

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 19 26 18 108

PUBLIC IMPROVEMENT PLANS FOR VILLA FIRENZE SUBDIVISION ALBUQUERQUE, NEW MEXICO

SEPTEMBER 2006

PREPARED FOR:
INFILL SOLUTIONS
723-B, SILVER AVE. SE
ALBUQUERQUE, NM 87102

PREPARED BY:
ISAACSON & ARFMAN, P.A.
128 MONROE ST. NE
ALBUQUERQUE, NM 87108

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9	CONCRETE RUNDOWN

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Genevieve L. Donart of the firm of Isaacson & Arfman, P.A., 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 and survey information provided by Russ T. Hugg of the firm Surv-Tek, Inc., NMPS number 9750

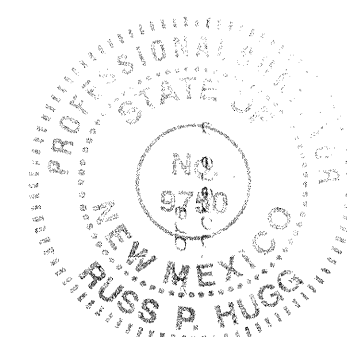
Genevieve L. Donart
Genevieve L. Donart
NMPE No. 15088



SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief;

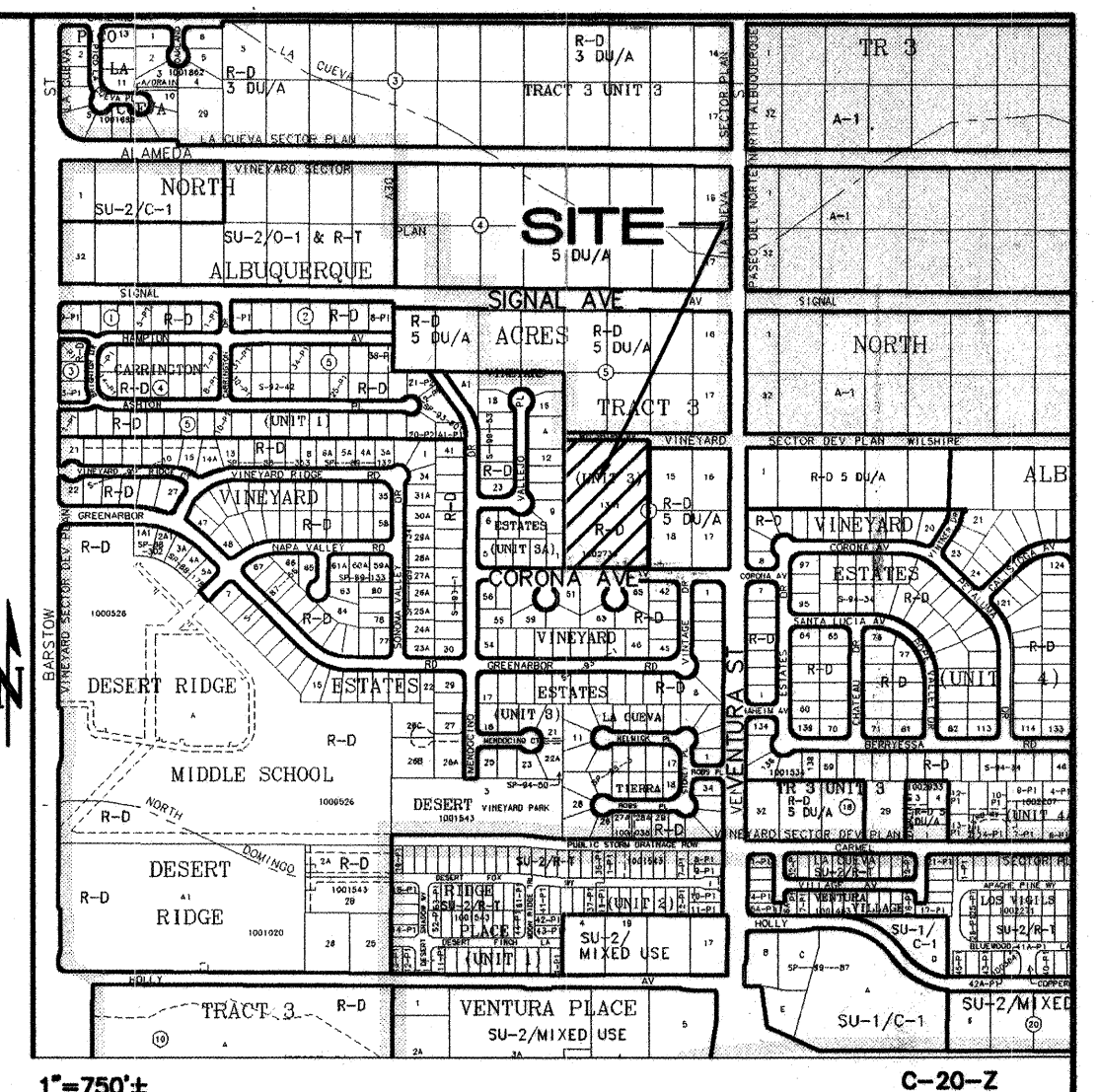
Russ P. Hugg
NMPS No. 9750
JUNE 6, 2007



APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY OF ALBUQUERQUE
DATE: 05/07/08

GENERAL NOTES

- 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 1986 EDITION AS AMENDED WITH UPDATE NO. 7, INCLUDING AMENDMENT 1.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, NM ONE CALL SYSTEMS, INC. @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE NO. 7.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- TRAFFIC CONTROL: FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS SHOWN IN THIS PLAN SET.
- WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
- EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
- NOT USED.
- ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR 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 UPDATE #7.
- PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- ANY WORK OCCURRING WITHIN A FULLY DEVELOPED ARTERIAL ROADWAY REQUIRES 24 HR. CONSTRUCTION.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
- PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ELECTRONIC MARKER DISKS (EMD) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
- ALL WATER VALVE BOXES AND MANHOLES IN THE STREET-CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.
- ON PRIVATE STREETS, DEVELOPER WILL BE RESPONSIBLE FOR PROVIDING & MAINTAINING ALL SIGNING & STRIPING.



DRB NO. 1002730

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Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 Fax: 505-268-2632
1526CVR.dwg Nov 07, 2006

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		[Signature]		12-19-06	
		Transportation		[Signature]		11/13/06	
		Water/Wastewater		[Signature]		11/13/06	
		Hydrology		[Signature]		11/13/06	
		Constr. Mngmt.					
		Constr. Coord.					
		City Project No.		792681			
		Sheet		1		Of 9	

APPROVED FOR CONSTRUCTION
[Signature]
City Engineer Date

SITE CALCULATIONS

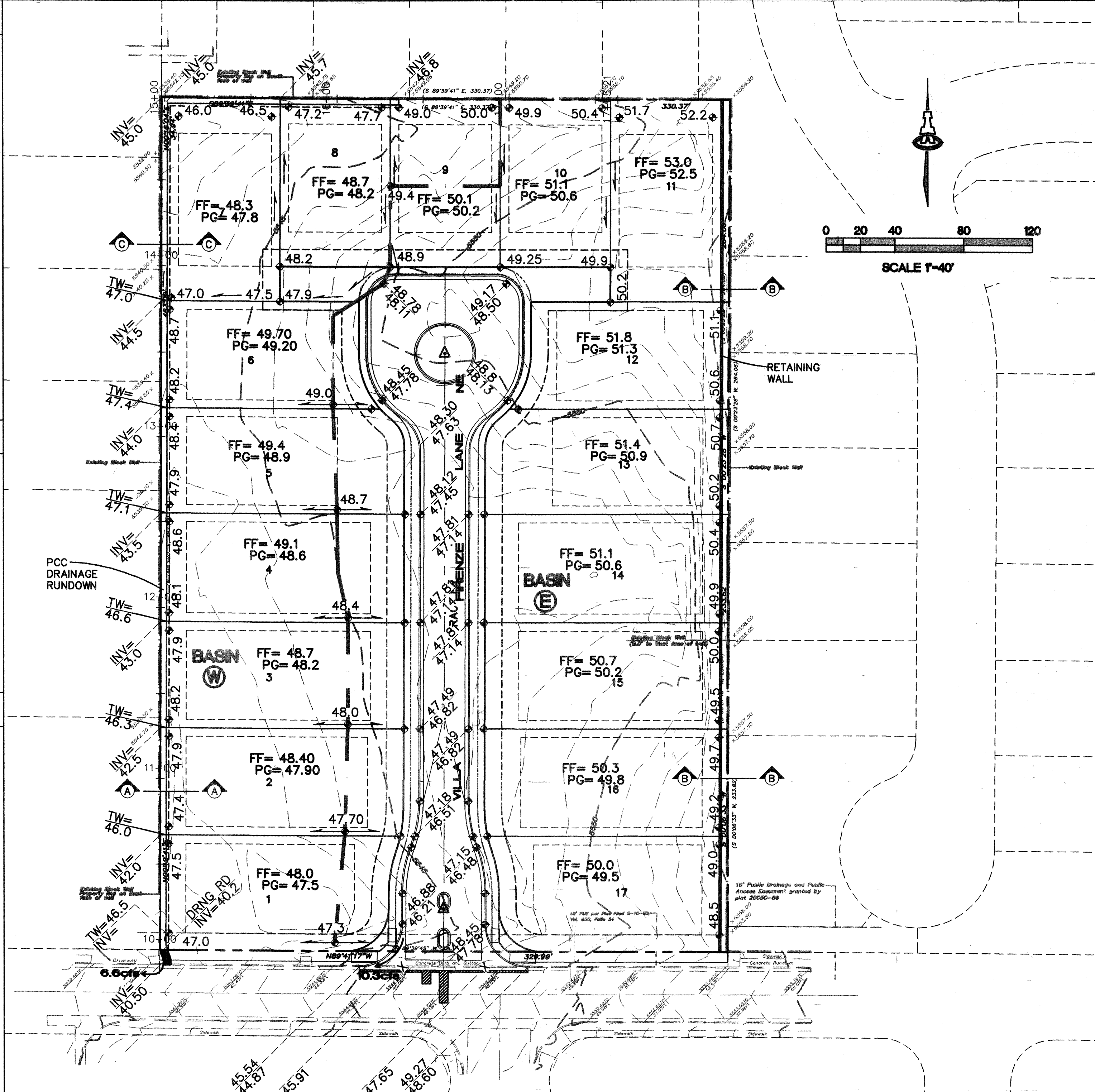
CALCULATIONS: Corona Subdivision : August 15, 2006				
Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993				
ON-SITE				
AREA OF SITE:	164414	SF	=	3.8 AC.
HISTORIC FLOWS:			DEVELOPED FLOWS:	
On-Site Historic Land Condition		On-Site Developed Land Condition		PRECIP. ZONE 4
Area a = 0 SF		Area a = 0 SF		Ea = 0.80
Area b = 164414 SF		Area b = 24662 SF		Eb = 1.08
Area c = 0 SF		Area c = 32883 SF		Ec = 1.46
Area d = 0 SF		Area d = 106869 SF		Ed = 2.64
Total Area = 164414 SF		Total Area = 164414 SF		
On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)				
Weighted E = $\frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$				
Historic E = 1.08 in.		Developed E = 2.17 in.		
On-Site Volume of Runoff: V360 = $\frac{E \cdot A}{12}$				
Historic V360 = 14797 CF		Developed V360 = 29732 CF		
On-Site Peak Discharge Rate: $Qp = QpaAa + QpbAb + QpcAc + QpdAd / 43,560$				
For Precipitation Zone 4				
Qpa = 2.20		Qpc = 3.73		
Qpb = 2.92		Qpd = 5.25		
Historic Qp = 11.0 CFS		Developed Qp = 17.3 CFS		

DRAINAGE SUB-BASIN CALCULATIONS

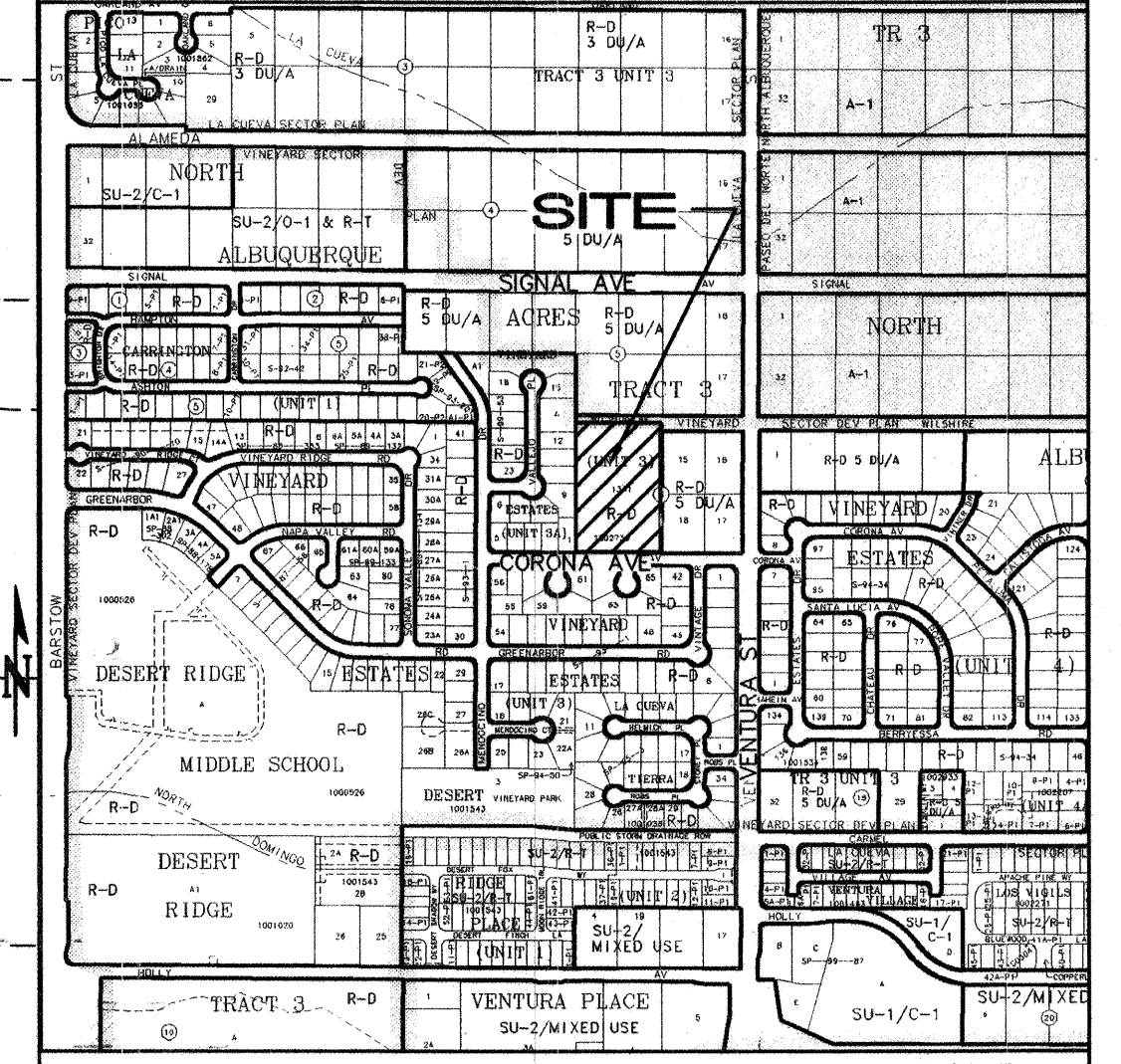
BASIN NO.	E	DESCRIPTION	Draining to main road, then south to Corona Ave.
Area of basin flows =	105729 SF		2.4 AC.
The following calculations are based on Treatment areas as shown in table to the right			
Sub-basin Weighted Excess Precipitation (see formula above)			
Weighted E =	1.91 in.		
Sub-basin Volume of Runoff (see formula above)			
V360 =	16843 CF		
Sub-basin Peak Discharge Rate (see formula above)			
Qp =	10.3 cfs		
TREATMENT			
A =	0%		
B =	24%		
C =	30%		
D =	46%		
BASIN NO.	W	DESCRIPTION	Draining through west lots to sdwk culvert to Corona Ave.
Area of basin flows =	58685 SF		1.3 AC.
The following calculations are based on Treatment areas as shown in table to the right			
Sub-basin Weighted Excess Precipitation (see formula above)			
Weighted E =	2.37 in.		
Sub-basin Volume of Runoff (see formula above)			
V360 =	11571 CF		
Sub-basin Peak Discharge Rate (see formula above)			
Qp =	6.6 cfs		
TREATMENT			
A =	0%		
B =	10%		
C =	10%		
D =	80%		

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- 78.3 PROPOSED SPOT ELEVATION
- FLOW ARROW
- FF = 6881.0 FINISH FLOOR ELEVATION
- SIDEWALK CULVERT
- 47.15 — TOP OF CURB ELEVATION
- 46.48 — TOP OF WALL ELEVATION
- TW=46.5 INVERT
- INV=40.2
- ② □ AREA DRAIN
- INV=72.5 INVERT ELEVATION
- 6" DRAIN LINE WITH SIZE
- STORM DRAIN MANHOLE
- DRAINAGE BASIN LIMITS



VICINITY MAP



SITE DATA

LEGAL DESCRIPTION: LOT 13-A-1, BLK. 6, TRACT 3, NORTH ALBUQUERQUE ACRES, UNIT 3. (07-13-2004; BK. 2004C, PG.209)

AREA: 3.7744 AC. (164414 S.F.)

ENGINEER: ISAACSON & ARFMAN, P.A. (ATTN: FRED C. ARFMAN, P.E.)
128 MONROE ST NE ALBUQUERQUE, NM 87108

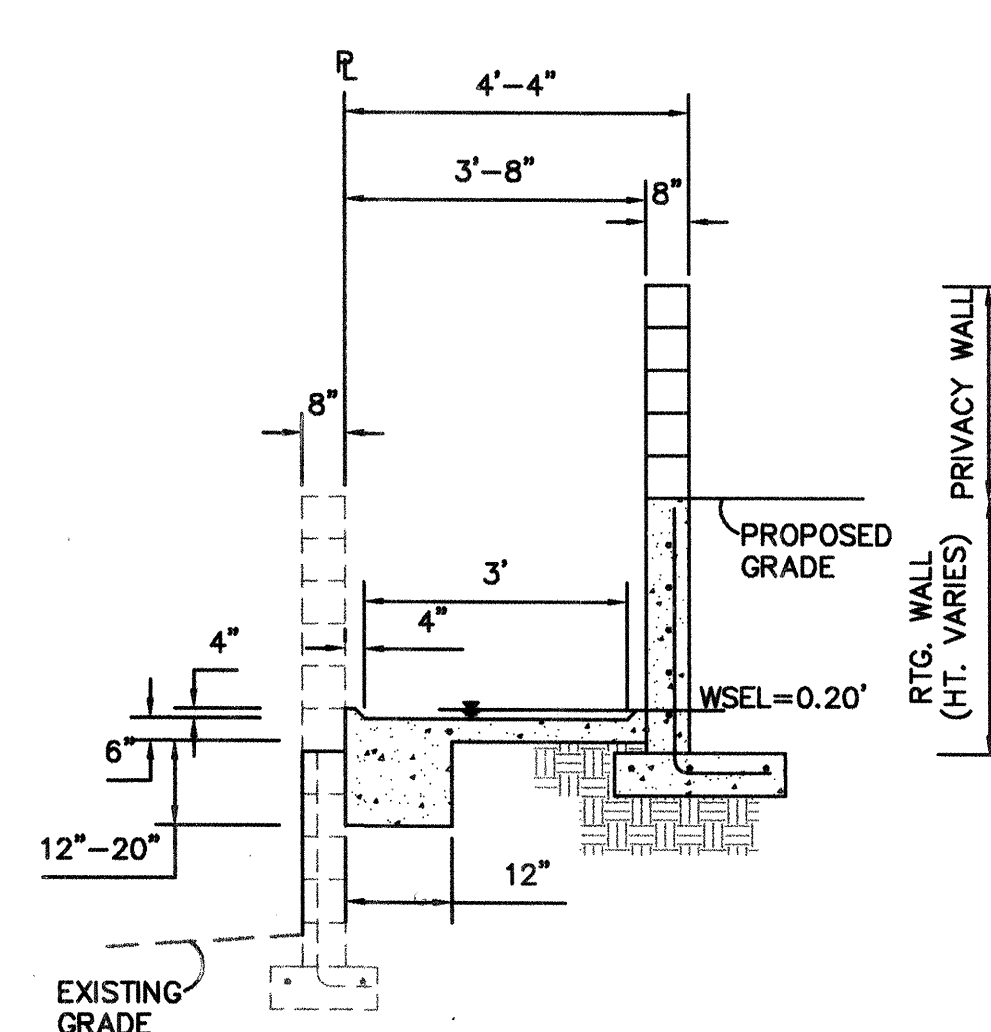
SURVEYOR: SURV-TEK, INC. (ATTN: RUSS HUGG)
9384 VALLEY VIEW DR NW ALBUQUERQUE, NM 87114

SITE CONDITIONS: THE SITE IS SEMI-UNDISTURBED NORTHEAST HEIGHTS MESA TERRAIN. SITE WAS PREVIOUSLY ZONED TO ACCOMMODATE A CHURCH SITE AND WAS RECENTLY RE-ZONED TO RESIDENTIAL (R-D).

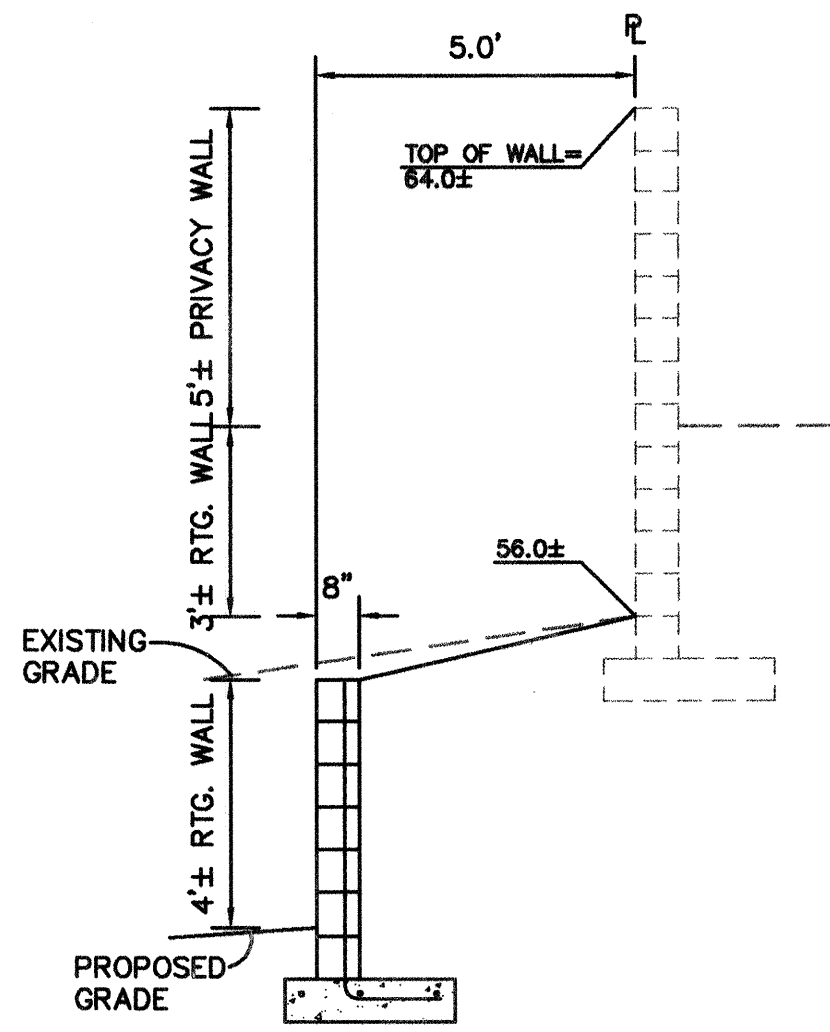
HYDROLOGICAL CONDITIONS

EXISTING: THE SITE IS APPROXIMATELY 3.77 ACRES AND IS COMPLETELY SURROUNDED BY FULLY DEVELOPED, NEIGHBORHOODS TO THE EAST, NORTH AND WEST AND WITH THE STREET SECTION OF CORONA AVENUE BORDERING ON THE SOUTH. THE EXISTING SURFACE STORM WATER FLOWS CONDITION ARE DIVIDED INTO TWO DISTINCT BASINS. THE NORTHERLY BASIN (1.0 ACRES) HAS ALL OF ITS STORM WATER FLOWS COLLECTING AT THE NORTHWEST PROPERTY CORNER AGAINST THE REAR YARDS OF THE ADJACENT PROPERTY OWNERS. THERE ARE NO DISCHARGE RUNDOWNS OR EASEMENTS TO RELEASE THESE CAPTURED FLOWS. THE SOUTHERLY BASIN (2.7 ACRES) HAS ALL OF THE SURFACE STORM WATERS SHEET FLOWING TO THE WEST WHERE THEY ARE BLOCKED BY THE EXISTING CMU WALLS OF THE ADJACENT RESIDENTIAL SUBDIVISION. FLOWS ARE THEN REDIRECTED TO THE SOUTH WHERE THEY DISCHARGE ONTO THE CORONA AVENUE RIGHT-OF-WAY.

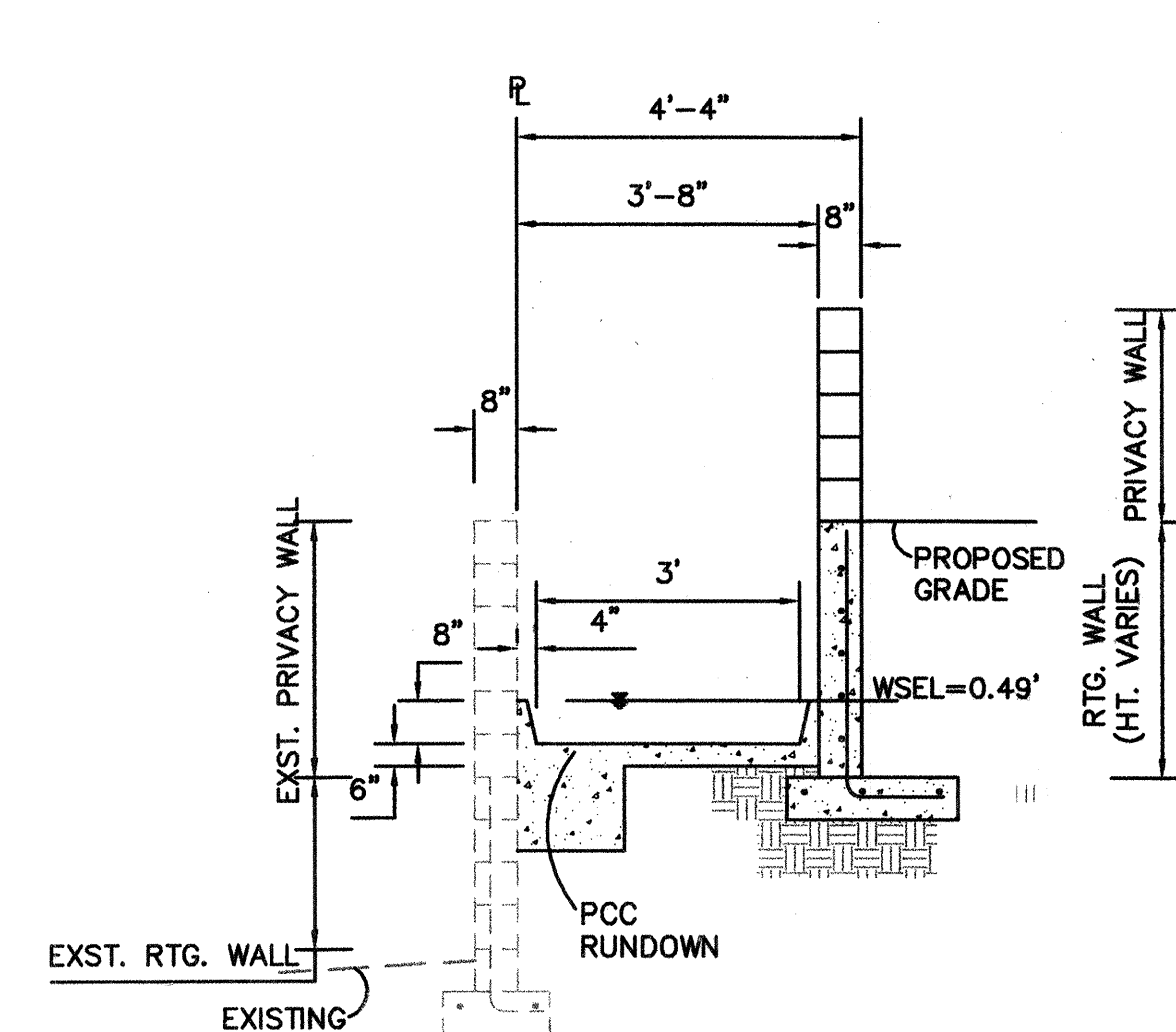
PROPOSED: THE SEVENTEEN LOT SUBDIVISION WILL HAVE TWO DEVELOPED DRAINAGE BASINS. THE EASTERLY BASIN (E) SHALL CONSIST OF APPROXIMATELY THE EASTERN 2/3'S OF THE SITE. DEVELOPED STORM WATERS ARE ALLOWED TO DISCHARGE TO THE PRIVATE STREET AND ARE THEN CONVEYED TO THE SOUTH WHERE THEY WILL DISCHARGE ONTO CORONA AVENUE. THE WESTERLY BASIN (W) COLLECTS SURFACE STORM WATERS ALONG THE WESTERLY PROPERTY LINE WITHIN A DRAINAGE RUNDOWN BETWEEN THE EXISTING CMU RETAINING WALL AND THE PROPOSED PARALLEL RETAINING WALL (SEE SECTION A-A). ALL STORM WATERS SHALL THEN BE ROUTED VIA GRAVITY DISCHARGE TO CORONA AVENUE AS PER THE HISTORICAL (EXISTING) CONDITIONS.



SECTION C-C
SCALE: 1"=3'-0"



SECTION B-B
SCALE: 1"=3'-0"



SECTION A-A
SCALE: 1"=3'-0"

FRED C. ARFMAN
NEW MEXICO
7322
LICENSED PROFESSIONAL ENGINEER

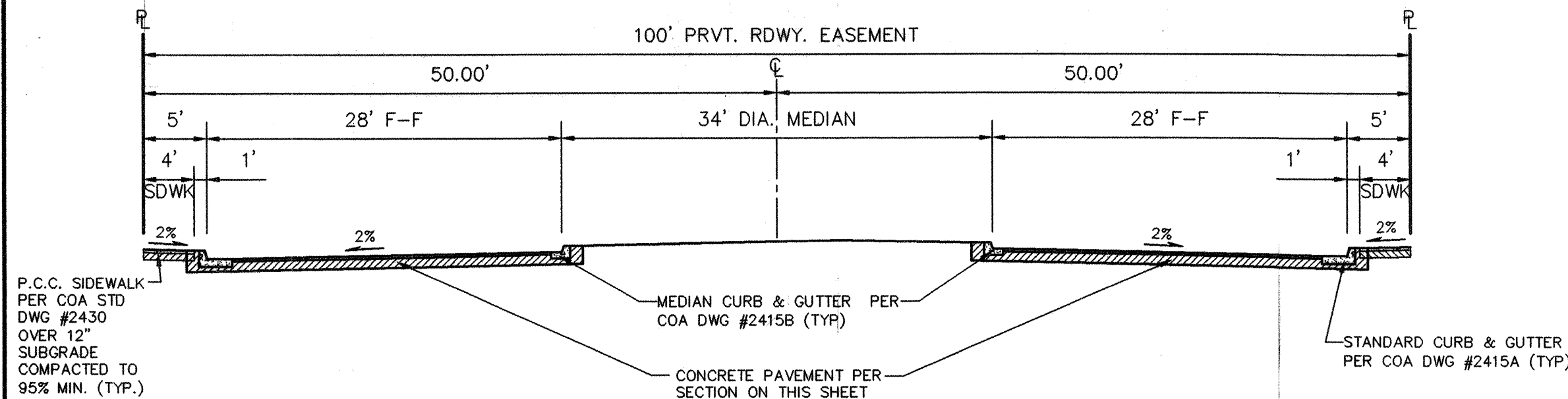
ISAACSON & ARFMAN, P.A.
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1526GRD.DWGthor 08.17.06

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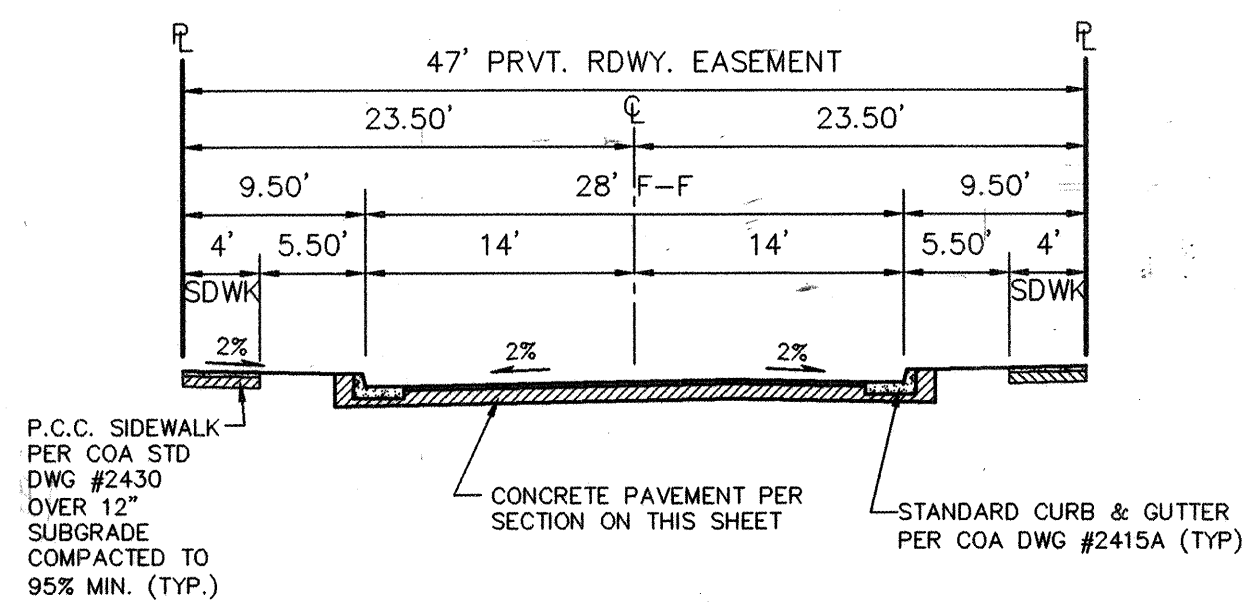
VILLA FIRENZE INFILL SOLUTIONS

GRADING AND DRAINAGE PLAN

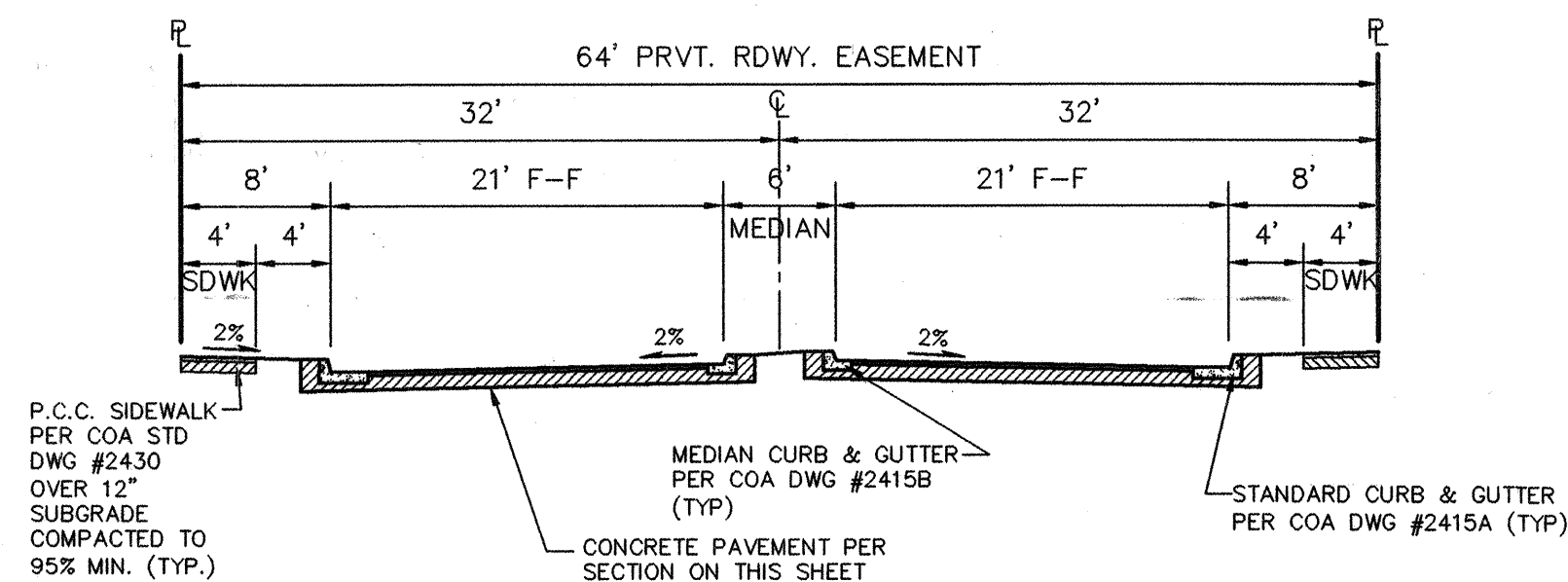
Date:	04/26/06	No.:	Revisions:	Date:	Job No.:
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Chk By:	FCA				PAGE
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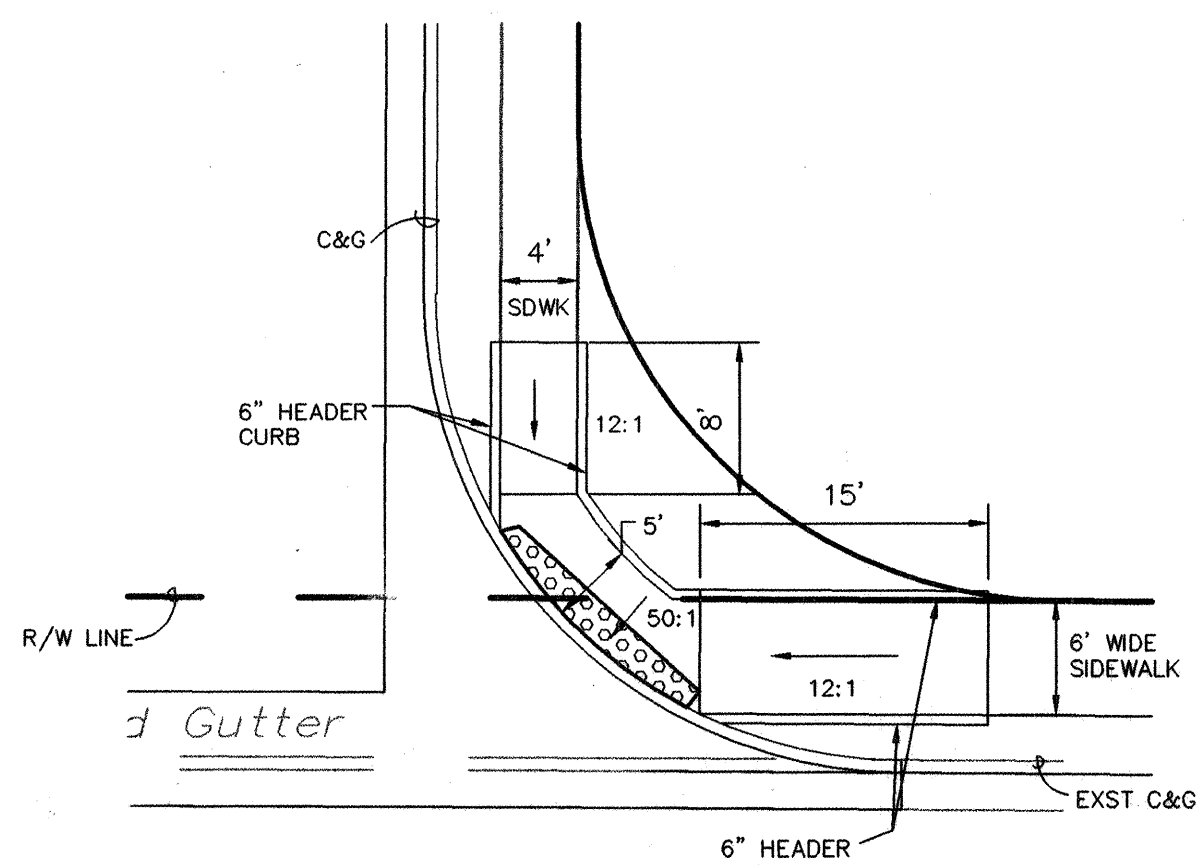
SECTION D1-D1
100' CUL-DE-SAC SECTION
1"=10'



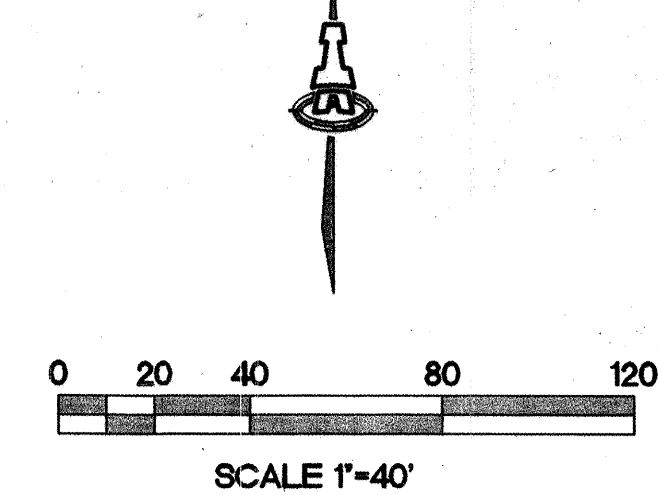
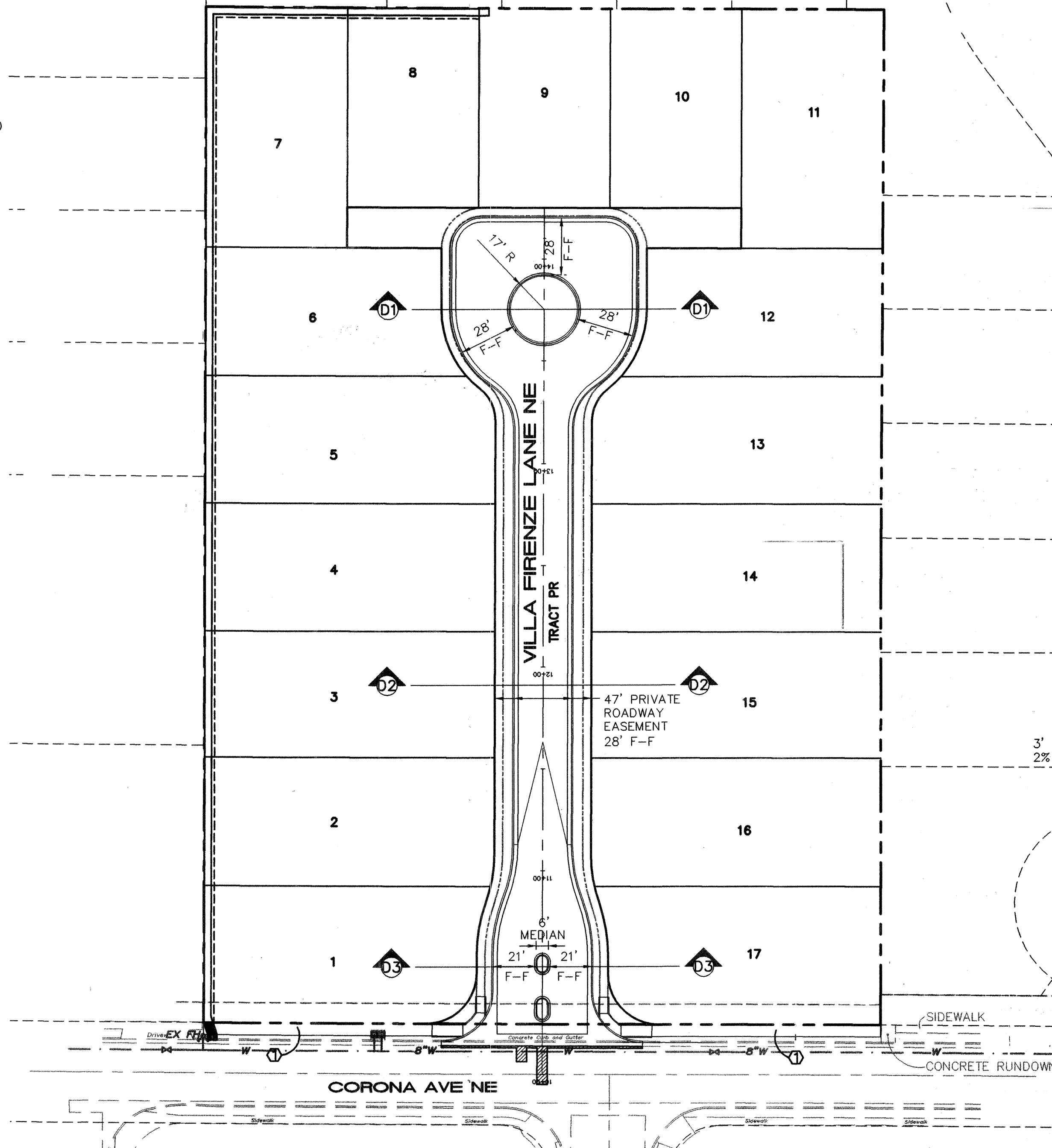
SECTION D2-D2
47' RESIDENTIAL STREET SECTION
1"=10'



SECTION D3-D3
64' ENTRANCE SECTION
1"=10'



WHEELCHAIR RAMP DETAILS
SCALE: 1"=10'

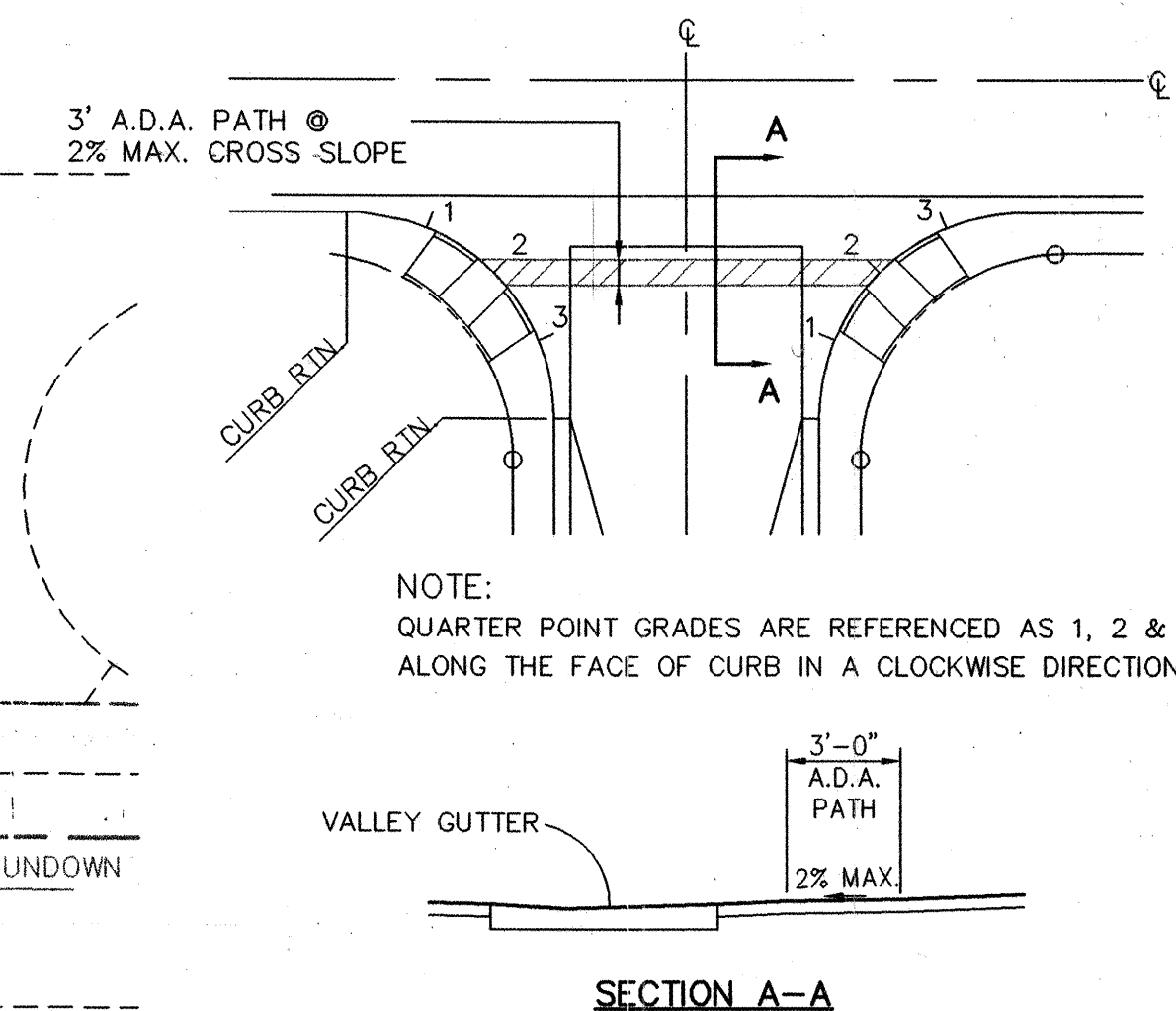


KEYED CONSTRUCTION NOTES

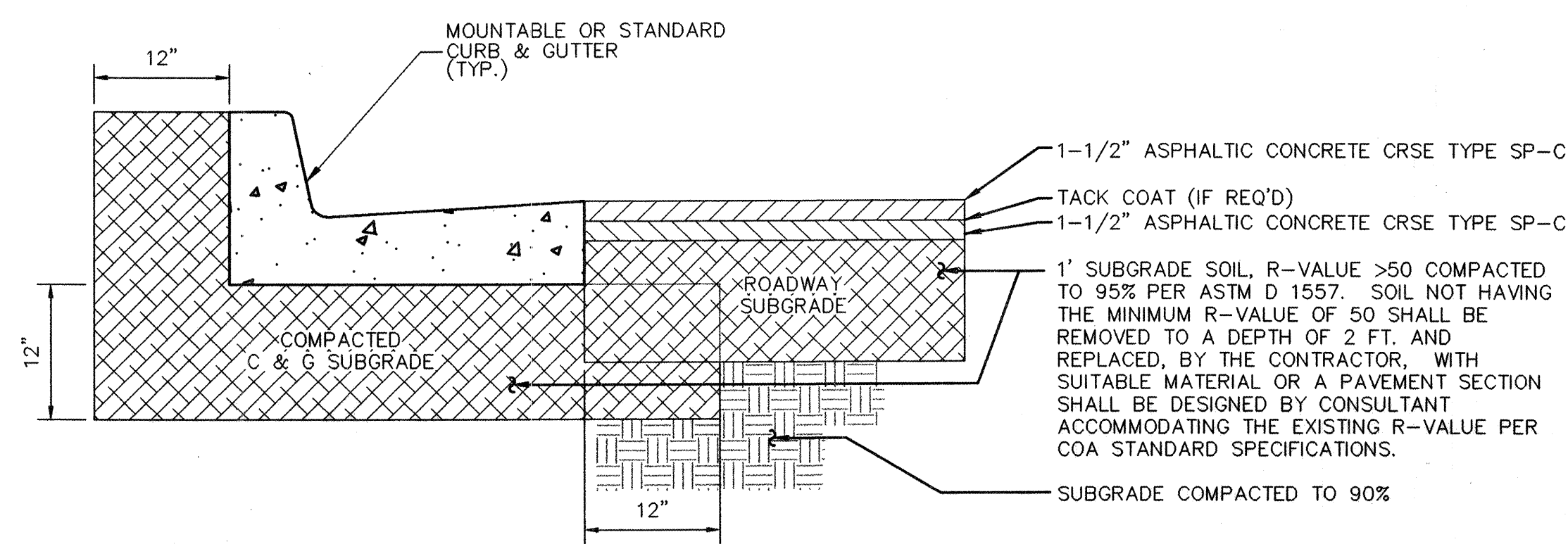
1. CONSTRUCT 6" PCC SIDEWALK ALONG NORTH RIGHT-OF-WAY OF CORONA AVE. PER COA STD DWG #2430.

LEGEND

- SAWCUT, REMOVE, & REPLACE EXISTING ASPHALT PER COA STD DWG #2465. SEE SHEET 8.
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- WHEEL CHAIR RAMP
- VALLEY GUTTER
- LOT NO.
- SIDEWALK BY OTHERS
- SIDEWALK THIS CONTRACT
- PROPOSED SIDEWALK CULVERT

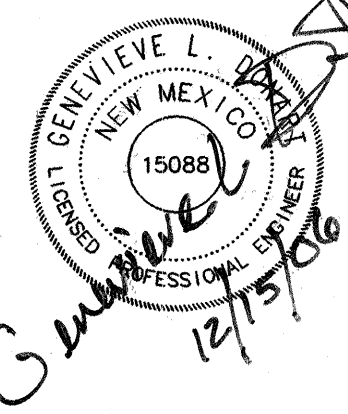


QUARTER POINT & ADA PATH DETAIL
NTS



ASPHALT PAVING SECTION
SCALE: 1"=1'-0"
(PER COA STD DWG # 2405A)

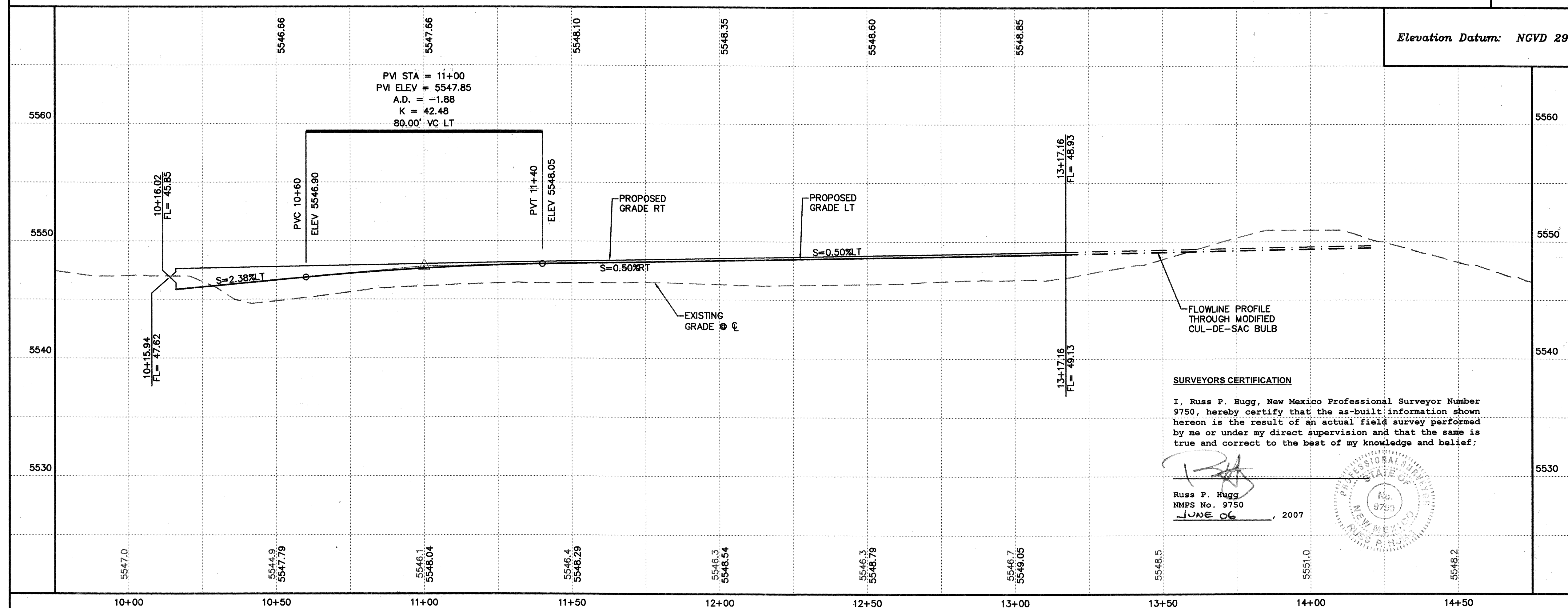
AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	STANDARD BY	DATE	INSPECTOR'S	STANDARD BY	DATE	FIELD VERIFICATION BY	DATE	FIELD NOTES	DATE	DATE	DATE	DATE	DATE	DATE	DATE
Vertical Datum is based upon the Albuquerque Control Survey Benchmark "5-C20", Elevation = 5552.709 (NGVD29)															
MICRO-FILM INFORMATION															
RECORDED BY	DATE	NO.		RECORDED BY	DATE	NO.		RECORDED BY	DATE	NO.		RECORDED BY	DATE	NO.	



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1526PMSTR.dwg Dec 14, 2006

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: VILLA FIRENZE SUBDIVISION MASTER PAVING PLAN			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
DEC 18 2006	JAN 16 2007		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
792681	C-20	5	9

	TC	FL
1	48.76	48.09
2	—	47.89
3	48.36	47.69

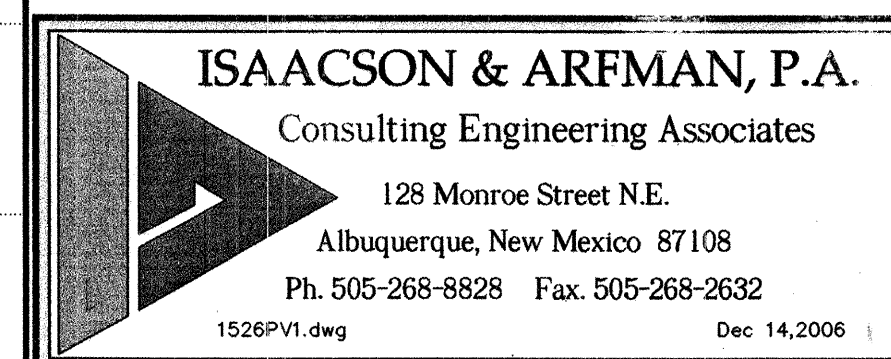


Elevation Datum: NGVD 29

FACE OF CURB CURVE TABLE

- | FACE OF CURB CURVE TABLE | | | |
|--------------------------|--------|--------|------------|
| CURVE | RADIUS | LENGTH | DELTA |
| FC1 | 25.00 | 39.39 | 96°18'08" |
| FC2 | 75.00 | 27.54 | 21°02'22" |
| FC3 | 75.00 | 27.54 | 21°02'22" |
| FC4 | 25.00 | 39.18 | 89°47'28" |
| FC5 | 75.00 | 27.54 | 21°02'22" |
| FC6 | 75.00 | 27.54 | 21°02'22" |
| FC7 | 25.00 | 24.50 | 56°08'30" |
| FC8 | 45.00 | 44.09 | 56°08'30" |
| FC9 | 15.00 | 23.56 | 90°00'00" |
| FC10 | 15.00 | 23.56 | 90°00'00" |
| FC11 | 25.00 | 24.50 | 56°08'30" |
| FC12 | 45.00 | 44.09 | 56°08'30" |
| FC13 | 3.00 | 9.42 | 180°00'00" |
| FC14 | 3.00 | 9.42 | 180°00'00" |
| FC15 | 3.00 | 9.42 | 180°00'00" |
| FC16 | 3.00 | 9.42 | 180°00'00" |

ISLAND/MEDIAN FL GRADE	
PT. NO.	ELEV.
1	49.93
2	50.06
3	50.19
4	50.40
5	50.27
6	50.13
7	50.01
8	49.80



	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP
TITLE:	VILLA FIRENZE SUBDIVISION VILLA FIRENZE LANE NE STA 10+00.00 TO PROFILE PAVING PLAN & PROFILE

Design Review Committee		City Engineer Approval		Last Design Update	Mo./Day/Yr.		Mo./Day/Yr.	
DEC 10 2006		JAN 10 2007						
DESIGN REVIEW COMMITTEE		CITY ENGINEER						
City Project No. 792681			Zone Map No. C-20		Sheet 6		Of 9	

ENGINEER'S SEAL	SURVEY INFORMATION	BENCH MARKS	AS-BUILT INFORMATION
	FIELD NOTES	Vertical Datum is based upon the Albuquerque Control Survey Benchmark "5-C20", Elevation = 5552.709 (NGVD29)	CONTRACTOR
			WORK STARTED BY <u>SURV-TEK</u>
			INSPECTOR'S ACCEPTANCE BY <u>SURV-TEK</u> DATE <u>6/6/06</u>
			VERIFICATION BY <u>SURV-TEK</u> DATE <u>6/6/06</u>
			EXAMINING ENGINEER BY <u>SURV-TEK</u> DATE <u>6/6/06</u>
			MICRO-FILM INFORMATION
			RECORDED BY
			DATE
			NO.

RESTRAINED JOINT LENGTHS, L _r , FOR TEES, (FT.) ALL JOINTS AT THE TEE MUST BE RESTRAINED.		
SIZE	RUN	BRANCH
12x12x12	15	17
12x12x10	10	18
12x12x8	6	19
12x12x6	3	19
12x12x4	1	19
10x10x10	12	18
10x10x8	8	15
10x10x6	4	15
10x10x4	2	4
8x8x8	9	20
8x8x6	5	17
8x8x4	2	15
6x6x6	6	20
6x6x4	2	20

THIS TABLE IS BASED UPON THE FOLLOWING CRITERIA:

DEPTH OF BURY 3.0 FT. MINIMUM
FACTOR OF SAFETY 1.25
MATERIAL PVC PIPE
SOIL TYPE GM/SM - SILTY GRAVELS AND SILTY SANDS,
GRAVEL-SAND-SILT MIXTURES.
TEST PRESSURE 150 PSI
TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED
STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4 INCH
MINIMUM; BACKFILL COMPACTED TO TOP OF PIPE.

DIFFERENT CRITERIA, E.G., DUCTILE IRON PIPE, GREATER DEPTH OF BURY,
ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS. THESE MUST BE
CALCULATED BY A QUALIFIED PROFESSIONAL ENGINEER AND APPROVED
BY THE PUBLIC WORKS DEPARTMENT.

RESTRAINED JOINT LENGTHS FOR WATERLINE FITTINGS

RESTRAINED JOINT LENGTHS, L _r , FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS, (FT.)					
SIZE	HORZ. BENDS				
	90°	45°	22 1/2°	11 1/4°	VALVES & DEAD ENDS
12	30	12	6	3	85
10	26	11	5	3	72
8	22	9	4	2	60
6	17	7	3	2	46
4	12	5	2	1	32

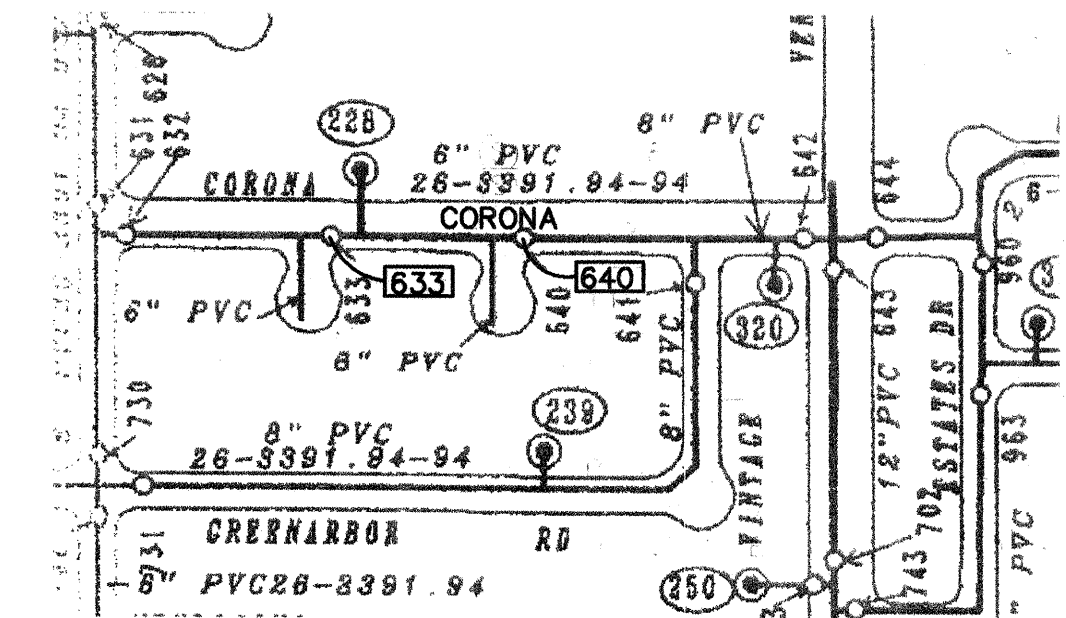
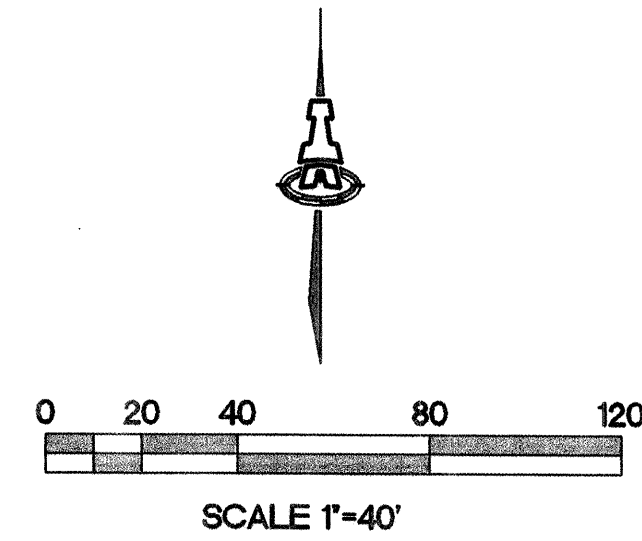
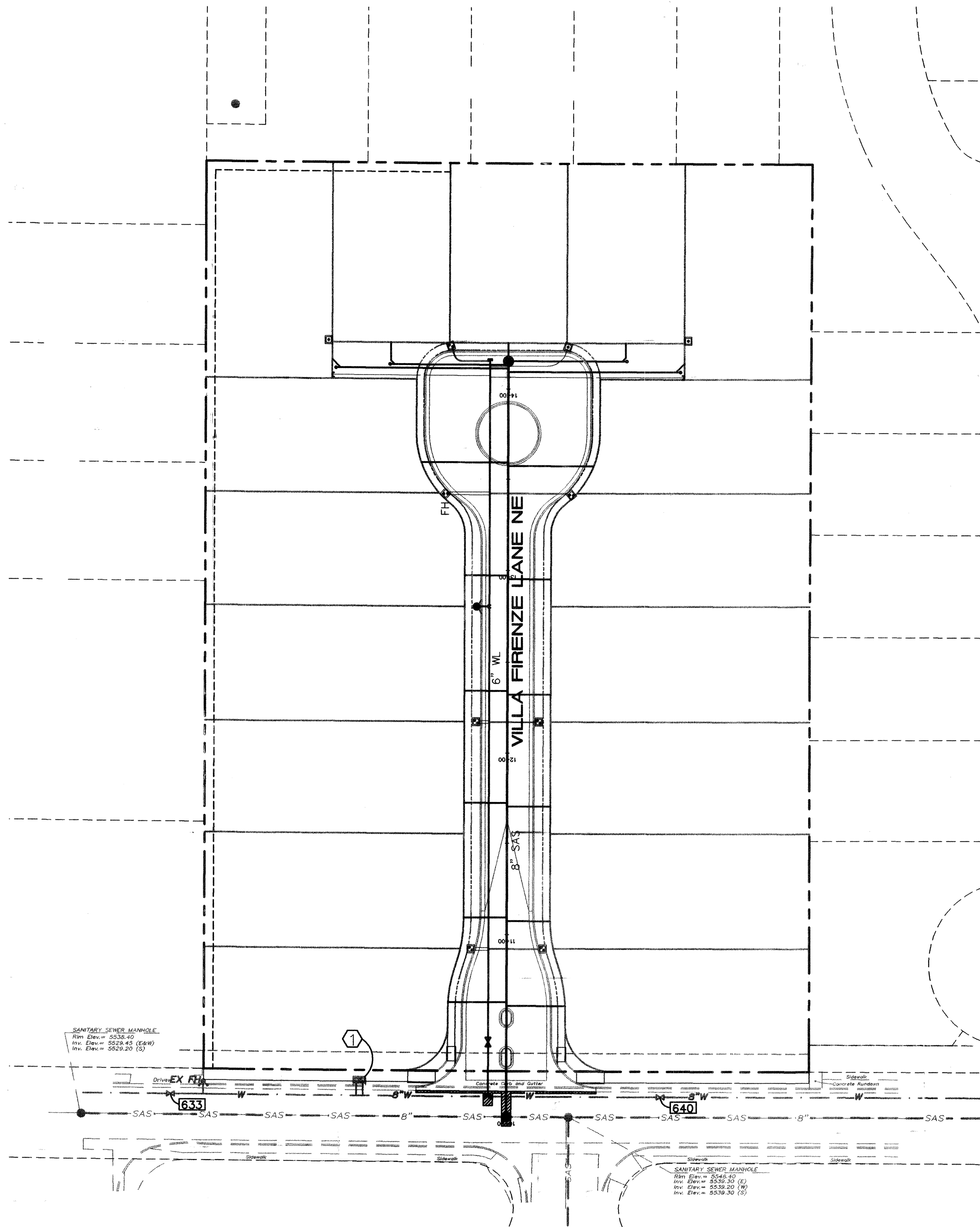
RESTRAINED JOINT LENGTHS, L _r , FOR REDUCERS, (FT.) MINIMUM UNOBSTRUCTED, STRAIGHT-RUN LENGTH: RESTRAIN EITHER LARGE PIPE, OR SMALL PIPE.					
SIZE	LARGE SIDE	SMALL SIDE	SIZE	LARGE SIDE	SMALL SIDE
12x10	25	30	10x6	44	73
12x8	45	68	10x4	58	141
12x6	62	121	8x6	25	33
12x4	74	213	8x4	43	83
10x8	24	30	6x4	24	35

NOTES:

- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

KEYED CONSTRUCTION NOTES

- EXST WATER SERVICES TO BE REMOVED TO CORP STOP. TURN OFF CORP STOP.



WATER SHUT-OFF PLAN

SHUT-OFF VALVES 633 & 640 TO PROVIDE NON-PRESSURE CONNECTION. THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857-8200) 7 WORKING DAYS PRIOR TO SHUT-OFF OR TURN-ON AT VALVES. ONLY CITY PERSONNEL ARE ALLOWED TO OPERATE VALVES.

LEGEND

- PROPOSED SINGLE WATER METER & BOX
- PROPOSED DOUBLE WATER METER & BOX
- PROPOSED GATE VALVE W/ VALVE BOX
- FIRE HYDRANT
- SAS MANHOLE
- WATER LINE W/ FITTING
- SAWOUT, REMOVE, & REPLACE EXISTING ASPHALT PER COA STD DWG #2465. SEE SHEET 8.

ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

128 Monroe Street N.E.

Albuquerque, New Mexico 87108

Ph. 505-268-8828 Fax. 505-268-2632

1526UMSTR.dwg Nov. 07, 2006

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: VILLA FIRENZE SUBDIVISION MASTER UTILITY PLAN	
Design Review Committee APPROVED DEC 19 2005 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JAN 10 2007 CITY ENGINEER
City Project No. 792681	Zone Map No. C-20
Sheet 7	Of 9

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	DATE	CONTRACTOR	DATE	CONTRACTOR	DATE	CONTRACTOR	DATE	CONTRACTOR	DATE	CONTRACTOR	DATE
WORK	DATE	WORK	DATE	WORK	DATE	WORK	DATE	WORK	DATE	WORK	DATE
STATIONED BY	DATE	STATIONED BY	DATE	STATIONED BY	DATE	STATIONED BY	DATE	STATIONED BY	DATE	STATIONED BY	DATE
FIELD	DATE	FIELD	DATE	FIELD	DATE	FIELD	DATE	FIELD	DATE	FIELD	DATE
ADJUSTED BY	DATE	ADJUSTED BY	DATE	ADJUSTED BY	DATE	ADJUSTED BY	DATE	ADJUSTED BY	DATE	ADJUSTED BY	DATE
REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE
MICRO-FILM	DATE	MICRO-FILM	DATE	MICRO-FILM	DATE	MICRO-FILM	DATE	MICRO-FILM	DATE	MICRO-FILM	DATE
RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

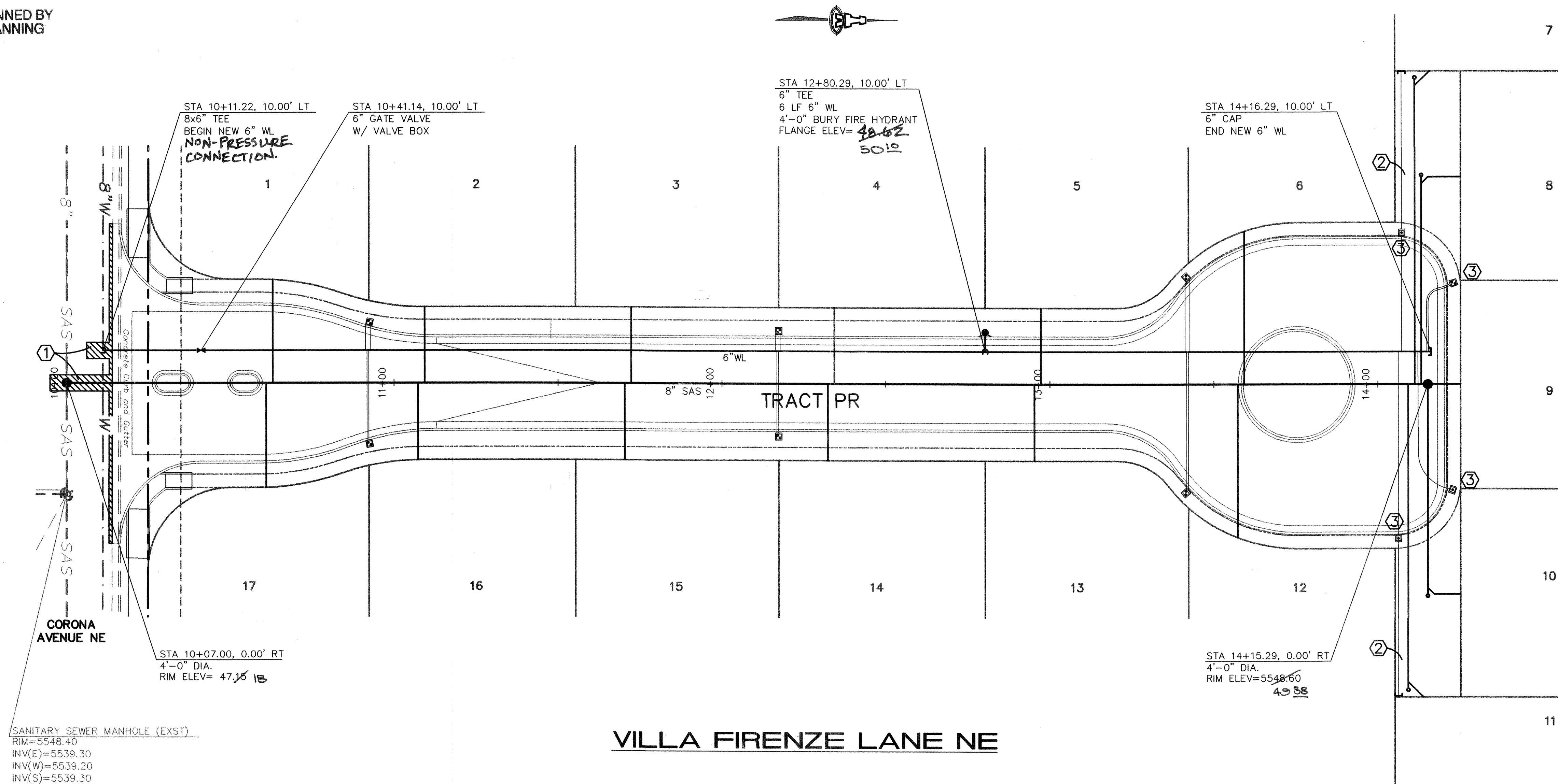
Vertical Datum is based upon the Albuquerque Control Survey Benchmark "5-C20", Elevation = 5552.709 (NGVD29)

15088

Guerrero 11/7/06

DESIGNED BY FCA
DRAWN BY thor
CHECKED BY FCA

DATE xx/xx/xx
DATE xx/xx/xx
DATE xx/xx/xx



VILLA FIRENZE LANE NE

SCALES:
1"=20' HOR.
1"=5' VERT.

GENERAL NOTES

- CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
- CONSTRUCT ALL SINGLE & DOUBLE 3/4" WATER SERVICES PER COA STD DWG #2361, #2362, & #2363.
- SEE SHEET #7 FOR WATER SHUT-OFF PLAN.
- SEE SHEET #7 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
- CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
- SEE COA STD DWG #2328 FOR VALVE RING & COVER DETAIL.

UTILITY SERVICE TABLE

LOT NO.	STATION		SAS INV @ R/W
	WATER, LENGTH	SAS, LENGTH	
1	10+92.29, 7.6'	10+63.00, 32'	42.11
2		11+09.29, 23.5'	42.86
3	12+17.29, 5.1'	11+72.29, 23.5'	43.21
4		12+34.29, 23.5'	43.52
5	13+42.29, 22.4'	12+97.29, 23.5'	43.83
6		13+59.29, 45'	44.33
7 (S)	14+08.29, 36'	14+11.29, 98'	44.43
8	14+22.10, 25.2'	14+13.29, 75'	44.43
9		14+15.29, 10'	44.70
10*	14+21.89, 46.9'	14+15.29, 73'	44.85
11 (S)	14+07.29, 56'	14+09.29, 98'	44.85
12		13+57.29, 45'	44.45
13	13+42.29, 42.4'	12+95.29, 23.5'	44.02
14	12+17.29, 25.1'	12+32.29, 23.5'	43.71
15		11+70.29, 23.5'	43.40
16	10+92.29, 27.6'	11+07.29, 23.5'	43.08
17		10+61.00, 32'	42.85

ALL WATER SERVICES ARE DOUBLE EXCEPT WHERE NOTED AS (S) SINGLE.
* BRING SAS SERVICE INTO MH PER COA STD DWG # 2118.

KEYED CONSTRUCTION NOTES

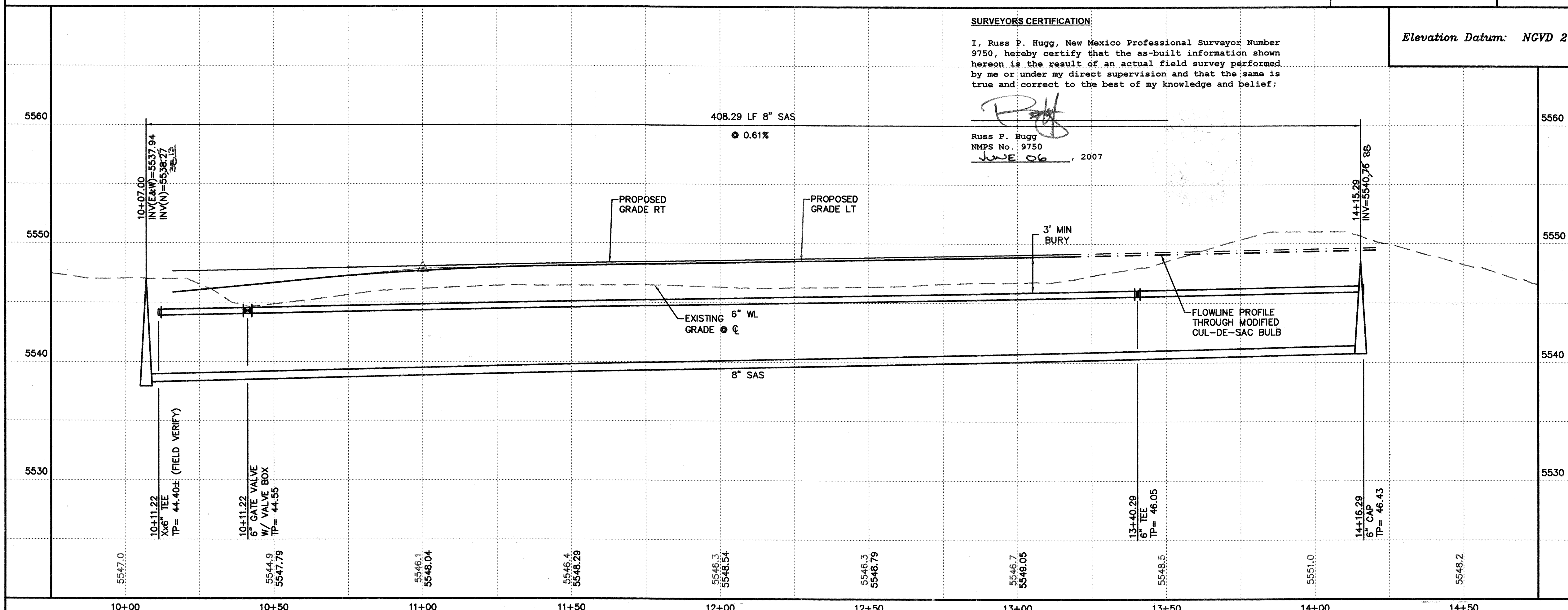
- SAWCUT, REMOVE & REPLACE EXISTING ASPHALT WITH 2" ADDITIONAL THICKNESS PER COA STD DWG #2465.
- 1" WATER SERVICE LINE FROM METER TO LOTS 7 & 11. **ALL OTHERS 3/4"**.
- HEAVYWEIGHT METER BOX AND LID PER COA STD DWG #2369.

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief;

Russ P. Hugg
NMPS No. 9750
JUNE 06, 2007

Elevation Datum: NGVD 29



ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 Fax. 505-268-2632
1526UT1.dwg Nov 07,2006

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: VILLA FIRENZE SUBDIVISION- VILLA FIRENZE LANE NE STA 10+00.00 TO END UTILITY PLAN & PROFILE	
Design Review Committee DEC 19 2006	City Engineer Approval JAN 10 2007
City Project No. 792681	Zone Map No. C-20
Sheet 8	Of 9

The plan view shows a horizontal alignment of a drainage system. Key features include:

- Culverts:** Four culverts are shown, labeled 1 through 4. Culvert 1 has a length of 10'-0".
- Manholes:** Manholes are indicated by circles with crosshair patterns. They are numbered 1 through 8.
- Inverts and Elevations:** Numerous invert elevations are provided at various points along the system. Examples include:
 - At STA 9+91.20: INV= 46.5
 - At STA 10+00.00: INV= 47.5, 47.4, 47.9, 48.2, 47.9, 48.1, 48.6, 47.9, 48.4, 48.2, 48.7
 - At STA 12+00.00: INV= 47.0, 47.5, 47.0, 47.2, 47.7, 49.4, 49.0
 - At STA 14+98.03: INV= 48.0, 47.0, 46.0, 46.5, 47.2, 47.7, 49.0
- Flow Paths:** Arrows indicate the direction of flow from left to right.
- Notes and Callouts:**
 - "TIE: STA 10+00.00= BOUNDARY CORNER"
 - "SEE SECTION ON SHEET 4" (multiple locations)
 - "5' PRIVATE DRAINAGE EASEMENT GRANTED BY FINAL PLAT."
 - "STA 9+91.20, 7.33' RT BEGIN 2'-18\" SIDEWALK CULVERTS PER COA STD DWG #2263 & DETAIL ON THIS SHEET INV= 40.64"
 - "STA 10+00.00, 0.00' RT END SIDEWALK CULVERTS BEGIN CONCRETE RUNDOWN PER SECTION A-A ON SHEET 4. INV= 40.82"
 - "STA 12+00.00, 0.00' RT TRANSITION FROM SECTION A-A TO C-C OVER 10'
 - "STA 14+98.03, 0.00' RT Q Z PT"
 - "STA 16+36.00, 0.00' RT END CONCRETE RUNDOWN"

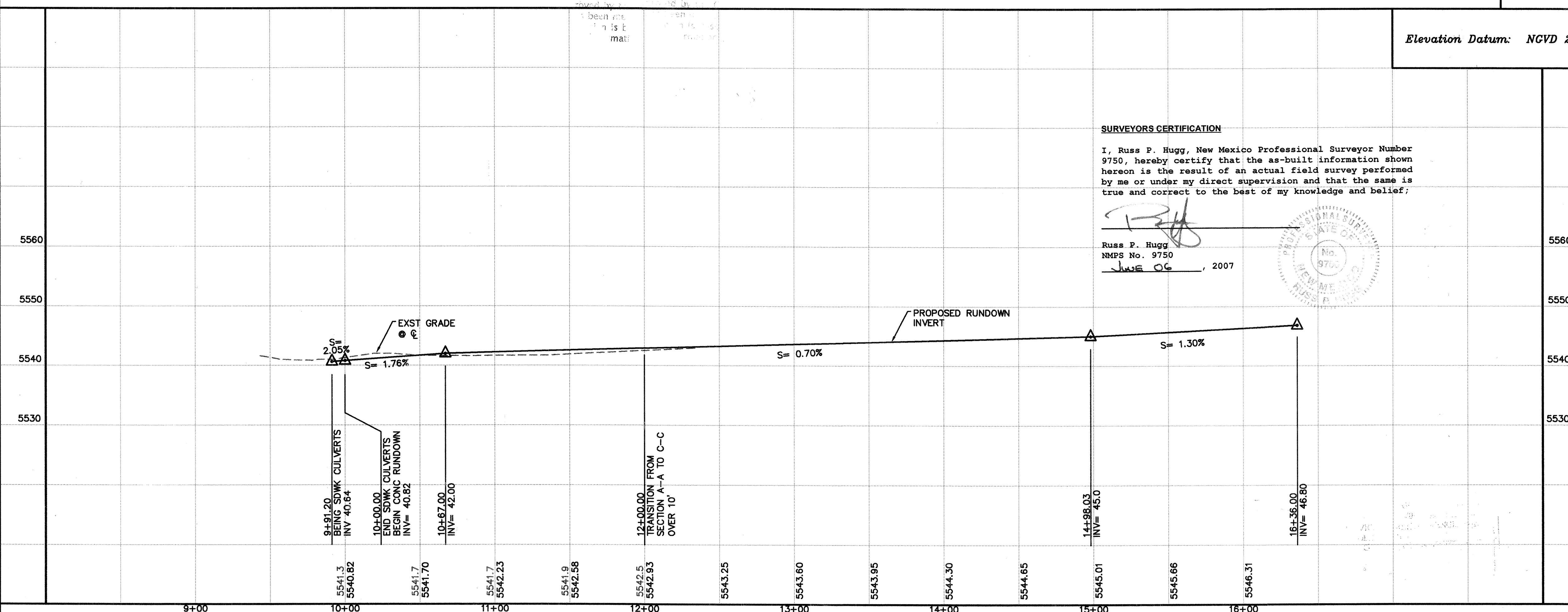


SCALES:
1"=40' HOR.
1"=10' VERT.

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief;

Russ P. Hugg
NMPS No. 9750
June 06, 2007



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1526SD1.dwg Nov 07, 2006

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **VILLA FIRENZE SUBDIVISION
VILLA FIRENZE LANE NE
STA 10+00.00 TO END
UTILITY PLAN & PROFILE**

Design Review Committee

DEC 19 2006

DESIGN
REVIEW COMMITTEE

City Engineer Approval

JAN 16 2007

CITY ENGINEER

City Project No. **792681**

Zone Map No.
C-20

Sheet **9** Of **9**