

2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-75891-81-001

PUBLIC IMPROVEMENT PLANS
FOR
EMBUDO CANYON NORTH
SUBDIVISION
ALBUQUERQUE, NEW MEXICO

APRIL 2005

PREPARED FOR:
LOS CANDELARIAS, LLC.
723-B SILVER AVE. SW
ALBUQUERQUE, NM 87102

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

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CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. D. Niese 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 Aldrich Land Surveying, NMPS number 7719

Amy L. D. Niese, PE

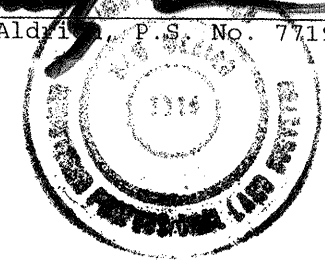
NMPE No. 15334



SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief." Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Timothy Aldrich, No. 7719



12-07-05

Date

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
Bryan Wolfe P.E.
DATE: 12/15/2006

RECORD DRAWING

DRB NO. 1003822

ISAACSON & ARFMAN, P.A.

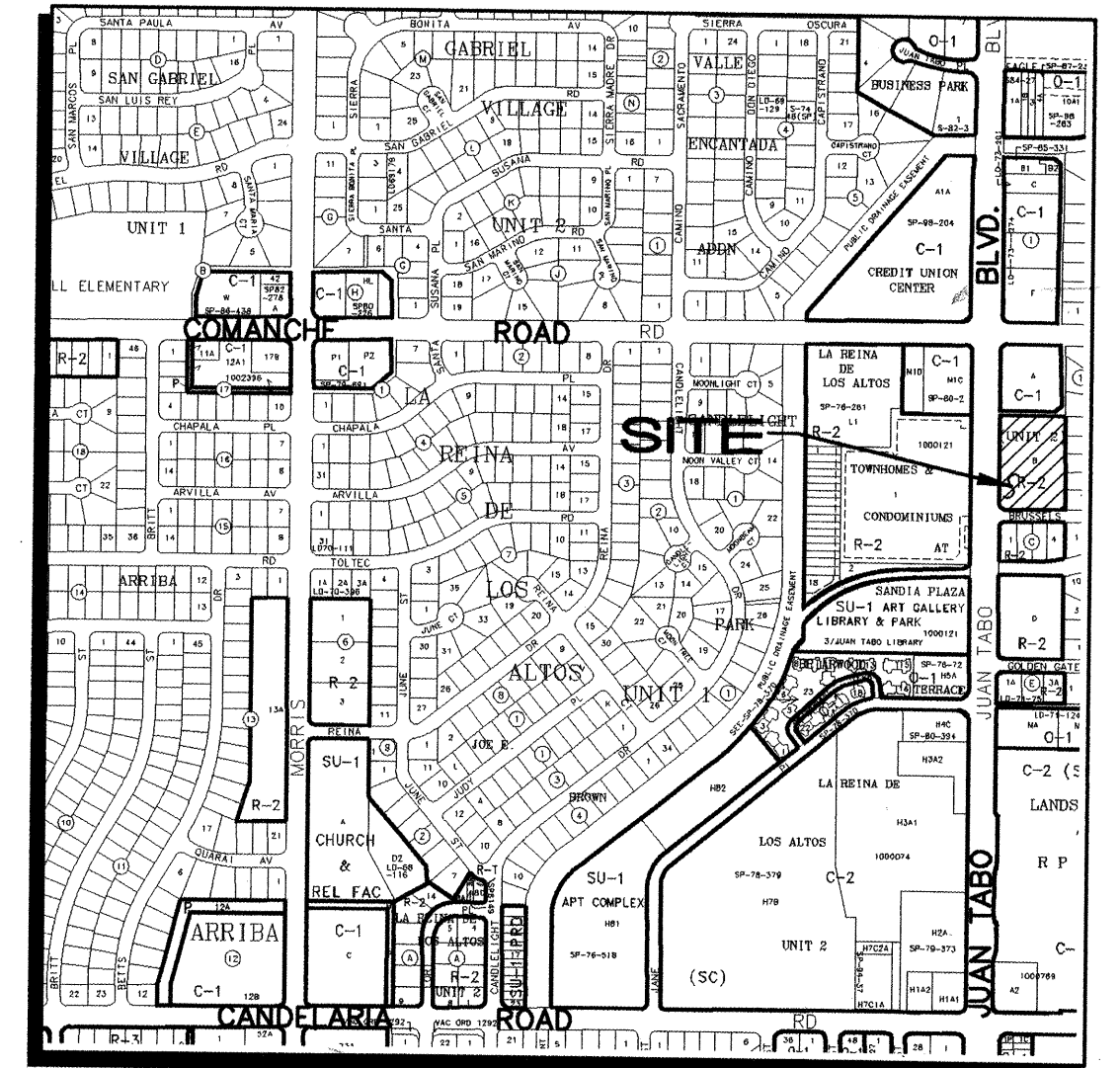
Consulting Engineering Associates

128 Monroe Street N.E.

Albuquerque, New Mexico 87108

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

1411.01.CVR.DWG.DLP 04.14.05



G-21 & G-22

VICINITY MAP

1"=750'±

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.
- 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 BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE 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 90% 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").
- ALL SANITARY SEWER LINE STATIONING REFERS TO SANITARY SEWER CENTERLINE STATIONING.
- ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATER-LINE AND/OR SEWERLINE 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.
- THE 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.
- 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 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 ANY 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.
- 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.

REV.	8	CITY ENGINEER	DATE	12-01-06	WILLIAM P. BALEH	11/30/06
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****		
	DRC Chairman	5-10-05	APPROVED FOR CONSTRUCTION			
	Transportation	4/27/05	Date			
	Water/Wastewater	4/27/05	Date			
	Hydrology	4/27/05	Date			
	AMAFCA	4/27/05	Date			
Constr. Mngmt.	5-10-05	Date				
Constr. Coord.	5-10-05	Date				
City Project No.	758981	Sheet	1	Of	9	

JUAN TABO BLVD. NE
(106' R/W)

20' ALLEY

LOT 5
BLOCK 1
HOLIDAY PARK
UNIT 3

LOT 4
BLOCK 1
HOLIDAY PARK
UNIT 3

LOT 3
BLOCK 1
HOLIDAY PARK
UNIT 3

LOT 2
BLOCK 1
HOLIDAY PARK
UNIT 3

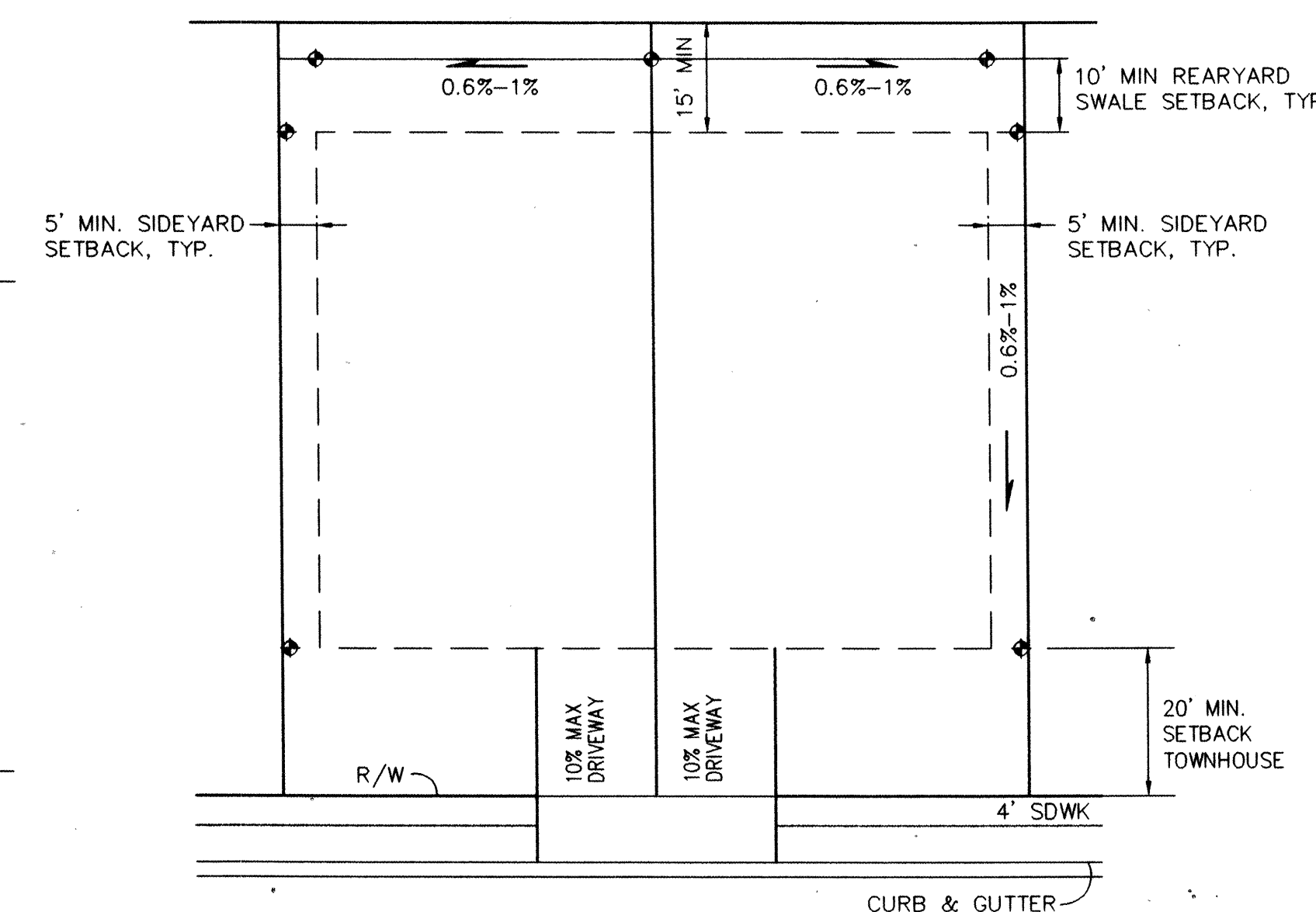
LOT 1
BLOCK 1
HOLIDAY PARK
UNIT 3

AGUA SARCA CT NE (44' R/W)

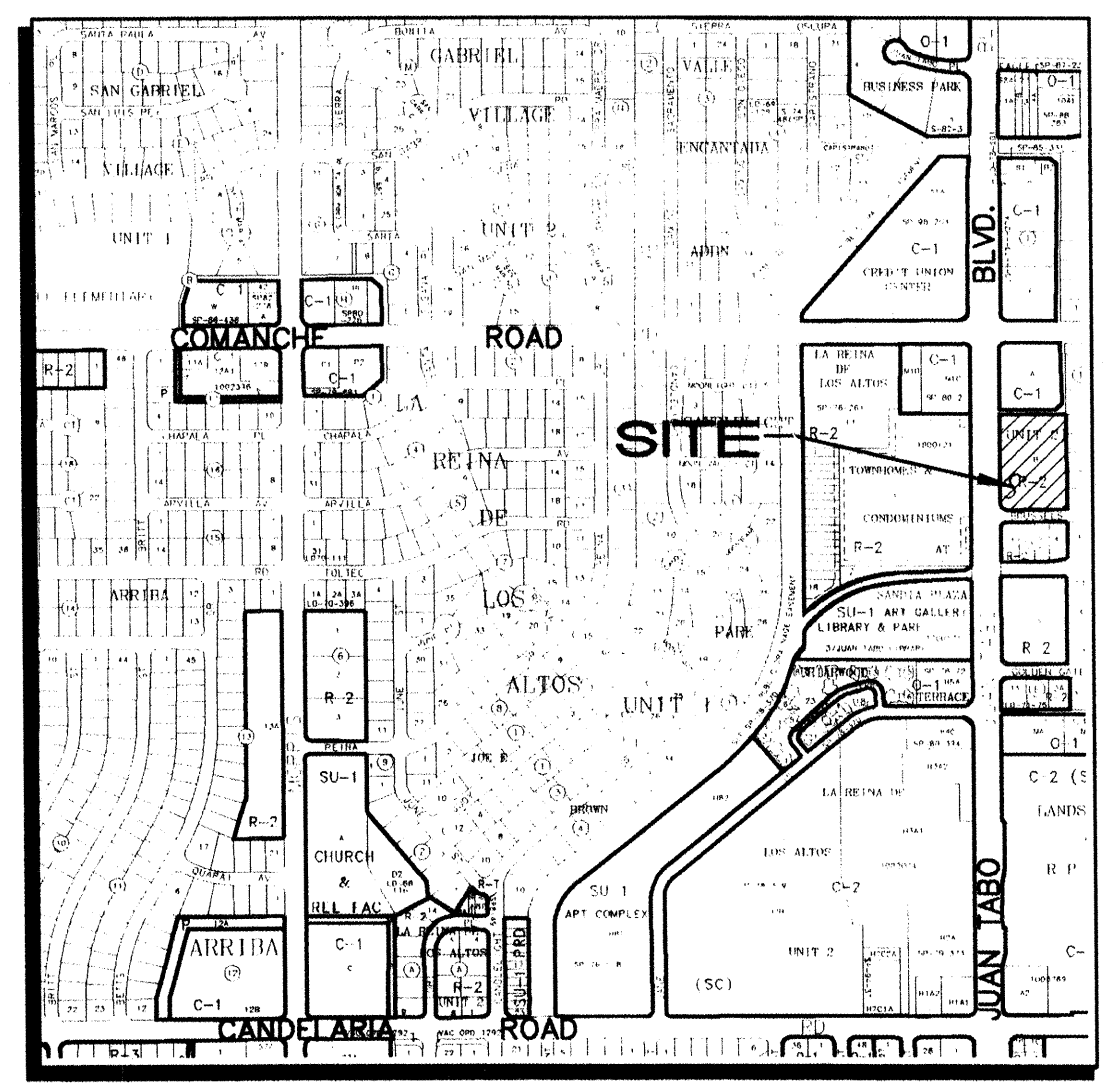
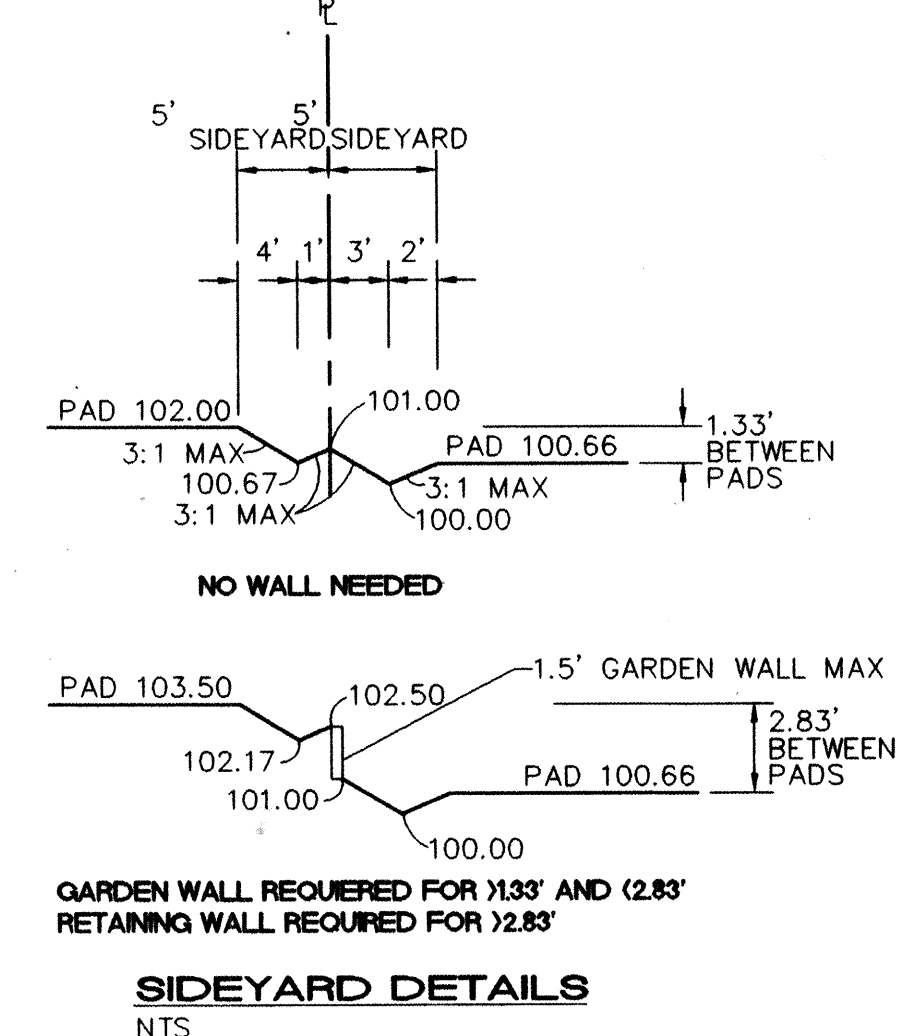
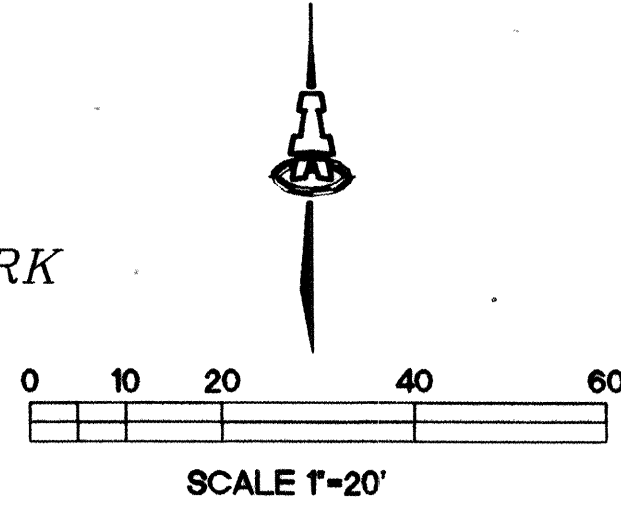
BRUSSELS AVE. NE
(50' R/W)

GRADING NOTES:

- ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OFFSITE.
- ALL SUBGRADE AND FILL SHALL BE COMPACTED TO A MINIMUM OF 90% ASTM D-1557.
- EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIALS ENCOUNTERED.
- CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN ON PLANS WITHIN A TOLERANCE OF 0.3± FEET.
- SCARIFY AND COMPACT SUBGRADE FOR FILLS. PLACE FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. MOISTEN AS NECESSARY TO PROVIDE OPTIMUM MOISTURE (±2%) CONTENT.
- UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS SHOWN ON PLAN. SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCE, COMPACT WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE INDICATED.
- MAXIMUM SLOPES SHALL BE 3:1 MINIMUM SLOPES SHALL BE 0.6%.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND 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, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- OWNER WILL PROVIDE SOIL TESTING AND INSPECTION SERVICES DURING EARTHWORK OPERATIONS. CONTRACTOR SHALL ALLOW TESTING SERVICE TO INSPECT AND APPROVE COMPACTED SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS DONE. SHOULD COMPACTION TESTS INDICATE INADEQUATE DENSITY, CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION AND TESTING AT NO ADDITIONAL EXPENSE.
- OWNER HAS ESTABLISHED SUBDIVISION BOUNDARY CORNERS. CONTRACTOR SHALL PROVIDE ALL OTHER CONSTRUCTION STAKING INCLUDING TRACT CORNERS. CONTRACTOR SHALL LOCATE AND PRESERVE ALL BOUNDARY CORNERS AND REPLACE ANY LOST OR DISTURBED CORNERS.
- OWNER WILL PROVIDE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND INSPECTION. CONTRACTOR SHALL COMPLY WITH THE BEST MANAGEMENT PRACTICES (BMP'S) AS SPECIFIED IN THE SWPPP, AND WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.



TYPICAL LOT GRADING
SCALE: 1"=20'



VICINITY MAP
1"=750'±

GENERAL NOTES

- SEE GEOTECHNICAL REPORT BY FLORENTINO ENGINEERING FOR STRUCTURAL FILL REQUIREMENTS.
- SEE THIS PLAN FOR RETAINING WALL ELEVATION REQUIREMENTS. SEE ARCHITECT'S PLAN FOR PERIMETER WALL (GARDEN WALL) DETAILS. RETAINING WALLS SHALL BE DESIGNED BY STRUCTURAL ENGINEER.

LEGAL

A tract of land situate within Section 3, Township 10 North, Range 4 East, NMPM, Bernalillo County, Albuquerque, New Mexico, being all of Tract B as the same is shown and designated on The Plat of Holiday Park Addition filed for record in the office of County Clerk of Bernalillo County, New Mexico on January 31, 1963 recorded in Volume C5, Folio 146 and containing 2.0933 acres (91,182.93 sf), more or less.

ACS BENCHMARK

"17-G21"
ELEVATION: 5655.34

SURVEY INFO

DATE: FEBRUARY 2005
PERFORMED BY: TIM ALDRICH, ALDRICH LAND SURVEYING

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- FLOW ARROW
- FF = 6881.0 FINISH FLOOR ELEVATION
- SIDEWALK CULVERT
- TOP OF CURB ELEVATION
- AREA DRAIN
- INVERT ELEVATION
- DRAIN LINE WITH SIZE
- STORM DRAIN MANHOLE
- RETAINING WALL
- GARDEN WALL

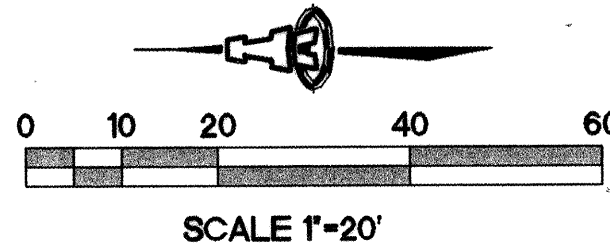
ISAACSON & ARFMAN, P.A.
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Ph. 505-268-8828 Fax. 505-268-2632
1411.01 GPD.DWG:thor 02.23.05

**EMBUDO CANYON NORTH
SUBDIVISION**
Infill Solutions, I

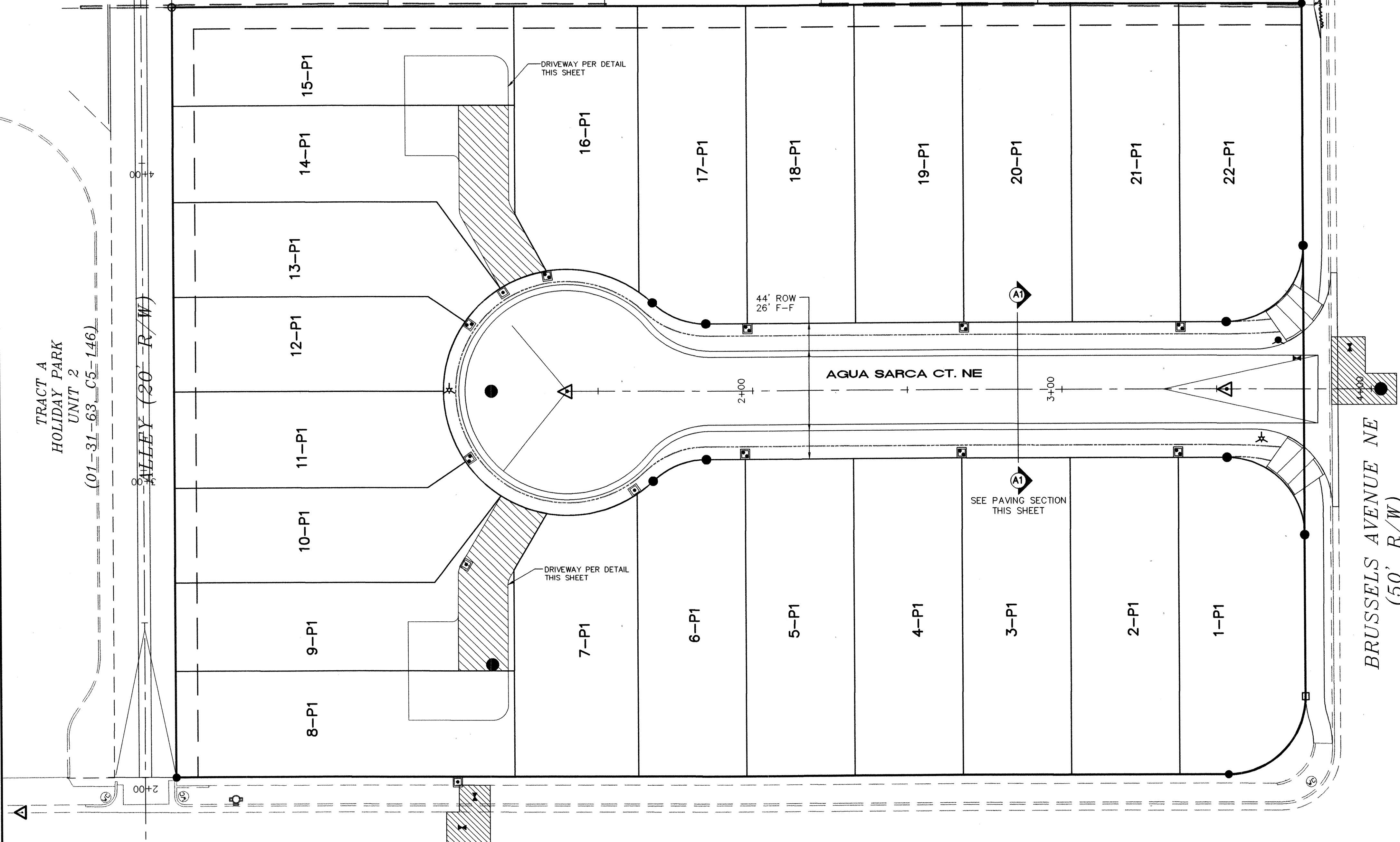
GRADING & DRAINAGE PLAN

Checked By: ALDN	Drawn By: thor	No. 1411.01	Revision 02/24/05	PAGE 311 OF 1
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HOLIDAY PARK
UNIT 3
(08-08-63, D3-74)

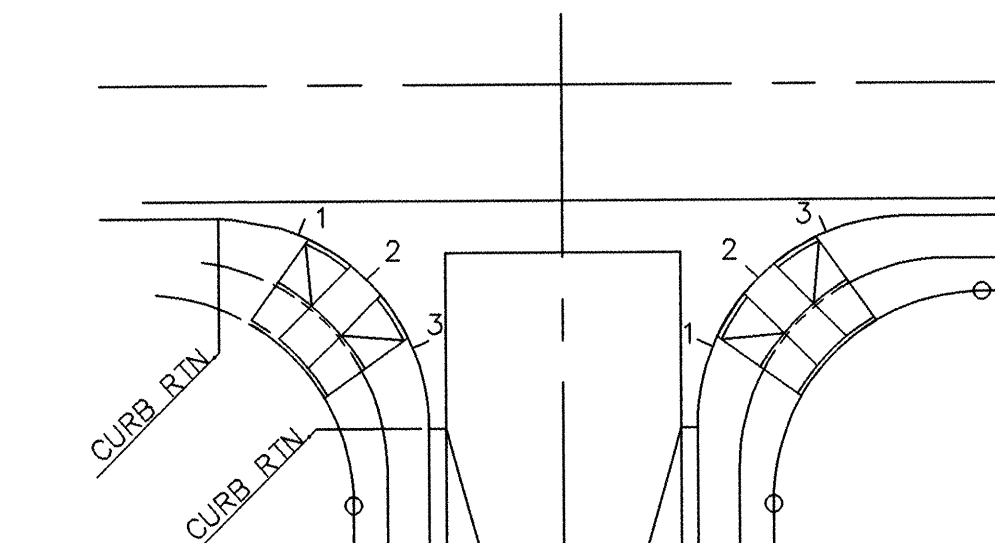


LOT 6 LOT 5 LOT 4 LOT 3 LOT 2 LOT 1



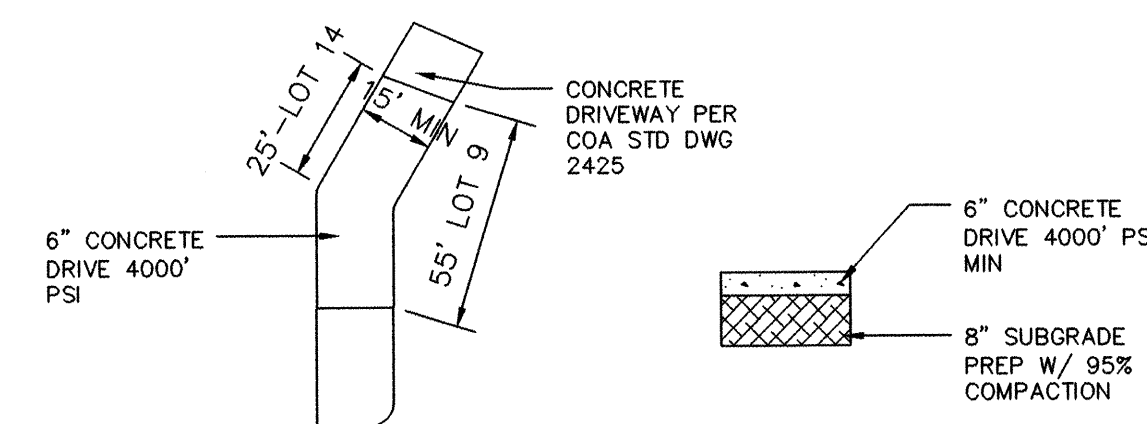
LEGEND

- EXISTING CONCRETE CURB/GUTTER
- PROPOSED STREET IMPROVEMENTS
- PROPOSED WHEEL CHAIR RAMP
- VALLEY GUTTER
- BLOCK NO.
- LOT NO.
- PROPOSED STREET LIGHT
- STORM DRAIN CATCH BASIN
- STORM DRAIN MANHOLE
- EXISTING WHEELCHAIR RAMP
- SIDEWALK BY OTHERS
- SIDEWALK THIS CONTRACT
- PAVEMENT R&R
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT



NOTE:
QUARTER POINT GRADES ARE REFERENCED AS 1, 2, & 3
ALONG THE FACE OF CURB IN A CLOCKWISE DIRECTION.

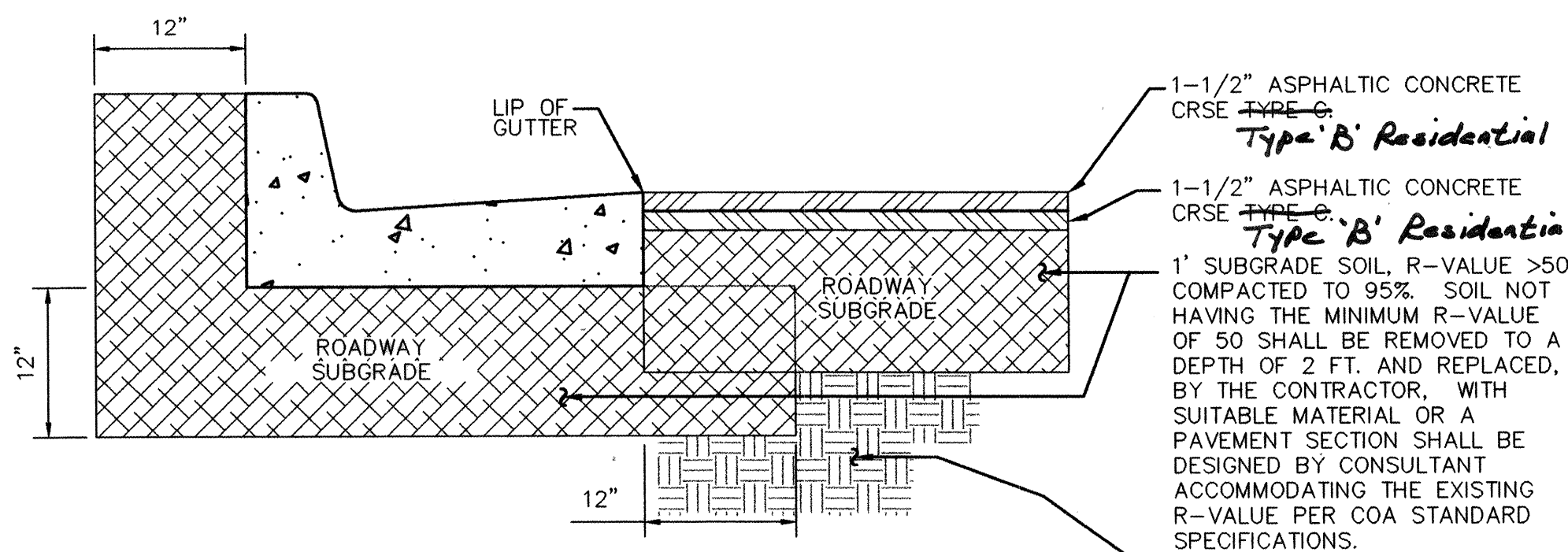
QUARTER POINT DETAIL
NTS



DRIVEWAY DETAIL
NTS

JUAN TABO BOULEVARD NE
(106' R/W)

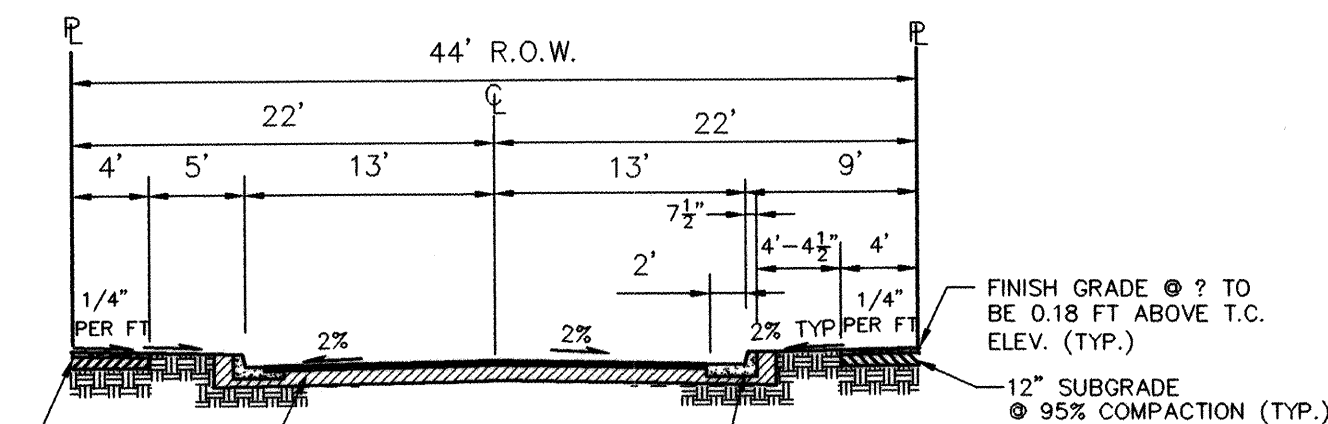
RECORD DRAWING



RESIDENTIAL PAVING SECTION

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

SUBGRADE COMPACTED TO 90%



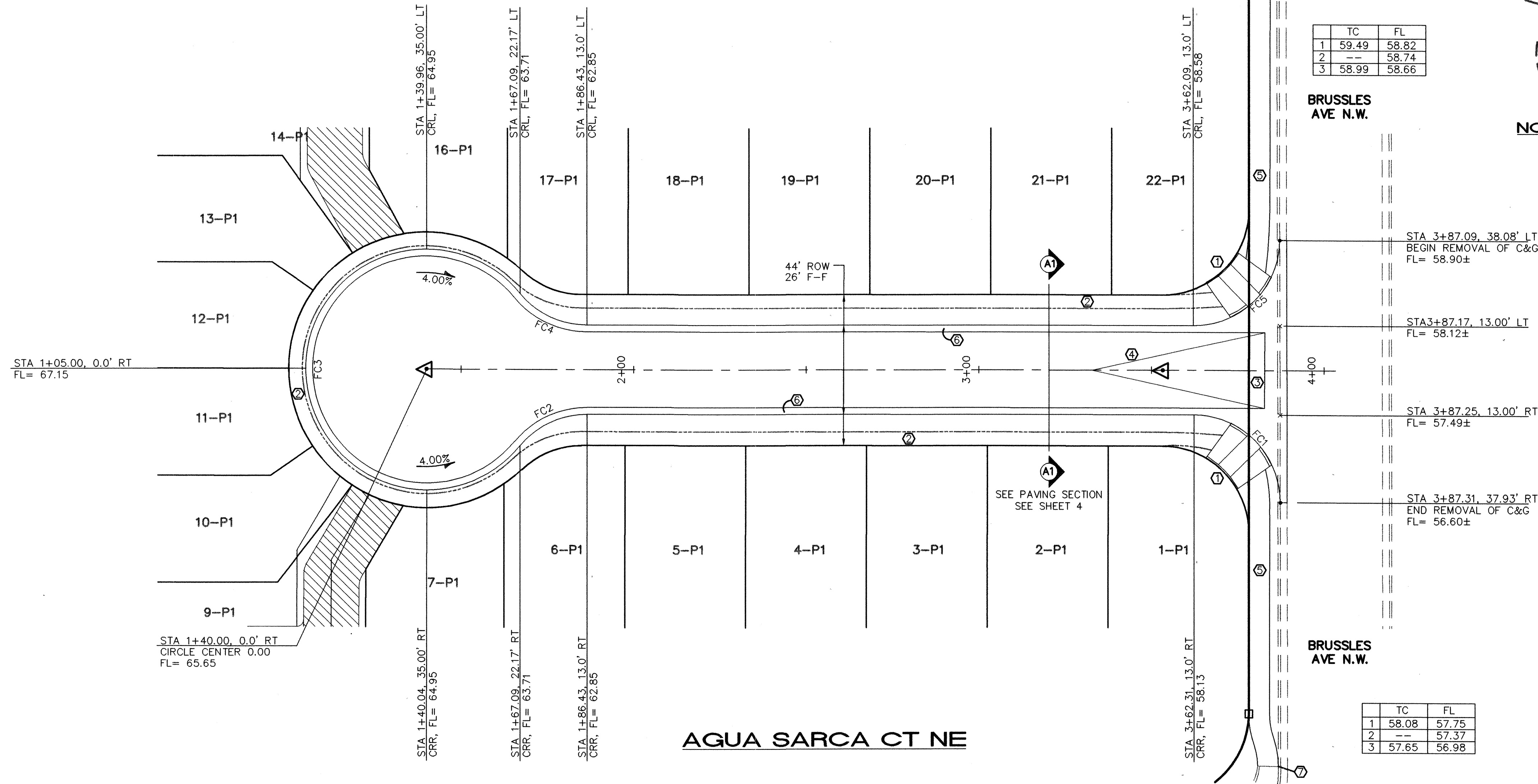
SECTION A1-A1

TYPICAL 46' R.O.W. RESIDENTIAL STREET SECTION

1"=10'

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1411.01PMSTR.DWGdlp 04/12/05

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: EMBUDO CANYON NORTH SUBDIVISION MASTER PAVING PLAN	
Design Review Committee APPROVED MAY 13 2005 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JUL 13 2005 CITY ENGINEER
City Project No. 758981	Zone Map No. G-21&G-22
Sheet 4	Of 9



	TC	FL
1	59.49	58.82
2	--	58.74
3	58.99	58.66

NORTH SIDEWALK
TRANSITION

STA 3+87.09, 38.08' LT
BEGIN REMOVAL OF C&G
FL= 58.90±

STA 3+87.17, 13.00' LT
FL= 58.12±

STA 3+87.25, 13.00' RT
FL= 57.49±

STA 3+87.31, 37.93' RT
END REMOVAL OF C&G
FL= 56.60±

	TC	FL
1	58.08	57.75
2	--	57.37
3	57.65	56.98

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

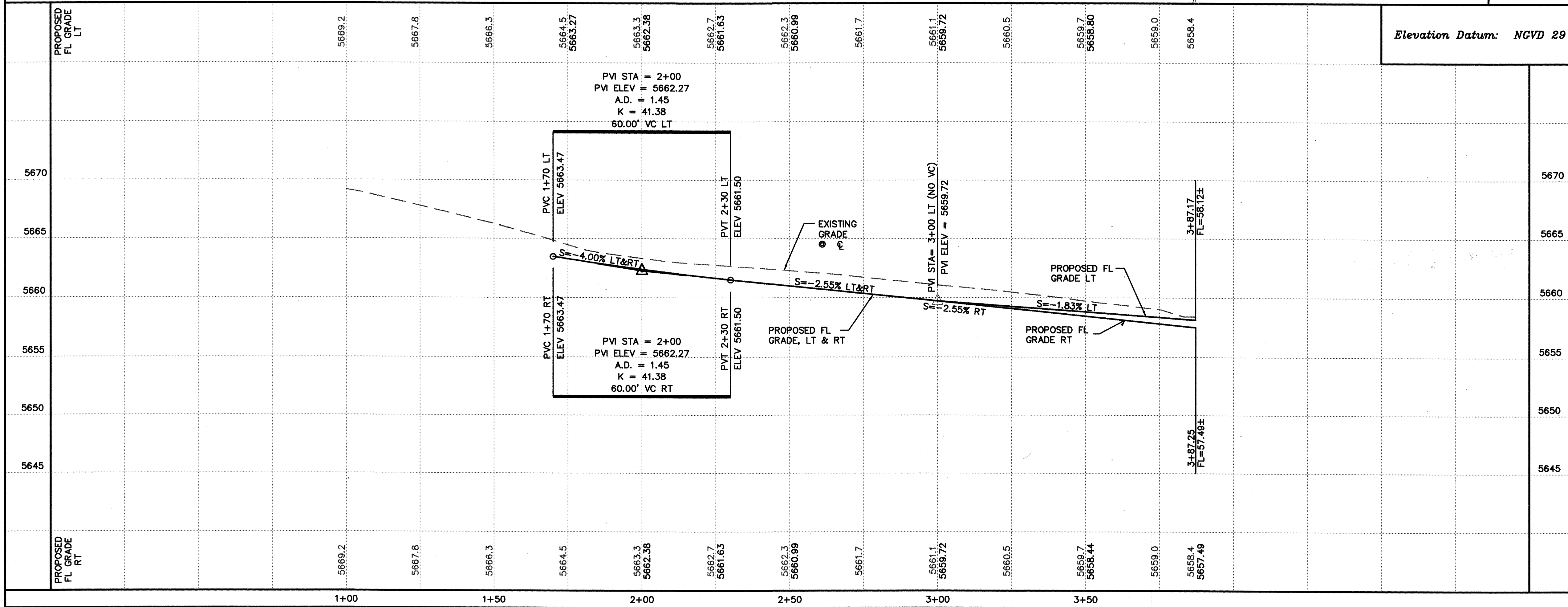
KEYED CONSTRUCTION NOTES

- CONSTRUCT HANDICAP RAMP PER COA STD DWG #2441, CASE II
- DEFERRED 4' WIDE PCC SIDEWALK PER COA STD DWG #2430.
- CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 1 1/2" INVERT PER COA STD DWG #2420.
- CROWN TO NO CROWN TRANSITION 50' MIN. LENGTH. PER COA DETAIL 2401.
- CONSTRUCT 6' WIDE PCC SIDEWALK PER COA STD DWG #2430.
- MOUNTABLE CURB & GUTTER PER COA STD DWG #2415A.
- SIDEWALK TRANSITION PER COA DETAIL 2432.

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	CHD BRG
FC1	25.00	39.20	89°50'57"	N 44°59'22" E
FC2	25.00	22.12	50°42'15"	N 25°17'14" W
FC3	35.00	171.91	281°24'30"	N 89°56'06" W
FC4	25.00	22.12	50°42'15"	S 25°25'01" W
FC5	25.00	39.35	90°10'20"	S 45°01'16" E

Elevation Datum: NGVD 29



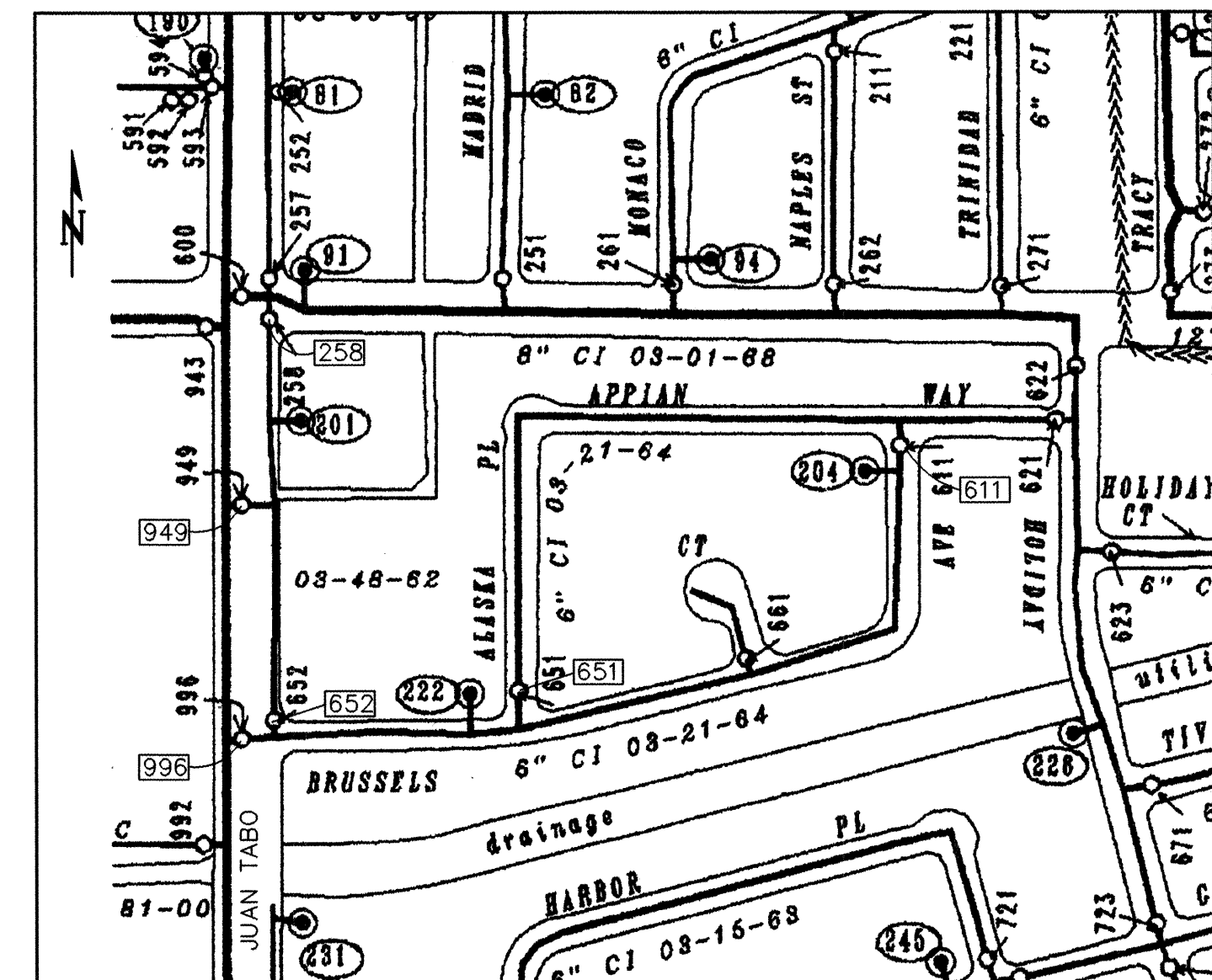
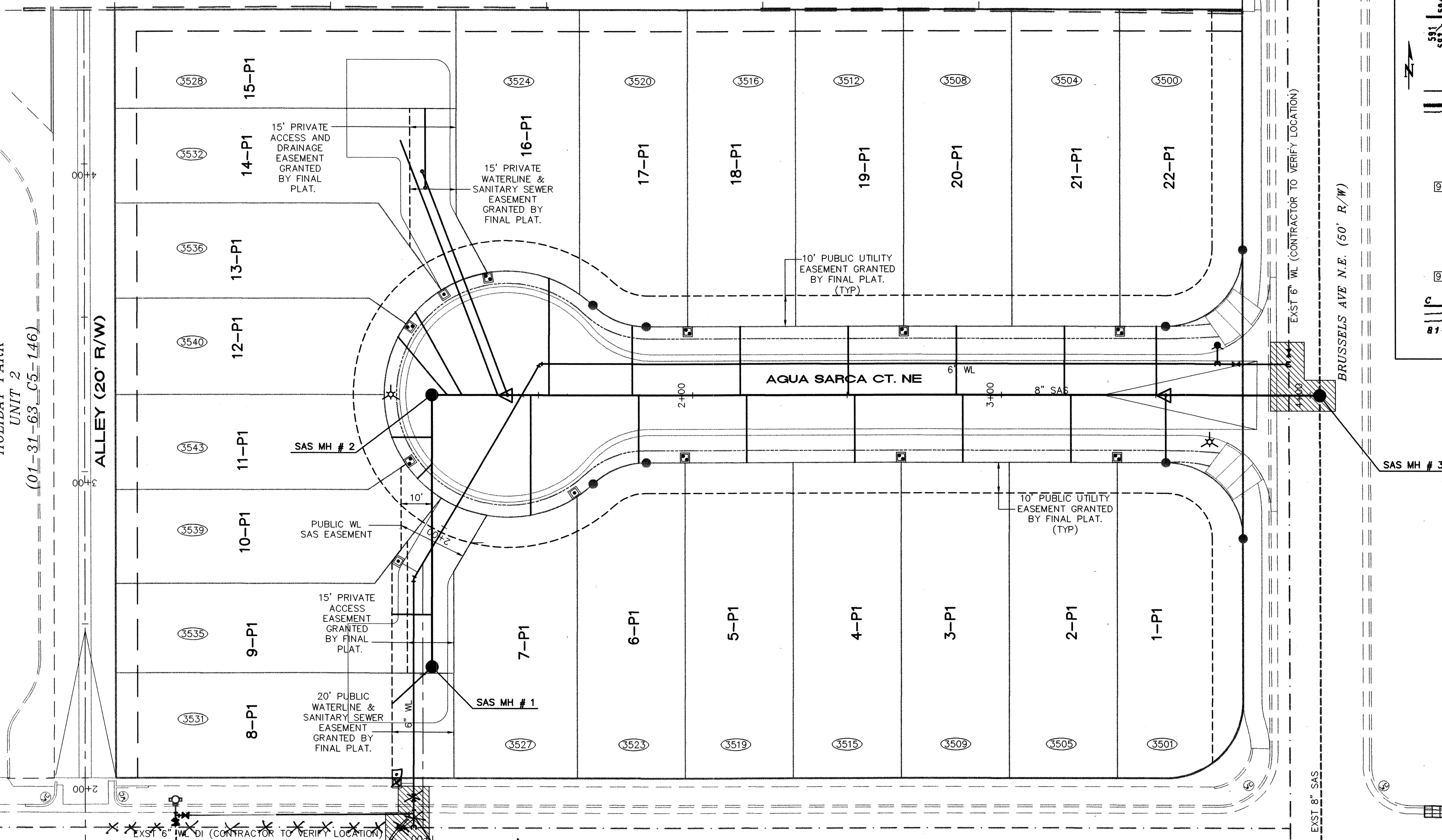
RECORD DRAWING

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1411.01PVI.DWGdlp 04/12/05

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
TITLE: **EMBUDO CANYON NORTH SUBDIVISION
AQUA SARCA CT NE
PAVING PLAN & PROFILE**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED MAY 19 2005 DESIGN REVIEW COMMITTEE	APPROVED JUL 13 2005 CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
758981	G-21&G-22	5	9

LOT 6	LOT 5	LOT 4	LOT 3	LOT 2	LOT 1
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WATER SHUT-OFF PLAN

SHUT-OFF VALVES [611], [661], [651], [652], & [996] TO PROVIDE BRUSSELS CONNECTION. SHUT-OFF VALVES [652], [949], & [258] FOR JUAN TABO 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

- | | |
|---|--------------------------|
|  | SINGLE WATER METER & BOX |
|  | DOUBLE WATER METER & BOX |
|  | GATE VALVE W/ VALVE BOX |
|  | FIRE HYDRANT |
|  | SAS MANHOLE |
|  | WATER LINE W/ FITTING |
|  | PROPOSED STREET LIGHT |
|  | ADDRESS |

RECORD DRAWING

RESTRAINED JOINT LENGTHS, L_T, FOR TEES, (FT.) ALL JOINTS AT THE TEE MUST BE RESTRAINED.		
SIZE	RUN	BRANCH
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, L_T , FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS, (FT.)					
SIZE	HORIZ. BENDS				VALVES DEAD ENDS
	90°	45°	22 1/2°	11 1/4°	
6	17	7	3	2	46
4	12	5	2		33

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	53
10x8	74	20	6x4	24	35

RESTRAINED JOINT LENGTHS FOR WATERLINE FITTINGS

NOTES:

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. 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.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.



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 1411.01UMSTR.DWGGrth 05/02/05

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: EMBUDO CANYON NORTH SUBDIVISION
MASTER UTILITY PLAN

Design Review Committee

APPROVED

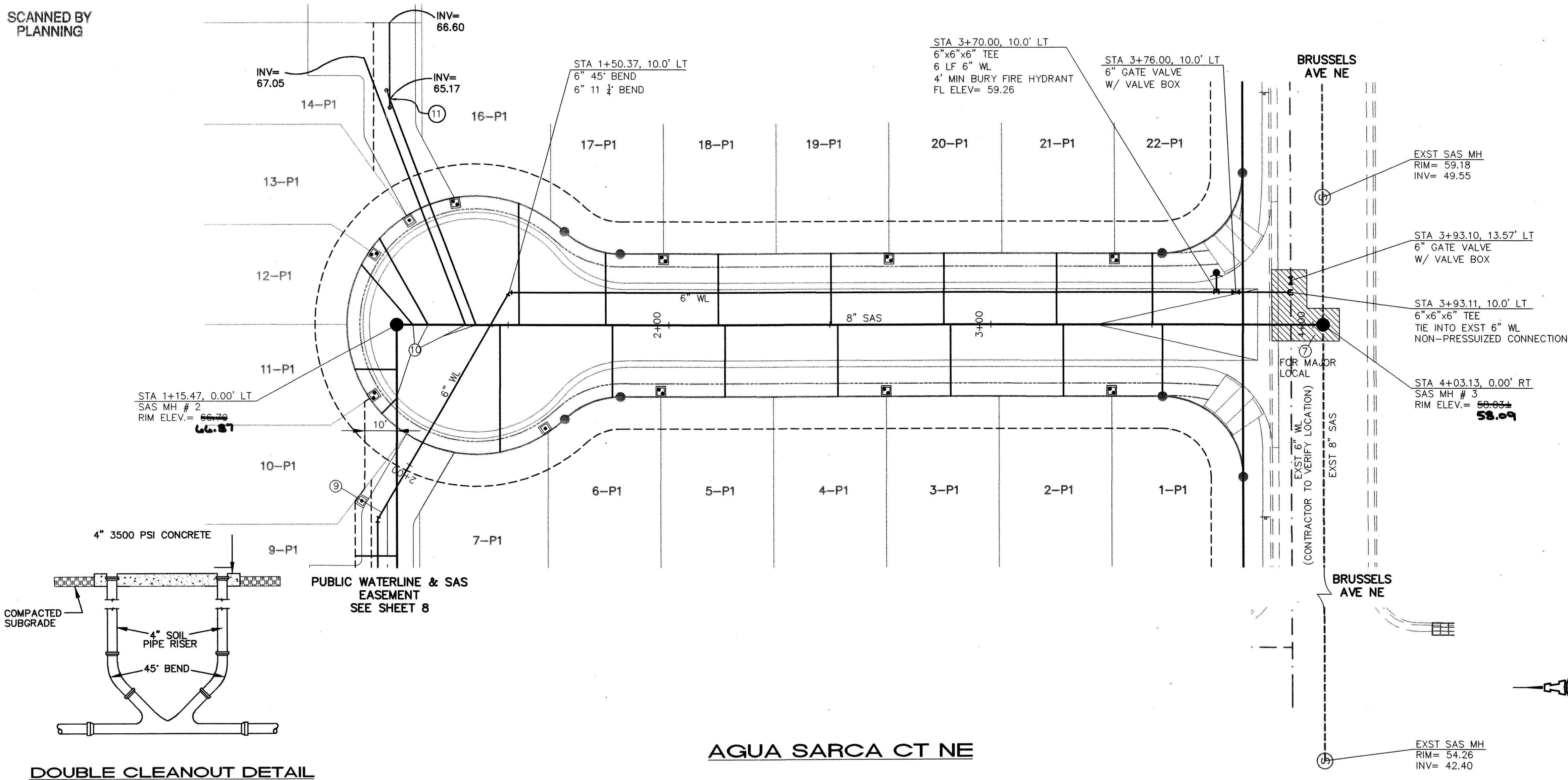
MAY 10 2005

DESIGN
REVIEW COMMITTEE

City Engineer Approval
APPROVED
JUL 13 2005
CITY ENGINEER

Last Design Update

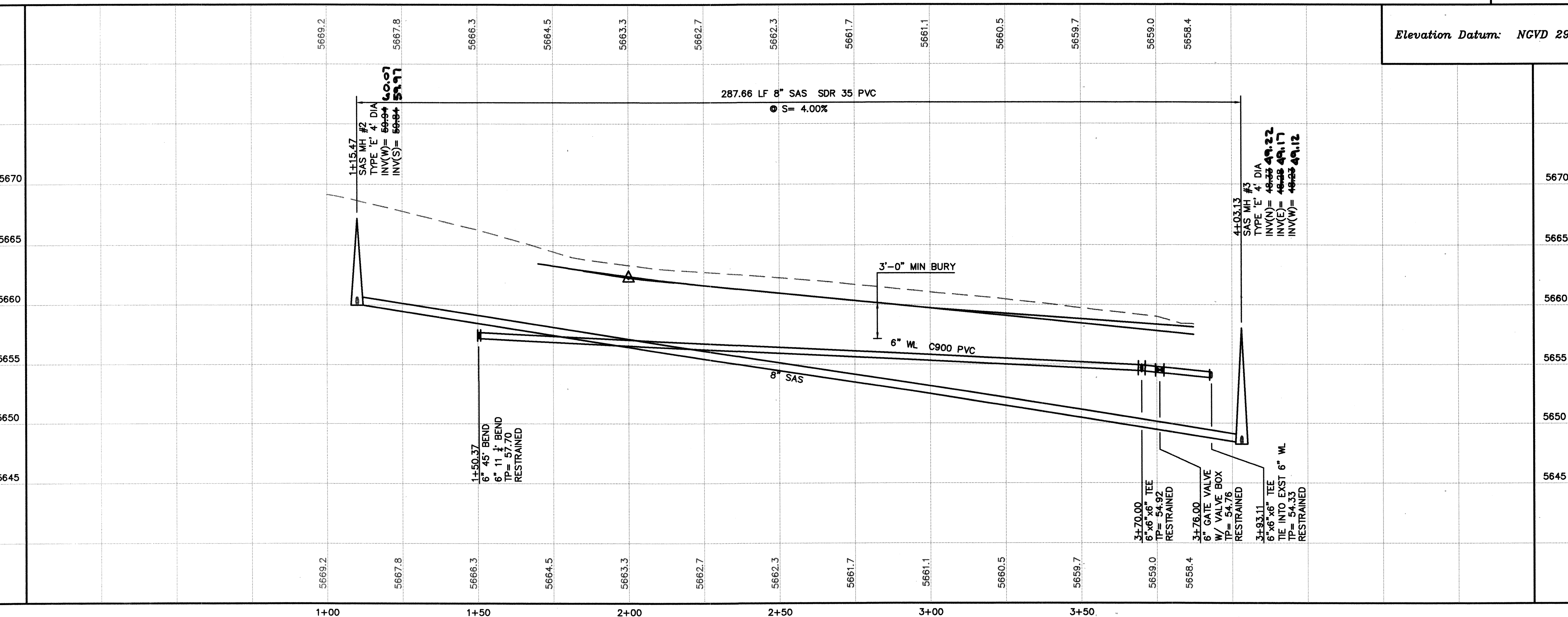
City Project No.	758981	Zone Map No.	G-21&G-22	Sheet	6	Of	9
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AGUA SARCA CT NE

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

Elevation Datum: NCVD 29



GENERAL NOTES

1. CONSTRUCT SAS SERVICES PER COA STD DWG #2125. UNLESS OTHERWISE NOTED.
2. CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG #2361, & #2362.
3. SEE SHEET #6 FOR WATER SHUT-OFF PLAN.
4. SEE SHEET #6 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
5. CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
6. GATE VALVE & BOX PER COA STD DWG #2326.
7. PAVEMENT REMOVAL & REPLACEMENT PER COA STD DWG #2465.
8. SIDEWALK & CURB AND GUTTER REMOVAL & REPLACEMENT PER COA STD DWG #S 2430 & 2415A.
9. HEAVY WEIGHT BOX COVER AND LID PER COA STD DWG 2369.
10. 8"x4" WYES
11. CLEANOUT PER DETAIL THIS SHEET

UTILITY SERVICE TABLE

LOT NO.	STATION		SAS INV @ R/W
	WATER, LENGTH	SAS, LENGTH	
1-P1	3+37.47, 32'	3+53.22, 22'	53.36
2-P1	3+22.47, 22'	3+22.47, 22'	54.14
3-P1	2+67.47, 32'	2+87.47, 22'	55.04
4-P1	2+52.47, 22'	2+52.47, 22'	55.93
5-P1	1+97.47, 32'	2+17.47, 22'	56.84
6-P1	1+82.47, 22'	1+82.47, 22'	57.99
7-P1	1+33.25, 40'	1+47.47, 39'	59.63
8-P1	see sheet 8	see sheet 8	---
9-P1	1+05.81, 3'	see sheet 8	60.37
10-P1	1+13.43, 30'	1+13.43, 30'	61.15
11-P1	1+07.01, 20'	1+07.01, 20'	61.59
12-P1	1+02.44, 24'	1+02.44, 24'	61.59
13-P1	1+07.11, 43'	1+04.53, 31'	61.23
14-P1	1+18.57, 37'	1+10.15, 39'	60.63
15-P1	1+13.41, 98'	1+13.41, 98'	60.51
16-P1	1+33.41, 30'	1+53.41, 38'	59.13
17-P1	1+98.41, 12'	1+80.41, 22'	58.06
18-P1	2+15.41, 22'	2+15.41, 22'	56.90
19-P1	2+68.41, 12'	2+50.41, 22'	55.98
20-P1	2+85.41, 22'	2+85.41, 22'	55.09
21-P1	3+20.41, 22'	3+20.41, 22'	54.20
22-P1	3+38.41, 12'	3+50.16, 22'	53.44

ALL WATER SERVICES ARE DOUBLE EXCEPT WHERE NOTED AS (S) SINGLE.

RECORD DRAWING

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1411.01UT1.DWG rth 05/02/05

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **EMBUDO CANYON NORTH SUBDIVISION
AGUA SARCA CT NE
UTILITY PLAN & PROFILE**

Design Review Committee APPROVED MAY 10 2005 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JUL 13 2005 CITY ENGINEER	Last Design Update Mo./Day/Yr. Mo./Day/Yr.
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City Project No. **75981** Zone Map No. **G-21&G-22** Sheet **7** Of **9**

SCANNED BY
PLANNING

Sta. 0+27
2-6" Gate Valves
1-6"x6"x6" Tee

STA 1+00.00, 7.12' LT
6" GATE VALVE
W/ VALVE BOX

STA 1+00.00, 3.00' LT
6"x6"x6" TEE
TIE INTO EXIST 6" WL
NON-PRESSURIZED CONNECTION
1-6" 90° Bend

STA 1+10.00, 3.00' LT
6" GATE VALVE
W/ VALVE BOX

JUAN TABO
BLVD NE

(CONTRACTOR TO VERIFY LOCATION)

8-P1

9-P1

10-P1

11-P1

12-P1

13-P1

14-P1

15-P1

STA 1+81.03, 3.00' LT
6" 22 1/2° BEND
6" 11 1/2° BEND

STA 2+35.55, 25.17' LT
SAS MH # 2
RIM ELEV= 66.87

STA 1+52.52, 3.00' RT
SAS MH # 1
RIM ELEV= 66.87

7-P1

6-P1

16-P1

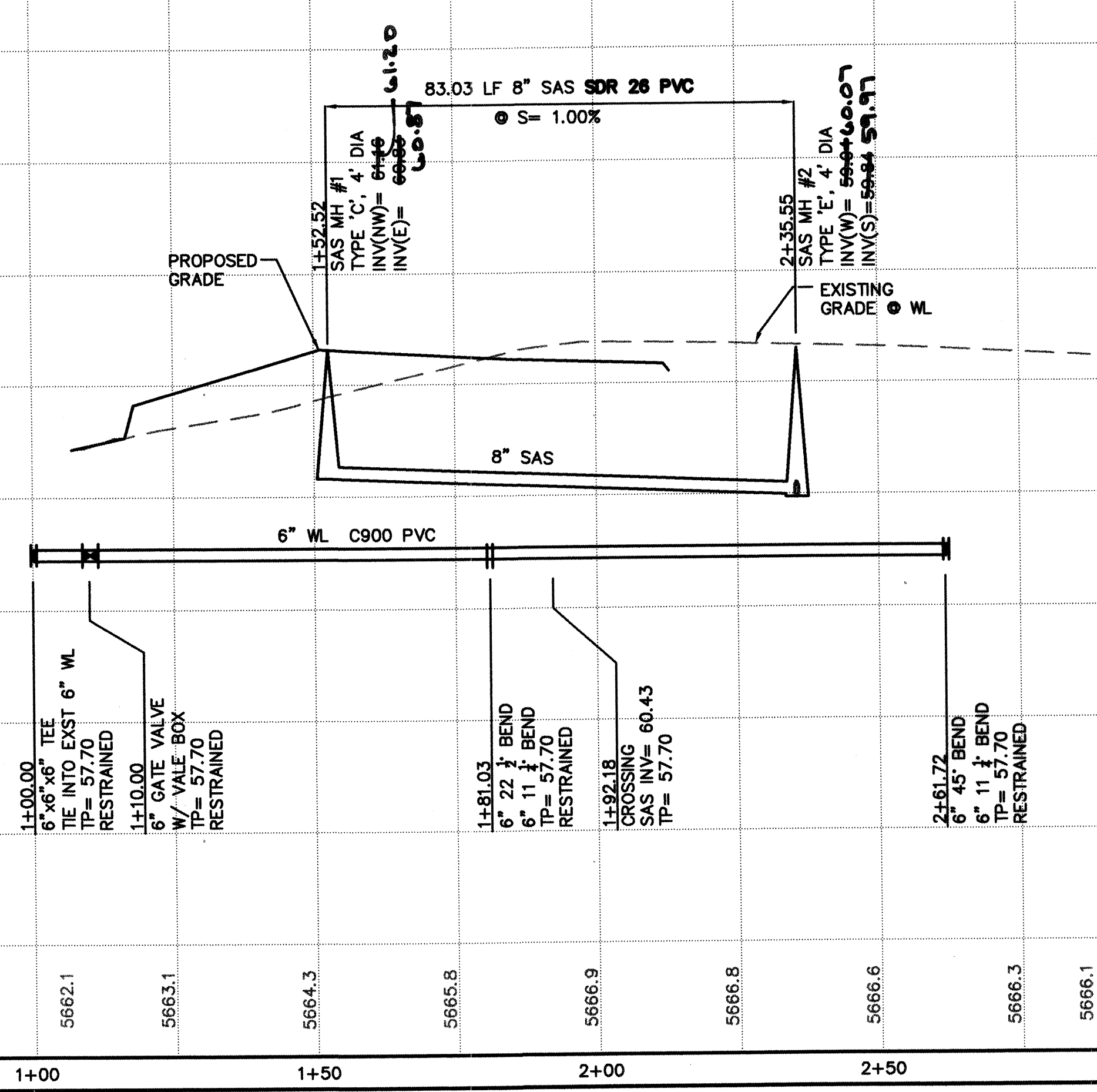
STA 2+61.72, 0.00' RT
6" 45° BEND
6" 11 1/2° BEND

AGUA SARCA
COURT NE
SEE SHEET 7

PUBLIC WATERLINE EASEMENT

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

Elevation Datum: NCV29



- GENERAL NOTES**
1. CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
 2. CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG #2361 & #2362.
 3. SEE SHEET #6 FOR WATER SHUT-OFF PLAN.
 4. SEE SHEET #6 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
 5. CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
 6. GATE VALVE & BOX PER COA STD DWG #2326.
 7. PAVEMENT REMOVAL & REPLACEMENT PER COA STD DWG #2465.
 8. SIDEWALK & CURB AND GUTTER REMOVAL & REPLACEMENT PER COA STD DWG #S 2430 & 2415A.
 9. HEAVY WEIGHT BOX COVER AND LID PER COA STD DWG #2369.
 10. 8"x4" WYES.
 11. SAS SERVICE PER COA STD DWG #2118.

UTILITY SERVICE TABLE

LOT NO.	STATION		SAS INV @ ESMT LINE
	WATER, LENGTH	SAS, LENGTH	
8-P1	1+16.40, 4'(S)	1+40.51, 18'	61.46
9-P1	1+69.51, 13'(S)	1+86.12, 3'	60.92

ALL WATER SERVICES ARE DOUBLE EXCEPT WHERE NOTED AS (S) SINGLE.

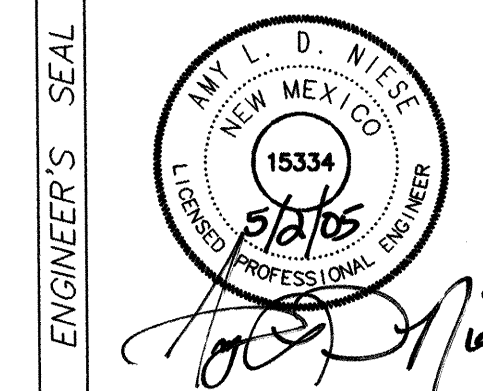
RECORD DRAWING

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1411.01 UTI.DWG rth 05/02/05

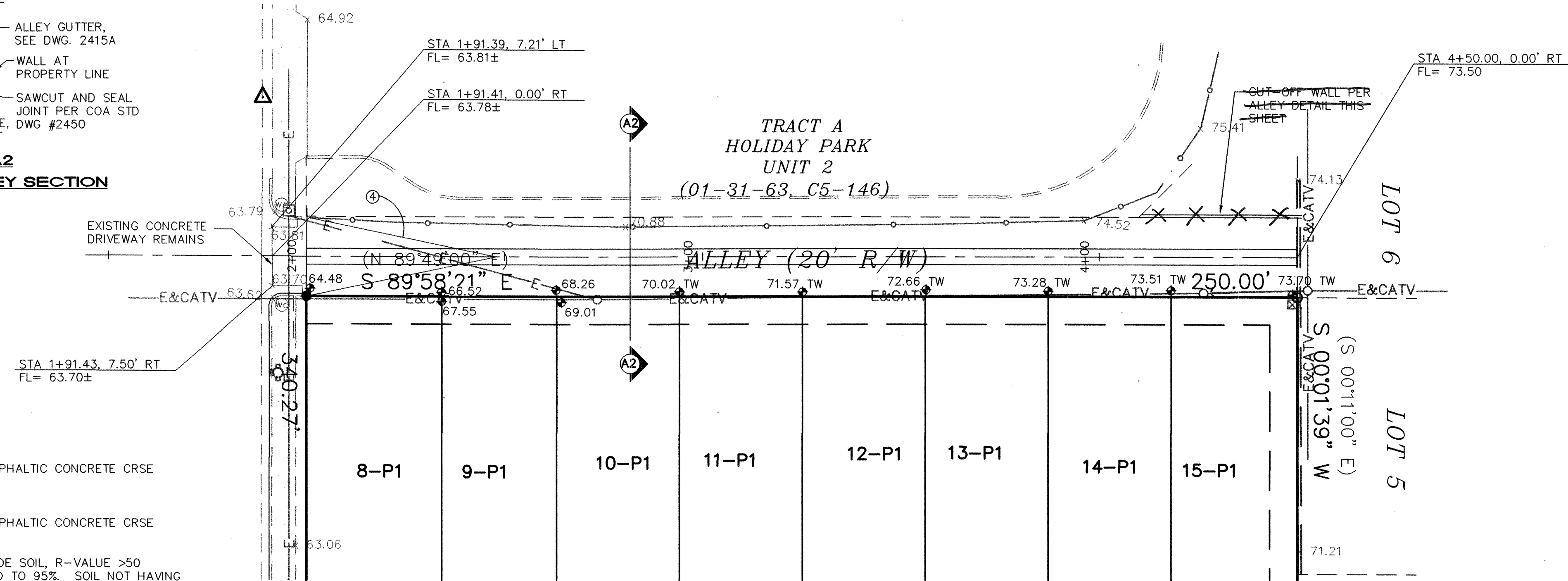
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

**TITLE: EMBUDO CANYON NORTH SUBDIVISION
PUBLIC WATERLINE EASEMENT
UTILITY PLAN & PROFILE**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED MAY 10 2005 DESIGN REVIEW COMMITTEE	APPROVED JUL 13 2005 CITY ENGINEER		
City Project No. 758981	Zone Map No. G-21&G-22	Sheet 8	Of 9

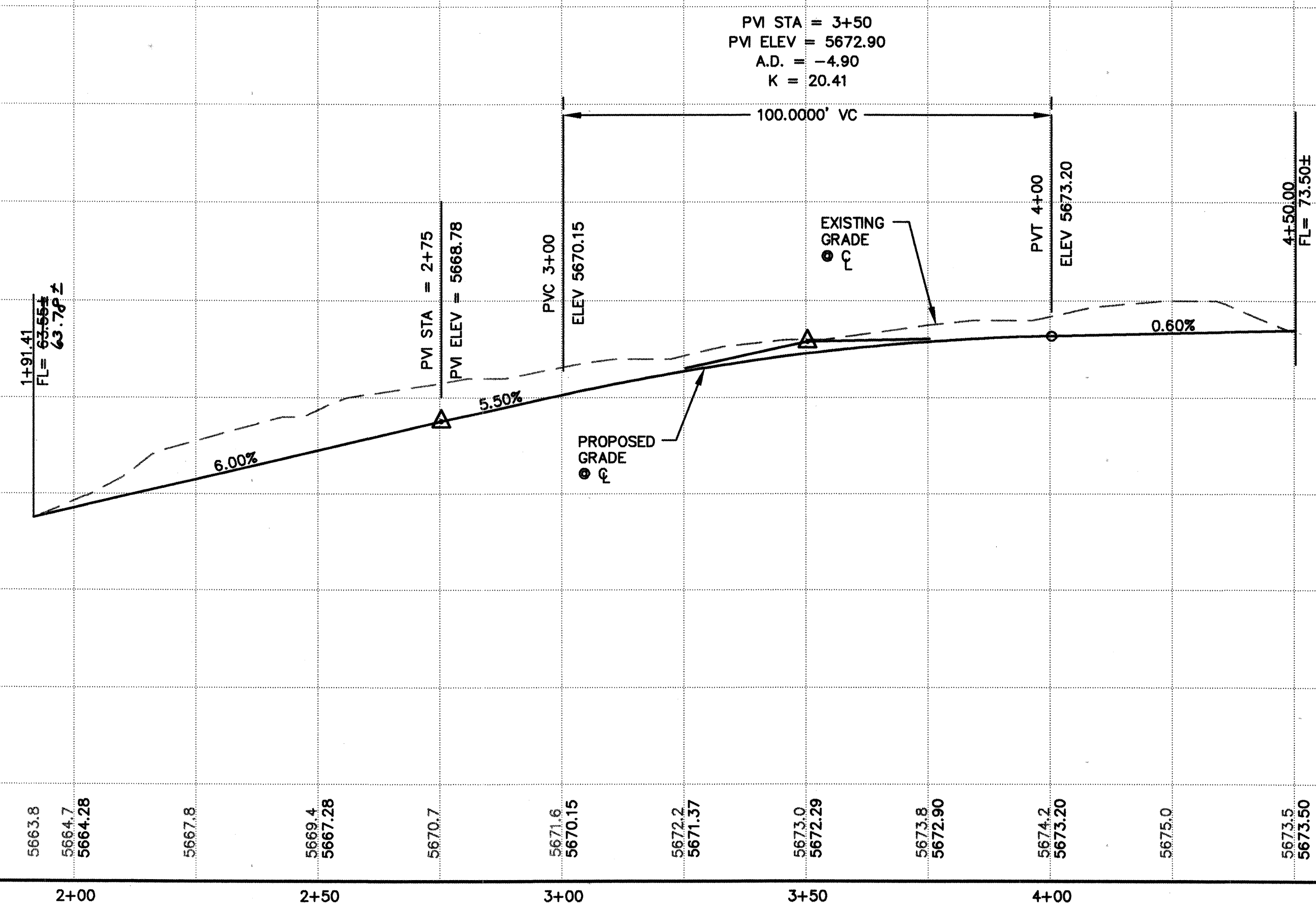


REVISIONS		REMARKS	BY
NO.	DATE		
1	11/10/04	ROUTE CONNECTION TO EXIST WL ALDN	ALDN
DESIGNED BY		ALDN	03/04/05
DRAWN BY		thor	03/04/05
CHECKED BY		ALDN	03/04/05



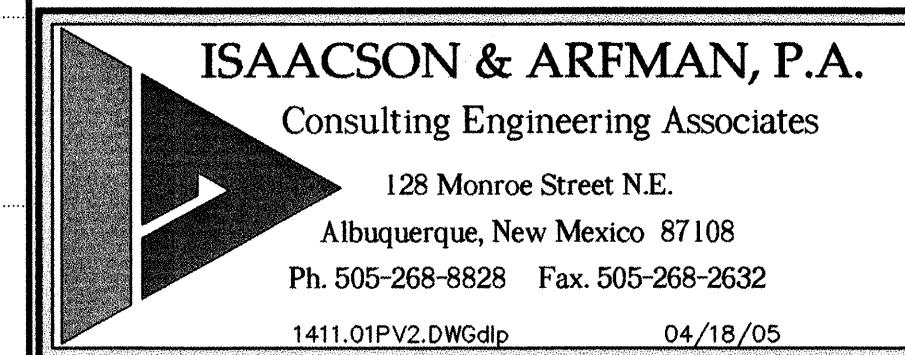
SCALES:
1"=20' HOR.
1"=5' VERT.

Elevation Datum: NGVD 29



1. CONSTRUCT HANDICAP RAMP PER COA STD DWG #2441, CASE II
2. DEFERRED 4' WIDE PCC SIDEWALK PER COA STD DWG #2430.
3. CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 1 1/2" INVERT PER COA STD DWG #2420.
4. CROWN TO NO CROWN TRANSITION 50' MIN. LENGTH. PER COA DETAIL 2401.
5. CONSTRUCT 6' WIDE PCC SIDEWALK PER COA STD DWG #2430.
6. MOUNTABLE CURB & GUTTER PER COA STD DWG #2415A.
7. SIDEWALK TRANSITION PER COA DETAIL 2432.

RECORD DRAWING



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE:	EMBUDO CANYON NORTH SUBDIVISION AGUA SARCA CT NE PAVING PLAN & PROFILE

Design Review Committee
APPROVED
MAY 10 2005
DESIGN
REVIEW COMMITTEE
City Project No.

City Engineer Approval
APPROVED
JUL 12 2009
CITY ENGINEER
Zone

City Project No.	758981	Zone Map No.	G-21&G-22	Sheet	9	Of	9
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