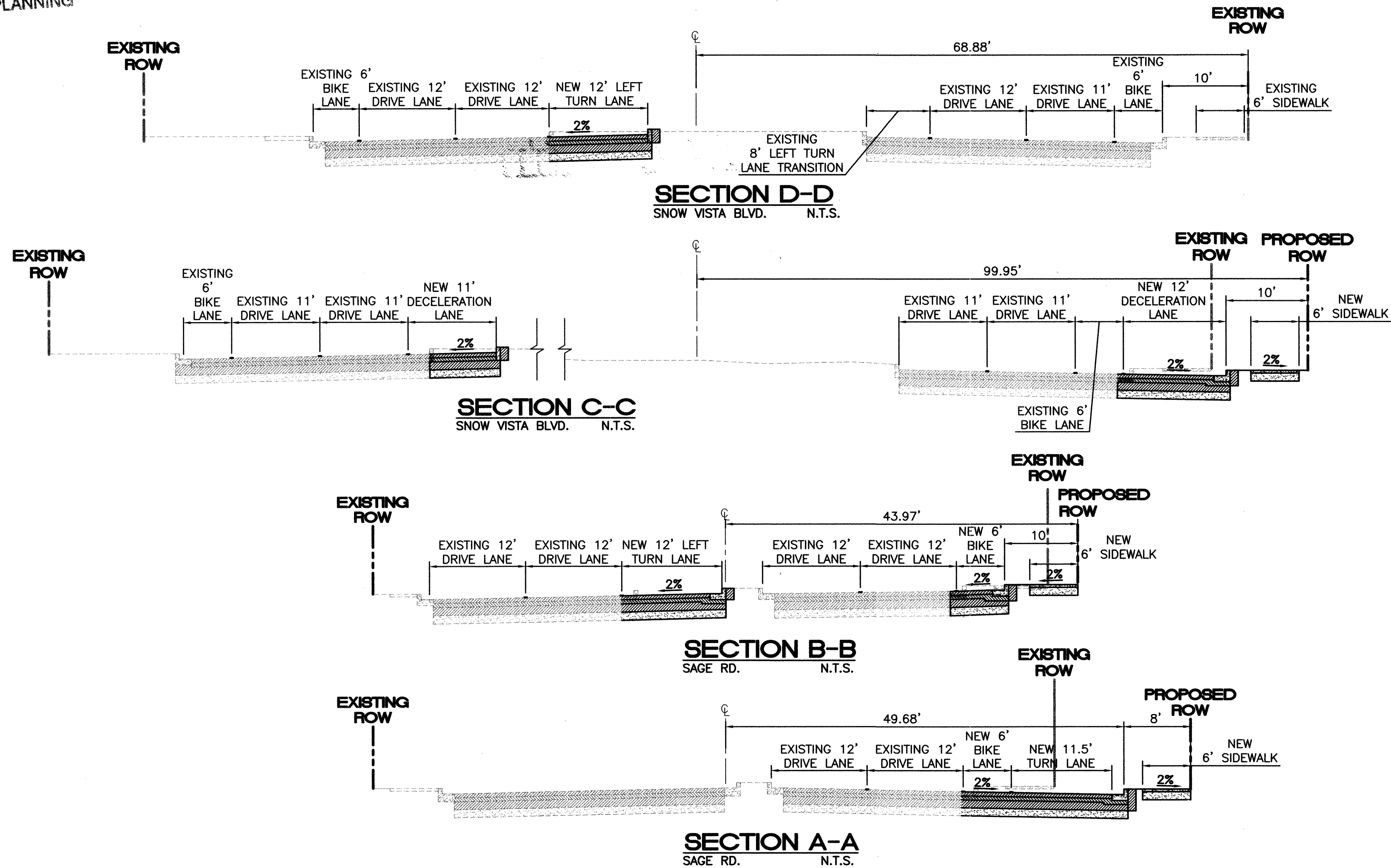
SCALE: 1"=40'



CAUTION:

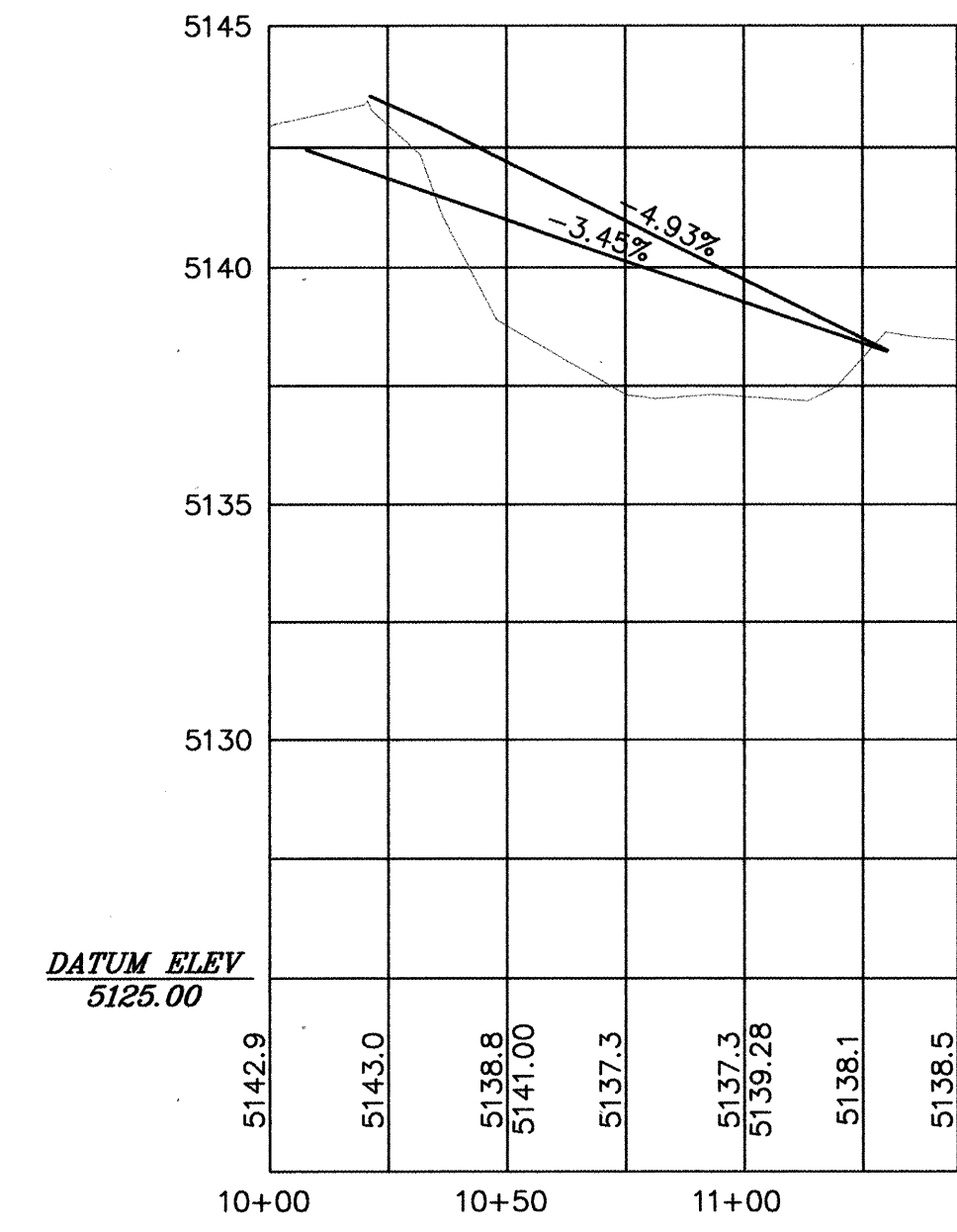
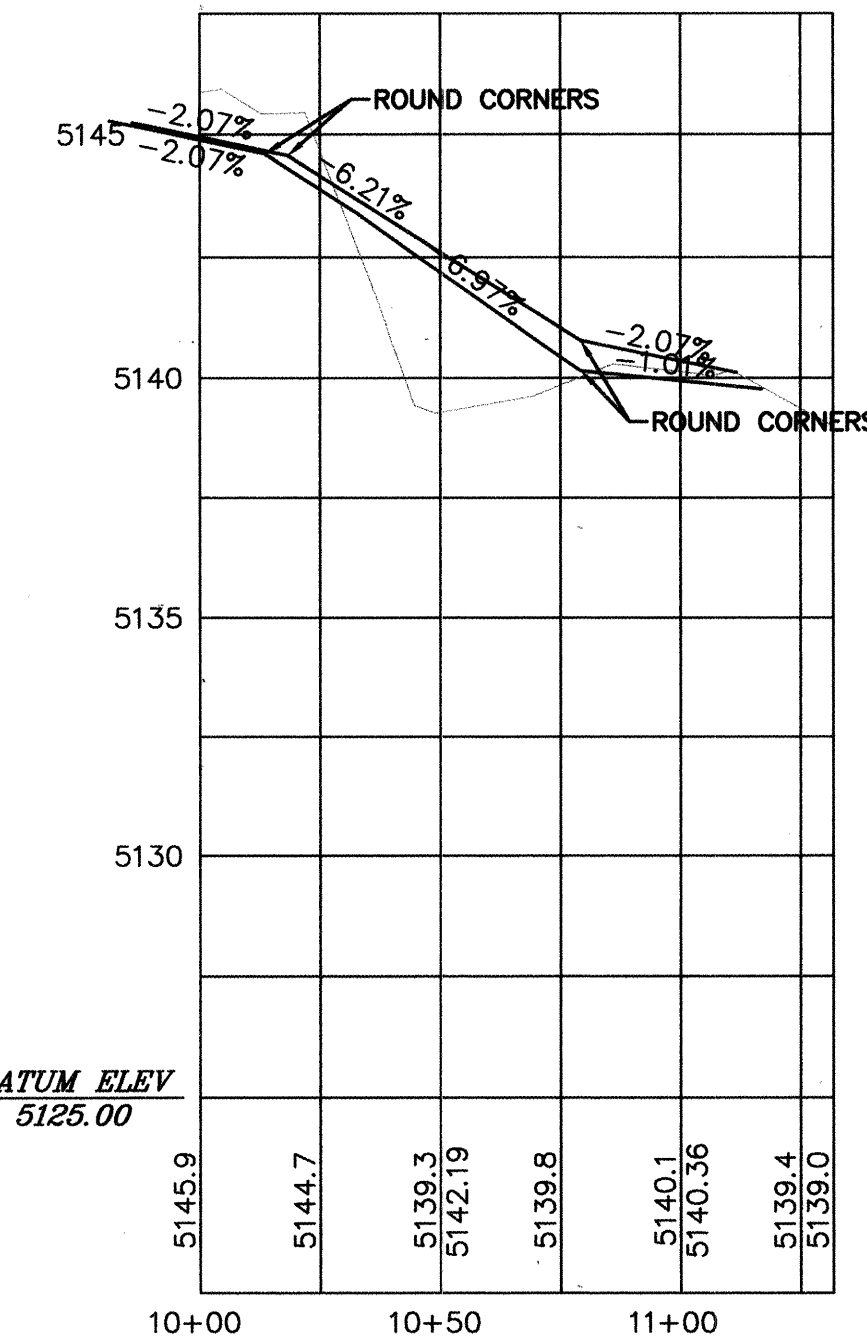
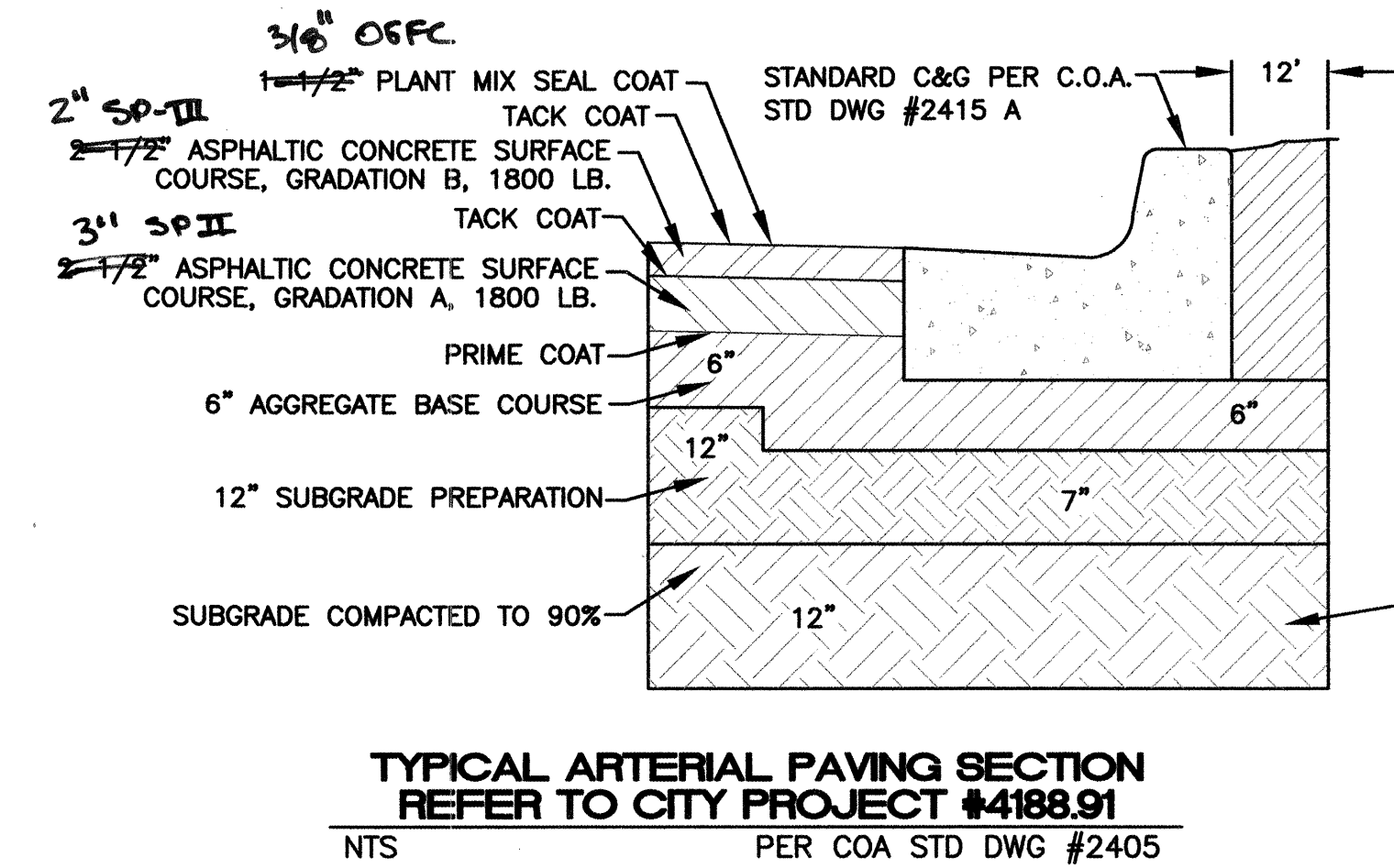
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

ENGINEER'S SEAL	98TH AND SAGE	DRAWN BY EMT	DATE
	PERMANENT STRIPING PLAN 98TH AND SAGE		12-9-05
RONALD R. BOHANNAN P.E. #7868	 TERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100		SHEET # 11 OF 12
			JOB # 250020



NOTES:

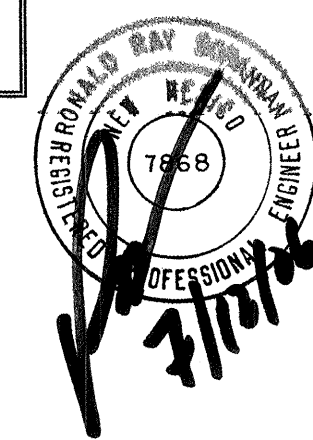
1. THE SURFACE OF RAMP AND SIDES SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
2. THE BOTTOM OF THE RAMP SHALL HAVE A 1/4" LIP OF 45°.
3. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 8.33% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.
4. CONSTRUCT PER A.D.A. STANDARDS.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

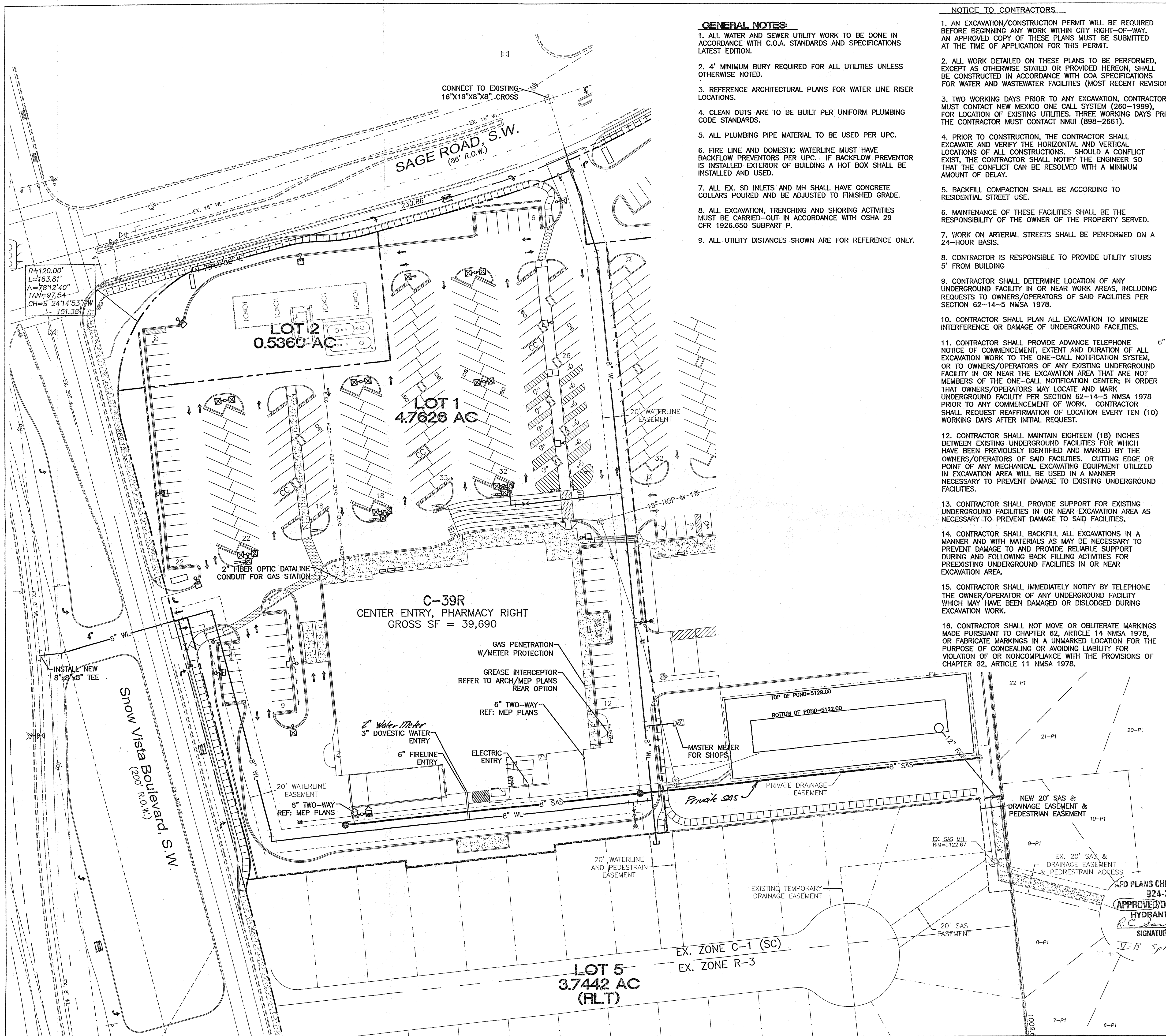
I, **Ronald R. Bohannon**, of the firm of **Tierra West LLC**, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction with survey information provided by **Baseline Field Services** NMPLS# 5110.

Engineer's Seal & Signature



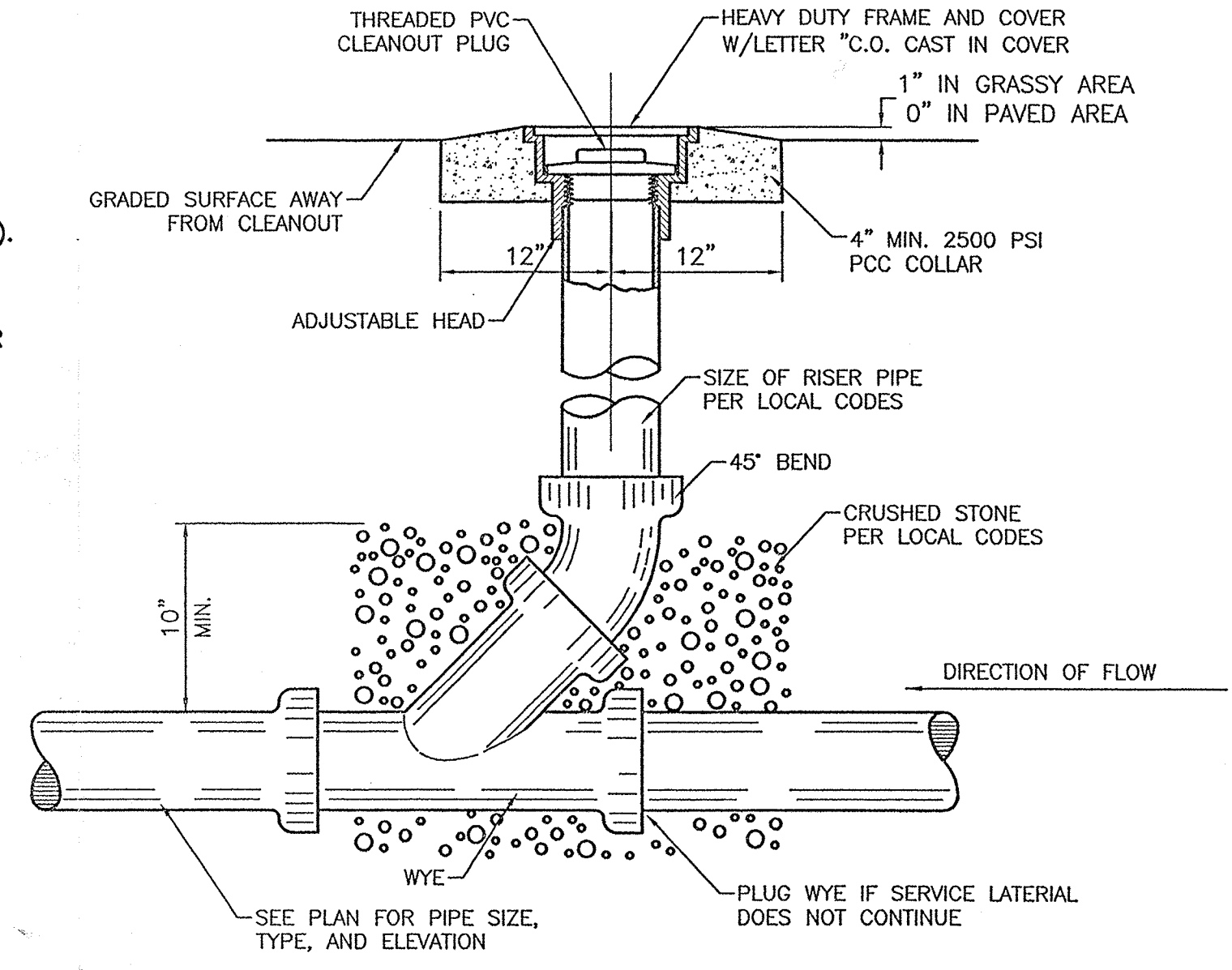
TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: 98TH AND SAGE DETAILS	
DESIGN REVIEW COMMITTEE APPROVED DEC 1 2 2005 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED DEC 1 2 2005 CITY ENGINEER
CITY PROJECT NO. 7697.81	ZONE MAP NO. M-9
SHEET 12	OF 12

ENGINEER'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	

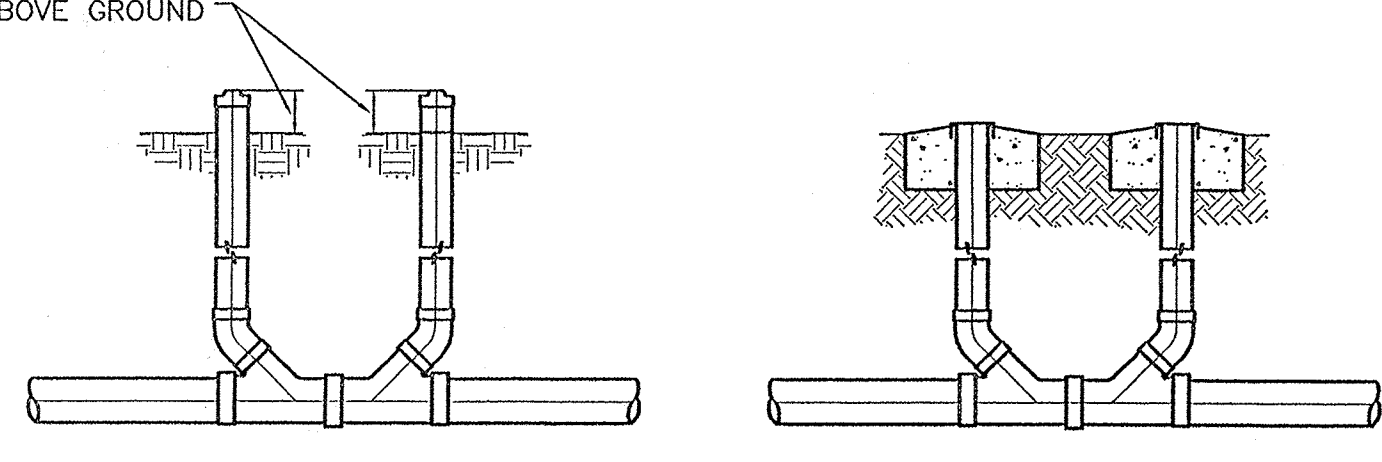


- GENERAL NOTES:**
1. ALL WATER AND SEWER UTILITY WORK TO BE DONE IN ACCORDANCE WITH C.O.A. STANDARDS AND SPECIFICATIONS LATEST EDITION.
 2. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
 3. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATIONS.
 4. CLEAN OUTS ARE TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
 5. ALL PLUMBING PIPE MATERIAL TO BE USED PER UPC.
 6. FIRE LINE AND DOMESTIC WATERLINE MUST HAVE BACKFLOW PREVENTORS PER UPC. IF BACKFLOW PREVENTOR IS INSTALLED EXTERIOR OF BUILDING A HOT BOX SHALL BE INSTALLED AND USED.
 7. ALL EX. SD INLETS AND MH SHALL HAVE CONCRETE COLLARS POURED AND BE ADJUSTED TO FINISHED GRADE.
 8. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
 9. ALL UTILITY DISTANCES SHOWN ARE FOR REFERENCE ONLY.

- NOTICE TO CONTRACTORS**
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH COA SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS).
 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1999), FOR LOCATION OF EXISTING UTILITIES. THREE WORKING DAYS PRIOR THE CONTRACTOR MUST CONTACT NMUI (898-2661).
 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
 8. CONTRACTOR IS RESPONSIBLE TO PROVIDE UTILITY STUBS 5' FROM BUILDING
 9. CONTRACTOR SHALL DETERMINE LOCATION OF ANY UNDERGROUND FACILITY IN OR NEAR WORK AREAS, INCLUDING REQUESTS TO OWNERS/OPERATORS OF SAID FACILITIES PER SECTION 62-14-5 NMSA 1978.
 10. CONTRACTOR SHALL PLAN ALL EXCAVATION TO MINIMIZE INTERFERENCE OR DAMAGE OF UNDERGROUND FACILITIES.
 11. CONTRACTOR SHALL PROVIDE ADVANCE TELEPHONE NOTICE OF COMMENCEMENT, EXTENT AND DURATION OF ALL EXCAVATION WORK TO THE ONE-CALL NOTIFICATION SYSTEM, OR TO OWNERS/OPERATORS OF ANY EXISTING UNDERGROUND FACILITY IN OR NEAR THE EXCAVATION AREA THAT ARE NOT MEMBERS OF THE ONE-CALL NOTIFICATION CENTER; IN ORDER THAT OWNERS/OPERATORS MAY LOCATE AND MARK UNDERGROUND FACILITY PER SECTION 62-14-5 NMSA 1978 PRIOR TO ANY COMMENCEMENT OF WORK. CONTRACTOR SHALL REQUEST REAFFIRMATION OF LOCATION EVERY TEN (10) WORKING DAYS AFTER INITIAL REQUEST.
 12. CONTRACTOR SHALL MAINTAIN EIGHTEEN (18) INCHES BETWEEN EXISTING UNDERGROUND FACILITIES FOR WHICH HAVE BEEN PREVIOUSLY IDENTIFIED AND MARKED BY THE OWNERS/OPERATORS OF SAID FACILITIES. CUTTING EDGE OR POINT OF ANY MECHANICAL EXCAVATING EQUIPMENT UTILIZED IN EXCAVATION AREA WILL BE USED IN A MANNER NECESSARY TO PREVENT DAMAGE TO EXISTING UNDERGROUND FACILITIES.
 13. CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA AS NECESSARY TO PREVENT DAMAGE TO SAID FACILITIES.
 14. CONTRACTOR SHALL BACKFILL ALL EXCAVATIONS IN A MANNER AND WITH MATERIALS AS MAY BE NECESSARY TO PREVENT DAMAGE TO AND PROVIDE RELIABLE SUPPORT DURING AND FOLLOWING BACK FILLING ACTIVITIES FOR PREEXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA.
 15. CONTRACTOR SHALL IMMEDIATELY NOTIFY BY TELEPHONE THE OWNER/OPERATOR OF ANY UNDERGROUND FACILITY WHICH MAY HAVE BEEN DAMAGED OR DISLODGED DURING EXCAVATION WORK.
 16. CONTRACTOR SHALL NOT MOVE OR OBLITERATE MARKINGS MADE PURSUANT TO CHAPTER 62, ARTICLE 14 NMSA 1978, OR FABRICATE MARKINGS IN A UNMARKED LOCATION FOR THE PURPOSE OF CONCEALING OR AVOIDING LIABILITY FOR VIOLATION OF OR NONCOMPLIANCE WITH THE PROVISIONS OF CHAPTER 62, ARTICLE 11 NMSA 1978.



SANITARY SEWER CLEAN-OUT
NTS

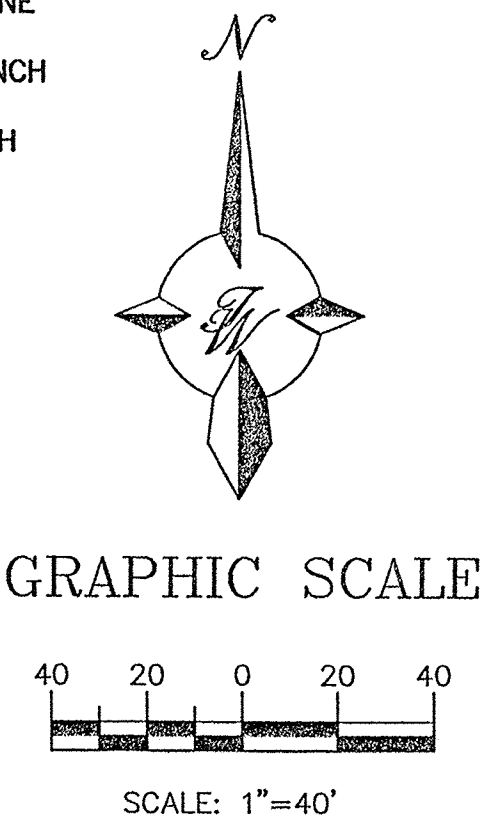


SANITARY SEWER DOUBLE CLEAN-OUTS
NTS

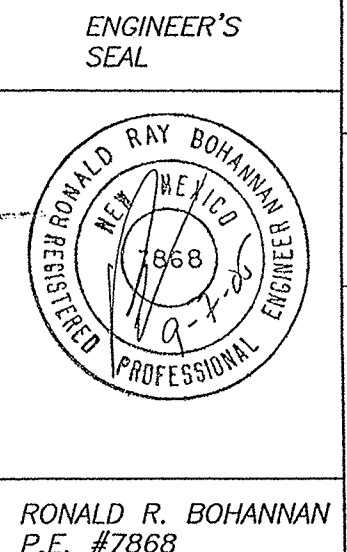
LEGEND

○	EXISTING SAS MANHOLE
— EX. 8" SAS —	EXISTING SANITARY SEWER LINE
●	PROPOSED SAS MANHOLE
8	PROPOSED SAS CLEANOUT
— 8" SAS —	PROPOSED SANITARY SEWER LINE
— — — — —	SANITARY SEWER SERVICE LINE
— EX. 16" WL —	EXISTING WATER LINE
— 10" WL —	PROPOSED WATER LINE
— — — — —	PROPOSED CURB
— — — — —	BOUNDARY LINE
⊙	PROPOSED STORM SEWER MANHOLE
— 24" RCP —	PROPOSED STORM SEWER LINE
— — — — —	PROPOSED DRY UTILITY TRENCH
— — — — —	EXISTING DRY UTILITY TRENCH
⊕	FIRE HYDRANT

CAUTION:
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.



APPROVED/DISAPPROVED
HYDRANT(S) ONLY
SIGNATURE & DATE
V-B Sprinkled



**WAL-MART NEIGHBORHOOD
CENTER NM: 3385**

MASTER UTILITY PLAN

TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

DRAWN BY EMT
DATE 09-02-05
2520-MUB.dwg
SHEET # 5
JOB # 25020

CPN# 764781