CITY OF ALBUQUERQUE

NEW MEXICO

CONSTRUCTION PLANS

FOR

NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS

MONTANO ROAD - SYSTEM A
GRIEGOS ROAD - SYSTEMS B and C
PROJECT No. 2461

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 12-21-88

1 2 3 4 5 6 7 8 9 10 11 12
26 24610088

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
				APPROVAL OF REVISIONS			

JOHN A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

SCANLON & ASSOCIATES

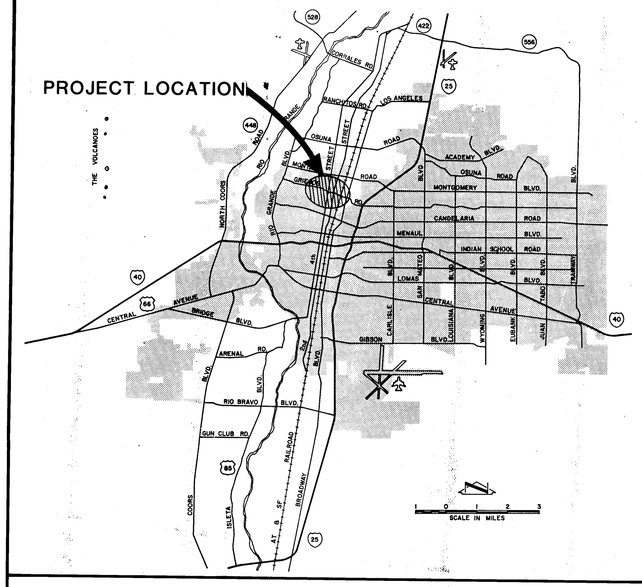
NOVEMBER 1987

2461

SET NO. ____

JOB NO. 85113

RECORD DRAWING



KEY MAP

CITY OF ALBUQUERQUE

NEW MEXICO

INDEX TO SHEETS

CONSTRUCTION PLANS FOR

NORTH VALLEY

DRAINAGE SYSTEM IMPROVEMENTS

GRIEGOS ROAD SYSTEMS (B&C)

Russell B. Dahlin 12-21-88

26 24610188

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE

APPROVAL OF REVISIONS

SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

SCANLON & ASSOCIATES CONSULTING ENGINEERS

APPROVED FOR CONSTRUCTION

10/28/87 C.E.

DRAWING NO. 2461

MAP NO.

SHEET 1 OF 21

SET NO. _____

JOB NO. 85113

Scanlon Job No. 85113

RECORD DRAWING

GENERAL NOTES

1. The City of Albuquerque Interim Standard Specifications for Public Works Construction, 1985 Edition, and any revisions and or additions in the Specifications and Contract Documents, shall govern the construction of this project.

2. The Contractor shall notify all utility companies when working near their systems. Two days prior to any excavation, Contractor must contact Line Locating Service, 765-1234, for location of existing utilities.

3. All existing utilities shown here were taken as accurately as possible from record drawings and surface indications. It shall be the Contractor's responsibility to protect, maintain in service, and verify exact locations of all affected utilities during construction of this project, including service lines.

4. All utilities which are to be abandoned under this contract shall be plugged with concrete at each end of the portion to be abandoned. Payment for this work will be made on the basis of the contract unit price bid.

5. Curb return radii and street widths are to the face of the curb unless otherwise indicated in the plans.

6. Where removal of existing curb and gutter or sidewalk is required, remove to the nearest joint or saw cut.

7. When abutting new paving to existing, saw cut existing paving on a right angle, or as required by the Project Engineer to remove any broken, raveled, or cracked paving and match the new paving grade to the existing. No separate payment shall be made for saw cut but shall be considered incidental to the Contract Unit Price for pavement removal and replacement.

8. Curb and gutter shown as existing and not to be removed under this contract which is damaged or displaced by the Contractor or his subcontractors, shall be replaced by the Contractor at his expense.

9. Existing materials to be removed and paid for on a unit price basis shall be measured and the quantities approved by the Engineer before removal.

10. Remove all valve boxes from abandoned water lines. Payment will be considered incidental to the contract unit price for pavement removal and replacement.

11. All abandoned valve and meter box frames and covers shall be returned to the Water System Division city yard and all storm and sanitary manhole lids and inlet grates, castings, and frames not reused and in usable condition, shall be returned to the Liquid Waste Division warehouse. There shall be no direct payment for these items. Cost shall be considered incidental to other items of work.

12. No separate payment shall be made for sewer by-pass pumping if required. It shall be considered incidental to sewer line construction.

13. The Contractor shall expose existing water and sewer lines at locations where new storm sewer lines cross or parallel such lines in order to adequately establish the proximity of water and sewer lines. The cost of this work shall be incidental to other items of work.

14. Prior to construction, exploratory excavation may be required as directed by the Project Engineer to more specifically locate utility lines. There will be no direct payment for this item of work. Cost will be considered incidental to other items of work.

15. All water meters, water valve boxes, and sewer manholes in the construction area where street grades change are to be adjusted by the Contractor to finished grade under this contract. The Contractor shall be required to set reference points for locating manholes prior to any grading operation. Measurement and payment for this work shall be considered incidental to the unit price bid for pavement removal and replacement.

16. The Contractor will be responsible to replace at his expense any and all property corners destroyed in the process of construction. All property corners must be set by a Registered Land Surveyor.

17. The Contractor will be required to confine his work within the construction limits and/or right-of-way to preserve existing vegetation and private property. Contractor is not to store equipment or materials in R.O.W. overnight.

18. Public mail boxes within new construction will be relocated to the right-of-way line by the U.S. Post Office. The Contractor shall coordinate relocation of private mail boxes with property owner or resident and the U.S. Post Office. The Contractor shall notify the U.S. Post Office, Delivery and Collection Department, at least 48 hours in advance of construction affecting mailboxes. Cost of this work will be considered incidental to other items.

19. Utility relocation schedules shall be coordinated at the pre-construction conference.

20. Utility relocations required by the construction of this project are to be coordinated by the Contractor during construction. No additional compensation will be allowed for delays or inconveniences caused by utility company work crews. The Contractor may be required to reschedule his activities to allow utility crews to perform their required work.

21. Access to local business and residences shall be kept open at all times. In the event that access closures are unavoidable, closures must be scheduled at least twenty-four (24) hours in advance with property owners and approved by the Engineer. Access closures to business shall not excess two (2) hours during business hours and for residences shall not exceed eight (8) hours. Alternate access provided if required.

22. All valve box rings and covers shall be painted with blue enamel or epoxy paint. Color shall be equivalent to "Safety Blue".

23. Sidewalks and wheel chair ramps within the curb returns shall be constructed wherever a new curb return is constructed. Wheel chair ramps shall be paid for at the unit price for sidewalks. If curb is depressed for a drivepad or wheelchair ramp, the ramp or drivepad shall be constructed prior to acceptance of the curb and gutter.

24. A disposal site for all excess excavation material, asphaltic paving, concrete paving, etc. shall be obtained by the Contractor, and approved by the Project Engineer in compliance with applicable regulations. All costs incurred in obtaining a disposal site and haul thereto shall be considered incidental to the contract unit price for other items.

25. Fifty ton roller operation shall not be used on this project where underground utilities are present. The required compaction of these locations shall be effected by other types of approved compaction methods.

26. 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.

27. WARNING - If any utility lines, pipelines or underground utility lines are shown on these drawings, they are shown in approximate manner only, and other such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the Utility or pipeline company, the Owner, or by others (except where specifically noted as field verified), and the information may be incomplete, or may be obselete by the time construction commences. The Engineer has undertaken limited field verification of the location, depth, size or type of existing utility lines, pipelines, or underground utility lines, and makes no representation pertaining thereto, and assumes no responsibility or liability therefor, the Contractor shall inform himself 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 the excavation work. The Contractor is fully responsible for any and all damage caused by failure to locate, identify, and preserve any and all existing utilities, pipelines, and underground utility lines. 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, in planning and conducting excavation, whether by calling or notifying the utilities, complying with "line locating" procedures, or otherwise. (See also Note 2)

28. Steps are required in all drop inlets and manholes over 4 feet deep. All manhole and drop inlet steps shall be 1/2" grad 60 steel reinforcing rod encapsulated in a co-polymer polypropylene as manufactured by M.A. Industries, Inc. (model #P-2-PFS) or equal. Steps are not to be precast in place but shall be installed as recommended by the manufacturer after the manhole or catch basin has been constructed. Top two steps to protrude 4 inches into manhole, all other 5 inches. Spacing between steps to be 16 inches O.C., first step to be 18 inches from manhole rim, last step to be 18 inches maximum from manhole invert. For step placement in drop inlets, see appropriate Standard Detail (K-1 or K-4).

29. It shall be the responsibility of the Contractor to maintain sanitary sewer services at all times throughout the duration of the project, to include by-pass pumping of sewerage as required, at no additional cost to the Owner.

30. The Contractor is responsible for coordination during construction for work over or into Middle Rio Grande Conservancy District (MRGCD) facilities. These facilities include but are not limited to the Alameda Drain.

The Contractor shall obtain the necessary approvals from MRGCD regarding dewatering, scheduling, etc., during construction. The Contractor shall post a damage deposit with MRGCD for work which affects MRGCD facilities. There shall be no direct payment made for these items under this contract, but shall be considered incidental to other items of work.

31. All Reinforced Concrete Pipe (RCP) storm drain shall conform to ASTM C 76 specifications as set forth in the Contract Documents. The following pipe strength classes will apply for this project, unless otherwise noted:

(a) RCP less than thirty (30) inches in diameter (I.D.) - Class IV.
(b) RCP greater than or equal to thirty (30) inches in diameter (I.D.) - Class III.

32. Removal and replacement of existing curb and gutter required for the construction of new catch basins shall be considered incidental to the contract unit price for removal of existing catch basins and construction of new catch basins and no separate payment shall be made therefore.

33. Catch basin grate elevations shown on the plans are at the flowline at face of curb and are computed at 10 3/4" below top of curb.

34. All water service relocations or replacements required by the construction of new storm drain must be replaced from the water main to the existing meter. Splicing into existing service lines is not permitted.

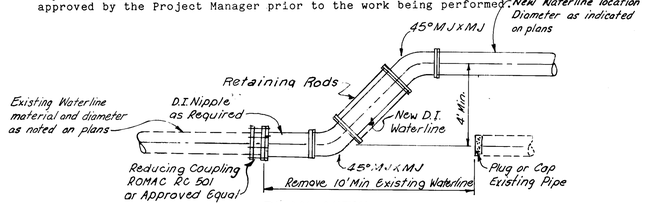
35. Use Type "C" manholes for SAS and storm drain depths of less than 6' measured from invert to rim. Use Type "E" manholes for all depths greater than or equal to 6' measured from invert to rim.

36. For payment purposes, the maximum pavement cut width shall be as defined in Section 801.17.8.2. of the Interim Standard Specifications as defined in General Note 1 above.

37. Trench dewatering if required due to groundwater conditions encountered during construction shall be paid for by contract change order during construction.

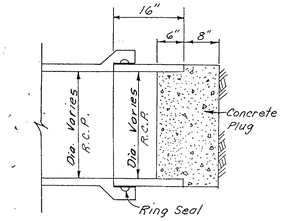
38. Use of City approved alternate grates for storm inlets per City of Albuquerque Standard Drawing K-10 shall be limited to roadway slopes of one percent (1%) or greater.

39. The water and sewer service relocations and/or replacements on the following plan sheets are shown in anticipation of conflicts with proposed storm drain lines. This work will only be done if necessary to correct the conflicts or inadequate grade conditions. Any relocations and/or replacements which are in question must be approved by the Project Manager prior to the work being performed.



PLAN VIEW

TYPICAL WATERLINE CONNECTION DETAIL



REMOVABLE WATERTIGHT PLUG

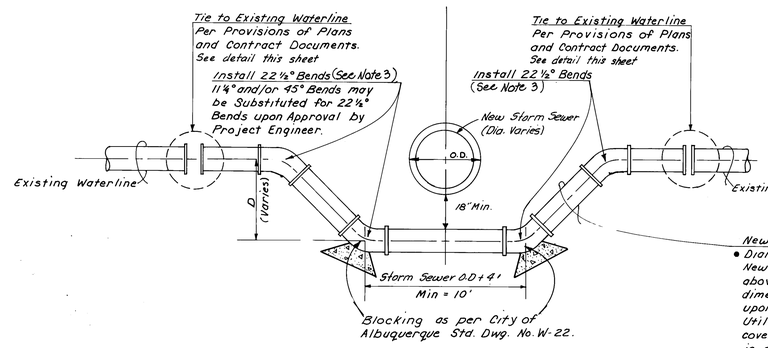
Not to Scale

40. Numerous potential conflicts with proposed storm drain facilities and existing gas lines exist. The Contractor will be required to expose gas lines prior to construction, as directed by the Engineer, to more specifically identify these conflicts.

41. The Contractor is required to contact the Gas Company at least three (3) days prior to beginning construction in any phase and to coordinate his work with the Gas Company during construction.

42. With regard to gas line relocations during construction, the Contractor will be required to backfill and compact all excavations to the top of subgrade. The Gas Company will provide trenching, backfilling, and compaction for their facilities after subgrade has been prepared.

43. Trench depth shall be measured from bottom of pavement to invert of pipe at centerline of pipe.

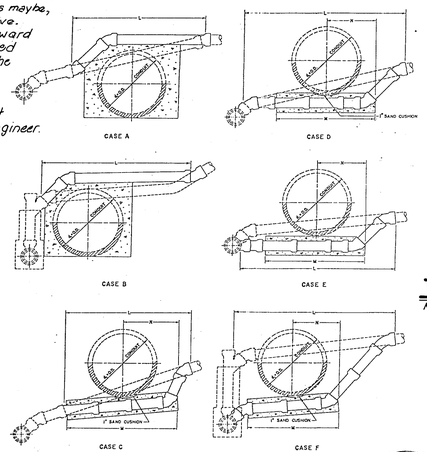


ELEVATION

TYPICAL WATERLINE RELOCATION DETAIL

Not to Scale

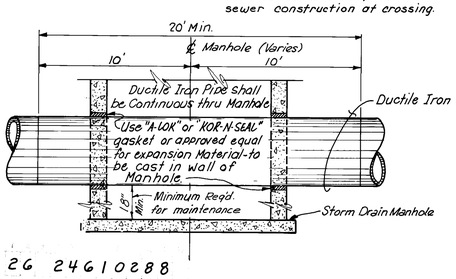
NOTES
1. Lengths of Waterline Relocation may be extended at direction of Project Engineer until suitable existing material is found to make connection, in some cases maybe, to existing main or Valve.
2. Joints subject to upward thrust shall be installed as Rigid Joints per the Requirements of Section 701.13.3 of the Interim Standard Specifications subject to Approval of the Engineer.



NOTES:
1. LOCATION OF EXISTING UTILITY LINES AND SERVICE CONNECTIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION OF NEW STORM DRAIN.
2. WHERE CLEARANCE BETWEEN NEW STORM DRAIN AND EXISTING SERVICE LINE IS LESS THAN 1 FOOT, SERVICE LINE SHALL BE RELOCATED PER DETAIL.

TYPICAL SAS SERVICE LINE RELOCATION DETAIL

NTS



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TYPICAL SAS LINE THRU STORM DRAIN MANHOLE

NTS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GENERAL NOTES AND DETAILS
GRIEGOS ROAD SYSTEMS (B&C)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/27/87
A.C.E - Design	" "	10/27/87	Traffic		
A.C.E - Hydrology	Steve Boberg	10/27/87	Water		10/27/87

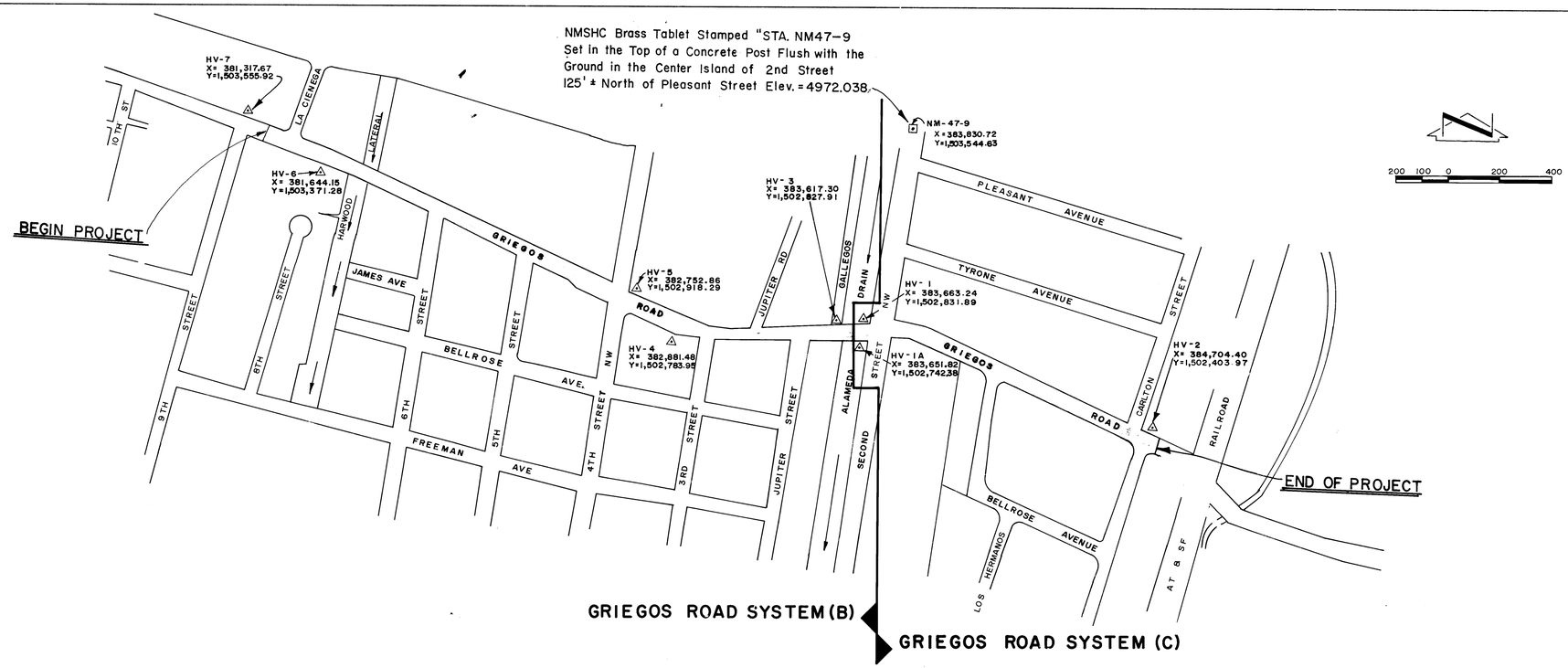
DRAWING NO. 2461 | MAP NO. | SHEET 2 OF 21

SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

Scanlon Job No. 85113

RECORD DRAWING

N18931



SITE PLAN

LEGEND

EXISTING CURB AND GUTTER	EXISTING SANITARY SEWER
NEW STANDARD AND MEDIAN CURB AND GUTTER	EXISTING STORM DRAIN
NEW ASPHALT CURB	EXISTING WATER LINE
EXISTING SIDEWALK	EXISTING GAS LINE
NEW SIDEWALK PATCH	NEW SANITARY SEWER
NEW MEDIAN PATCH	NEW SANITARY SEWER MANHOLE
PAVEMENT REPLACEMENT PER C.O.A. STD. DWG P-25	NEW STORM DRAIN
EXISTING SIGN	NEW STORM DRAIN MANHOLE
EXISTING POLE	NEW CATCH BASIN
EXISTING CHAIN LINK FENCE	72.8 EXISTING SPOT ELEVATION
EXISTING BLOCK WALL	72.6 NEW SPOT ELEVATION
EXISTING WIRE FENCE	EXISTING TELEPHONE LINE
EXISTING WOOD FENCE	EXISTING CABLE TELEVISION LINE
NEW CHAIN LINK FENCE	EXISTING WATER METER
PI OR CONTROL POINT	EXISTING WATER VALVE
CONSTRUCTION ℄ AND SURVEY ℄	EXISTING FIRE HYDRANT
R/W LINE	NEW FIRE HYDRANT
HGL 100.00 ELEVATION OF HYDRAULIC GRADE LINE	
Q_{100} = 10.0 FLOW RATE C.F.S. 100 YEAR-6 HOUR RUNOFF	
V_{100} = 5.0 VELOCITY (FT./SEC) 100 YEAR-6 HOUR RUNOFF	

TRAFFIC CONTROL NOTES

1. All traffic control devices, and their placement, shall comply with Chapter VI of the 1978 Edition MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
2. The Contractor shall prepare and submit to the Project Engineer a detailed detour plan, which must be approved by the City Traffic Engineer three (3) working days in advance of any required lane closures.
3. All signs must be installed before construction begins as directed by the Project Engineer. Sign heights shall be 7 ft. from the bottom of the sign to the sidewalk level.
4. All drums or barrels may have sand or water ballast limited to 100 lbs.
5. All sign locations will be selected in the field and approved by the City Traffic Engineer or Project Engineer. Distances may be adjusted for local conditions.
6. All signs will be ground mounted on single or double posts. Existing posts may be used at some locations, with the approval of the Project Engineer. Portable sign supports will be acceptable as an alternate.
7. All signs will be moved forward as the construction progresses, as determined appropriate by the Project Engineer.
8. Construction equipment and materials shall not be stored within the roadway or on the median during non-work hours.
9. When barriers are required after dark, all advance warning signs and all barricades shall be equipped with flashing warning lights (Type A), except that all channelizing devices shall have steady burning warning lights (Type C).
10. All existing regulatory signs and signals that need to be removed, relocated or reinstalled shall be done by the City of Albuquerque Traffic Engineering Division. The Contractor shall notify the Traffic Engineering Division three (3) working days in advance of any required work.
11. Exact locations of relocated traffic signal foundations shall be determined by the Traffic Engineering Division.
12. The Contractor shall provide and maintain a safe and adequate means of channelizing pedestrian traffic around all work areas throughout the period of construction. All such channelization shall be arranged to prevent pedestrians from having to enter an open traffic lane in order to pass around the work areas.
13. All construction signing shall be black on a reflectorized orange field unless otherwise specified. All construction barricades and channelization devices shall be orange on white, reflectorized, unless otherwise specified.
14. The Contractor shall prepare and submit to the Project Engineer a detailed project phasing plan at the pre-construction conference for approval prior to beginning construction.

2G 246 10388

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: GRIEGOS ROAD SYSTEM
SITE PLAN
LEGEND & TRAFFIC CONTROL NOTES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/27/87	Liquid Waste	[signature]	10/27/87
A.C.E.-Design	" "	"	Traffic	[signature]	10/27/87
A.C.E.-Hydrology	Steve Beley	10/27/87	Water	[signature]	10/27/87

DRAWING NO. 2461 | MAP NO. F14, G14 | SHEET 3 OF 21

Scanlon Job No. 85113

RECORD DRAWING

NOTES

1. All spot elevations shown are at existing top of curb unless otherwise noted.
2. All R.C.P. shall conform to ASTM C-76. See General Notes for pipe class.
3. It will be the responsibility of the contractor to support all gas main and service lines where they are within the area of excavation

0+00 1+00 2+00 3+00 4+00

Sta 0+00

H.V.7 = X= 381,317.67
Y= 1,503,555.92

Pt. 1+96.53 @ 9th Street ±

SD M.H.
Rim Elev. = 69.70
INV Elev. = 65.28

~~86~~
~~STA 2+93 - 10' Rt.~~
~~BUILD 4' DIA.~~
~~TYPE "C" MANHOLE~~

MH # F14-9/3
Rim Elev=69.77
Inv Elev. E = 57.51
Inv Elev. W = 57.38

~~STA 2+87 REMOVE~~
~~EXISTING M.H. REMOVE~~
~~EXISTING LATERAL PIPES~~
~~PLUG 12" TO WEST~~

Existing S/W
Existing C & G
12"C.I. W
Construction ℄ S69°50'17"E
24"RCP SAS
12" SD
S 68°50'41" E
REMOVE EXISTING 14" SD
Existing C & G
Existing S/W
MH # F14-
Rim Elev=69.72
Inv. Elev. S=64.87
STA 2+87
REMOVE EXIST. M.H
FROM TYPE "A" (1941)
STA. 2+88-22' Rt.
~~REMOVE~~ EXIST INLET
~~BUILD SINGLE TYPE~~
~~"C" INLET~~
GRATE ELEV. = 4969.16
INV. ELEV. = ~~4966.46~~ 4966.39
4" M.P. (1941) Gas Line 1' from S. R.O.W.
2" M.P. (1978) Gas Line 15' from E. R.O.W.
9th Street
~~STA 2+93 - 10' Rt.~~
~~BUILD 4' DIA.~~
~~TYPE "C" MANHOLE~~
RIM EL: ~~4969.71~~ 4969.78
INV: = ~~4965.83 (W)~~ 4965.69 (N)
INV: = ~~4965.32 (E)~~ 4964.79
4965.91 (S)

Existing Pavement @ Centerline
Existing 12" Waterline
Existing 24" R.C.P. SAS

Existing 2"MP (1978) Gas Line 4' from W. R.O.W
Install 59 LF 24" RCP
Lo Cienega Street
P.I. 3+79.32
@ La Cienega ±
Install 5 LF 18" RCP
STA. 3+97 - 40' LT.
INV. ELEV. = 4965.20
~~STA. 4+16-22 Lt.~~
~~BUILD TYPE "A" INLET~~
~~GRATE ELEV. = 4969.55~~
~~INV. ELEV. = 4966.55~~
MH # F14-9/4
Rim Elev. = 69.98
Inv. Elev. N. = 59.18
Inv. Elev. E = 57.63
Inv. Elev. W = 57.62
STA. 3+92 - 12' RT.
BUILD 4' DIA. TYPE "C" MANHOLE
Found 2" Pipe
Existing S/W
Existing C/G
INSTALL ~~33 LF 18"~~ RCP @ ~~0.026~~ 0.033
Construction ℄
24" SD (Abandoned)
24" RCP SAS
S 68°58'58" E
STA. 3+07 ± Rt. REMOVE & REPLACE SAS SERVICE FROM 24" SAS TO 14" SD
24"
14"
Existing C & G
Existing S/W
~~INSTALL 12 LF 18" RCP~~
~~@ 0.0275~~
INSTALLED 9.7 L.F. 18" RCP @ 0.026
INSTALL 126 LF 24" RCP @ ~~0.001~~ 0.0028
STA. 4+03-12' Rt.
REMOVE EXIST. MANHOLE
PLUG EXIST. 14" PIPE TO NORTH
R.O.W. Marker
STA. 3+92 to STA. 4+19 INSTALL 239 LF (TOTAL) 24" RCP @ ~~0.001~~ 0.0001
STA. 4+19 12 Rt.
~~BUILD 4' DIA. TYPE "C"~~
~~MANHOLE~~
APPROXIMATE LIMITS OF ASPHALTIC CONCRETE ARTERIAL PAVEMENT REMOVAL & REPLACEMENT (TYPICAL)
REMOVE EXIST. 14" SD
MATCH LINE STA. 4+50

GRIEGOS ROAD
SYSTEM "B"

104 LF 24" RCP S @ 0.0028
Q_{100} = 1.2
V_{100} = 0.38

239 LF - 24" R.C.P. S @ ~~0.001~~ 0.0001
Q_{100} = 3.4
V_{100} = 1.08

HGL 68.94
HGL 68.34
HGL 68.91
NEW 24" STORM DRAIN
NEW 24" STORM DRAIN
Existing 14" SD (TO BE REMOVED)
Existing 24" SAS
MATCH LINE STA. 4+50

4972 4970 4968 4966 4964 4962 4960 4958 4956

0+00 1+00 2+00 3+00 4+00

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SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9"
Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125' ± North of Pleasant Street Elev. = 4972.038

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK STAKED BY Scanlon & Associates DATE 11-88
AS-BUILTED BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY Scanlon & Associates DATE 11-88
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
ROBERT A. VERHINES NEW MEXICO 8705 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. | DATE | REMARKS | BY
DESIGNED BY S.A.V. DATE FEB 86
DRAWN BY C.L.W. DATE FEB 86
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B)
STORM DRAIN — STATION 2+88 TO 4+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		10/23/87	Liquid Waste		10/19/87
A.C.E.-Design	"	"	Traffic		10/22/87
A.C.E.-Hydrology	Steve Ewing	10/22/87	Water		10/19/87

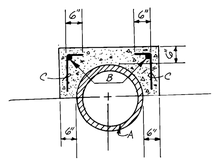
DRAWING NO. 2461 | MAP NO. F-14 | SHEET 4 OF 21

Scanlon Job No. 85113

RECORD DRAWING

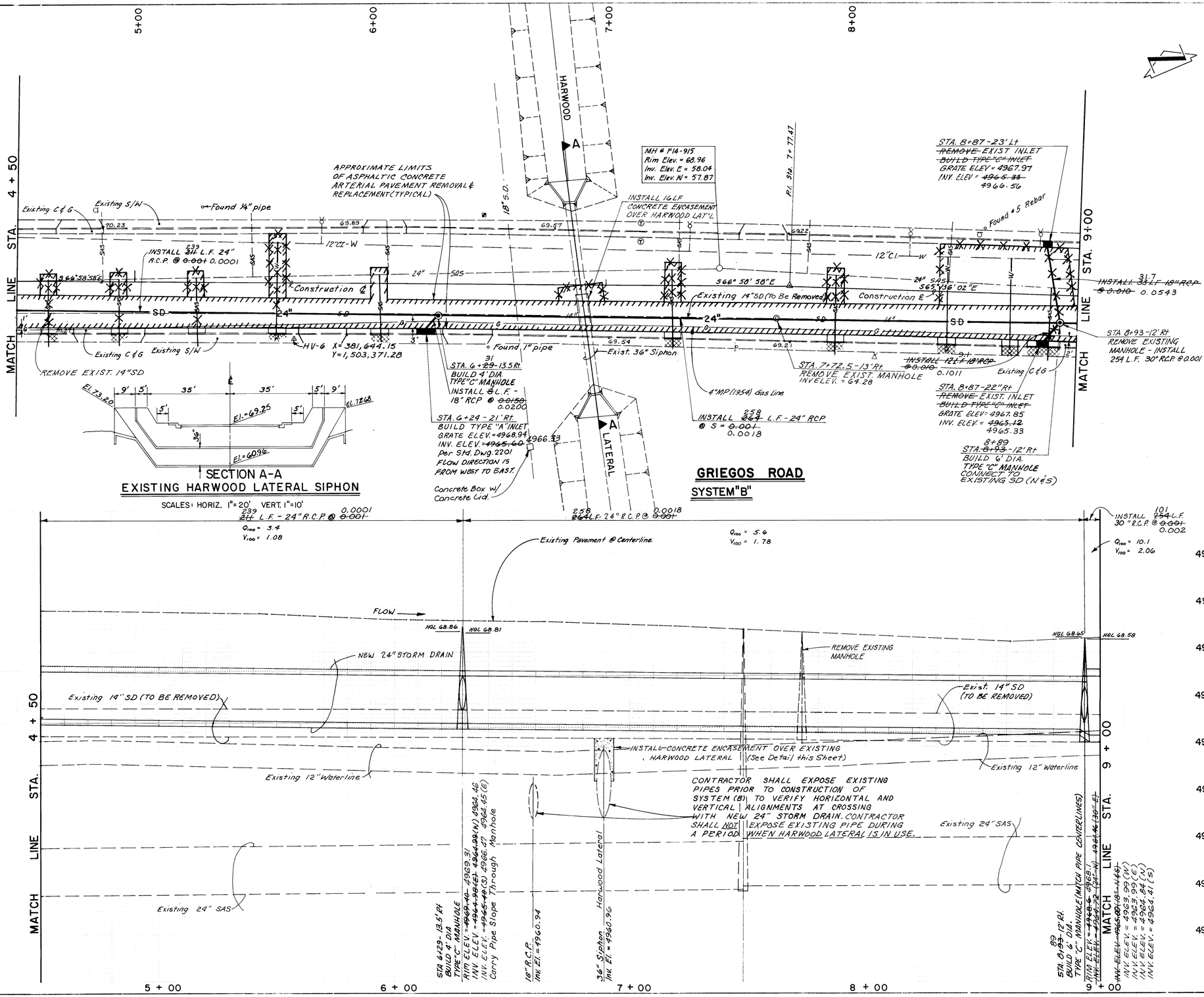
NOTES

1. All spot elevations shown are existing top of curb unless otherwise noted.
2. All RCP Shall Conform to ASTM C-76. See General Notes for pipe class.
3. It will be the responsibility of the contractor to support all gas main and service lines where they are within the area of excavation
4. Remove and Replace Existing SAS Service Lines at Sta. 4+63±, 4+93±, 5+26±, 6+04±, 7+28±, 7+98± and 8+89± from R.O.W. Line to Existing 24" S.A.S.
5. Remove and Replace Existing Water Service Lines at Sta. 5+60±, 8+45± and 8+72± from Main to Meter.



A. Pipeline as Shown on Plans
B. 2-No.4 Bars, Cont. with 3" Clearance
C. No. 4 Bars, at 36" O.C. with 2" Clearance at Bottom Ends.

HARWOOD LATERAL CONCRETE ENCASEMENT DETAIL



AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc. DATE: 11-88
AGENCY: Scanlon & Associates
INSPECTED BY: DATE:
ACCEPTANCE BY: DATE:
VERIFICATION BY: Scanlon & Associates DATE: 11-88
DRAWINGS CORRECTED BY: MICRO-FILM INFORMATION
RECOMMEND BY: DATE:
NO:

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125' ± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD:
DATE:
NO.

ENGINEER'S SEAL
NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER
Scott A. Verhines

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE		S.A.V.
	DATE		C.L.W.
	DATE		

26 246 10588

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

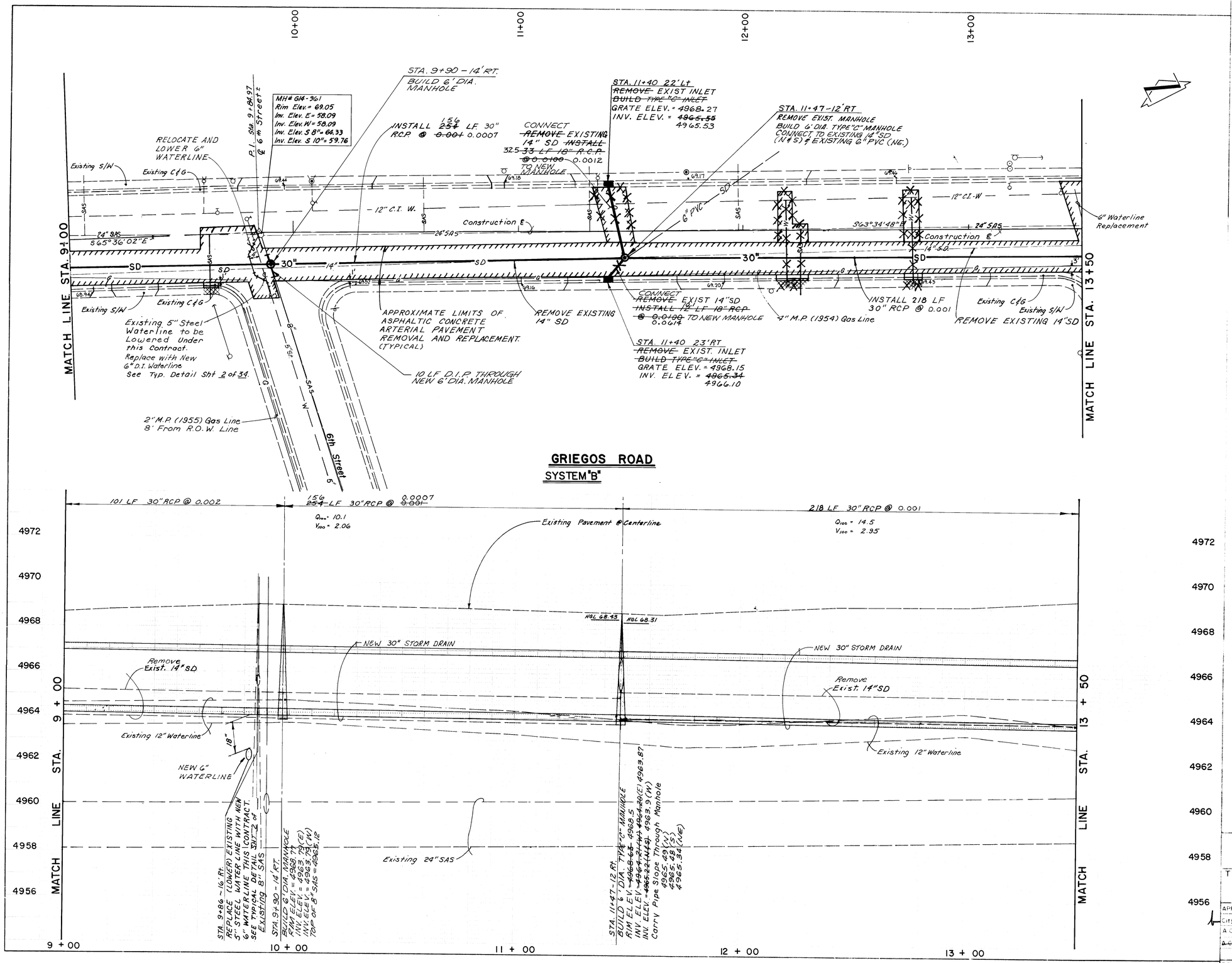
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B)
STORM DRAIN — STATION 4+50 TO 9+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/27/87	Liquid Waste	[signature]	10/21/87
A.C.E. - Design	" "	"	Traffic	[signature]	10/22/87
~~A.C.E.~~ - Hydrology	[signature]	10/22/87	Water	[signature]	10/27/87

DRAWING NO. 2461 | MAP NO. F - 14 | SHEET 5 OF 21

Scanlon Job No. 85113

RECORD DRAWING



NOTES

1. All spot elevations shown are at existing top of curb unless otherwise noted.
2. It will be the responsibility of the contractor to support all gas main and service lines where they are within the area of excavation.
3. All R.C.P. Shall conform to ASTM C-76. See General Notes for pipe class.
4. Remove and Replace Existing SAS Service Lines at Sta. 9+63± and 12+25± from R.O.W. Line to Existing 24" SAS.
5. Remove and Replace Existing Water Service Lines at Sta. 12+19± and 12+75± from Main to Meter.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
WORK STAKED BY: Scanlon & Associates Jan 11-88
AS-BUILTED BY: DATE
FIELD DRAWINGS BY: Scanlon & Associates DATE 01-88
CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9"
Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street
125 ± North of Pleasant Street Elev. = 4972.038

ENGINEER'S SEAL
JOSEPH L. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO | DATE | REMARKS | BY
DESIGNED BY S.A.V. DATE FEB 86
DRAWN BY C.L.W. DATE FEB 86
CHECKED BY DATE

2.6 24610688

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B)
STORM DRAIN — STATION 9+00 TO 13+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		10/27/87	Liquid Waste		10/20/87
A.C.E. - Design		"	Traffic		10/27/87
A.C.E. - Hydrology	Steve Bohning	10/22/87	Water		10/21/87

DRAWING NO 2461 | MAP NO. G-14 | SHEET 6 OF 21

Scanlon Job No. 85113

RECORD DRAWING

GRIEGOS ROAD SYSTEM "B"

66'LT.
STA 17+08 ~~6+16~~ - BUILD 4' DIA. MANHOLE OVER EXISTING 24" DIA S.D. - MATCH CROWN OF 18" LATERAL TO CROWN OF 24" S.D. } RIM ELEV. = 4970.40, INV. = 4963.90 (N & S), INV. = 4965.08 (W)

MH # G14 - 91
Rim Elev = 69.85
Inv. Elev (N) 69.62
Inv. Elev (S) 69.53
ABANDON

MH # G14 - 72
Rim Elev. = 69.42
Inv. Elev. E = 58.67
Inv. Elev. W = 58.67
Inv. Elev. S = 64.32

STA. 14+28 TO STA. 15+43 Lt
REMOVE AND REPLACE 100 Sq. Yd. ARTERIAL ASPHALT PAVING PER CITY OF ALBQ. STD. DWG. P-25; 115 L.F. ± STD. CONCRETE CURB & GUTTER AND 63 Sq. Yd. CONCRETE DRIVEPADS & SIDEWALKS TO ELIMINATE PRESENT PONDING ON STREET.

STA. 14+00 - 6' Rt
END REMOVAL OF EXIST 14" SD PLUG PIPE AND ABANDON REMAINDER TO EAST

CONNECT ~~REMOVE~~ EXISTING 14" S.D. ~~INSTALL 45 L.F. - 18" R.C.P.~~ 0.0344 ~~0.010~~ TO NEW MANHOLE

REMOVE & REPLACE 23 L.F. MEDIAN CURB & GUTTER

APPROXIMATE LIMITS OF ASPHALTIC CONCRETE ARTERIAL PAVEMENT REMOVAL & REPLACEMENT

STA. 15+33 - 33' Lt
~~REMOVE~~ EXIST INLET
~~BUILD TYPE "C" INLET~~
GRATE ELEV = 4968.37
INV. ELEV = ~~4965.53~~ 4965.79

M.H. # G14 - 75
Rim Elev = 69.82
Inv. Elev E = 58.72
Inv. Elev. W = 58.61
Inv. Elev. N = 60.26

STA. 16+90 - 60' Rt
BUILD TYPE "A" INLET
GRATE ELEV. = 4969.56
INV. ELEV. = ~~4966.57~~ 4968.27
REMOVE & REPLACE 10 L.F. CURB & GUTTER, 1350 FT ± SIDEWALK
INSTALL 19 LF - 18" R.C.P. @ 0.02

MH # G14 - 21
Rim Elev. = 69.78
Inv. Elev. E = 58.72
Inv. Elev. W = 58.66
Inv. Elev. N = 58.68

4" M.P. (1957) Gas Line 7' from E. R.O.W.

HV-5 x = 382,752.86 y = 1,502,918.29

STA 17+83
STA ~~17+73~~ - 35' Lt
BUILD TYPE "A" INLET
GRATE ELEV = 4969.51
INV. ELEV. = ~~4966.51~~ 4963.51
INSTALL 52 L.F. - 18" R.C.P. @ 0.0273
3" Conduit
REMOVE 30 L.F ± EXISTING 14" DIA S.D. PLUG REMAINING ENDS
NEW 21" SAS - SEE SHEET 13
INSTALL PEDESTAL SIGNAL FOUNDATION TYPE I
INSTALL 2" TRAFFIC SIGNAL CONDUIT
INSTALL ~~152.5~~ 143 L.F. - 42" R.C.P. @ ~~0.001~~ 0.0042
INSTALL 46 LF-18" RCP @ 0.0280
~~STA 17+73~~ - 18.5' Rt STA. 17+88
BUILD 6' DIA. MANHOLE
Sta. 17+85 - 39' Rt. - Remove Exist. Drop Inlet, Plug Exist. 14" S.D., Remove & Replace 30 L.F. Curb & Gutter & R = 25', 173 Sq. Yd. ± Sidewalk Around Return. Build Wheelchair Ramp. (See Note 10 this Sheet)
STA 17+85 - 63' Rt
BUILD TYPE ~~A~~ INLET "C"
GRATE ELEV. = 69.38
INV. ELEV. = 66.38
REMOVE & REPLACE 9.50 YD ± CONC. SIDEWALK

4" M.P. 1951 Gas Line 6' from E. R.O.W.

MH # G14 - 83
Rim Elev. = 69.83
Inv. Elev. N = 61.99
Inv. Elev. S = 61.93
Inv. Elev. N.E. = 64.06
Inv. Elev. N.E. = 63.79
Inv. Elev. S.E. = 64.48

STA. 13+64
REMOVE EXIST. M.H.

MH # G14 - 71
Rim Elev. = 69.64
Inv. Elev. E = 58.59
Inv. Elev. N = 58.56
Inv. Elev. N = 60.32

STA. 15+31 - 33 Rt.
~~REMOVE~~ EXIST. INLET
~~BUILD TYPE "C" INLET~~
GRATE ELEV.: 4968.45
INV. ELEV = ~~4965.45~~ 4965.88

REMOVE & REPLACE 85 L.F. MEDIAN CURB & GUTTER

STA. 15+38
REMOVE EXIST. M.H. ~~& PLUG 14" S.D.~~
INV. ELEV. 4963.64
STA ~~15+37~~ 12' Rt.
BUILD 6' DIA. MANHOLE

CONNECT ~~REMOVE~~ EXIST. 14" S.D. ~~INSTALL 28 L.F. - 18" R.C.P. @ 0.0185~~ 0.0391 TO NEW MANHOLE

STA. 17+32 - 41' Rt.
BUILT 4' DIA. M.H.
RIM = 4969.96
INV. ELEV. = 4963.43 (S)

STA 17+31 - 18.5 Rt
BUILD 6' DIA MANHOLE OVER EXIST. 24" DIA STORM DRAIN - REMOVE 5.25 ± L.F. EXISTING STORM DRAIN

INSTALL ~~57~~ 41.5 L.F. - 42" R.C.P. @ ~~0.001~~ 0.0018

2" M.P. 1950 Gas Line 12' from R.O.W.

STA. 13+65 - 11.5' Rt.
BUILD 6' DIA. TYPE "C" MANHOLE

STA. 14+98 - 18' Rt
BUILD 6' DIA. MANHOLE

Sta 16+97 - 36' Rt.
BUILD TYPE "C" INLET
GRATE ELEV: 4969.35
INV. ELEV. = ~~4966.35~~ 4966.43

INSTALL ~~27~~ 33 LF 36" RCP @ ~~0.001~~ 0.0044

INSTALL ~~171~~ 175 L.F. 18" R.C.P. @ ~~0.0233~~ 0.1401

4" M.P. (1954) Gas Line

2" M.P. (1942) Gas Line 6' from W. R.O.W.

INSTALL ~~173~~ 175 L.F. 36" R.C.P. @ ~~0.001~~ 0.0005

INSTALL ~~161~~ 165 L.F. - 36" R.C.P. @ ~~0.001~~ 0.0015

INSTALL PEDESTAL SIGNAL FOUNDATION TYPE I

INSTALL 2" TRAFFIC SIGNAL CONDUIT

Existing Traffic Signal Conduit

REMOVE EXISTING TRAFFIC SIGNAL FOUNDATION - INSTALL PULL BOX (TYPICAL EAST & WEST MEDIANS)

REPLACE 8" CP WITH 10 L.F. OF 8" DI PIPE. PROVIDE 18" MIN CLEARANCE BELOW 8" SAS IN M.H.

EXISTING 4" WATERLINE TO BE LOWERED & REPLACED WITH 6" DI. WATERLINE TO A POINT OPPOSITE S.S.W. RETURN.

Existing 8" S.A.S.

Existing 24" SAS

Existing 10" SAS

Existing 14" S.D.

Existing 12" Waterline

Existing 24" SAS

Existing 4" Steel Water Line To be lowered & Replaced W/6" D.I. See Typical Detail Sht. 2-2

Sta. 13+65 - BUILD 6' DIA. TYPE "C" MANHOLE
RIM ELEV. = ~~4969.5~~ 4969.05
INV. ELEV. = ~~4966.50~~ (30" W) 4963.66
INV. ELEV. = ~~4963.74~~ (36" E) 4963.65
TOP OF 8' D.I. = 4964.91

STA. 15+37 - 12' Rt
BUILD 6' DIA. MH
RIM ELEV. = ~~4969.5~~ 4969.82
INV. = ~~4965.50~~ (48") 4964.32
INV. = ~~4963.74~~ (W) 4963.57
INV. = 4963.57 (E)
(S) 4963.07

Exist. Storm Drain MH (TO BE REMOVED)

STA 17+04
STA ~~16+98~~ - 18 Rt. BUILD 6' DIA. MANHOLE
RIM ELEV. = ~~4969.5~~ 4969.73
INV. ELEV. = ~~4963.50~~ (W) 4963.40
INV. ELEV. = ~~4963.50~~ (E) 4963.32
CARRY PIPE SLOPES THRU MANHOLE

Existing 8" S.A.S.

STA 17+31 - 18.5' Rt BUILD 6' DIA MANHOLE
RIM ELEV. = ~~4969.5~~ 4970.37
INV ELEV. = ~~4963.50~~ (W) 4963.37
INV E.V. = ~~4963.50~~ (E) 4963.32
CARRY PIPE SLOPES THRU MANHOLE
EXIST. SAS M.H.

STA 17+88
STA ~~17+73~~ - 18.5 Rt BUILD 6' DIA MANHOLE
RIM ELEV = 4969.3
INV. ELEV = ~~4963.50~~ (W) 4963.07
INV ELEV = ~~4963.50~~ (E) 4963.06
INV ELEV = ~~4965.50~~ (N 45) 4965.07

Existing 24" SAS

Existing 10" SAS

Removed ~~Existing~~ Mountain Bell Duct banks ~~to be Raised by others Prior to Construction.~~

Existing Top of Pavement at ℄

NEW 36" STORM DRAIN

NEW 42" STORM DRAIN

Re-located Waterline

Exist. 10" Waterline

INSTALLED NEW MOUNTAIN BELL DUCT BANK

REMOVE PORTION OF 14" S.D.

8' D.T. SAS Thru Manhole

Bottom of M.H. - 62.85 ±

RELOCATED 6" WATERLINE

PROPOSED CURB PROFILE NORTH SIDE

T.C. 69.70 T.C. 69.69 T.C. 69.66 T.C. 69.65 T.C. 69.61 T.C. 69.58

HGL 68.08 HGL 68.10 HGL 68.02 HGL 67.91 HGL 67.78 HGL 67.67

Q100 = 14.5 V100 = 2.05
Q100 = 18.9 V100 = 2.67
Q100 = 27.0 V100 = 3.82

218 L.F. 30" R.C.P. @ 0.001

175 ~~173~~ L.F. - 36" R.C.P. @ ~~0.001~~ 0.0005

165 ~~161~~ L.F. - 36" R.C.P. @ ~~0.001~~ 0.0015

27 33 L.F. - 36" R.C.P. @ ~~0.001~~ 0.0044

57 41.5 L.F. - 42" R.C.P. @ ~~0.001~~ 0.0018

143 ~~129.5~~ L.F. - 42" R.C.P. @ ~~0.001~~ 0.0042

4972 4970 4968 4966 4964 4962 4960 4958 4956

13 + 50 14 + 00 15 + 00 16 + 00 17 + 00 18 + 00

MATCH LINE STA. 13 + 50 — STA. 18 + 00 MATCH LINE

NOTES

1. All spot elevations shown are at existing top of curb unless otherwise noted.
2. All Reinforced Concrete Storm Drain Pipe shall conform to ASTM C-76. See General Notes for Pipe Class
3. It will be the responsibility of the Contractor to support all Gas Main and Service Lines where they are within the area of Excavation.
4. When Crossing existing signal conduit replace from median to curb line.
5. Contractor shall Excavate to locate Existing 12" Waterline Prior to Construction of 18" Laterals at Stations 16+95 ± (T.C. 69.61, Inverts may be adjusted at Inlets and Manholes based on Field Conditions encountered at direction of Project Engineer.
6. Remove and Replace Existing SAS Service Lines at Sta. 15+48 ±, 15+98 ± and 16+56 ± from R.O.W. Line to Existing 24" SAS.
7. Remove and Replace Existing Water Service Lines at Sta. 14+46 ±, 14+68 ± and 15+47 ± from Main to Meter.
8. Relocate Existing 10" Waterline through New Storm Drain Manhole, With 10" Ductile Iron Waterline Continuous through Manhole. Provide 3' Minimum Cover on Waterline.

   10" Waterline Lowered below S.D.
9. Abandon Existing SD Manhole and 15" Storm Drain between Manholes. Plug ends of Pipe inside Manholes.
10. Contractor shall Set Reference Stakes Prior to Removal of Existing Curb to Maintain current Radius when Replaced.

PT.	℄ ELEV.
1	4969.44
2	4969.50
3	4969.56

26 24610788

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
WORK PERFORMED BY: Scanlon & Associates — DATE 11-88
INSPECTOR — DATE
AS BUILT SURVEY VERIFICATION BY — DATE
DRAWINGS REVISED BY Scanlon & Associates — DATE 11-88
COMPUTER DISK NO. MICRO-FILM INFORMATION
RECORDED BY — DATE
NO

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125 ± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

NO.	REMARKS / REVISIONS	BY	DATE
	DESIGN		

DESIGNED BY S.A.V. DATE FEB 88
DRAWN BY P.J.R./C.L.W. DATE FEB 88
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B)
STORM DRAIN — STATION 13+50 TO 18+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/27/87	Liquid Waste		12/22/87
A.C.E. - Design	"	"	Traffic		12/22/87
~~A.C.E.~~ Hydrology	Stan Boley	12/22/87	Water		12/22/87

DRAWING NO 2461 | MAP NO. G-14 | SHEET 7 OF 21

Scanlon Job No. 85113

RECORD DRAWING

NOTE:
ALL CONCRETE MEDIAN BETWEEN SECOND ST. & FOURTH ST. WAS REMOVED AND REPLACED.

NOTES

1. All spot elevations shown are at existing top-of-curb unless otherwise noted.
2. All R.C.P. shall conform to ASTM C-76. General Notes for pipe class.
3. It will be the responsibility of the Contractor to support all gas mains and Service Lines where they are within the area of excavation.
4. Remove and Replace Existing SAS Service Lines at Sta. 18+42±, 19+23±, 19+58±, 20+25±, 21+95±, and 22+18± Reconnect to Proposed 21"SAS. See Sheets 13&14.
5. Remove and Replace Existing Water Service Lines at Sta. 18+86± and 21+61± from Main to Meter.
6. New Combination Air Valve Shall be "Val-Matic Model No. 202C" or Approved Equal.
7. The Contractor shall coordinate with P.N.M. for Support of this Pole during Construction. Any associated cost will be Considered incidental to the cost of construction.

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
WORK STAKED BY: Scanlon & Associates DATE 11-88
ASBUILTED BY: DATE
FIELD VERIFICATION BY: Scanlon & Associates DATE 11-88
DRAWINGS COMPLETED BY: Scanlon & Associates DATE 11-88
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9"
Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street
125'± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
ROBERT A. VERMINES
NEW MEXICO
8706
REGISTERED PROFESSIONAL ENGINEER

REMARKS
REVISIONS
NO. DATE BY
DESIGN S.A.V. DATE FEB 88
DRAWN BY C.L.W. DATE FEB 88
CHECKED BY DATE

26 246 10888

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

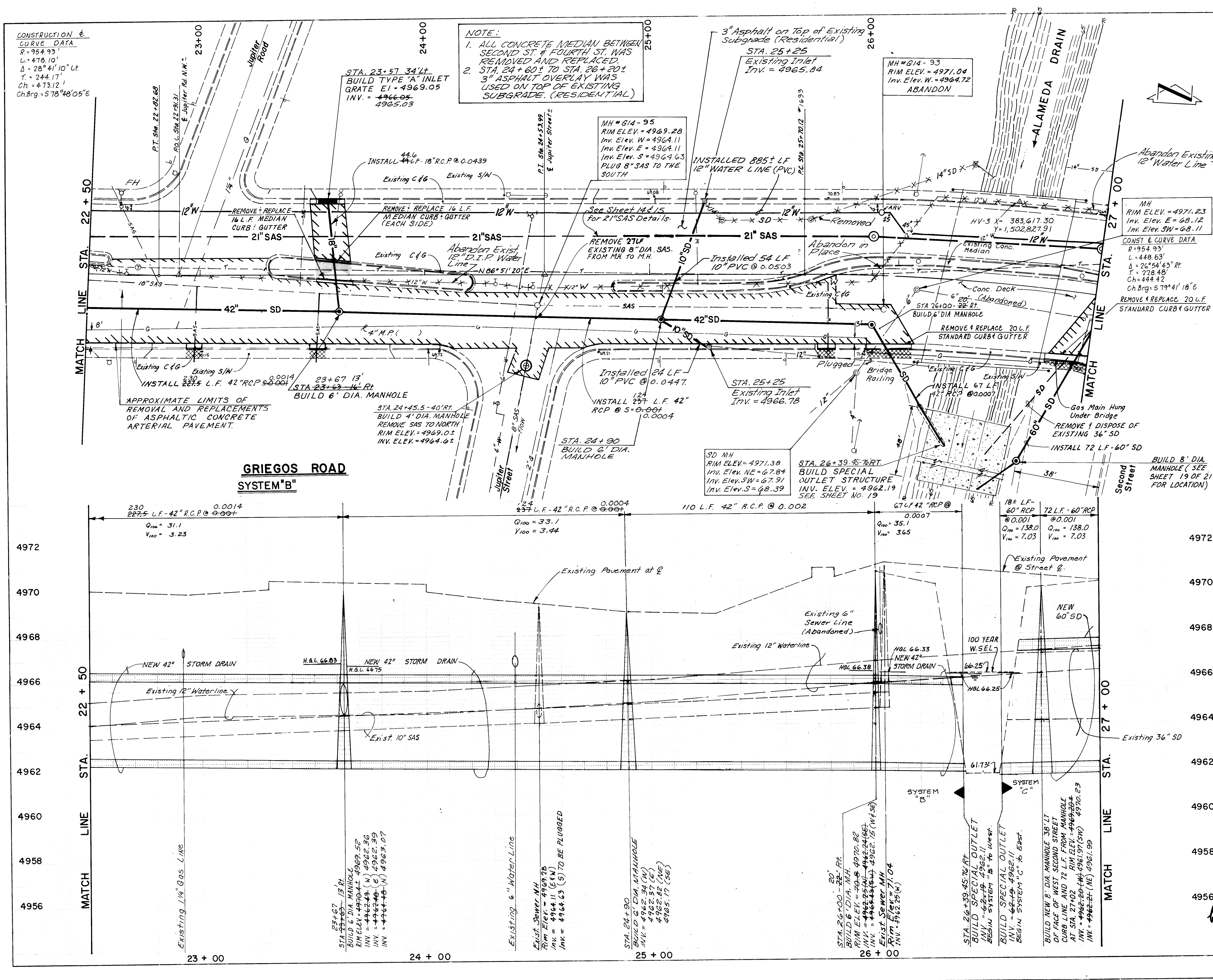
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM(B)
STORM DRAIN — STATION 18+00 TO 22+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		10/27/87	Liquid Waste		10/27/87
A.C.E. Design			Traffic		10/22/87
A.C.E. Hydrology	Steve Boley	10/27/87	Water		10/27/87

DRAWING NO 2461 | MAP NO. G-14 | SHEET 8 OF 21

Scanlon Job No. 85113

RECORD DRAWING



NOTES

1. All spot elevations shown are at existing top of curb unless otherwise noted.
2. All RCP shall conform to ASTM C-76. See General Notes for pipe class.
3. If will be the responsibility of the Contractor to support all gas main and service lines where they are within the area of excavation.
4. Refer to Sheet 12 of 21 for additional work included as part of the Construction of System "B" at the Int'n. of Griegos & Carlton
5. Remove and Replace Existing SAS Service Line at Sta. 22+98± and 23+54± Reconnect to Proposed 21" SAS - See Sheets 13 & 14
6. Remove and Replace Existing Water Service Line at Sta. 26+81± from Existing Main to Meter

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK STARTED BY Scanlon & Associates
INSPECTOR'S ACCEPTANCE
FIELD VERIFICATION BY Scanlon & Associates
DRAWINGS CORRECTED BY Scanlon & Associates
MICRO-FILM INFORMATION

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125'± North of Pleasant Street Elev.=4972.038

SURVEY INFORMATION
FIELD NOTES

ENGINEER'S SEAL

REVISIONS
DESIGNED BY S.A.V. DATE FEB 86
DRAWN BY C.L.W. DATE FEB 86

26 24610988

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

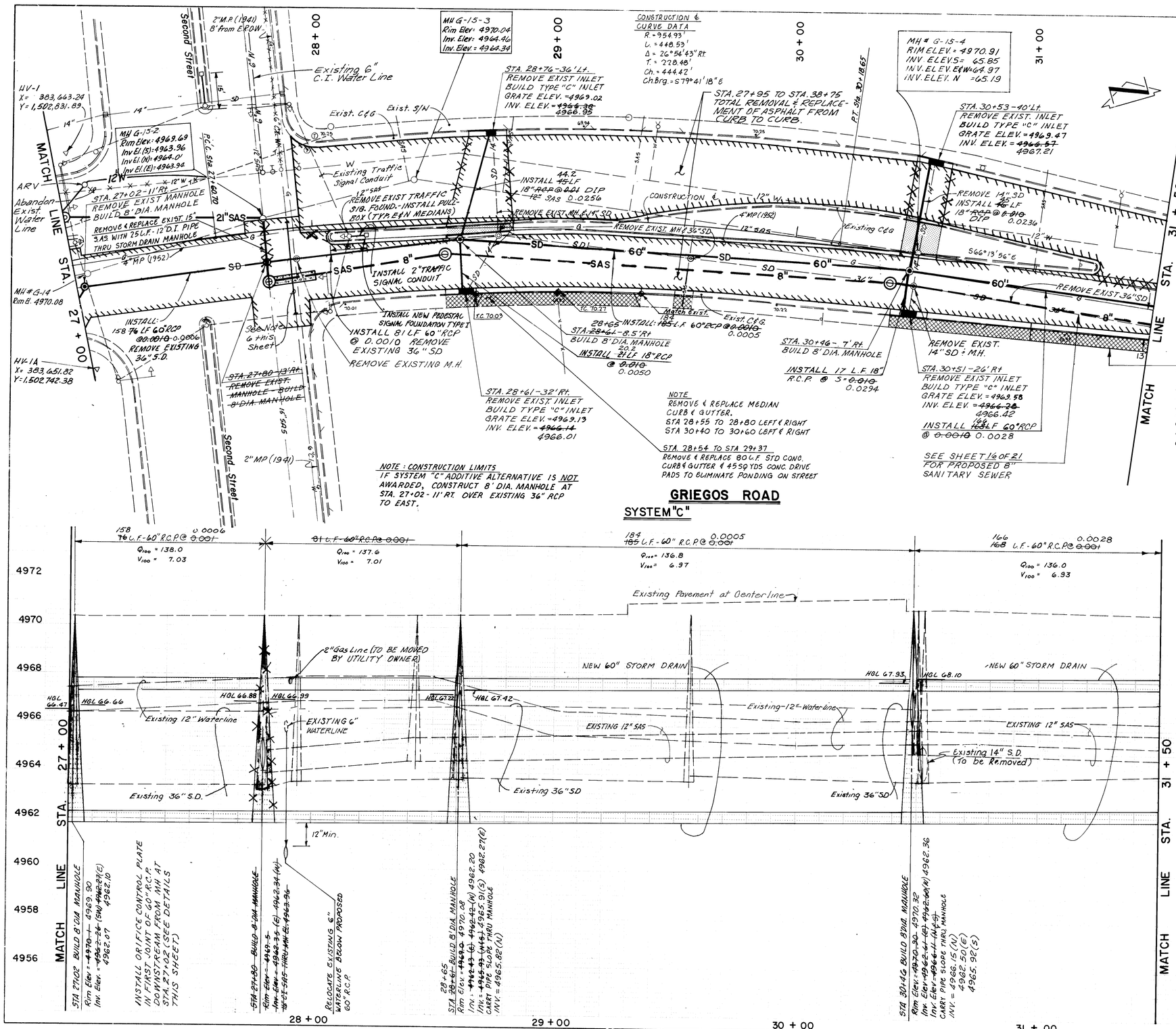
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B&C)
STORM DRAIN — STATION 22+50 TO 27+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		10/27/87	Liquid Waste		10/21/87
A.C.E.-Design			Traffic		10/22/87
A.C.E.-Hydrology		10/22/87	Water		10/21/87

DRAWING NO 2461 | MAP NO. G-14 | SHEET 9 OF 21

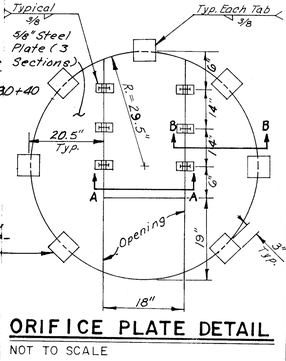
Scanlon Job No. 85113

RECORD DRAWING



NOTES

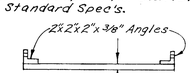
1. All spot elevations shown are at existing top-of-curb unless otherwise noted.
2. All R.C.P. shall conform to ASTM C-76. See General Notes for pipe class.
3. It will be the responsibility of the Contractor to support all gas main and Service lines where they are within the area of excavation.
4. When crossing Existing Signal Conduit - Replace from Median to Curb Line.
5. When crossing Traffic Signal Conduit Replace with 2" Conduit from Curb line to Median.
6. Relocate Existing 6" Waterline below Proposed 60" S.D. and 8" SAS. Encase 8" SAS With Concrete per Std. Details a minimum of 10 feet each Side of 6" Waterline.
7. The Existing 4" Gas Line is to be Relocated by Others from Second St. to Carlton Ave., Prior to Construction, along the North Curb Line.



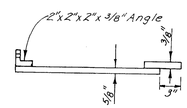
ORIFICE PLATE DETAIL

NOT TO SCALE

NOTE: All Steel Shall be Grade 60. Orifice plate shall be Painted w/ two coats of Red Lead Primer & two coats of Aluminum paint per Sect. 157.3 of the Standard Spec's.



SECTION A



SECTION B

A 3/8" Spacer Shall be Provided at the Pipe Joint if the Orifice Plate is Not Installed Simultaneously with the Pipe Laying Operation.

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

26 246 11 088

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
AS BUILT BY: Scanlon & Associates DATE 11-88
INSPECTED BY: DATE
FIELD CHANGES BY: DATE
VERIFICATION BY Scanlon & Associates DATE 11-88
CORRECTED BY Associates DATE 11-88

MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125'± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
LEON A. VERHINES 8706 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO	REMARKS	DATE	BY
	REVISIONS		
	DESIGN	FEB 86	
	DESIGNED BY S.A.V.	DATE FEB 86	
	DRAWN BY C.L.W.	DATE	
	CHECKED BY	DATE	

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

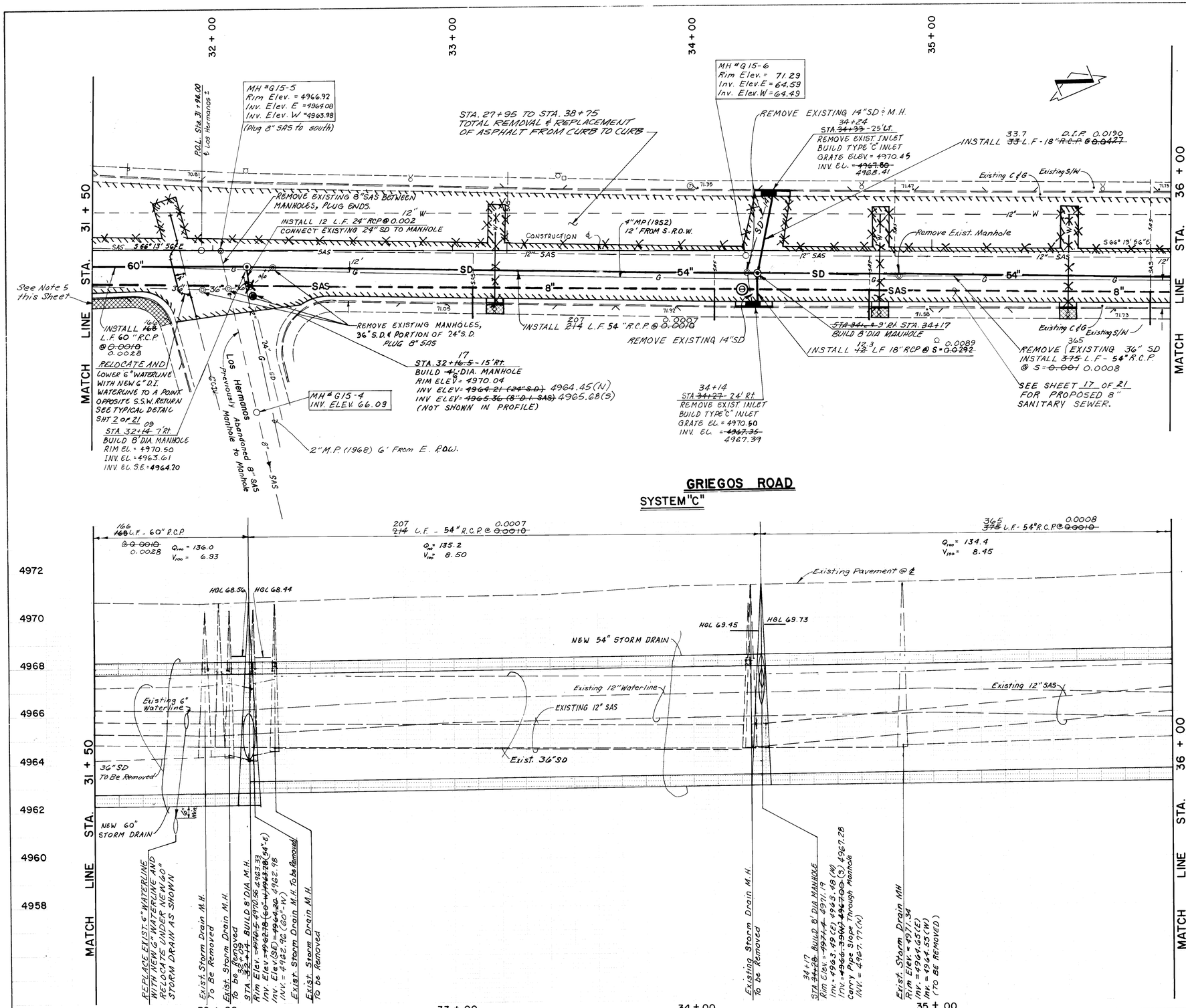
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (C)
STORM DRAIN STATION 27 + 00 TO 31 + 50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/27/87	Liquid Waste	[signature]	10/27/87
A.C.E. - Design	" "	"	Traffic	[signature]	10/22/87
A.C.E. - Hydrology	Steve Beberg	10/23/87	Water	[signature]	10/27/87

DRAWING NO 2461
MAP NO. G-14
SHEET 10 OF 21

Scanlon Job No. 85113

RECORD DRAWING



NOTES

1. All spot elevations shown are at existing top-of-curb unless otherwise noted.
2. All R.C.P. shall conform to ASTM C-76. See General Notes for Pipe class.
3. It will be the responsibility of the Contractor to support all gas mains and service lines where they are within the area of excavation.
4. Remove and Replace Existing Water Service Lines at Sta. 33+18±, 34+78± and 35+57± from Main to Meter.
5. Remove & Replace Existing Curb and Gutter and Sidewalk from Sta. 31+00 Rt. to End of Curb Return at S.W. Corner Griegos and Los Hermanos. Contractor Shall Set Grade Reference Stakes Prior to Removal of Curb & Gutter.
6. The Existing 4" Gas Line is to be relocated by Others from Second Street to Carlton Avenue, Prior to Construction, along the North Curb Line.

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
AS BUILT BY: Scanlon & Associates DATE 11-88
INSPECTED BY: DATE
FIELD VERIFICATION BY: Scanlon & Associates DATE 11-88
CORRECTED BY: Associates DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9 Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125 ± North of Pleasant Street Elev. = 4972.038

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 9705 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. DATE REMARKS BY
DESIGN S.A.V. DATE FEB. 86
DESIGNED BY
DRAWN BY C.L.W. DATE FEB. 86
CHECKED BY DATE

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

26 246111188

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (C)
STORM DRAIN STATION 31+50 TO 36+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/27/87	Liquid Waste	[signature]	10/27/87
A C E - Design			Traffic	[signature]	10/27/87
A C E - Hydrology	Steve Bobey	10/22/87	Water	[signature]	10/27/87

DRAWING NO 2461
MAP NO. G - 15
SHEET 11 OF 21

Scanlon Job No. 85113

RECORD DRAWING

NOTES

1. All spot elevation shown are at existing top of curb unless otherwise noted.
2. All R.C.P. shall conform to ASTM C-76 See General Notes for Pipe class.
3. It will be the responsibility of the Contractor to support all gas mains and service lines where they are within the area of excavation.
4. Remove and Replace Existing Water Service Lines at Sta. 36+79 from Main to Meter.
5. The Existing 4" Gas line is to be Relocated by others from Second Street to Carlton Avenue, Prior to Construction, along the North Curb line.

STA. 27+95 TO STA. 38+75 TOTAL REMOVAL & REPLACEMENT OF ASPHALT FROM CURB TO CURB.

REMOVE EXISTING S.A.S. M.H. & REPLACE 12" SAS WITH 20 L.F. 12" D.I. PIPE

Carlton Street

P.O.L. Sta. 37+77.97 ℄ Carlton (N)

P.O.L. Sta. 38+13.39 ℄ Carlton (S)

STA. 37+96 Exist. MH
Exist. 36" SD w/1' Conc. at Invert
Rim Elev. = 4971.89
Inv. = 4964.29 (N)
Inv. = 4964.04 (S)
Top of 12" Water Line = 4965.73

~~REMOVE EXIST. 36" S.D. & M.H. INSTALL 39 L.F. 24" R.C.P. @ 0.0051~~

STA ~~38+50~~ 47 17' Lt.
REMOVE EXIST. INLET
BUILD TYPE "A" INLET
W/12" SAND TRAP
GRATE EL. = 4971.48
INV. EL. = ~~4967.21~~ 4967.64

P.C. Sta. 38+93.39

Invert to the east from Manhole Sta. 38+21 to be poured next project

HV-2 x=384,704.40
y=1,502,403.97

REMOVE EXIST. 14" SD
INSTALL ~~44~~ L.F. - 18" R.C.P. @ ~~0.0502~~ 0.0700

~~REPLACE & RELOCATE 12" WATER LINE SEE SHEET 2 FOR DETAILS~~

Construction ℄

S 66° 13' 56" E

INSTALL 25 L.F. 54" R.C.P. ~~@ 0.0012~~ W/E.M.D. PLUG END INV. EL. ~~4964.37~~

REMOVE EXIST. 14" SD
INSTALL 47 L.F. - 18" R.C.P. @ ~~0.0463~~ 0.0430

Existing Edge of Pavement

P.T. Sta. 40+31.40

E.O.P. Sta. 40+84.34

Existing C℄G

Existing S/W

REMOVE EXISTING 36" SD INSTALL 375 L.F. 54" RCP @ 0.0010 SYSTEM (C)

SEE SHEET 18 OF 21 FOR PROPOSED 8" SANITARY SEWER

37+95
STA ~~37+93~~ - 25' Lt.
~~F16 NEW~~ 24" S.D. TO EXISTING S.D. MANHOLE
~~RIM El.= 4971.90~~
INV. El. (24") S = 4965.52
INV. El. ~~(24" N = 4965.57~~ 4965.53 (N)
INV. El. (18") E.W. = 4966.27 4966.19 (NE)
RIM EL. = 4971.89

MH # G15-112
Rim Elev. = 72.25
Inv. Elev. (E) = 67.91
Inv. Elev. (SW) = 67.83

37+82
STA ~~38+03~~ 12' Rt.
REMOVE EXIST. MANHOLE
BUILD 8' DIA MANHOLE

STA. 38+02 - 30' RT.
BUILD 4' DIA. MANHOLE
RIM ELEV. = 4972.02
INV. = 4965.85 (S)
INV. = 4965.32 (N)

REMOVE EXIST. 14" SD.
INSTALL ~~13~~ L.F. - 54" R.C.P.
39

STA. 38+63 - 25' Rt.
REMOVE EXIST. INLET
BUILD TYPE "A" INLET
WITH 12" SAND TRAP
GRATE EL. = 4971.07
INV. EL. = ~~4967.20~~ 4967.96

38+21
STA ~~38+16~~ 12' Rt.
REMOVE EXIST. MANHOLE
BUILD 8' DIA. MANHOLE

~~REMOVE 50 L.F. OF EXIST.~~ 8" SAS FROM M.H. TO M.H. AND PLUG AT MANHOLES

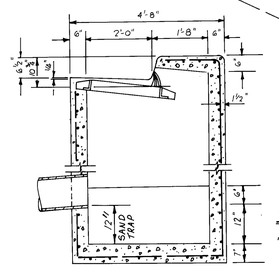
MH # G15-113
INV. ELEV. = 66.64

MH # G15-121

Construction ℄ Curve Data
R = 317.61'
L = 138.01'
Δ = 24° 53' 49" Rt
T = 70.11'
CH = 136.93'
CH BRG = S 53° 47' 02" E

Carlton Street

GRIEGOS ROAD SYSTEM "C"



STORM INLET TYPE "A" - MODIFIED
SECTION B-B TO SHOW 12" SAND TRAP - See Albq. Std. Dwg. K-2
Not to Scale

~~345~~ ~~375~~ L.F. - 54" R.C.P. @ ~~0.0010~~ 0.0008
Q_{100} = 134.4
V_{100} = 8.45

39 L.F. 54" R.C.P. @ ~~0.0010~~ 0.0010
Q_{100} = 132.8
V_{100} = 8.35

25 L.F. 54" R.C.P. @ 0.0010
Q_{100} = 132.0

HGL 71.99
HGL 72.05
HGL 72.17
HGL 71.48

Exist. Pavement @ Centerline

NEW 54" STORM DRAIN SYSTEM (C)

Existing 12" SAS

Existing 12" Waterline

Exist. 36" SD

Existing 12" Waterline

RELOCATED 12" WATERLINE

Existing 4" Waterline

37+82 - 12' Lt.
STA ~~38+03~~ BUILD 8' DIA MANHOLE
Rim Elev. = ~~3972~~ 4971.98
INV. ~~43.87~~ (E) 63.84
INV. ~~43.84~~ 63.79
INV. = ~~63.32~~ (W) 64.76 (SE)

STA ~~38+16~~ 12' Rt.
BUILD 8' DIA MANHOLE
Rim Elev. = ~~43.82~~ 72.12
INV. = ~~43.87~~ (E) ~~43.87~~ (W) 64.96
INV. = ~~65.00~~ (NE) INV. = ~~65.00~~ (SE) 65.00
64.96

~~STA. 38+41 END 54" R.C.P.~~
~~W/STUB WATER TIGHT PLUG~~
~~INV. = 63.94~~

CARLTON STREET LATERAL

39 L.F. 24" R.C.P. @ S = 0.0051

Remove Existing MHs

NOT IN THIS PROJECT

Existing 24" R.C.P. @ S = 0.004 (MDD # 2231)

18" Min.

RELOCATED 12" WATERLINE

STA. 0+00 BUILD 8' MH.
RIM ELEV. = 72.20
INV. (E) = 63.82
INV. (W) = 63.86
INV. (N) = 65.32

STA. 0+09 Existing SAS Manhole
Inv. = 67.89 (E+W)

STA. 0+27 Existing 12" C.I. Waterline - REMOVE & RELOCATE

STA. 0+39 Existing S.D. Manhole
RIM ELEV. = 71.90
Inv. = 63.52 (N)

37 + 00 | 38 + 00 | 0+00 | 0+40 | 41 + 00

4976 4974 4972 4970 4968 4966 4964 4962 4960

STA. 36 + 00 — MATCH LINE

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

AS BUILT INFORMATION

CONTRACTOR: New Concepts, Inc.
AS-BUILT BY: Scanlon & Associates — DATE 11-88
INSPECTED BY: — DATE
ACCEPTED BY: — DATE
VERIFICATION BY: Scanlon & Associates — DATE 11-88
CHECKED BY: — DATE
MICRO-FILM INFORMATION
RECORDED BY: — DATE
NO

BENCH MARKS

NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125' ± North of Pleasant Street Elev. = 4972.038

ENGINEER'S SEAL

SCOTT A. VERHINES — NEW MEXICO — 9078 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY S.A.V. — DATE FEB. 86
DRAWN BY P.J.R. / R.J.H. — DATE FEB 86
CHECKED BY — DATE

26 24611288

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

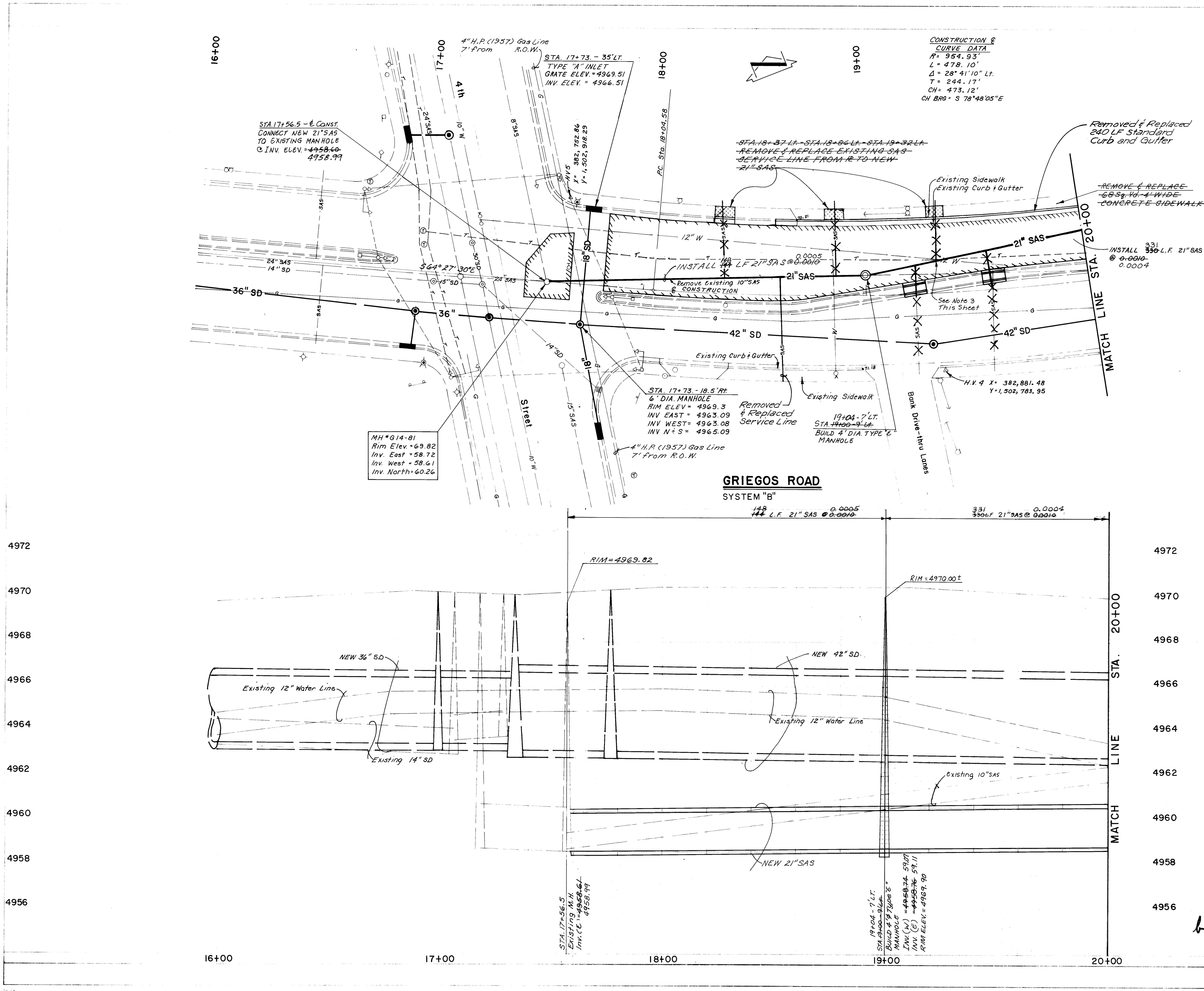
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B & C)
STORM DRAIN STATION 36+00 TO 38+63

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	10/27/87	Liquid Waste	[illegible]	10/27/87
A.C.E. - Design	"	"	Traffic	[illegible]	10/27/87
~~A.C.E.~~ Hydrology	Steve Boberg	10/27/87	Water	[illegible]	10/27/87

DRAWING NO	MAP NO.	SHEET	OF
2461	G-15	12	21

Scanlon Job No. 85113

RECORD DRAWING



NOTES:

1. The Existing 10" SAS is to be abandoned from Sta. 17+56.5 to Sta. 26+05. All Existing Services shown on the Plans or encountered during Construction are to be disconnected from the 10" SAS and reconnected to the new 21" SAS. The Contractor shall be required to remove & replace existing services to a point where a minimum 1% slope can be maintained.
2. All SAS Service disconnections from the Existing 10" SAS main shall be plugged with Concrete at the main.
3. The Contractor shall Support Existing 12" Waterline and Existing Telephone Conduit during Construction of New 21" SAS

AS BUILT INFORMATION

CONTRACTOR: New Concepts, Inc.
INSPECTOR: Scanlon & Associates
FIELD VERIFICATION BY: Scanlon & Associates — DATE 11-88
DRAWINGS CORRECTED BY: — DATE 11-88

MICRO FILM INFORMATION

BENCH MARKS

NMSHC Brass Tablet Stamped "STA. NM47-9"
Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street
125'± North of Pleasant Street Elev.=4972.038

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN		
DESIGNED BY	J.D.R.	DATE 10-86
DRAWN BY	R.H. C.W.	DATE 10-86
CHECKED BY	J.D.R.	DATE 10-86

26 24611388

SCALES:
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

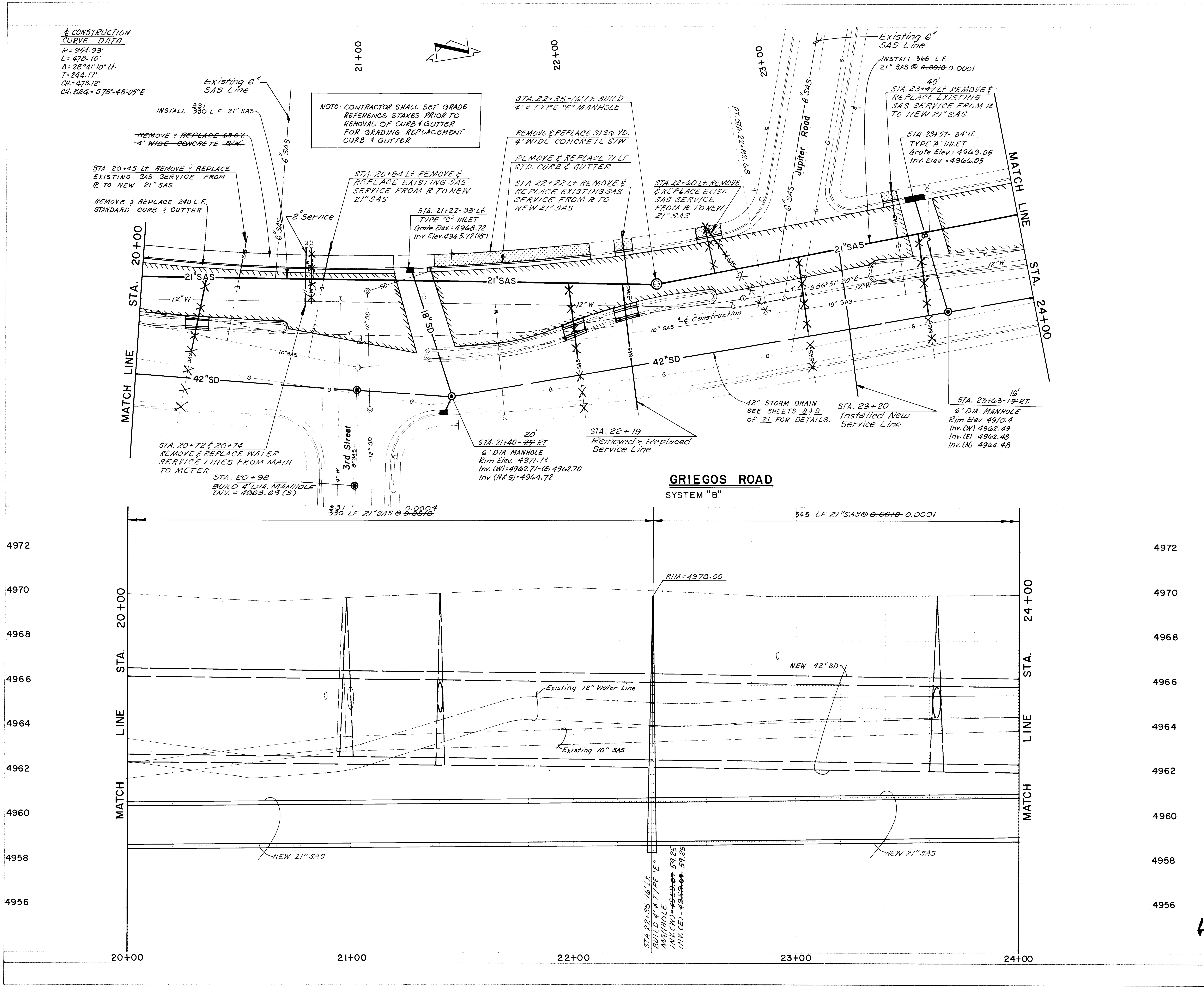
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B)
SANITARY SEWER - STATION 16+00 TO 20+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/27/87	Liquid Waste	[signature]	10/27/87
A.C.E. Design	"	"	Traffic	[signature]	10/22/87
A.C.E. Hydrology	Stan Bebug	10/22/87	Water	[signature]	10/27/87

DRAWING NO.	MAP NO	SHEET	OF
2461	G-15	13	21

Scanlon and Associates Job No. 85113.2

RECORD DRAWING



NOTES:
1. The Existing 10" SAS is to be abandoned from Sta. 17+56.5 to Sta. 26+05. All Existing Services shown on the Plans or encountered during Construction are to be disconnected from the 10" SAS and reconnected to the new 21" SAS. The Contractor shall be required to remove & replace existing services to a point where a minimum 2% slope can be maintained.
2. All SAS Service disconnections from the Existing 10" SAS main shall be plugged with Concrete at the main.

AS BUILT INFORMATION — New Concepts, Inc.; Scanlon & Associates; 11-88

MICRO-FILM INFORMATION

BENCH MARKS: NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125' ± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION — FIELD NOTES — NO. / BY / DATE

ENGINEER'S SEAL

REVISIONS — NO. / DATE / REMARKS / BY

DESIGN — DESIGNED BY J.D.R. DATE 10-86; DRAWN BY R.H. C.W. DATE 10-86; CHECKED BY J.D.R. DATE 10-86

26 24611488

SCALES:
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

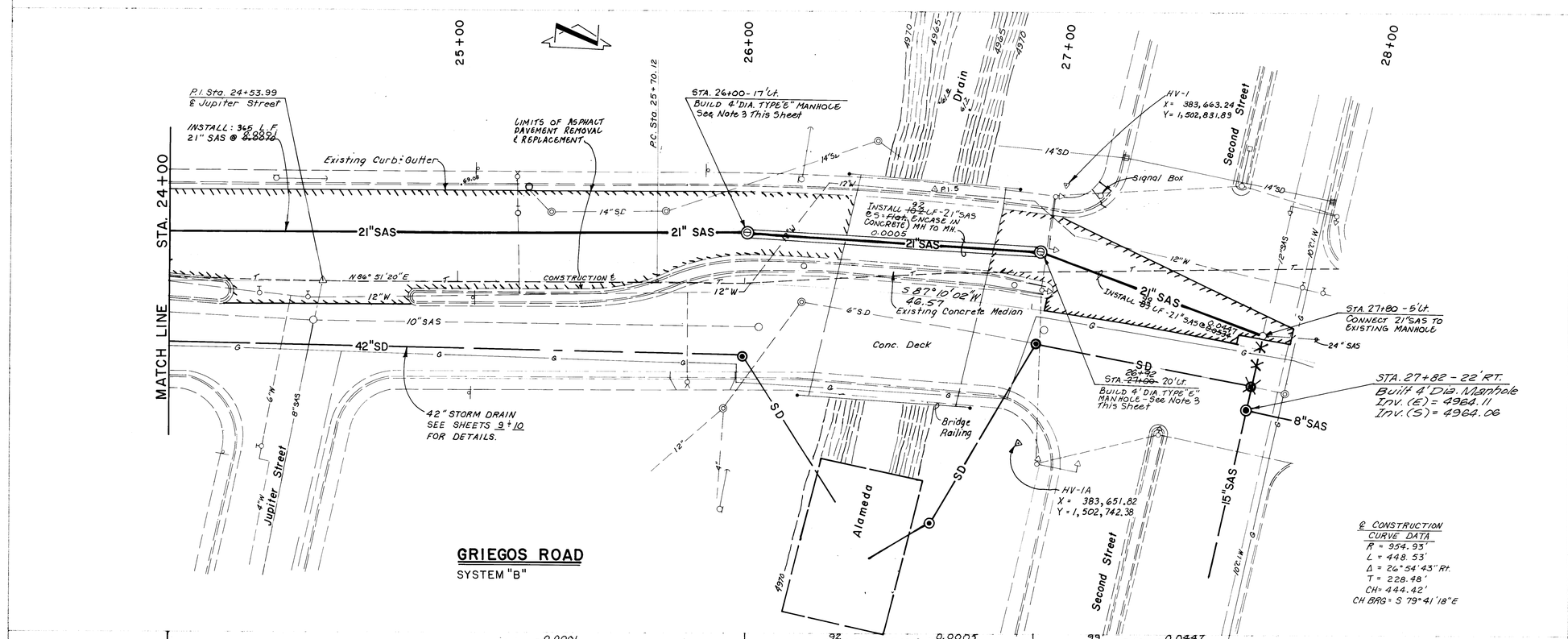
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B)
SANITARY SEWER STATION 20+00 TO 24+00

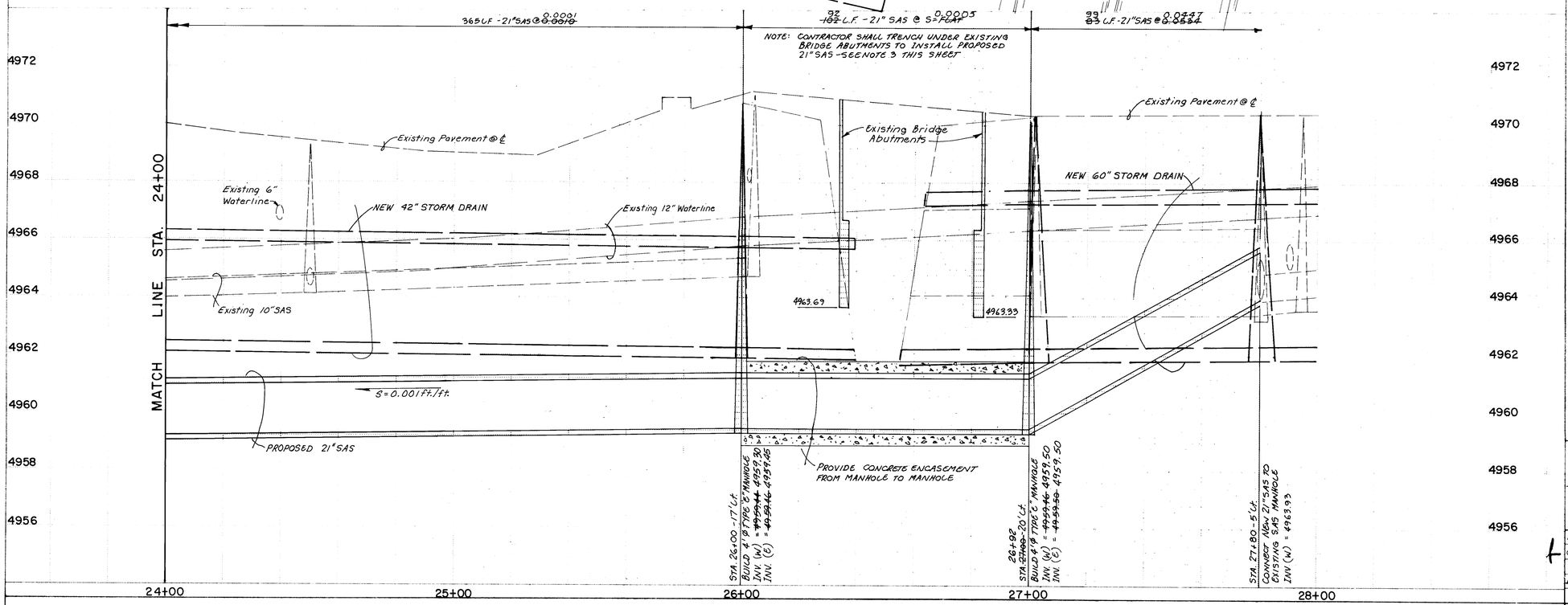
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/22/87	Liquid Waste	[signature]	10/27/87
A.C.E. Design	"	"	Traffic	[signature]	10/22/87
A.C.E. Hydrology	[signature]	10/22/87	Water	[signature]	10/27/87

DRAWING NO 2461 | MAP NO G-15 | SHEET 14 OF 21

Scanlon and Associates Job No. 85113.2

RECORD DRAWING





NOTES:
1. The Existing 10" SAS is to be abandoned from Sta. 17+56.5 to Sta. 26+05. All Existing Services shown on the Plans or encountered during Construction are to be disconnected from the 10" SAS and reconnected to the new 21" SAS. The Contractor shall be required to remove & replace existing services to a point where a minimum 2% slope can be maintained.
2. All SAS Service disconnections from the Existing 10" SAS main shall be plugged with Concrete at the main.
3. The Existing Bridge Abutments are Supported by 12" ϕ Treated Timber Piles spaced 3'-3" O.C. The Contractor shall Excavate below the Abutments at their Outside Face Prior to Construction of the Manholes at STA 26+00 and STA 27+00 to determine Actual Pile Locations. The Manholes may require Adjustment in the field to Align the 21" SAS through the Piles.

AS BUILT INFORMATION
N.M.A. - New Concepts, Inc.
A.M.A. - Anderson & Associates
INSPECTED BY: A.M.A. DATE: 11-88
FIELD BOOK: 9 PAGE: 12
VERIFICATION BY: Anderson & Associates DATE: 11-88
CORRECTED BY: Associates
MICRO FILM INFORMATION
RECORDED BY: DATE:
NO:

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125 ± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	JDR
		DATE	10-86
		DRAWN BY	RH CW
		DATE	10-86
		CHECKED BY	JDR
		DATE	10-86

SCALES:
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

26 246 11 588

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

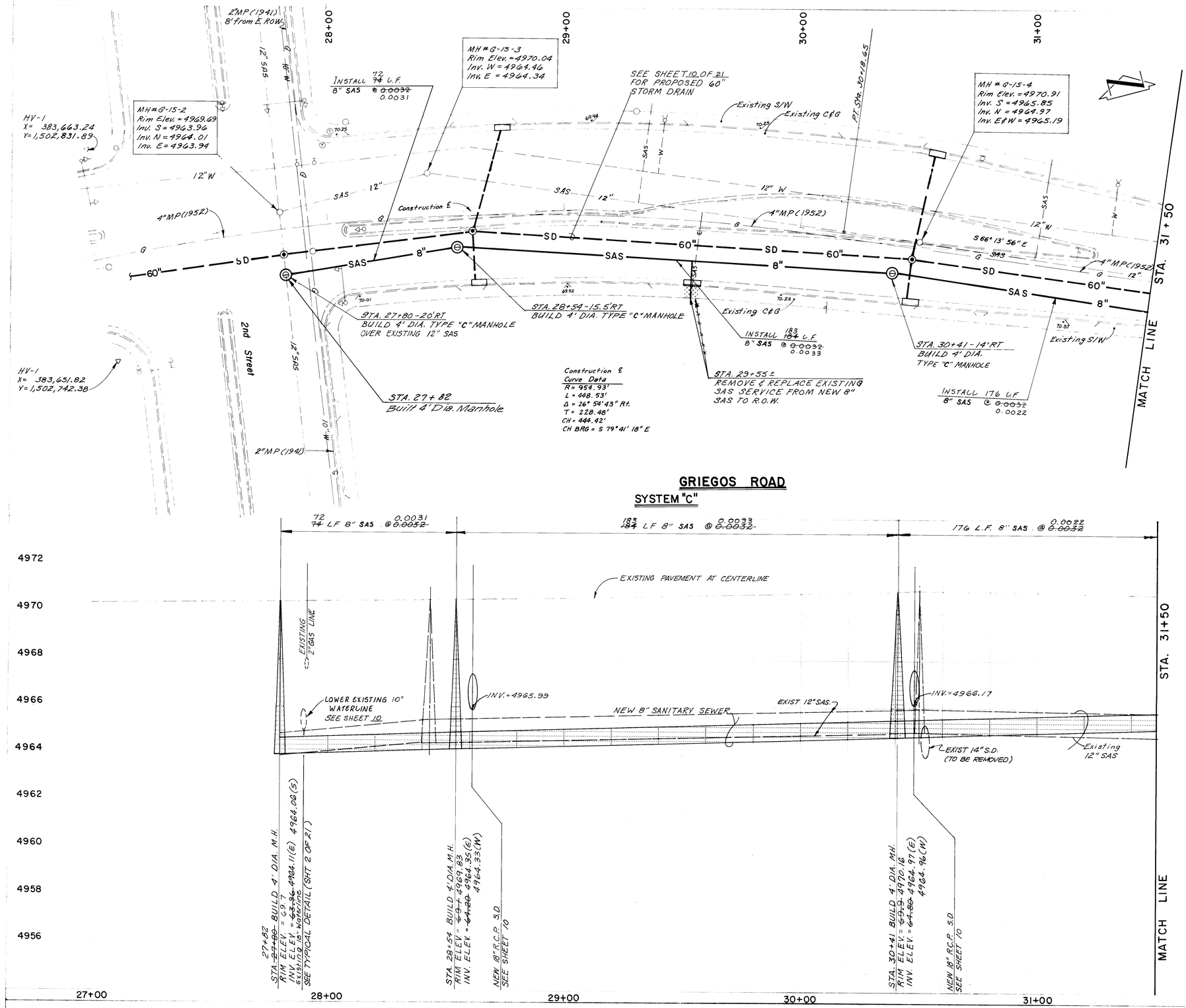
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (B)
SANITARY SEWER STATION 24+00 TO 28+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		10/27/87	Liquid Waste		10/27/87
A C E - Design	"	"	Traffic		10/27/87
~~A C E~~ - Hydrology	Steve Boleg	10/27/87	Water		10/27/87

DRAWING NO. 2461 | MAP NO. G-15 | SHEET 15 OF 21

Scanlon and Associates Job No. 851/3.2

RECORD DRAWING



GRIEGOS ROAD
SYSTEM "C"

NOTES

1. All spot elevations shown are at existing top of curb unless otherwise noted.
2. It will be the responsibility of the Contractor to support all gas mains and service lines where they are within the area of excavation.
3. See sheet 10 for approximate limits of pavement removal.

AS BUILT INFORMATION
N.M.A. - New Concepts, Inc.
Surveyed by Scanlon & Associates 11-88
Inspected by ,A.L
Field Marked by ,A.L
Verification & Correction by Scanlon & Associates LA'L DA' 11-88
MICRO FILM INFORMATION
Recorded By DATE NO

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125' ± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERNINES NEW MEXICO 10278 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. DATE REMARKS BY
DESIGN S.A.V. DATE FEB 86
DRAWN C.L.W. DATE FEB 86
TRACED DATE
CHECKED DATE

26 24611688

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (C)
SANITARY SEWER — STATION 27+80 TO 31+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/27/87	Liquid Waste	[signature]	10/27/87
A.C.E. Design			Traffic	[signature]	10/27/87
A.C.E. Hydrology	Steve Boberg	10/27/87	Water	[signature]	10/27/87

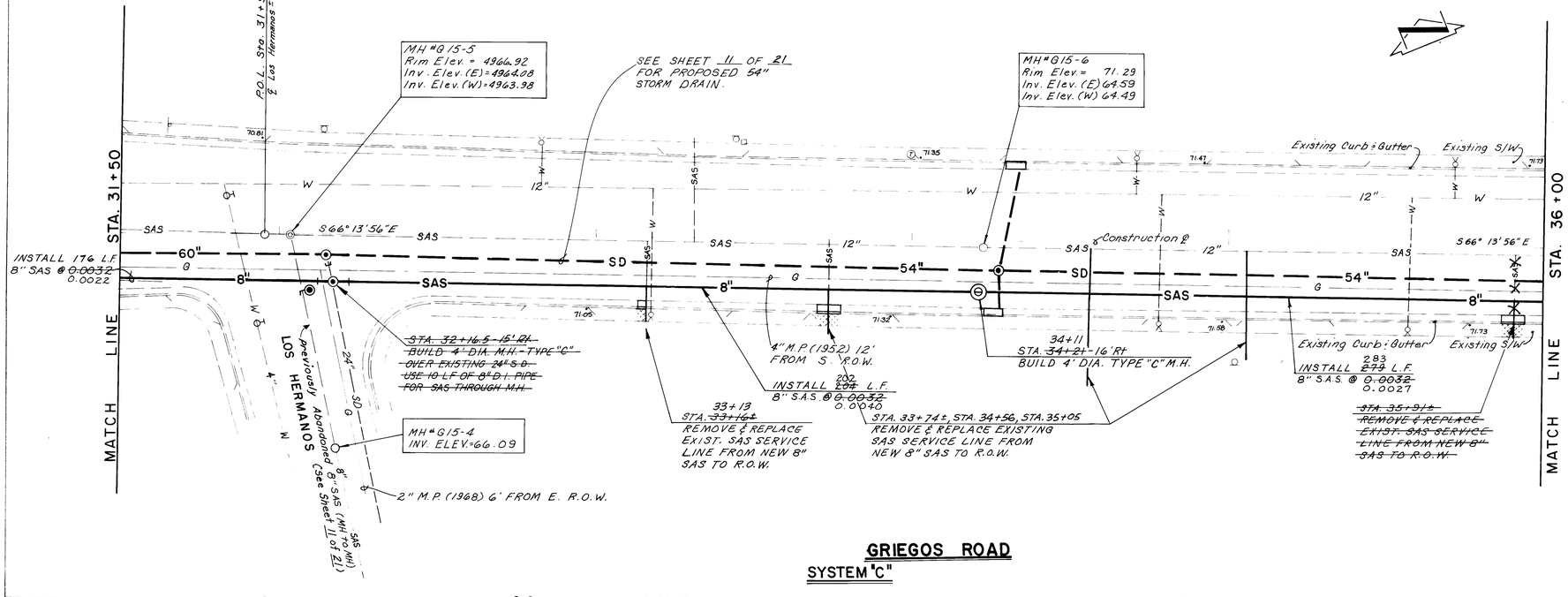
DRAWING NO. 2461 | MAP NO. G-15 | SHEET 16 OF 21

Scanlon Job No. 85113

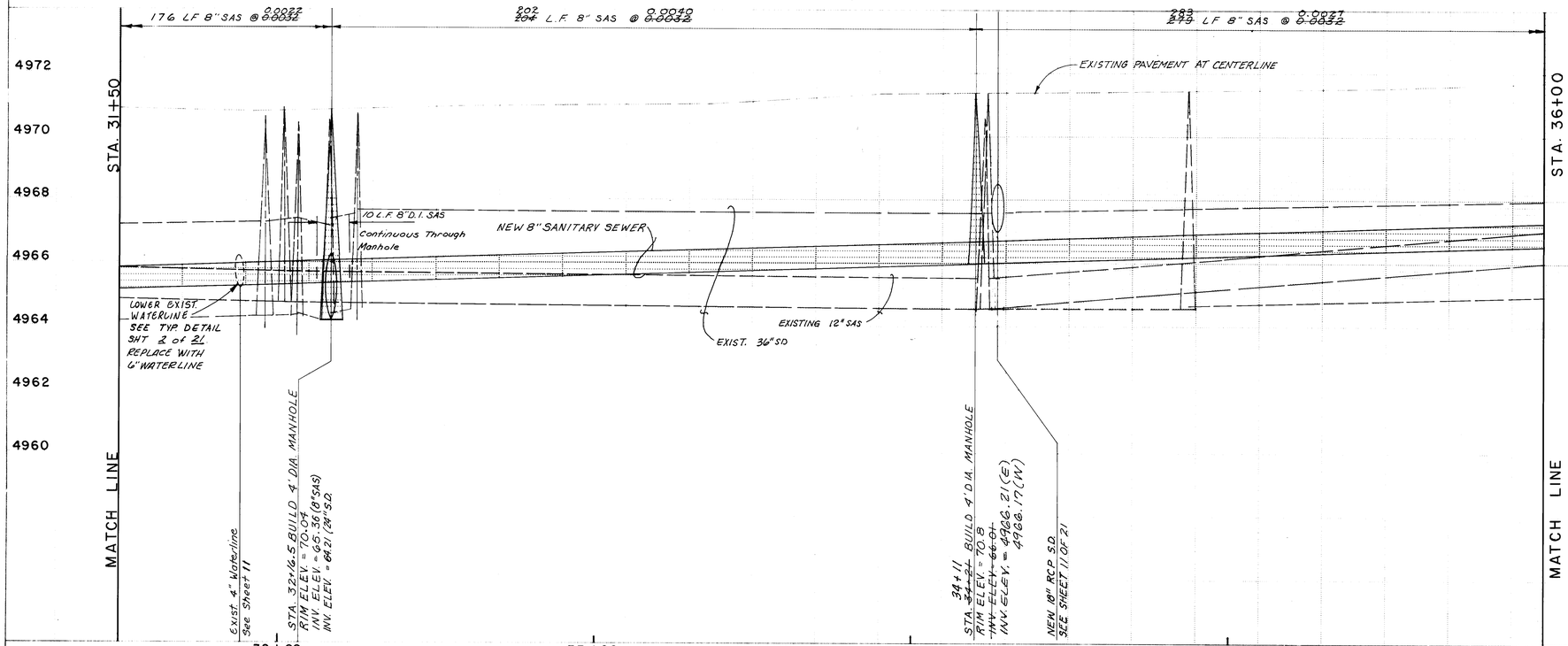
RECORD DRAWING

NOTES

1. All spot elevations shown are of existing top-of-curb unless otherwise noted.
2. It will be the responsibility of the Contractor to support all gas mains and service lines where they are within the area of excavation.
3. See Sheet 11 for approximate limits of pavement removal.



GRIEGOS ROAD
SYSTEM "C"



26 24611788

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GRIEGOS ROAD SYSTEM (C)
SANITARY SEWER - STATION 31+50 TO 36+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[illegible]	10/27/87	Liquid Waste	[illegible]	10/16/87
A.C.E. - Design	" "	"	Traffic	[illegible]	12/22/87
A.C.E. - Hydrology	Steve Blazy	10/27/87	Water	[illegible]	10/27/87

DRAWING NO. 2461 | MAP NO. G-15 | SHEET 17 OF 21

Scanlon Job No. 85113

RECORD DRAWING

AS BUILT INFORMATION
Lic. No. — New Concepts, Inc.
Surveyed by Scanlon & Associates 11-88
Inspected by — —
Field Level by — —
Verification by Scanlon & Associates 11-88
Corrected by Associates 11-88
MICRO FILM INFORMATION
Recorded by — —

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125' ± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD NOTES

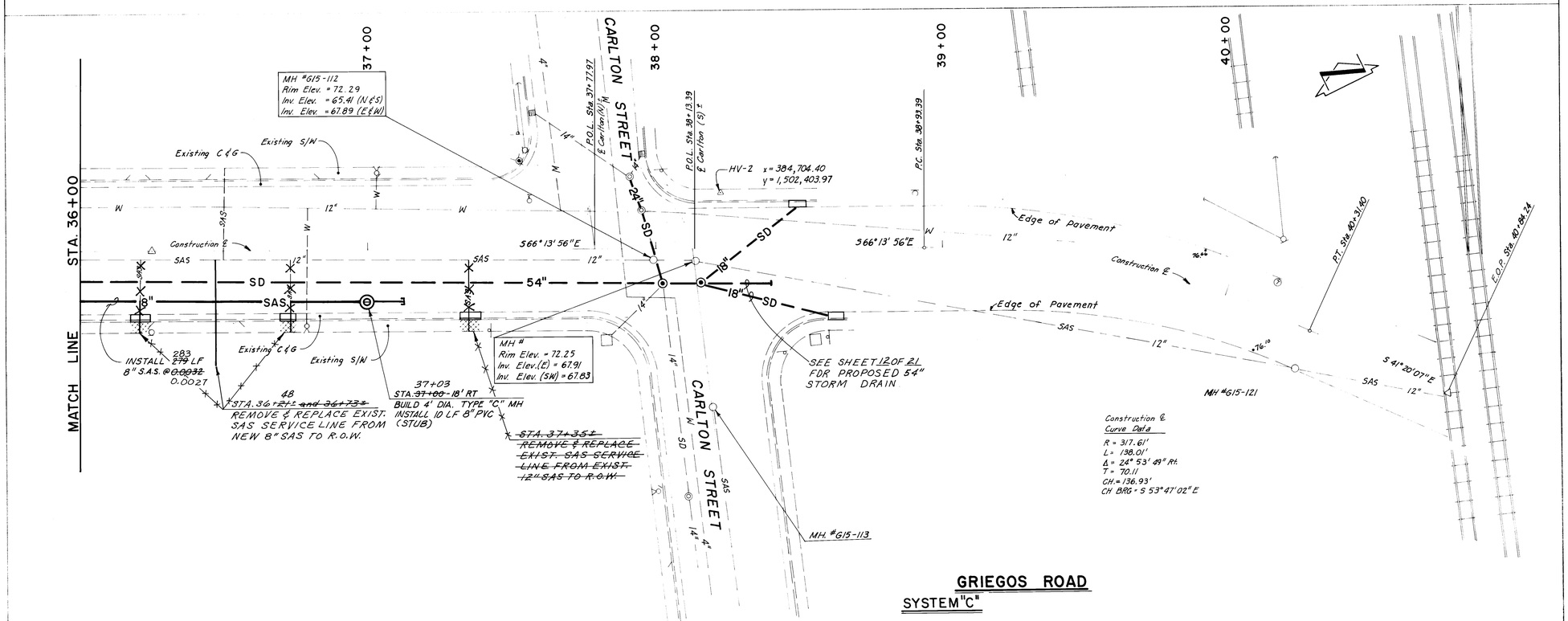
NO	BY	DATE

REMARKS
REVISIONS

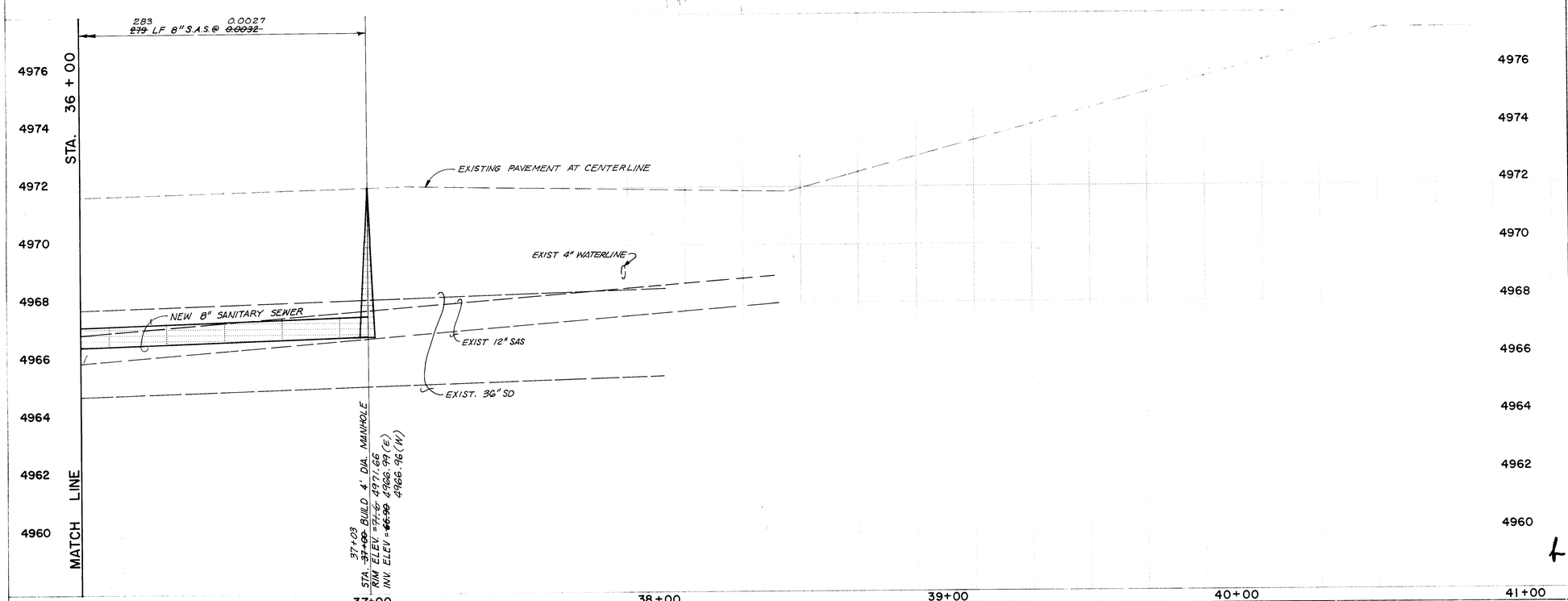
NO	BY	DATE

DESIGN
DESIGNED BY S.A.V. DATE FEB. 88
DRAWN BY C.L.M. DATE FEB. 88
CHECKED BY — DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
ROBERT A. VERMINES
8708
REGISTERED PROFESSIONAL ENGINEER



GRIEGOS ROAD
SYSTEM "C"



NOTES

1. All spot elevations shown are at existing top of curb unless otherwise noted.
2. It will be the responsibility of the Contractor to support all gas mains and service lines where they are within the area of excavation.
3. See sheet 12 for approximate limits for pavement removal.

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
ENGR. & SURV.: Scanlon & Associates
ASSISTANTS: DATE 11-88
FIELD LOCATION BY: Scanlon & Associates DATE 11-88
DRAWINGS BY: DATE
COMPUTER INPUT: MICRO-FILM INFORMATION
RECORDED BY: DATE
NO

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9"
Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street
125' ± North of Pleasant Street Elev. = 4972.038

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 8306 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO DATE REMARKS BY DATE
DESIGN S.A.V. FEB 86
DRAWN BY P.J.R. / R.J.H. FEB 86
CHECKED BY DATE

26 24611888

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

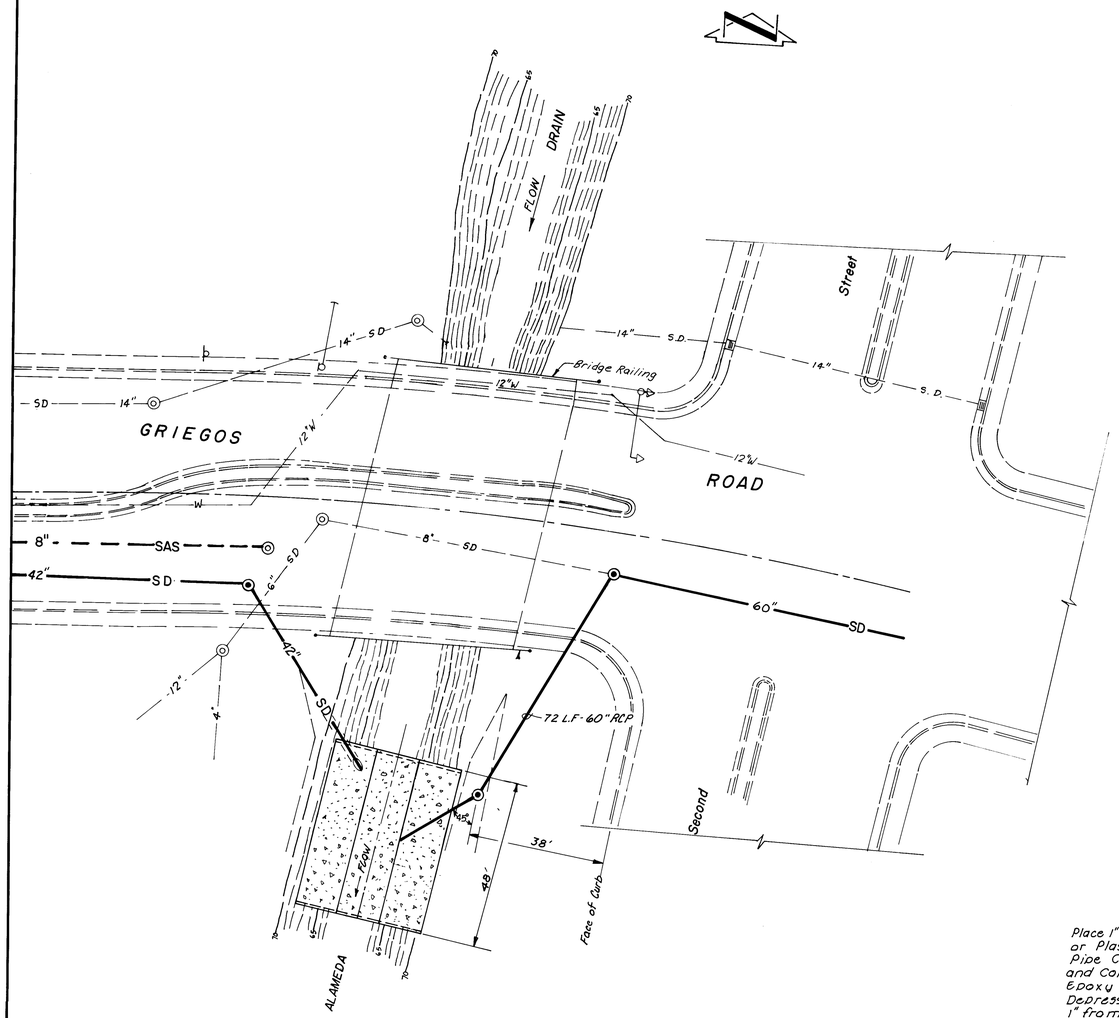
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVMENTS
GRIEGOS ROAD SYSTEM (C)
SANITARY SEWER - STATION 36+00 TO 37+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[signature]	10/27/87	Liquid Waste	[signature]	10/21/87
A.C.E. Design	" "	" "	Traffic	[signature]	10/21/87
A.C.E. Hydrology	Steve Sobey	10/22/87	Water	[signature]	10/21/87

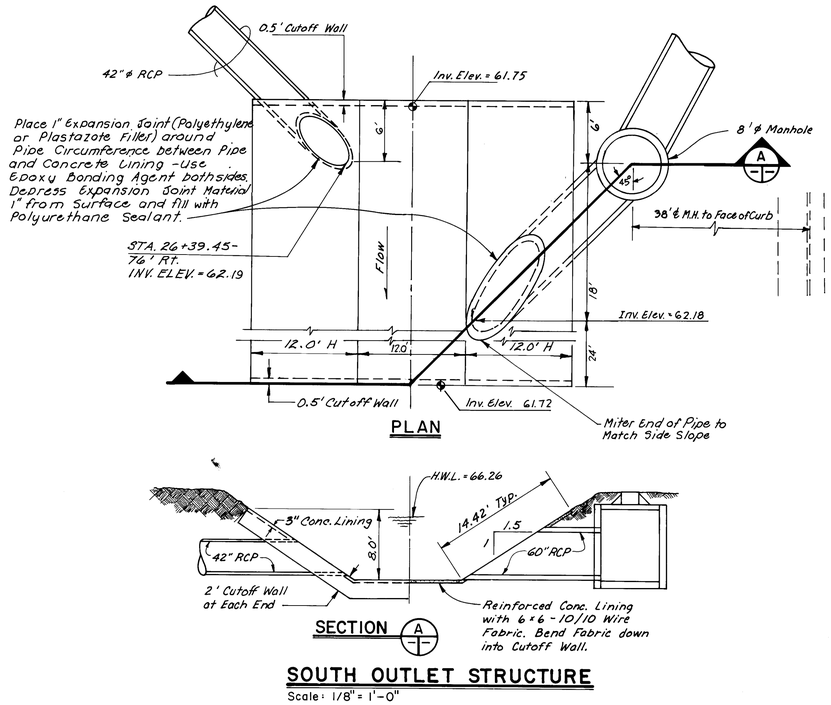
DRAWING NO 2461 | MAP NO G-15 | SHEET 18 OF 21

Scanlon Job No. 85113

RECORD DRAWING



GRIEGOS ROAD
OUTLET STRUCTURE PLAN
Scale: 1"=20'
SEE DETAILS THIS SHEET



SOUTH OUTLET STRUCTURE
Scale: 1/8" = 1'-0"

NOTES

1. All spot elevations shown are at existing top-of-curb unless otherwise noted.
2. All R.C.P shall be ASTM C-76, Class IV
3. It will be the responsibility of the Contractor to support all gas mains and Service Lines where they are within the area of excavation.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9" Set in the Top of a Concrete Post Flush with the Ground in the Center Island of 2nd Street 125'± North of Pleasant Street
Elev. = 4972.038

AS BUILT INFORMATION

	DATE
CONTRACTOR WORK STAKED BY	
INSPECTOR'S CHANGE BY	
FIELD VERIFICATION BY	
DRAWINGS CORRECTED BY	

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 8376 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 12-27-85
		DESIGNED BY O.M.	DATE 1-2-86
		DRAWN BY C.W. & M.A.	DATE
		CHECKED BY	

26 24611988

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
OUTLET STRUCTURE PLAN AND DETAILS
GRIEGOS ROAD SYSTEM

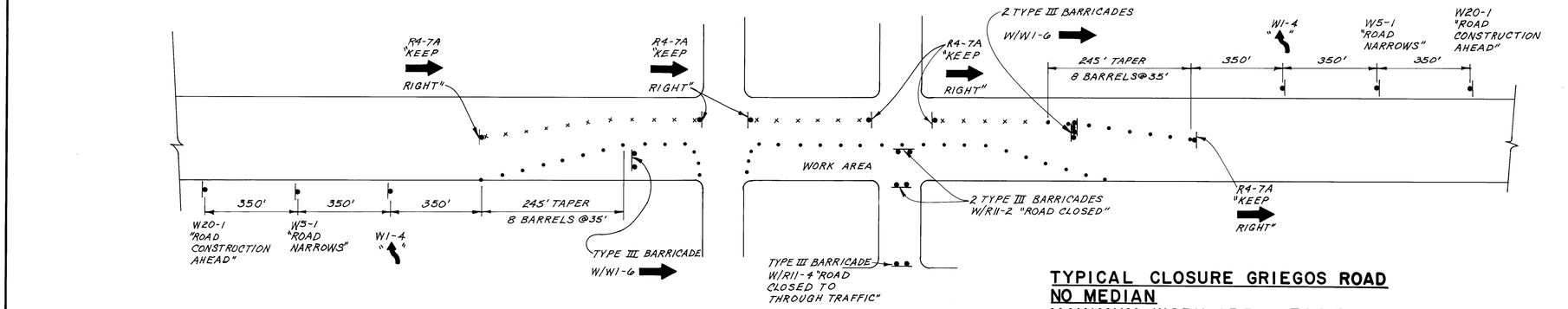
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/28/87	Liquid Waste	PEGO	10/27/87
A.C.E. Design	" "	"	Traffic	TRC	12/28/87
~~A.C.E.~~ Hydrology	Steve Boley	10/22/87	Water	PEGO	10/27/87

DRAWING NO. 2461 | MAP NO. G-15 | SHEET 19 OF 21

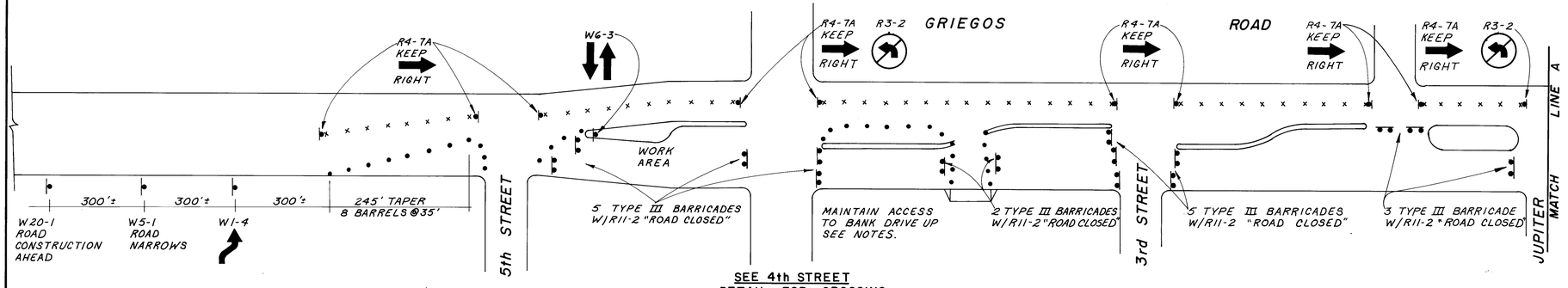
Scanlon Job No. 85113

RECORD DRAWING

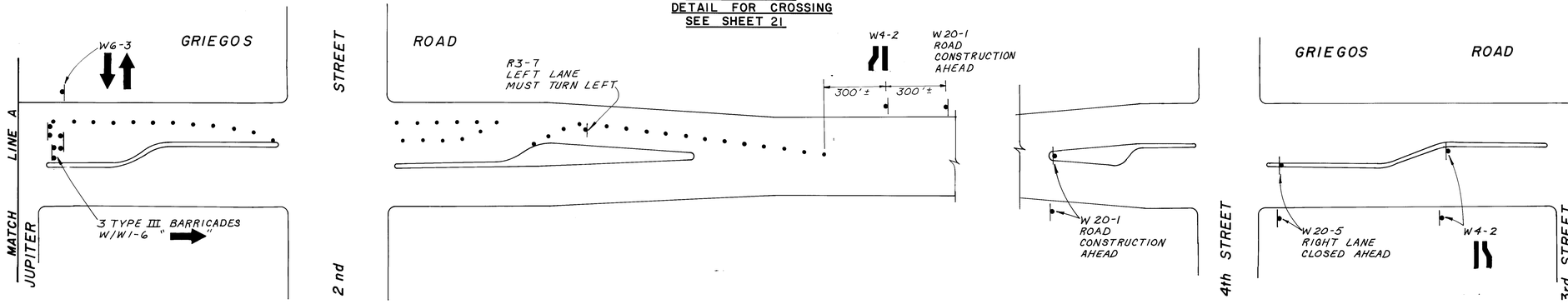
85302

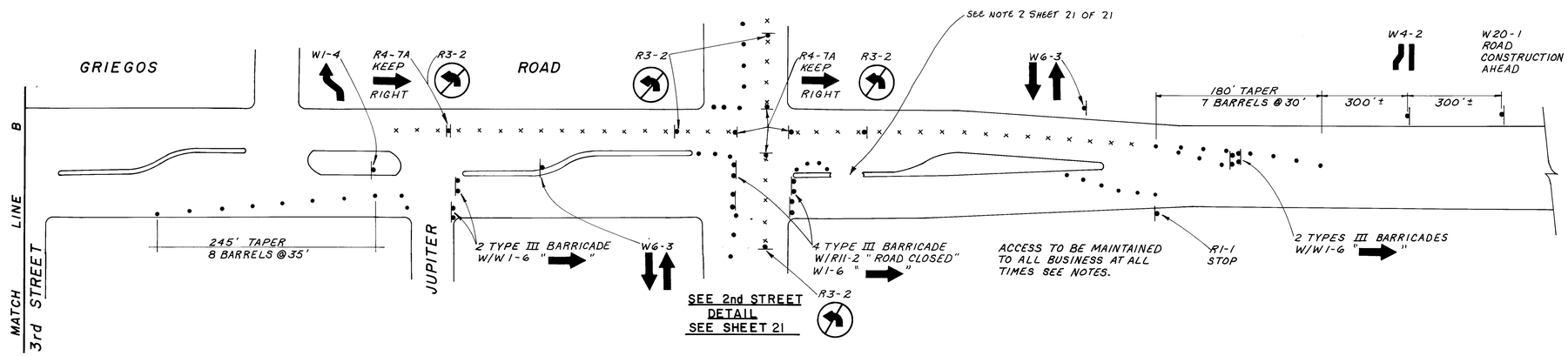


TYPICAL CLOSURE GRIEGOS ROAD
NO MEDIAN
MAXIMUM WORK AREA – 700 FT.



SEE 4th STREET DETAIL FOR CROSSING SEE SHEET 21





SEE 2nd STREET DETAIL SEE SHEET 21

NOTES

1. See Traffic Control Notes Sheet 3 of 21.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTORS
AS-BUILTINGS BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
NMSHC Brass Tablet Stamped "STA. NM47-9 Set in the Top of a Concrete Post Flush with the Ground in the Center island of 2nd Street 125' ± North of Pleasant Street Elev.=4972.036

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. KEHRIMES NEW MEXICO 10278 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY K.B. Albq. Traffic Eng. Div. DATE 12-31-86
DRAWN BY CW RLH DATE 1-3-86
CHECKED BY DATE

26 24612088

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
TRAFFIC CONTROL PLAN
GRIEGOS ROAD SYSTEMS (B & C)

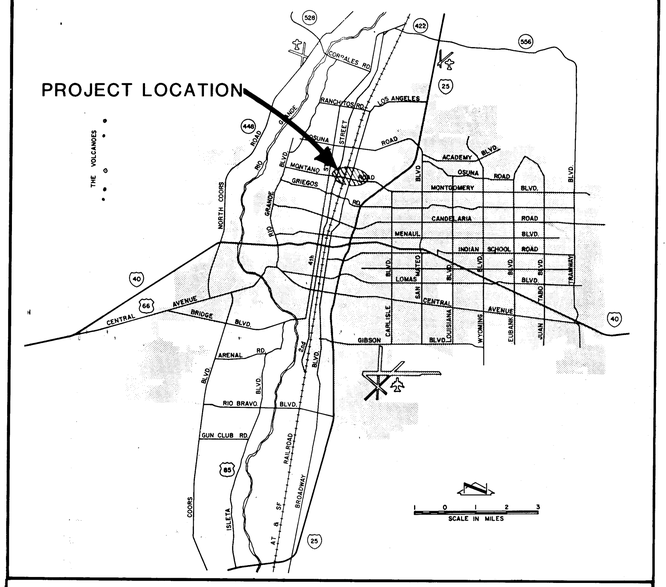
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		10/27/87	Liquid Waste	PEGO	10/27/87
A.C.E. Design	" "	"	Traffic	LEC	10/22/87
~~A.C.E.~~ Hydrology	Steve Eskeg	10/22/87	Water	PEGO	10/27/87

DRAWING NO. 2461 | MAP NO. G-15 | SHEET 20 OF 21

Scanlon Job No. 85113

RECORD DRAWING

89302



KEY MAP

CITY OF ALBUQUERQUE

NEW MEXICO

INDEX TO SHEETS

CONSTRUCTION PLANS FOR

NORTH VALLEY

DRAINAGE SYSTEM IMPROVEMENTS

MONTANO ROAD SYSTEM (A)

SET NO. _____

JOB NO. 85113

26 24610188

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							

SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

SCANLON ASSOCIATES

CITY OF ALBUQUERQUE
APPROVED FOR CONSTRUCTION
10/26/87

DRAWING NO. 2461 | MAP NO. _____

SHEET 1 OF 19

Scanlon Job No. 85113

RECORD DRAWING

GENERAL NOTES

1. The City of Albuquerque Interim Standard Specifications for Public Works Construction, 1985 Edition, and any revisions and or additions in the Specifications and Contract Documents, shall govern the construction of this project.

2. The Contractor shall notify all utility companies when working near their systems. Two days prior to any excavation, Contractor must contact Line Locating Service, 765-1234, for location of existing utilities.

3. All existing utilities shown here were taken as accurately as possible from record drawings and surface indications. It shall be the Contractor's responsibility to protect, maintain in service, and verify exact locations of all affected utilities during construction of this project, including service lines.

4. All utilities which are to be abandoned under this contract shall be plugged with concrete at each end of the portion to be abandoned. Payment for this work will be made on the basis of the contract unit price bid.

5. Curb return radii and street widths are to the face of the curb unless otherwise indicated in the plans.

6. Where removal of existing curb and gutter or sidewalk is required, remove to the nearest joint or saw cut.

7. When abutting new paving to existing, saw cut existing paving on a right angle, or as required by the Project Engineer to remove any broken, raveled, or cracked paving and match the new paving grade to the existing. No separate payment shall be made for saw cut but shall be considered incidental to the Contract Unit Price for pavement removal and replacement.

8. Curb and gutter shown as existing and not to be removed under this contract which is damaged or displaced by the Contractor or his subcontractors, shall be replaced by the Contractor at his expense.

9. Existing materials to be removed and paid for on a unit price basis shall be measured and the quantities approved by the Engineer before removal.

10. Remove all valve boxes from abandoned water lines. Payment will be considered incidental to the contract unit price for pavement removal and replacement.

11. All abandoned valve and meter box frames and covers shall be returned to the Water System Division city yard and all storm and sanitary manhole lids and inlet grates, castings, and frames not reused and in usable condition, shall be returned to the Liquid Waste Division warehouse. There shall be no direct payment for these items. Cost shall be considered incidental to other items of work.

12. The maximum allowable quantities for payment for removal and replacement of pavement where water, sanitary sewer, and storm sewer are to be installed under existing pavement will be computed in accordance with the Contract Documents.

13. The Contractor shall expose existing water and sewer lines at locations where new storm sewer lines cross or parallel such lines in order to adequately establish the proximity of water and sewer lines. The cost of this work shall be incidental to other items of work.

14. Prior to construction, exploratory excavation may be required as directed by the Project Engineer to more specifically locate utility lines. There will be no direct payment for this item of work. Cost will be considered incidental to other items of work.

15. All water meters, water valve boxes, and sewer manholes in the construction area where street grades change are to be adjusted by the Contractor to finished grade under this contract. The Contractor shall be required to set reference points for locating manholes prior to any grading operation. Measurement and payment for this work shall be considered incidental to the unit price bid for pavement removal and replacement.

16. The Contractor will be responsible to replace at his expense any and all property corners destroyed in the process of construction. All property corners must be set by a Registered Land Surveyor.

17. The Contractor will be required to confine his work within the construction limits and/or right-of-way to preserve existing vegetation and private property. Contractor is not to store equipment or materials in R.O.W. overnight.

18. Mail boxes within new construction will be relocated to the right-of-way line by the U.S. Post Office. The Contractor shall coordinate relocation of mailboxes with property owner or resident and the U.S. Post Office. The Contractor shall notify the U.S. Post Office, Delivery and Collection Department, at least 48 hours in advance of construction affecting mailboxes. Cost of this work will be considered incidental to other items.

19. Utility relocation schedules shall be coordinated at the pre-construction conference.

20. Utility relocations required by the construction of this project are to be coordinated by the Contractor during construction. No additional compensation will be allowed for delays or inconveniences caused by utility company work crews. The Contractor may be required to reschedule his activities to allow utility crews to perform their required work.

21. Access to local business and residences shall be kept open at all times. In the event that access closures are unavoidable, closures must be scheduled at least twenty-four (24) hours in advance with property owners and approved by the Engineer. Access closures to business shall not excess two (2) hours during business hours and for residences shall not exceed eight (8) hours. Alternate access provided if required.

22. All valve box rings and covers shall be painted with blue enamel or epoxy paint. Color shall be equivalent to "Safety Blue".

23. Sidewalks and wheel chair ramps within the curb returns shall be constructed wherever a new curb return is constructed. Wheel chair ramps shall be paid for at the unit price for sidewalks. If curb is depressed for a drivepad or wheelchair ramp, the ramp or drivepad shall be constructed prior to acceptance of the curb and gutter.

24. A disposal site for all excess excavation material, asphaltic paving, concrete paving, etc. shall be obtained by the Contractor, and approved by the Project Engineer in compliance with applicable regulations. All costs incurred in obtaining a disposal site and haul thereto shall be considered incidental to the contract unit price for other items.

25. Fifty ton roller operation shall not be used on this project where underground utilities are present. The required compaction of these locations shall be effected by other types of approved compaction methods.

26. 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.

27. WARNING - If any utility lines, pipelines or underground utility lines are shown on these drawings, they are shown in approximate manner only, and other such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the Utility or pipeline company, the Owner, or by others (except where specifically noted as field verified), and the information may be incomplete, or may be obselete by the time construction commences. The Engineer has undertaken limited field verification of the location, depth, size or type of existing utility lines, pipelines, or underground utility lines, and makes no representation pertaining thereto, and assumes no responsibility or liability therefor, the Contractor shall inform himself 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 the excavation work. The Contractor is fully responsible for any and all damage caused by failure to locate, identify, and preserve any and all existing utilities, pipelines, and underground utility lines. 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, in planning and conducting excavation, whether by calling or notifying the utilities, complying with "line locating" procedures, or otherwise. (See also Note 2)

28. Steps are required in all drop inlets and manholes over 4 feet deep. All manhole and drop inlet steps shall be 1/2" grad 60 steel reinforcing rod encapsulated in a co-polymer polypropylene as manufactured by M.A. Industries, Inc. (model #P-2-PFS) or equal. Steps are not to be precast in place but shall be installed as recommended by the manufacturer after the manhole or catch basin has been constructed. Top two steps to protrude 4 inches into manhole, all other 5 inches. Spacing between steps to be 16 inches O.C., first step to be 18 inches from manhole rim, last step to be 18 inches maximum from manhole invert. For step placement in drop inlets, see appropriate Standard Detail (K-1 or K-4).

29. **It shall be the responsibility of the Contractor to maintain sanitary sewer services at all times throughout the duration of the project, to include by-pass pumping of sewerage as required.**

30. The Contractor is responsible for coordination during construction for work over or into Middle Rio Grande Conservancy District (MRGCD) facilities. These facilities include but are not limited to the Alameda Drain, Alameda Lateral, and Harwood Lateral. The Contractor shall obtain the necessary approvals from MRGCD regarding dewatering, scheduling, etc., during construction. The Contractor shall post a damage deposit with MRGCD for work which affects MRGCD facilities. There shall be no direct payment made for these items under this contract, but shall be considered incidental to other items of work.

31. All Reinforced Concrete Pipe (RCP) storm drain shall conform to ASTM C 76 specifications as set forth in the Contract Documents. The following pipe strength classes will apply for this project, unless otherwise noted:

    (a) RCP less than thirty (30) inches in diameter (I.D.) - Class IV.
    (b) RCP greater than or equal to thirty (30) inches in diameter (I.D.) - Class III.

32. Removal and replacement of existing curb and gutter required for the construction of new catch basins shall be considered incidental to the contract unit price for removal of existing catch basins and construction of new catch basins and no separate payment shall be made therefore.

33. Catch basin grate elevations shown on the plans are at the flowline at face of curb and are computed at 10 3/4" below top of curb.

34. All water service relocations or replacements required by the construction of new storm drain must be replaced from the water main to the existing meter. Splicing into existing service lines is not permitted.

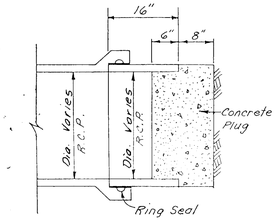
35. Use Type "C" manholes for SAS and storm drain depths of less than 6' measured from invert to rim. Use Type "E" manholes for all depths greater than or equal to 6' measured from invert to rim.

36. **For payment purposes, the maximum pavement cut width shall be as defined in Section 801.17.8.2. of the Interim Standard Specificiations as defined in General Note 1 above.**

37. **Trench dewatering if required due to groundwater conditions encountered during construction shall be paid for by contract change order during construction.**

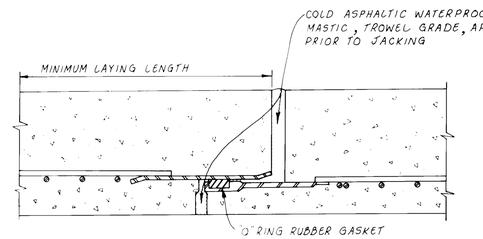
38. Use of City approved alternate grates for storm inlets per City of Albuquerque Standard Drawing K-10 shall be limited to roadway slopes of one percent (1%) or greater.

39. **Trench depth shall be measured from bottom of pavement to invert of pipe at centerline of pipe.**



REMOVABLE WATERTIGHT PLUG

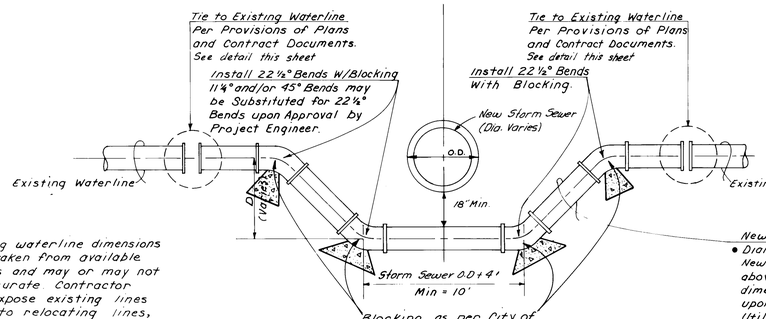
Not to Scale



54" R.C.P. - STEEL END RING JOINT DETAIL

Not to Scale
Minimum Pipe Class = V
Pipe Inside Diameter = 54"
Wall Type = C
Bell Ring Min. Thickness = 1/4"
Min. Laying Length = 8.0'

MONTANO ROAD - SYSTEM "A"
Sta 16+14 to Sta. 16+79



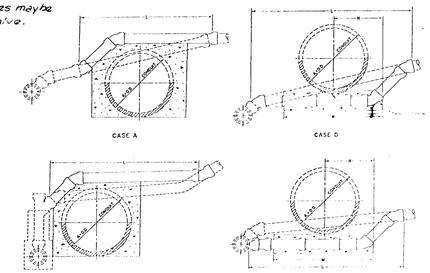
ELEVATION

TYPICAL WATERLINE RELOCATION DETAIL

Not to Scale

NOTES: 1. Existing waterline dimensions were taken from available records and may or may not be accurate. Contractor shall expose existing lines prior to relocating lines, at the direction of the Project Engineer, to verify sizes and dimensions as they actually exist in the field.
2. Lengths of Waterline Relocation may be extended at direction of Project Engineer until suitable existing material is found to make connection in some cases maybe to existing main or Valve.

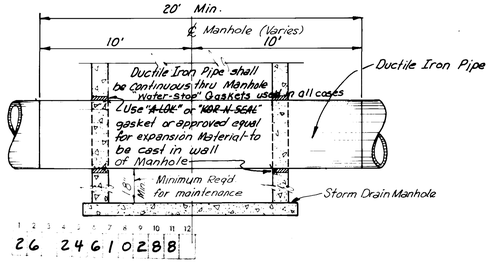
New Waterline Relocation
- Diameter as noted on plans. New waterline may be raised above new sewer to typical dimensions shown herein, upon approval by Water Utilities Division, if min 3' cover over new waterline is obtainable.
- Contractor shall coordinate water shut off with Water Utilities Division.
- Waterline relocations requiring lowering under new sewer shall be completed prior to sewer construction at crossing.



NOTES:
1. LOCATION OF EXISTING UTILITY LINES AND SERVICE CONNECTIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION OF NEW STORM DRAIN.
2. WHERE CLEARANCE BETWEEN NEW STORM DRAIN AND EXISTING SERVICE LINE IS LESS THAN 1 FOOT, SERVICE LINE SHALL BE RELOCATED PER DETAIL.

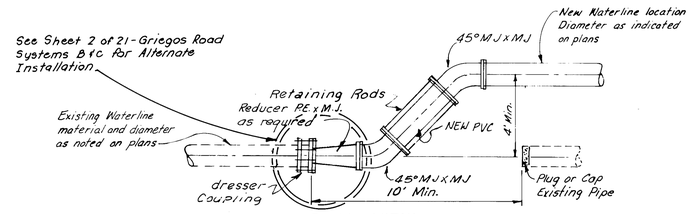
TYPICAL SAS SERVICE LINE RELOCATION DETAIL

NTS



TYPICAL SAS LINE THRU STORM DRAIN MANHOLE

NTS



PLAN VIEW

TYPICAL WATERLINE CONNECTION DETAIL

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
GENERAL NOTES AND DETAILS
MONTANO ROAD SYSTEM (A)

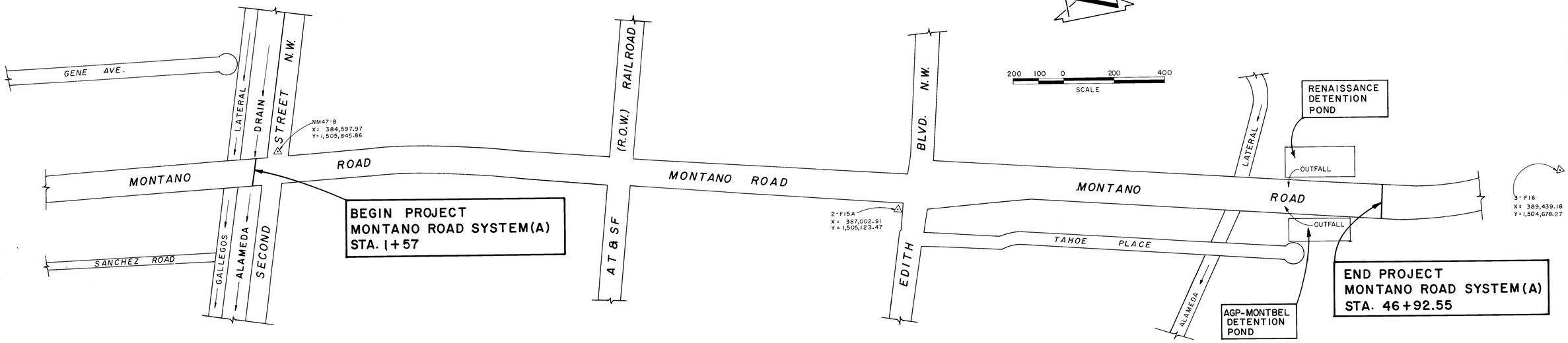
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/9/86	Liquid Waste		12-1-86
~~A/E~~ - Design		12/9/86	Traffic		12/8/86
~~A/E~~ - Hydrology		12/9/86	Water		12-1-86

DRAWING NO. 2461 | MAP NO. | SHEET 2 OF 19

SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

Scanlon Job No. 85113

RECORD DRAWING



SITE PLAN

MONTANO ROAD SYSTEM (A)

LEGEND

	EXISTING CURB AND GUTTER	-SAS-	EXISTING SANITARY SEWER
	NEW STANDARD AND MEDIAN CURB AND GUTTER	-SD-	EXISTING STORM DRAIN
	NEW ASPHALT CURB	-W-	EXISTING WATER LINE
	EXISTING SIDEWALK	-G-	EXISTING GAS LINE
	NEW SIDEWALK PATCH	SAS	NEW SANITARY SEWER
	NEW MEDIAN PATCH		NEW SANITARY SEWER MANHOLE
	PAVEMENT REPLACEMENT PER C.O.A. STD. DWG P-25	SD	NEW STORM DRAIN
	EXISTING SIGN		NEW STORM DRAIN MANHOLE
Ω	EXISTING POLE		NEW CATCH BASIN
—o—o—	EXISTING CHAIN LINK FENCE	•12.8	EXISTING SPOT ELEVATION
	EXISTING BLOCK WALL	12.8	NEW SPOT ELEVATION
—x—x—	EXISTING WIRE FENCE	-T-	EXISTING TELEPHONE LINE
	EXISTING WOOD FENCE	-C-	EXISTING CABLE TELEVISION LINE
—●—●—	NEW CHAIN LINK FENCE		EXISTING WATER METER
△	PI OR CONTROL POINT		EXISTING WATER VALVE
	CONSTRUCTION ℄ AND SURVEY ℄		EXISTING FIRE HYDRANT
	R/W LINE		NEW FIRE HYDRANT
HGL 100.00	ELEVATION OF HYDRAULIC GRADE LINE		
Q_{100} = 10.0	FLOW RATE C.F.S. 100 YEAR-6 HOUR RUNOFF		
V_{100} = 5.0	VELOCITY (FT./SEC) 100 YEAR-6 HOUR RUNOFF		

TRAFFIC CONTROL NOTES

1. All traffic control devices, and their placement, shall comply with Chapter VI of the 1978 Edition MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
2. The Contractor shall prepare and submit to the Project Engineer a detailed detour plan, which must be approved by the City Traffic Engineer three (3) working days in advance of any required lane closures.
3. All signs must be installed before construction begins as directed by the Project Engineer. Sign heights shall be 7 ft. from the bottom of the sign to the sidewalk level.
4. All drums or barrels may have sand or water ballast limited to 100 lbs.
5. All sign locations will be selected in the field and approved by the City Traffic Engineer or Project Engineer. Distances may be adjusted for local conditions.
6. All signs will be ground mounted on single or double posts. Existing posts may be used at some locations, with the approval of the Project Engineer. Portable sign supports will be acceptable as an alternate.
7. All signs will be moved forward as the construction progresses, as determined appropriate by the Project Engineer.
8. Construction equipment and materials shall not be stored within the roadway or on the median during non-work hours.
9. When barriers are required after dark, all advance warning signs and all barricades shall be equipped with flashing warning lights (Type A), except that all channelizing devices shall have steady burning warning lights (Type C).
10. All existing regulatory signs and signals that need to be removed, relocated or reinstalled shall be done by the City of Albuquerque Traffic Engineering Division. The Contractor shall notify the Traffic Engineering Division three (3) working days in advance of any required work.
11. Exact locations of relocated traffic signal foundations shall be determined by the Traffic Engineering Division.
12. The Contractor shall provide and maintain a safe and adequate means of channelizing pedestrian traffic around all work areas throughout the period of construction. All such channelization shall be arranged to prevent pedestrians from having to enter an open traffic lane in order to pass around the work areas.
13. All construction signing shall be black on a reflectorized orange field unless otherwise specified. All construction barricades and channelization devices shall be orange on white, reflectorized, unless otherwise specified.
14. The Contractor shall prepare and submit to the Project Engineer a detailed project phasing plan at the pre-construction conference for approval prior to beginning construction.

SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

2.6 246 10388

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: MONTANO ROAD SYSTEM (A)
SITE PLAN
LEGEND & TRAFFIC CONTROL NOTES

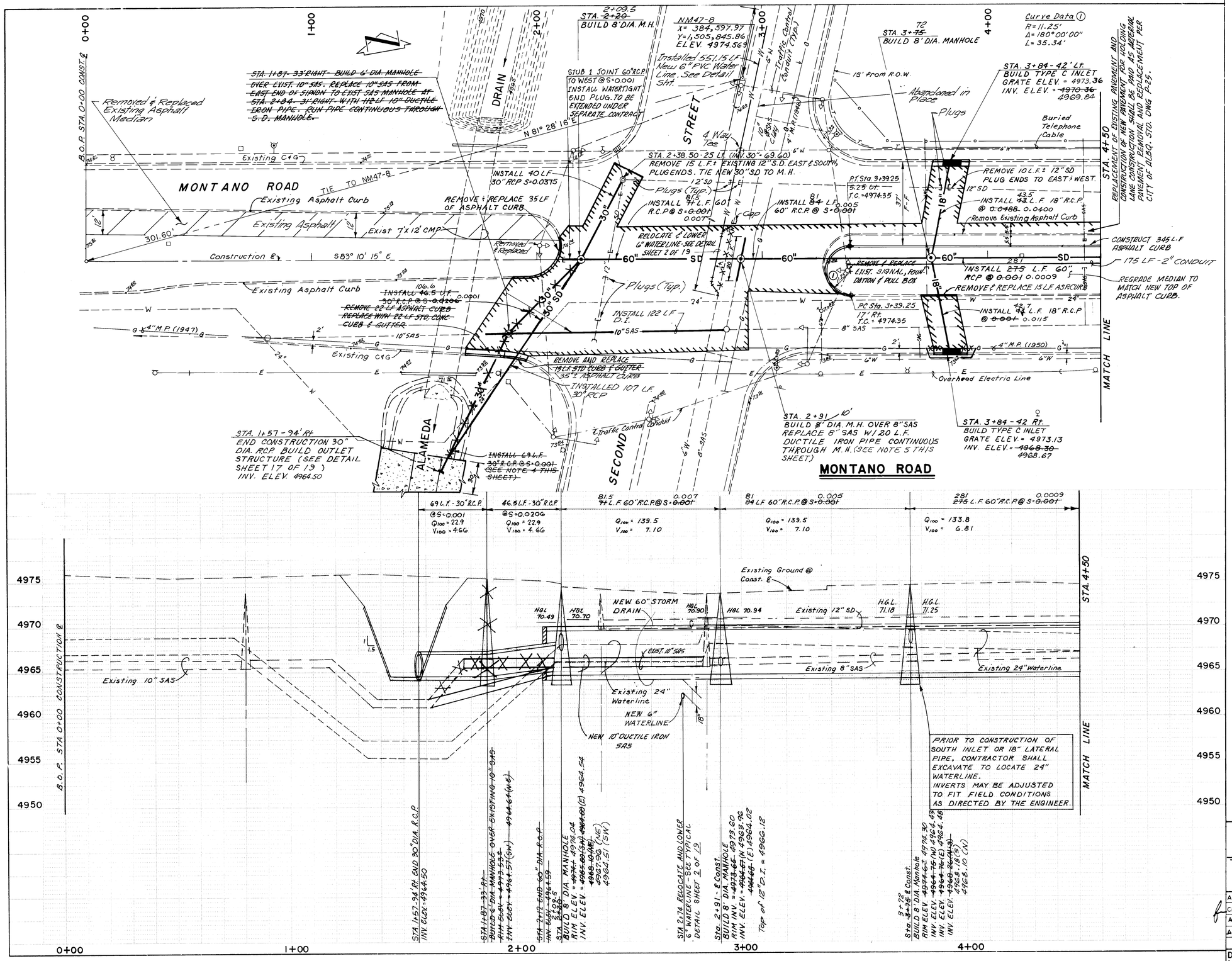
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	W/W	12-1-86
~~ACE~~ - Design		12/9/86	Traffic	NADWH	12,8/86
~~ACE~~ - Hydrology		12/9/86	Water	W/W	12-1-86

DRAWING NO. 2461 | MAP NO. F-15 | SHEET 3 OF 19

Scanlon Job No. 85113

RECORD DRAWING

N18921



NOTE:

1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED
2. WHEN CROSSING EXISTING SIGNAL CONDUIT REPLACE SIGNAL WIRE FROM TRAFFIC FIXTURE TO TRAFFIC FIXTURE
3. S.A.S. SERVICE LINES NORTH SIDE OF MONTANO ROAD STA. 3+72± TO STA. 4+43 ARE NOT IN USE. ABANDON LINES AND PLUG PIPE ENDS.
4. CONTRACTOR SHALL CONTACT UTILITY COMPANY AND COORDINATE SUPPORT OF EXISTING POLE AT SW RETURN PRIOR TO CONSTRUCTION OF 30" SD TO ALAMEDA DRAIN
5. EXISTING 8" CONCRETE SAS HAS BEEN SLIPLINED WITH 7.125" OD POLYETHYLENE. CONTRACTOR SHALL CONNECT EXISTING 7.125" SLIPLINING TO NEW 8" DUCTILE IRON REPLACEMENT PIPE WITH A FLEXIBLE RUBBER COUPLING EACH END, ECCENTRIC TYPE, AS MANUFACTURED BY ATLAS, FERNCO, OR APPROVED EQUAL. CONTRACTOR SHALL ENCASE PIPE 2' EITHER SIDE OF JOINTS PER COA STD. DWG. S-10. THE COST OF THE CONNECTIONS AND ENCASEMENT SHALL BE CONSIDERED INCIDENTAL TO PRICE BID FOR 8" DUCTILE IRON SEWER PIPE.
5. EXISTING LINE 10" CLAY

AS BUILT / INFORMATION

NO.	DATE	BY	FIELD NOTES

CONTRACTOR: New Concepts, Inc.
WORK PERFORMED BY: Scanlon & Associates — DATE: 11-88
INSPECTOR: Associates — DATE
AS-BUILT BY: — DATE
VERIFICATION & CORRECTED BY: Scanlon & Associates — DATE 11-88

BENCH MARKS

ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24

NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

MICRO-FILM INFORMATION

RECORDED BY — DATE

ENGINEER'S SEAL

SCOTT A. VERMILES — NEW MEXICO — 8706 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY S.A.V. — DATE 11/85
DRAWN BY C.L.W. — DATE 11/85
CHECKED BY — DATE

26 24610488

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

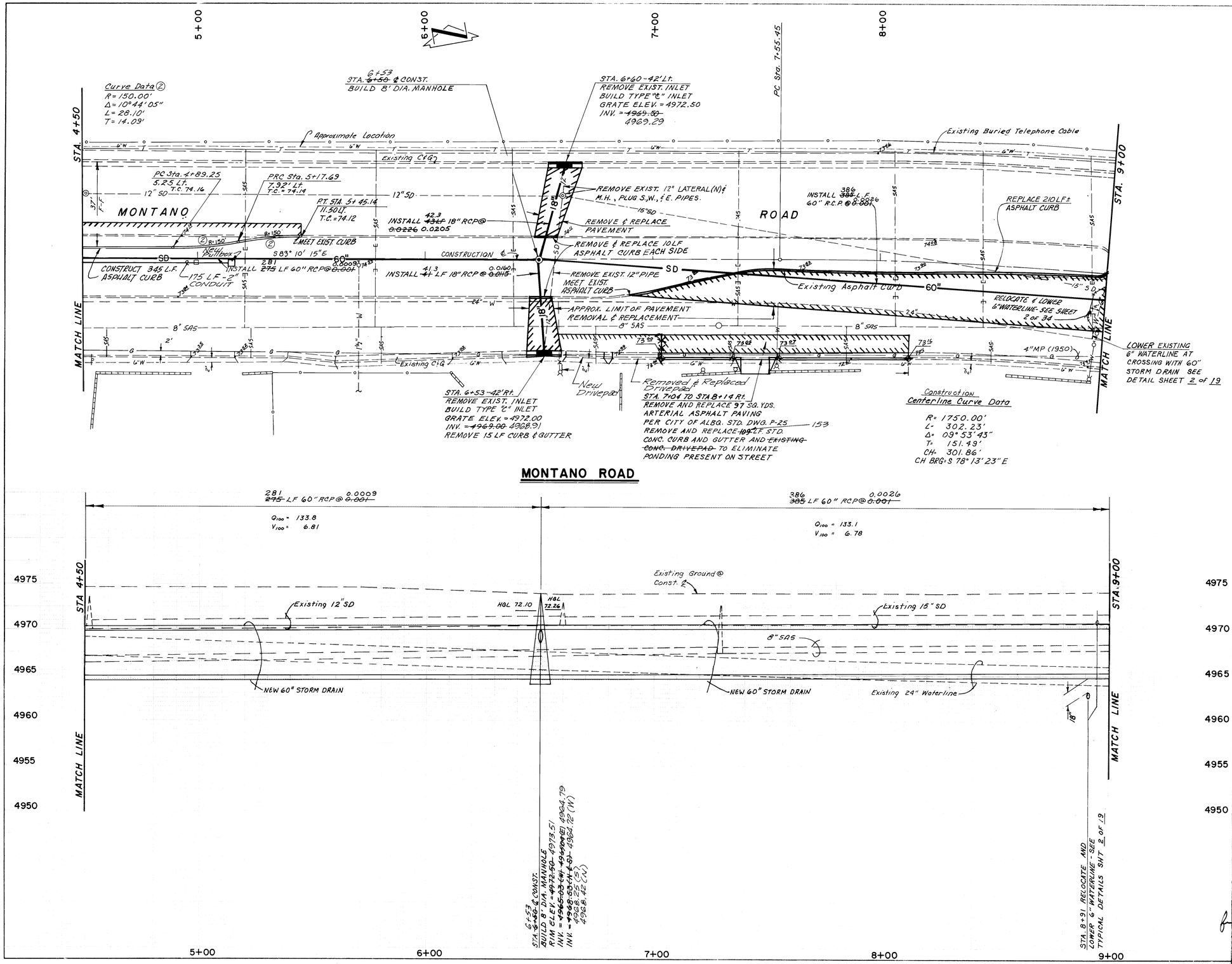
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN STA. 1 + 57 TO STA. 4+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/3/86	Liquid Waste	WW	12-1-86
~~A.C.E.~~ - Design		12/9/86	Traffic	NA DWH	12/8/86
~~A.C.E.~~ - Hydrology		12/9/86	Water	WW	12-1-86

DRAWING NO. 2461 | MAP NO. F - 15 | SHEET 4 OF 19

Scanlon Job No. 85113

RECORD DRAWING



MONTANO ROAD

NOTE:
1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED
2. SAS SERVICE LINES NORTH SIDE OF MONTANO ROAD FROM STA. 5+21 TO STA. 8+93 ARE NOT IN USE. ABANDON LINES AND PLUG PIPE ENDS.

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
WORK STAKED BY: Scanlon & Associates DATE 11-85
INSPECTED BY: DATE
ACCEPTANCE BY: DATE
FIELD LOCATION BY: Scanlon & Associates DATE 11-85
DRAWINGS BY: Scanlon & Associates DATE 11-85
MICRO-FILM INFORMATION
REF. DWG. BY: DATE
NO:

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

SURVEY INFORMATION
FIELD NOTES
NO | BY | DATE

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

REMARKS | BY | DATE
REVISIONS
DESIGN DATE 11/85 DESIGNED BY S.A.V.
DRAWN BY C.L.W. DATE 11/85 CHECKED BY

26 24610588

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

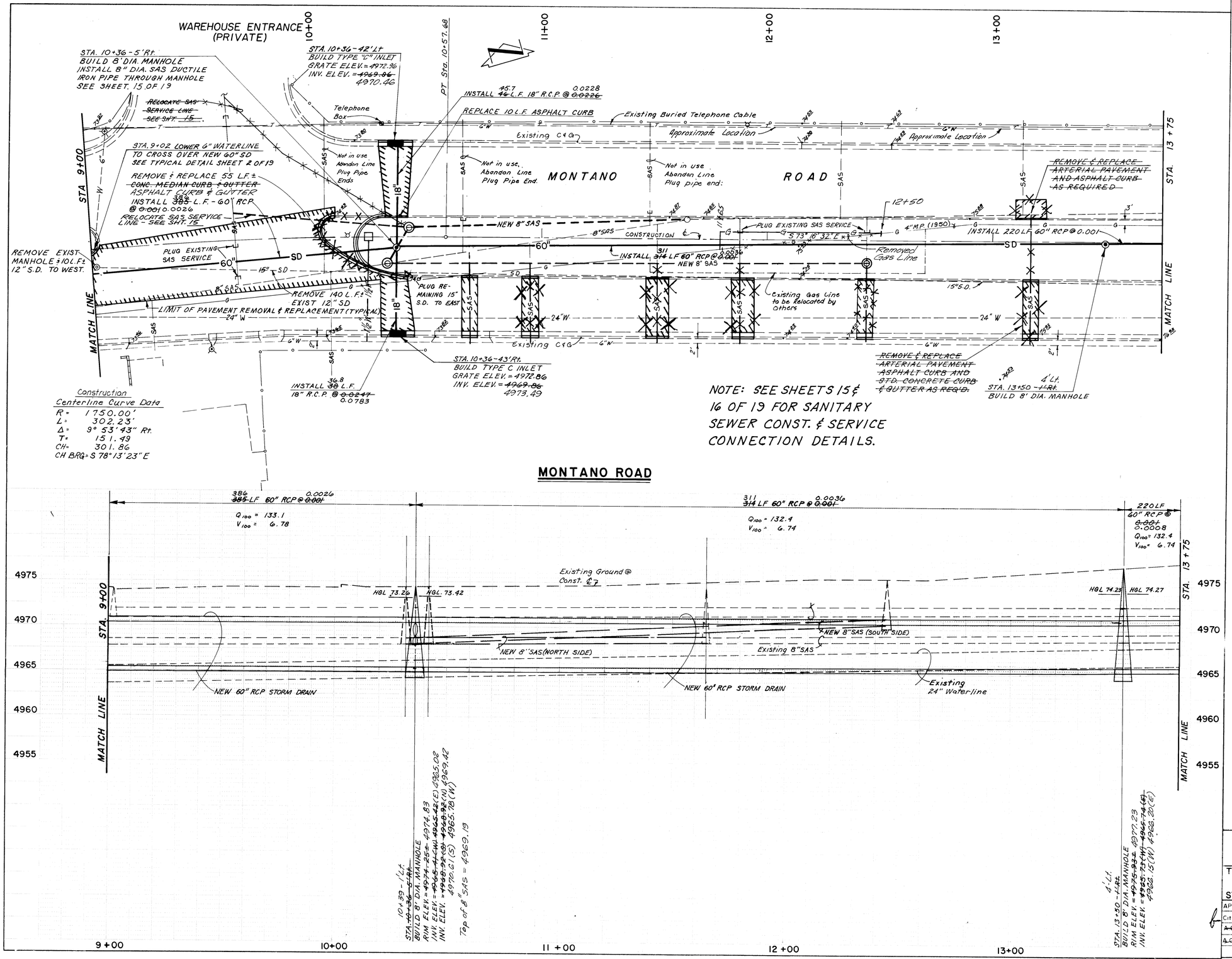
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN STA. 4+50 TO STA. 9+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/9/86	Liquid Waste	W/W	12-1-86
~~A.C.E.~~ Design		12/9/86	Traffic	NADOH	12/8/86
A.C.E. Hydrology		12/8/86	Water	W/W	12-1-86

DRAWING NO 2461
MAP NO. F - 15
SHEET 5 OF 19

Scanlon Job No. 85113

RECORD DRAWING



NOTE:
1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED

2. STA. 13+17 SAS SERVICE LINES FROM SOUTH SIDE OF MONTANO ROAD SHALL BE ADJUSTED AND RECONNECTED TO EXISTING 8" SAS PER APPLICABLE DETAIL, SEE SHEET 2. CONTRACTOR SHALL LIMIT LENGTH OF REQUIRED ADJUSTMENTS TO THAT REQUIRED FOR PROPER INSTALLATION.

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
WORK STAKED BY: Scanlon & Associates DATE 11-85
AS-BUILTED BY: DATE
FIELD OPERATIONS BY: Scanlon & Associates DATE
DRAWING COMPILED & CORRECTED BY: Scanlon & Associates DATE 11-85
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO:

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	DATE
		DESIGN		DATE 11-85
		REMARKS		DATE 11-85

DESIGNED BY S.A.V.
DRAWN BY C.L.W.
CHECKED BY

26 246 10688

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

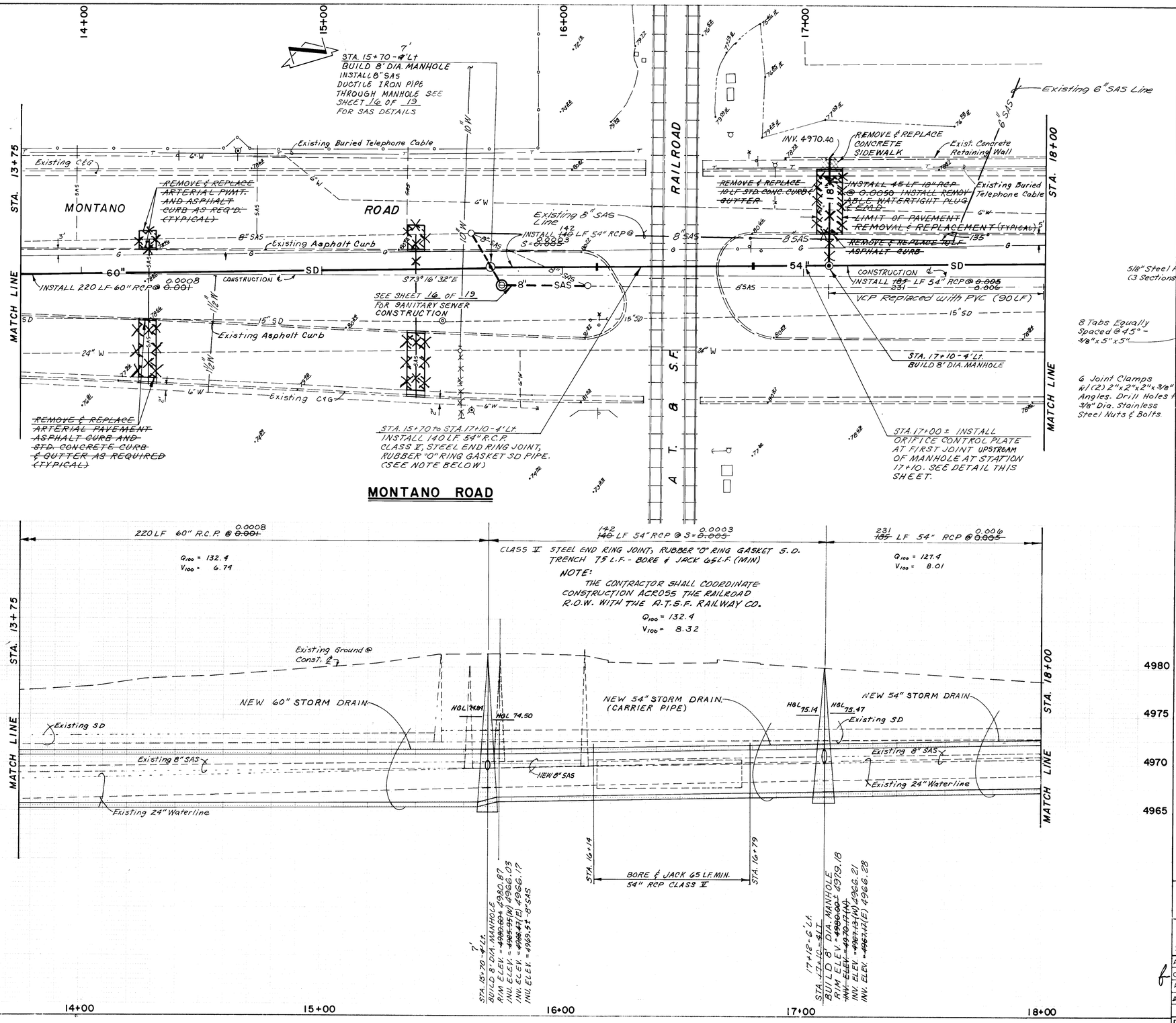
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN STA. 9+00 TO STA. 13+75

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/3/86	Liquid Waste	JW	12-1-86
~~A.C.E.~~ Design		12/9/86	Traffic	NA DwH	12/8/86
~~A.C.E.~~ Hydrology		12/4/86	Water	JW	12-1-86

DRAWING NO. 2461
MAP NO. F-15
SHEET 6 OF 19

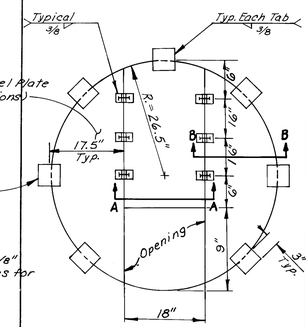
Scanlon Job No. 85113

RECORD DRAWING



MONTANO ROAD

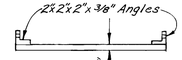
NOTE:
1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED
2. STA. 14+28 & 15+39 SAS SERVICE LINES FROM SOUTH SIDE OF MONTANO ROAD SHALL BE ADJUSTED AND RECONNECTED TO EXISTING 8" SAS PER APPLICABLE DETAIL SEE SHEET 2. CONTRACTOR SHALL LIMIT LENGTH OF REQUIRED GRADE ADJUSTMENTS TO THAT REQUIRED FOR PROPER INSTALLATION.



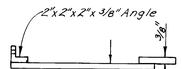
ORIFICE PLATE DETAIL

NOT TO SCALE

NOTE: All Steel Shall be Grade 60 Orifice plate shall be Painted w/ two coats of Red Lead Primer & two coats of Aluminum paint per Sect. 157.3 of the Standard Spec's.



SECTION A



SECTION B

A 3/8" Spacer Shall be Provided at the Pipe Joint if the Orifice Plate is Not Installed Simultaneously with the Pipe Laying Operation.

26 24610788

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK STAKED BY Scanlon & Associates DATE 11-88
AS-BUILT NOTES BY DATE
FIELD VERIFICATION BY Scanlon & Associates DATE 11-88
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHEAST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC / ACS NM 47 - 8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

ENGINEER'S SEAL
JOSEPH A. VERHINES 8706 REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO

REVISIONS
NO. | DATE | REMARKS | BY
DESIGN DATE 11/85 DESIGNED BY S.A.V.
DRAWN BY C.L.W. DATE 11/85
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

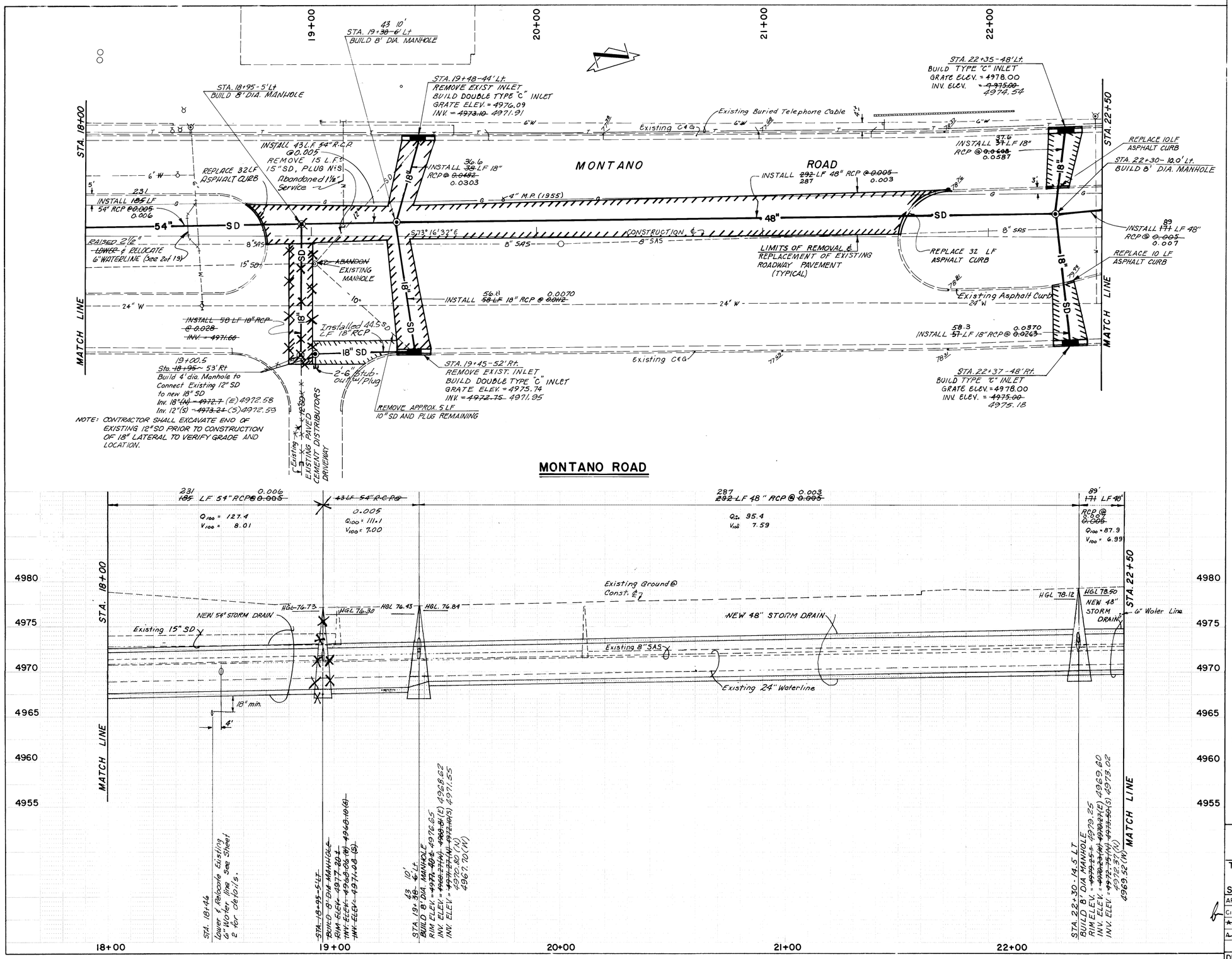
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN STA. 13+75 TO STA. 18+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/3/86	Liquid Waste	W/W	12-1-86
~~A-C-E~~ - Design		12/9/86	Traffic	N/A D.w.H	12/8/86
A-C-E - Hydrology		12/8/86	Water	W/W	12-1-86

DRAWING NO. 2461 | MAP NO. F - 15 | SHEET 7 OF 19

Scanlon Job No. 85113

RECORD DRAWING



NOTE:
ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK BY Scanlon & Associates DATE 11-88
INSPECTED BY
ACCEPTANCE BY DATE
VERIFICATION BY Scanlon & Associates DATE 11-88
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
INITIAL
DATE

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JEFFREY A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY S.A.V.	DATE 11/85
		DRAWN BY C.L.W.	DATE 11/85
		CHECKED BY	DATE

26 246 10888

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

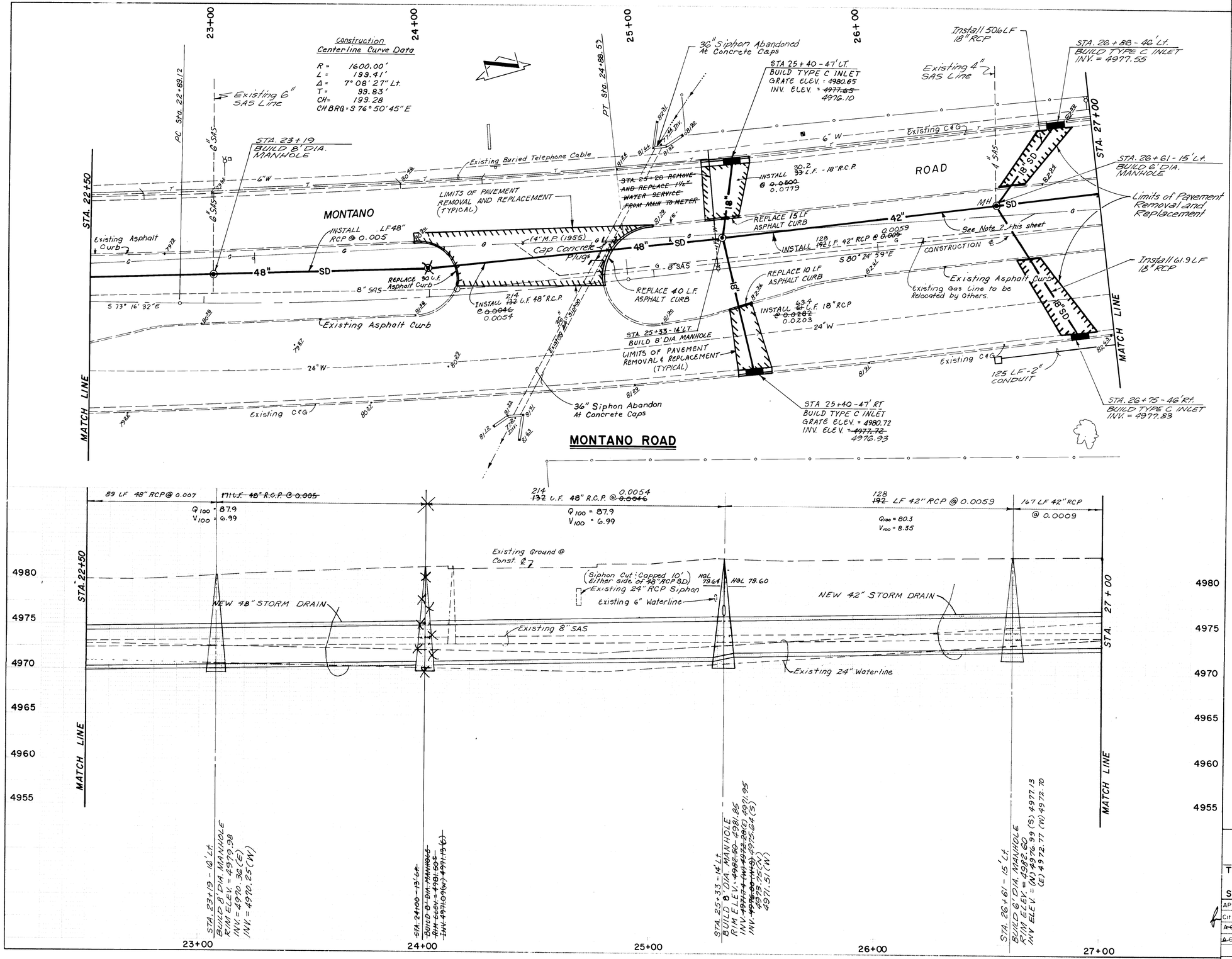
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN STA. 18+00 TO STA. 22+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/5/86	Liquid Waste	WJW	12-1-86
~~A.C.E.~~ - Design		12/9/86	Traffic	NA DWH	12/8/86
~~A.C.E.~~ - Hydrology		12/8/86	Water	WJW	12-1-86

DRAWING NO. 2461
MAP NO. F - 15
SHEET 8 OF 19

Scanlon Job No. 85113

RECORD DRAWING



NOTE:
1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED
2. CONTRACTOR SHALL EXCAVATE TO MORE SPECIFICALLY LOCATE EXISTING GAS LINE AND ANY POTENTIAL CONFLICT. ANY REQUIRED RELOCATIONS OF GAS LINES SHALL BE BY OTHERS. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK STAKED BY Scanlon & Associates DATE 11-88
ASBUILTINGS BY DATE
FIELD VERIFICATION BY Scanlon & Associates DATE 11-88
CORRECTIONS BY Scanlon & Associates DATE 11-88
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

ENGINEER'S SEAL
NESTOR A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY
REVISIONS
DESIGN
DESIGNED BY S.A.V. DATE 11/85
DRAWN BY C.L.W. DATE 11/85
CHECKED BY DATE

26 24610988

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

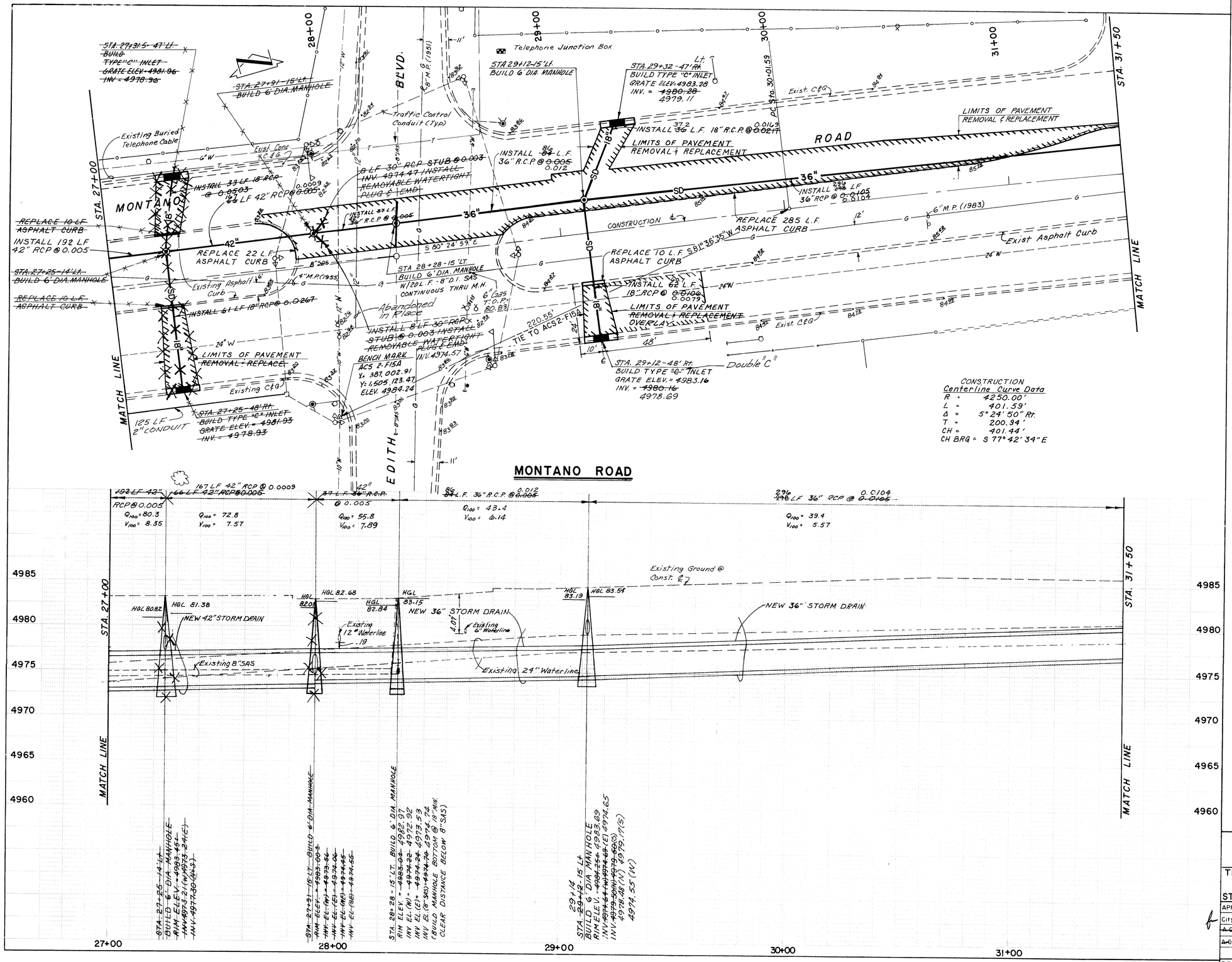
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM(A)
STORM DRAIN STA. 22+50 TO STA. 27+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/9/86	Liquid Waste	WW	12-1-86
~~A&E~~ Design		12/9/86	Traffic	WA DWH	12/8/86
~~A&E~~ - Hydrology		12/9/86	Water	WW	12-1-86

DRAWING NO. 2461 | MAP NO. F - 15 | SHEET 9 OF 19

Scanlon Job No. 85113

RECORD DRAWING



NOTE:

1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED
2. WHEN CROSSING EXISTING SIGNAL CONDUIT REPLACE SIGNAL WIRE FROM TRAFFIC FIXTURE TO TRAFFIC FIXTURE
3. "EMD" = ELECTRONIC MARKER DISK INSTALLED PER C.O.A. STANDARD DRAWING S-12.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK STAKED BY Scanlon & Associates DATE 11-88
ACCEPTANCE BY
FIELD VERIFICATION BY Scanlon & Associates DATE 11-88
COMPLETED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 9706 REGISTERED PROFESSIONAL ENGINEER

REMARKS
REVISIONS
NO. DATE BY
DESIGNED BY S.A.V. DATE 11/85
DRAWN BY C.L.W. DATE 11/85
CHECKED BY DATE

26 24611088

SCALES
HORIZONTAL 1"= 20'
VERTICAL 1"= 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

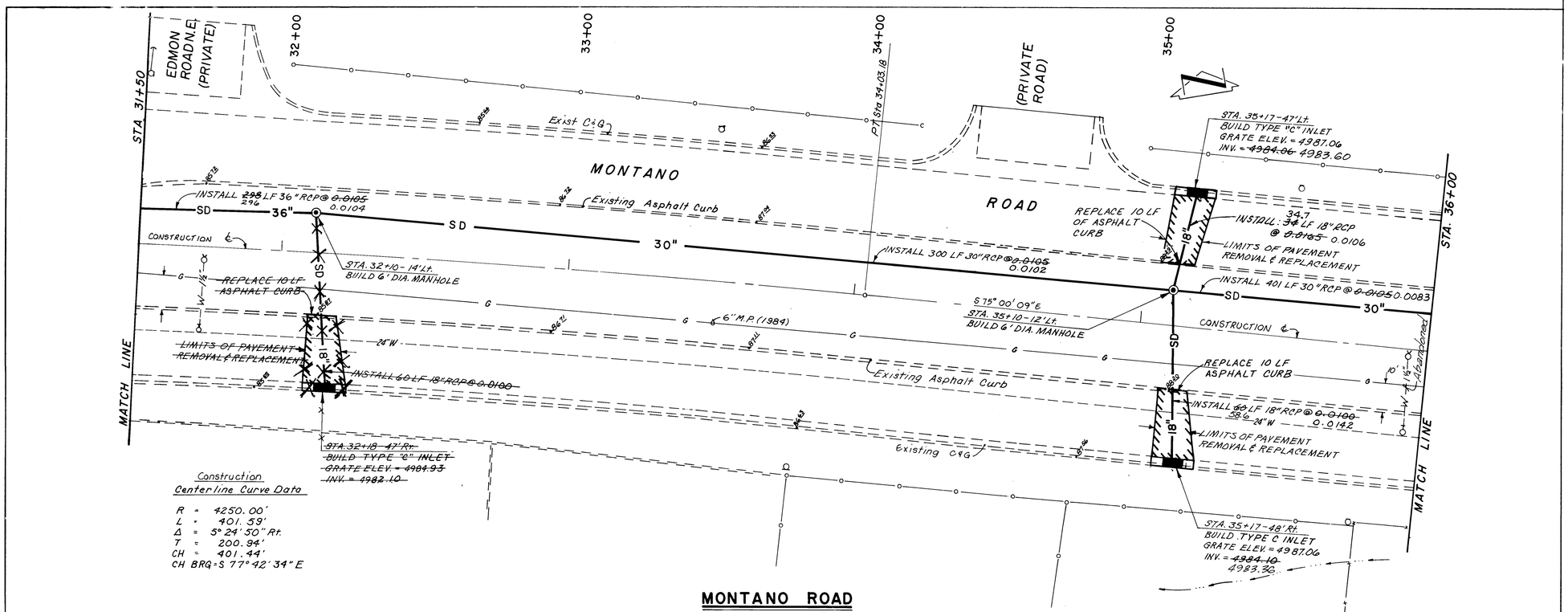
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM(A)
STORM DRAIN STA. 27+00 TO STA. 31+50

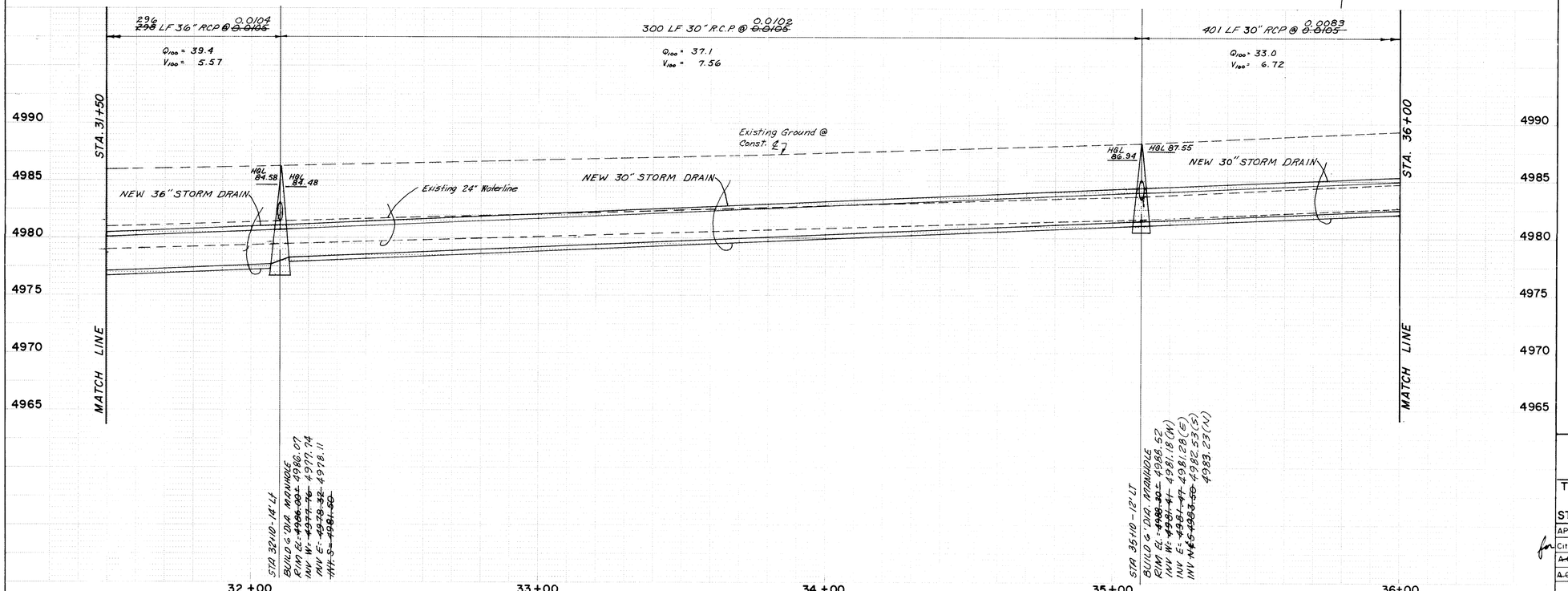
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/2/86	Liquid Waste		12-1-86
~~A.C.E.~~ - Design		12/2/86	Traffic		12/8/86
~~A.C.E.~~ - Hydrology		12/2/86	Water		12-1-86

DRAWING NO. 2461
MAP NO. F-15
SHEET 10 OF 19

Scanlon Job No. 85113

RECORD DRAWING





MONTANO ROAD

NOTE:
ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET
ON CONCRETE POST SOUTHWEST
CORNER MONTANO & EDITH
ELEV. 4984.24

NMSHC/ACS NM 47-8 BRASS
TABLET IN ISLAND ON SECOND
STREET NORTH OF MONTANO
ELEV. 4974.569

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc. DATE
WORK INSP. Scanlon & Associates DATE 11-88
ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon & Associates DATE 11-88
DRAWINGS & CALCULATIONS BY Scanlon & Associates DATE 11-88
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
RONALD A. VERMEIRES NEW MEXICO 9706 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY S.A.V.	DATE 11/85
		DRAWN BY C.L.W.	DATE 11/85
		CHECKED BY	DATE

26 246 11 88

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

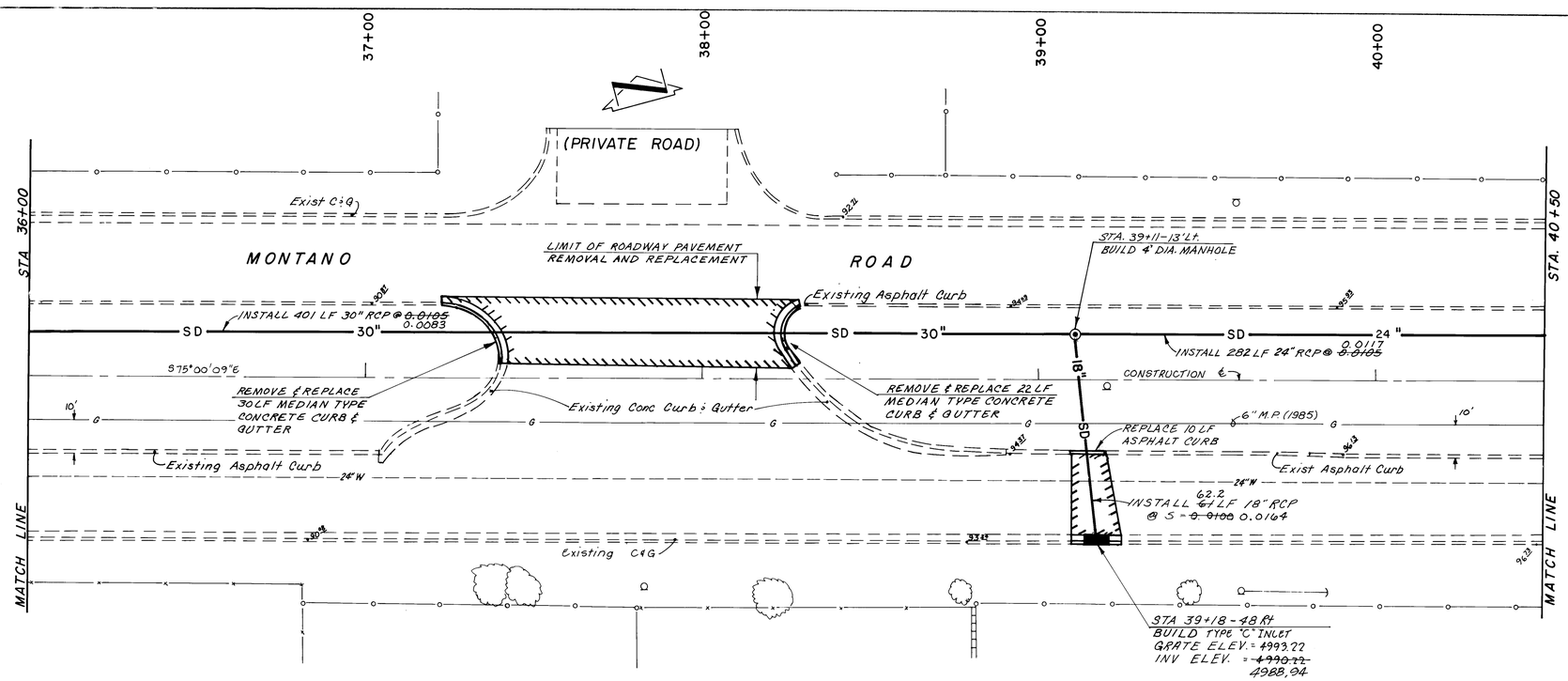
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN STA. 31+50 TO STA. 36+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
for City Engineer	[signature]	12/9/86	Liquid Waste	[signature]	12-1-86
~~A-C-E~~ - Design	[signature]	12/9/86	Traffic	[signature]	12/8/86
A-C-E - Hydrology	[signature]	12/8/86	Water	[signature]	12-1-86

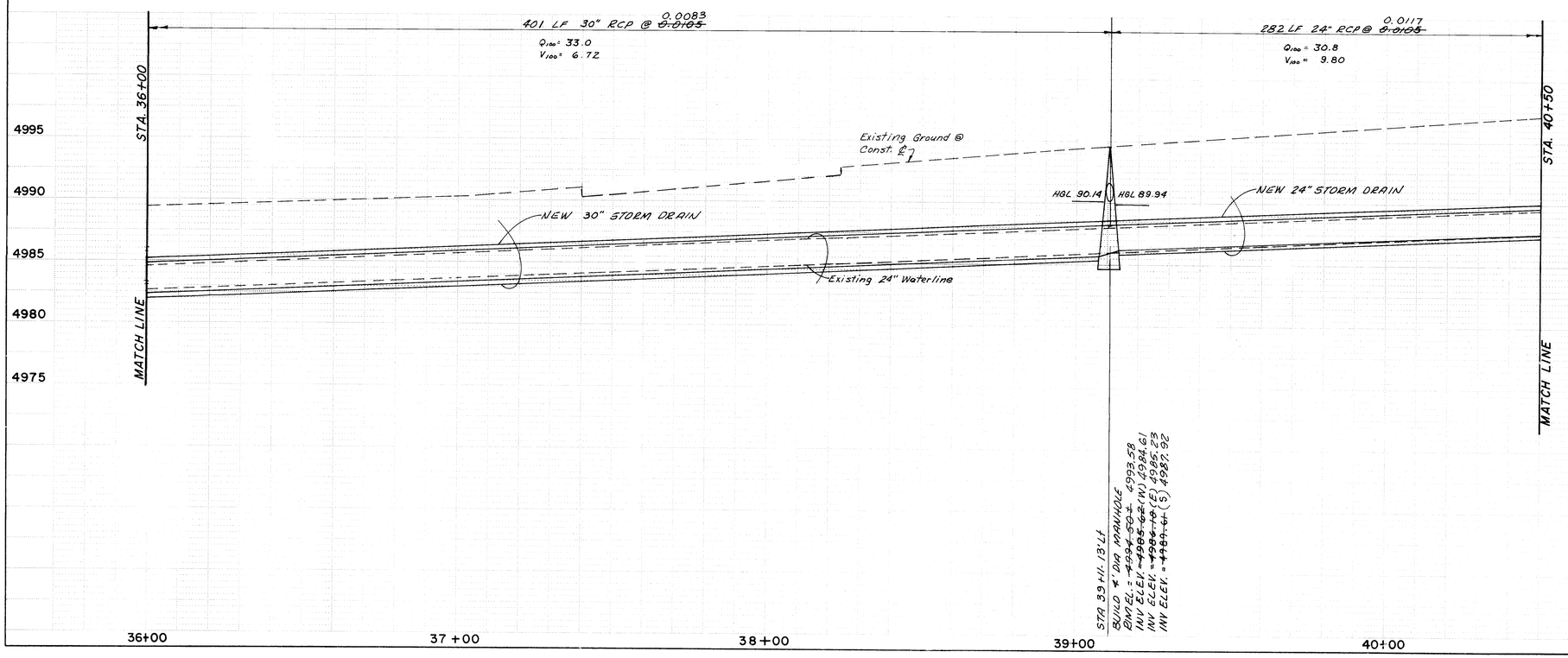
DRAWING NO. 2461 | MAP NO. F - 15 | SHEET 11 OF 19

Scanlon Job No. 85113

RECORD DRAWING



MONTANO ROAD



NOTE:
ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK STAKED BY Scanlon & Associates DATE 11-88
INSPECTION & ACCEPTANCE BY DATE
FIELD LOCATION BY Scanlon & Associates DATE 11-88
DRAWINGS CORRECTED BY MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET
ON CONCRETE POST SOUTHWEST
CORNER MONTANO & EDITH
ELEV. 4984.24

NMSHC/ACS NM 47-8 BRASS
TABLET IN ISLAND ON SECOND
STREET NORTH OF MONTANO
ELEV. 4974.569

ENGINEER'S SEAL
GERALD A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DATE 11/85	
		DRAWN BY C.L.W.	
		DATE 11/85	
		CHECKED BY	
		DATE	

26 24611288

SCALES
HORIZONTAL 1"= 20'
VERTICAL 1"= 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM(A)
STORM DRAIN-STA. 36+00 TO STA. 40+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/5/86	Liquid Waste	W/W	12-1-86
~~A.C.E.~~ - Design		12/9/86	Traffic	N/A D.W.H	12/8/86
~~A.C.E.~~ - Hydrology		12/8/86	Water	W/W	12-1-86

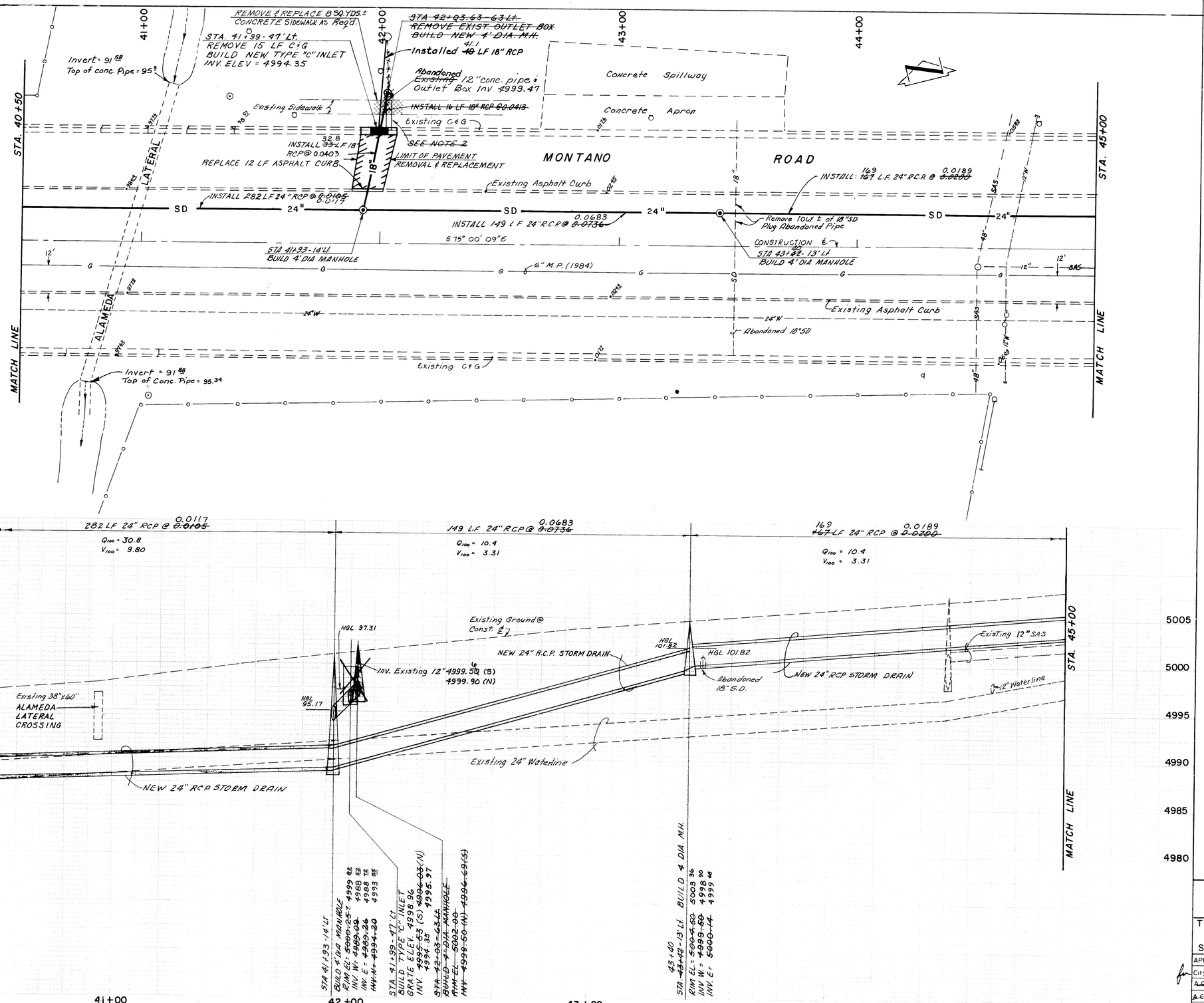
DRAWING NO. 2461 | MAP NO. F - 15 | SHEET 12 OF 19

Scanlon Job No 85113

RECORD DRAWING

NOTE:
1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED

2. REMOVE EXISTING DRAINLINE UNDER SIDEWALK AND THROUGH CURB.



26 24611388

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

AS BUILT INFORMATION
CONTRACTOR: New Concepts, Inc.
ENGR: Scanlon & Associates DATE: 11-88
INSPECTOR: DATE:
FIELD CHANGES BY: DATE:
DRAWING CORRECTED BY Scanlon & Associates DATE 11-88
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. | DATE | REMARKS | BY
DESIGN DATE 11/85
DESIGNED BY S.A.V.
DRAWN BY C.L.W. DATE 11/85
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

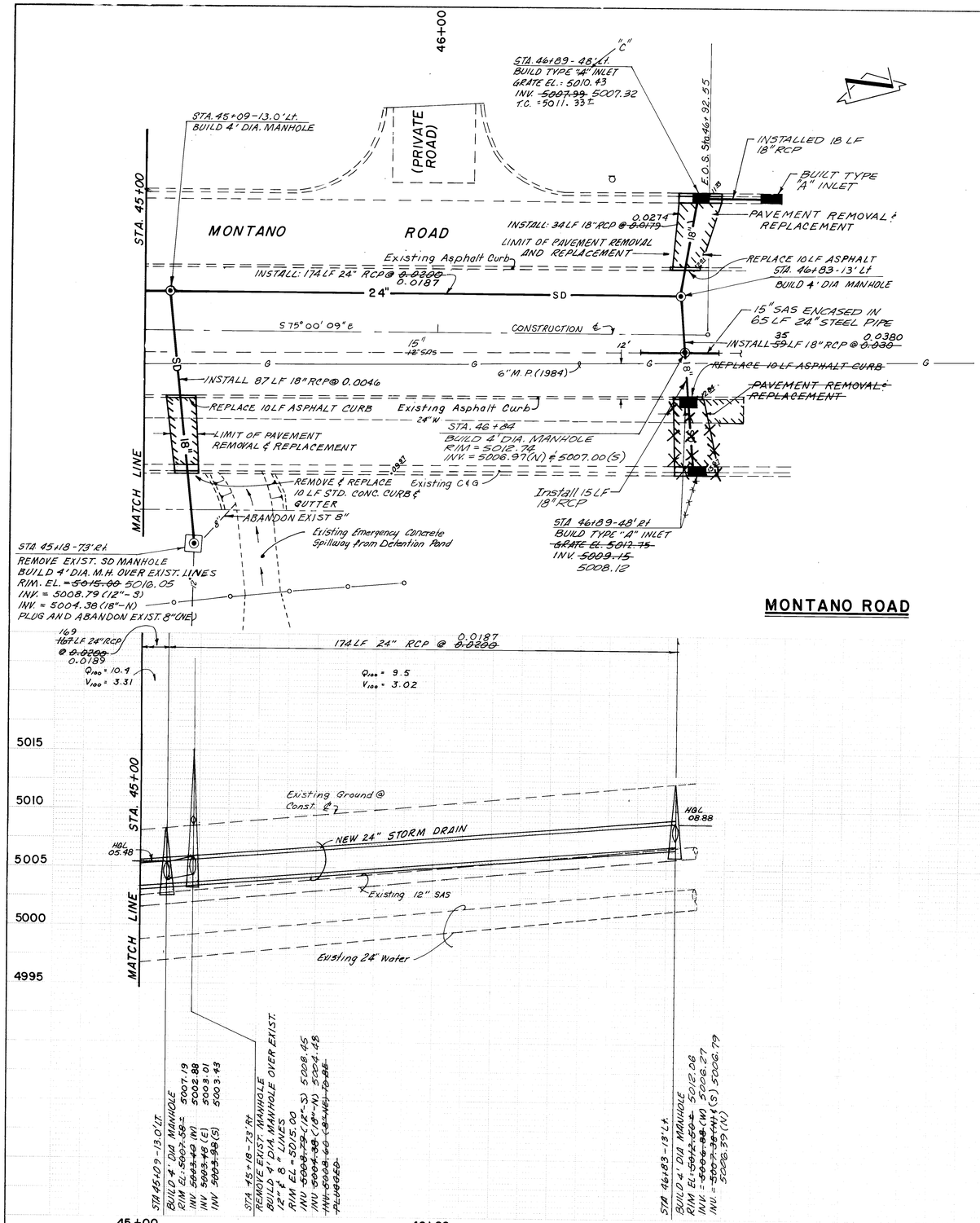
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN-STA. 40+50 TO STA. 45+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/3/86	Liquid Waste	WW	12-1-86
~~A.C.E.~~ - Design		12/9/86	Traffic	N/A DWH	12/8/86
~~A.C.E.~~ - Hydrology		12/8/86	Water	WW	12-1-86

DRAWING NO. 2461 | MAP NO. F - 15 | SHEET 13 OF 19

Scanlon Job No. 85113

RECORD DRAWING



MONTANO ROAD

NOTE:
ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET
ON CONCRETE POST SOUTHWEST
CORNER MONTANO & EDITH
ELEV. 4984.24

NMSHC/ACS NM 47-8 BRASS
TABLET IN ISLAND ON SECOND
STREET NORTH OF MONTANO
ELEV. 4974.569

AS BUILT INFORMATION
CON-TRACTOR New Concepts, Inc.
4-PRK Scanlon & Associates DATE 11-88
STAKED BY
INSPECTIONS
ACCEPTANCE BY DATE
FIELD
CHANGES/ADDITION BY
CORRECTED BY Scanlon & Associates DATE 11-88
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
STATE OF NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER
STEVEN A. VERMMES

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 11/85
		DESIGNED BY S.A.V.	DATE 11/85
		DRAWN BY C.L.W.	
		CHECKED BY	DATE

26 24611488

SCALES:
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

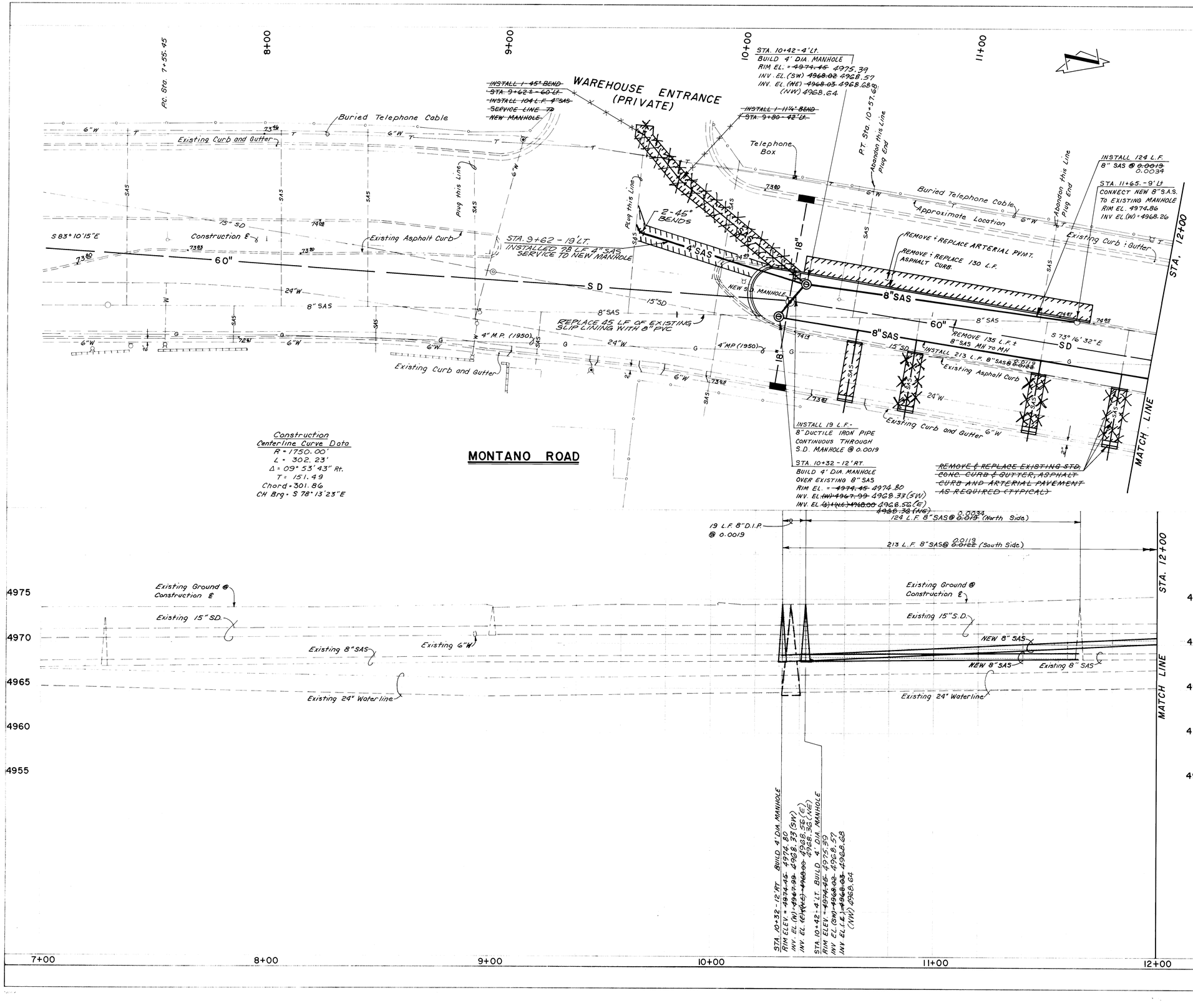
TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
STORM DRAIN-STA. 45+00 TO STA. 46+92.55

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/3/86	Liquid Waste	W/W	12-1-86
A.C.E. - Design	for D. Stanley	12/9/86	Traffic	N.A. D.W.H	12/8/86
A.C.E. - Hydrology	N. Higa	12/4/86	Water	W/W	12-1-86

DRAWING NO. 2461 | MAP NO. F - 15 | SHEET 14 OF 19

Scanlon Job No. 85113

RECORD DRAWING



NOTE:

1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED.
2. RECONNECT EXISTING SAS SERVICE LINES BETWEEN STA. 10 + 32 AND STA. 12+45 RIGHT SIDE TO NEW 8" SAS PER CITY OF ALB. STD. DWG. S-9.
3. RECONNECT EXISTING SAS SERVICE AT STA. 9+65 LEFT TO NEW 4' DIA. MANHOLE AT STA. 10+42 - 4' LT.

SURVEY INFORMATION — NO / FIELD NOTES BY / DATE

BENCH MARKS
ACS 2 - FI5A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH ELEV. 4984.24
NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO ELEV. 4974.569

AS BUILT INFORMATION
N.T.S. by New Concepts, Inc. Date 11-88
Scanlon Associates
Inspection by
Field Survey by
Verification by Scanlon & Associates Date 11-88
CORRECTED BY Associates
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

ENGINEER'S SEAL

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	SAW-J.O.R.
	DATE 10-86		R.L.H.
	DATE 10-86		
	DATE		

DESIGNED BY
DRAWN BY
TRACED BY

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

26 246111588

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

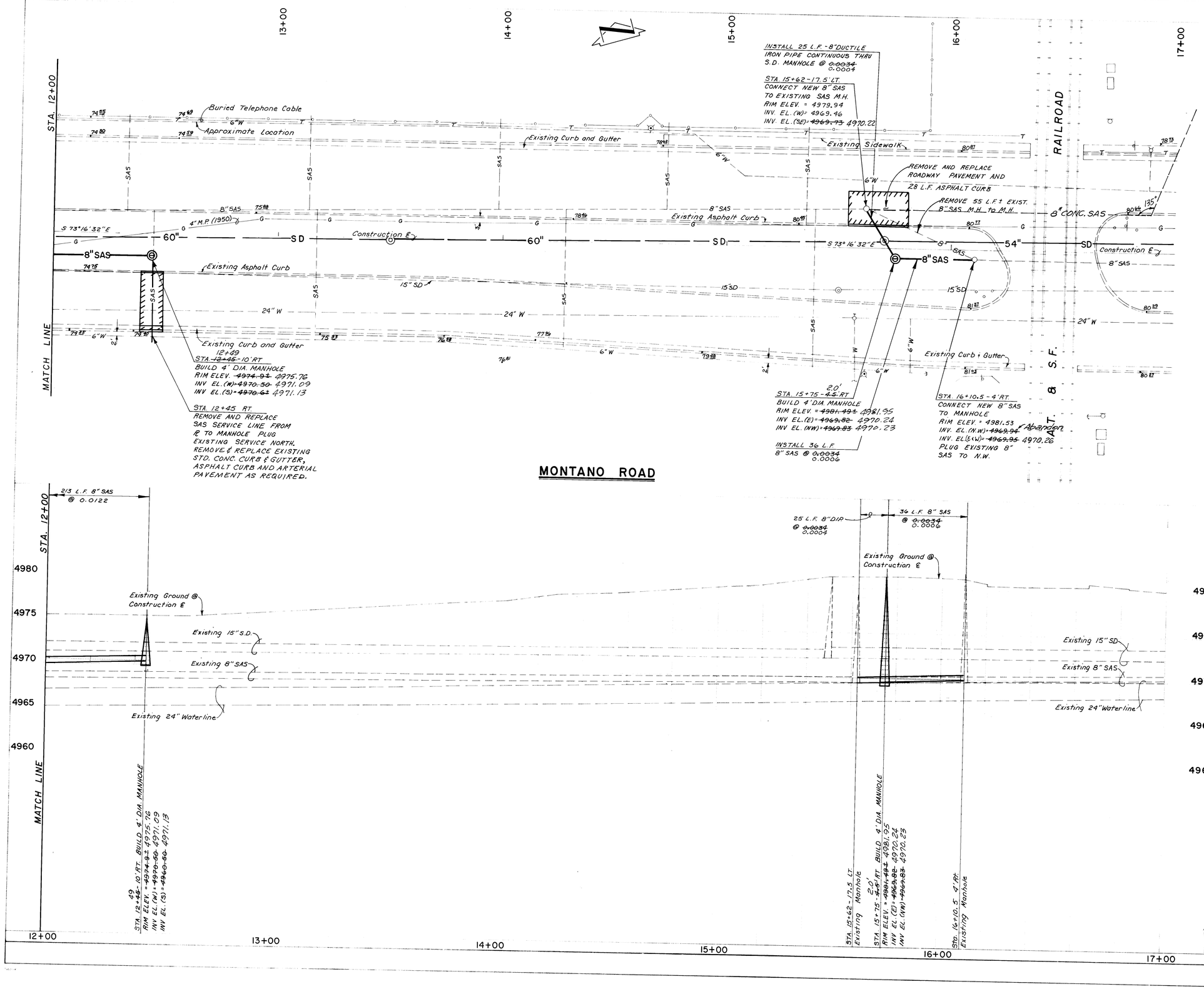
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
SANITARY SEWER STA. 7+00 TO STA. 12+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
for City Engineer	[signature]	12/3/86	Liquid Waste	[signature]	12-1-86
~~A.C.E.~~ Design	[signature]	12/9/86	Traffic	NA DWH	12/8/86
A.C.E. Hydrology	[signature]	12/4/86	Water	[signature]	12-1-86

DRAWING NO 2461 | MAP NO. F - 15 | SHEET 15 OF 19

Scanlon Job No. 85113.1

RECORD DRAWING



NOTE:
1. ALL SPOT ELEVATIONS SHOWN ARE EXISTING TOP OF CURB UNLESS OTHERWISE NOTED.

SCALES
HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

26 24611688

AS BUILT INFORMATION
N.M.A. ... New Concepts, Inc. ... DATE 11-88
A.M.A. ... Scanlon & Associates ... DATE
A.C.E. (ALL) ... FIELD ... DRAWING ... CONNECTED BY ... DATE

MICRO-FILM INFORMATION
RECORDING BY ... DATE ... NO

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH ELEV. 4984.24
NMSHC/ACS NM 47 - 8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO ELEV. 4974.569

SURVEY INFORMATION
FIELD NOTES ... NO ... BY ... DATE

ENGINEER'S SEAL

REVISIONS
NO ... DATE ... REMARKS ... BY ... DATE
DESIGN ... S.A.V.-J.D.R. ... DATE
DESIGNED BY ... DRAWN BY ... R.L.H. ... CHECKED BY ... DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

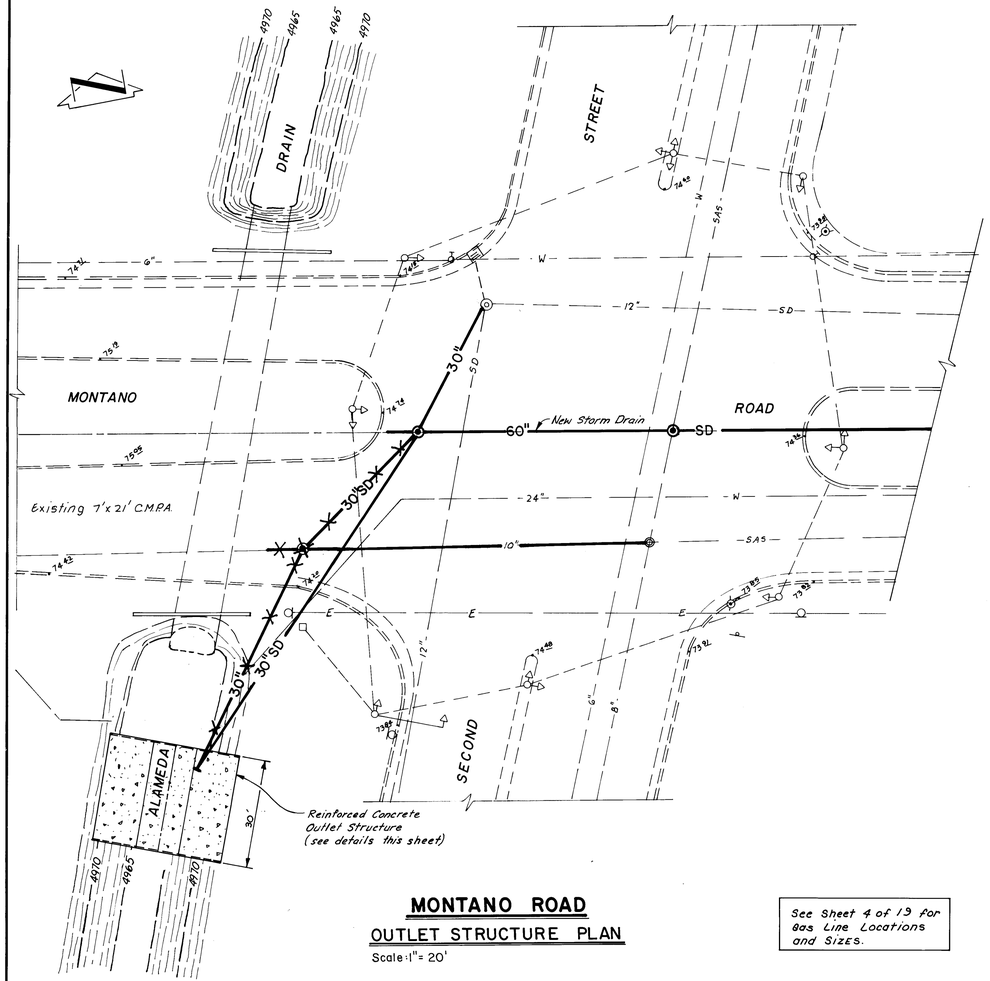
TITLE NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
SANITARY SEWER STA. 12+00 TO STA. 17+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	for	12/3/86	Liquid Waste		12-1-86
~~A.C.E.~~ Design		12/9/86	Traffic		12/8/86
A.C.E. Hydrology		12/8/86	Water		12-1-86

DRAWING NO. 2461 ... MAP NO. F-15 ... SHEET 16 OF 19

Scanlon Job No. 85113

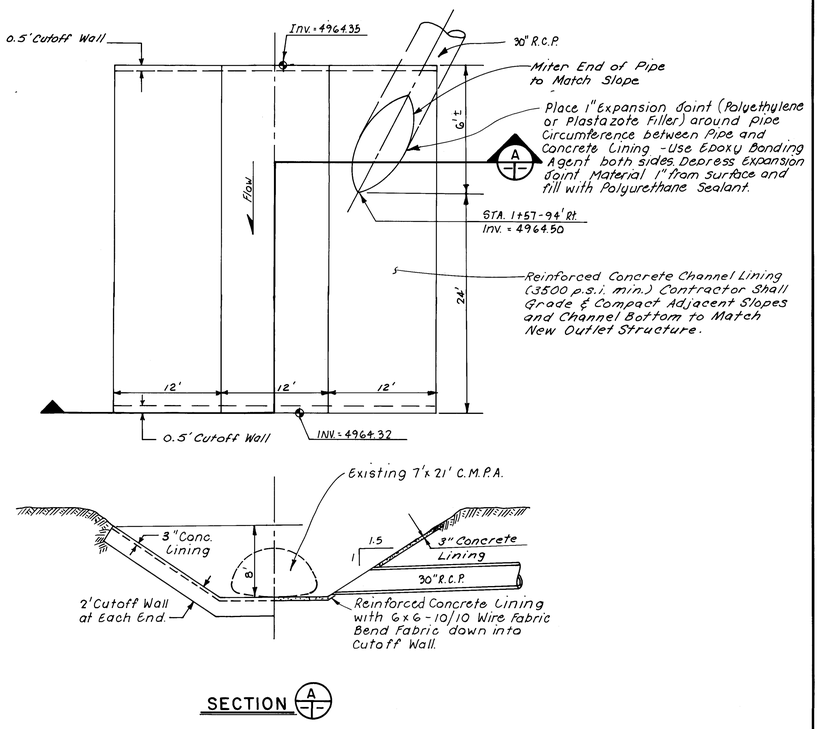
RECORD DRAWING



MONTANO ROAD
OUTLET STRUCTURE PLAN
Scale: 1" = 20'

See Sheet 4 of 19 for 8as Line Locations and Sizes.

NOTE:
CONTRACTOR WILL NOTIFY POWER POLE OWNER BEFORE CONSTRUCTION IN THE VICINITY OF EXISTING POWER POLE @ THE SOUTHWEST CORNER OF MONTANO ROAD & FOURTH STREET TO PROVIDE PROTECTION TO UTILITY.



SECTION A-A

OUTLET STRUCTURE DETAILS
Not to Scale

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc.
WORK STAKED BY Scanlon & Associates DATE 11-88
INSPECTORS ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY Scanlon & Associates DATE 11-88
RECORDED BY DATE
NO.

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC/ACS NM 47 - 8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KEITH L. VERMEER NEW MEXICO 9706 REGISTERED PROFESSIONAL ENGINEER

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN		DATE 2/86
	DESIGNED BY J.D.R.		DATE 2/86
	DRAWN BY: P.J.R./R.J.H		DATE
	CHECKED BY		

26 24611788

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM
OUTLET STRUCTURE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/2/86	Liquid Waste		12-1-86
~~A.C.E.~~ Design		12/9/86	Traffic	NA Dw H	12/8/86
~~A.C.E.~~ Hydrology		12/9/86	Water		12-1-86

for

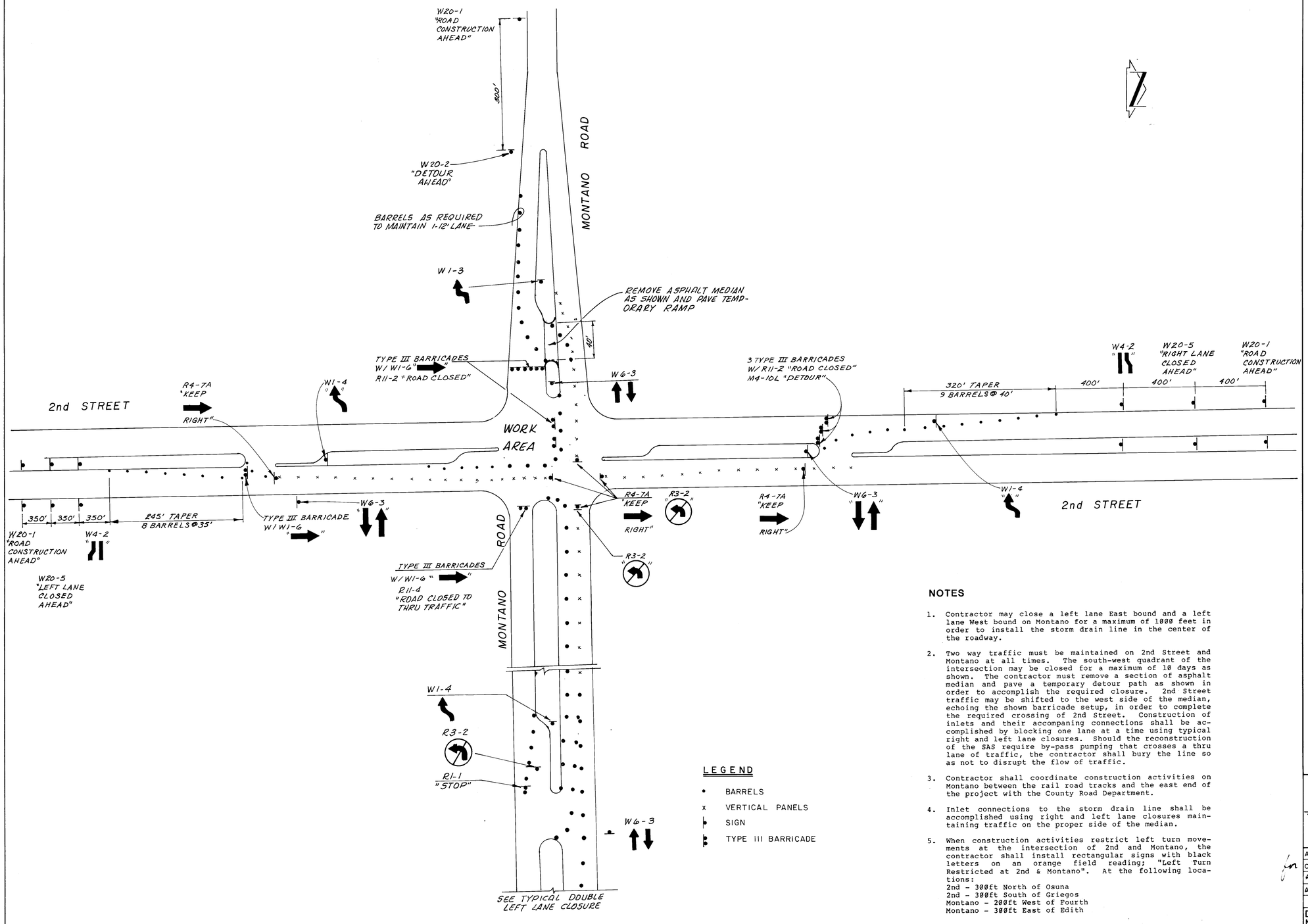
DRAWING NO. 2461 | MAP NO. F-15 | SHEET 17 OF 19

Scanlon Job No. 85113

RECORD DRAWING

85303

AF 22440A



LEGEND

- • BARRELS
- x VERTICAL PANELS
- SIGN
- TYPE III BARRICADE

NOTES:

1. See Traffic Control Notes Sheet 3 of 19.

NOTES

1. Contractor may close a left lane East bound and a left lane West bound on Montano for a maximum of 1000 feet in order to install the storm drain line in the center of the roadway.
2. Two way traffic must be maintained on 2nd Street and Montano at all times. The south-west quadrant of the intersection may be closed for a maximum of 10 days as shown. The contractor must remove a section of asphalt median and pave a temporary detour path as shown in order to accomplish the required closure. 2nd Street traffic may be shifted to the west side of the median, echoing the shown barricade setup, in order to complete the required crossing of 2nd Street. Construction of inlets and their accompaning connections shall be accomplished by blocking one lane at a time using typical right and left lane closures. Should the reconstruction of the SAS require by-pass pumping that crosses a thru lane of traffic, the contractor shall bury the line so as not to disrupt the flow of traffic.
3. Contractor shall coordinate construction activities on Montano between the rail road tracks and the east end of the project with the County Road Department.
4. Inlet connections to the storm drain line shall be accomplished using right and left lane closures maintaining traffic on the proper side of the median.
5. When construction activities restrict left turn movements at the intersection of 2nd and Montano, the contractor shall install rectangular signs with black letters on an orange field reading; "Left Turn Restricted at 2nd & Montano". At the following locations:
   2nd - 300ft North of Osuna
   2nd - 300ft South of Griegos
   Montano - 200ft West of Fourth
   Montano - 300ft East of Edith

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

BENCH MARKS

ACS 2-F15A-ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24

NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

AS BUILT INFORMATION

CONTRACTOR New Concepts, Inc.
WORK STAKED BY Scanlon & Associates DATE 11-88
INSPECTION BY DATE
ACCEPTANCE BY DATE
FIELD REVISIONS BY DATE
DRAWINGS CORRECTED BY Scanion & Associates DATE 11-88
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL

NO.	DATE	REMARKS

REVISIONS
DESIGN
DESIGNED BY ALBUQ. TRAFFIC ENGR. DIV. DATE: NOV. 86
DRAWN BY CLW - J.D.R. DATE: NOV. 86
CHECKED BY DATE

26 24611888

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
TRAFFIC CONTROL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/9/86	Liquid Waste		12-1-86
~~A.C.E.~~ - Design		12/9/86	Traffic		12/8/86
~~A.C.E.~~ - Hydrology		12/8/86	Water		12-1-86
			Traffic Operations		12-9-86

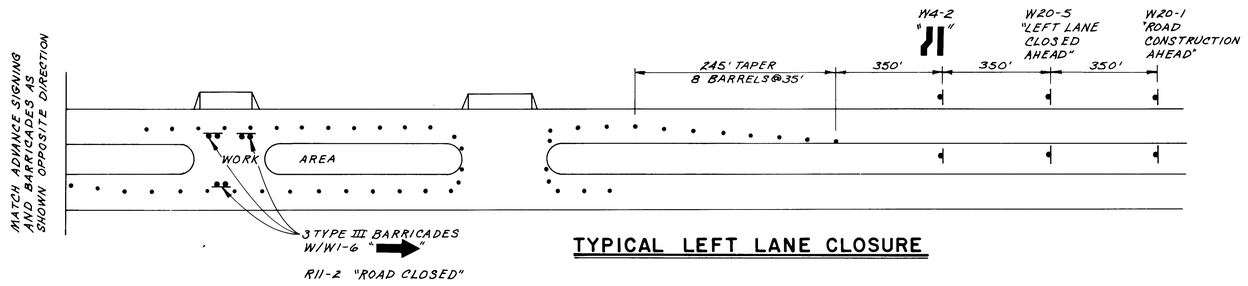
DRAWING NO. 2461 | MAP NO. F-15 | SHEET 18 OF 19

Scanlon Job No. 85113

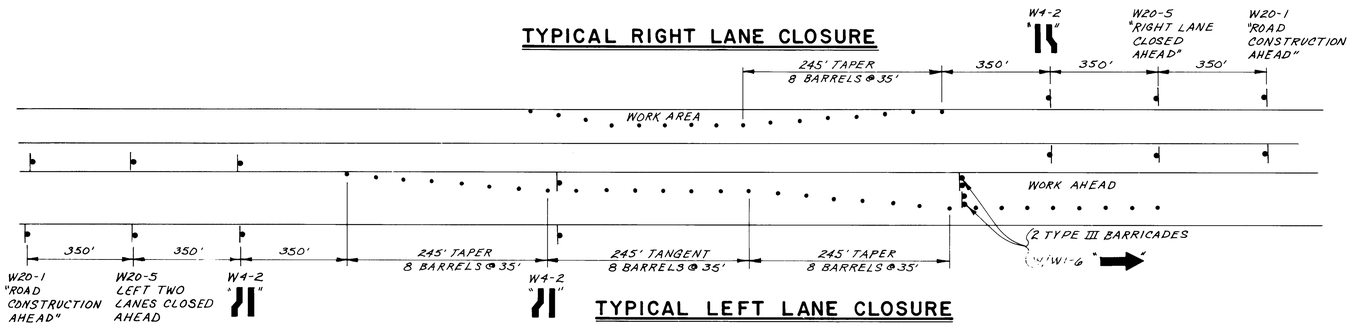
RECORD DRAWING

NOTES:

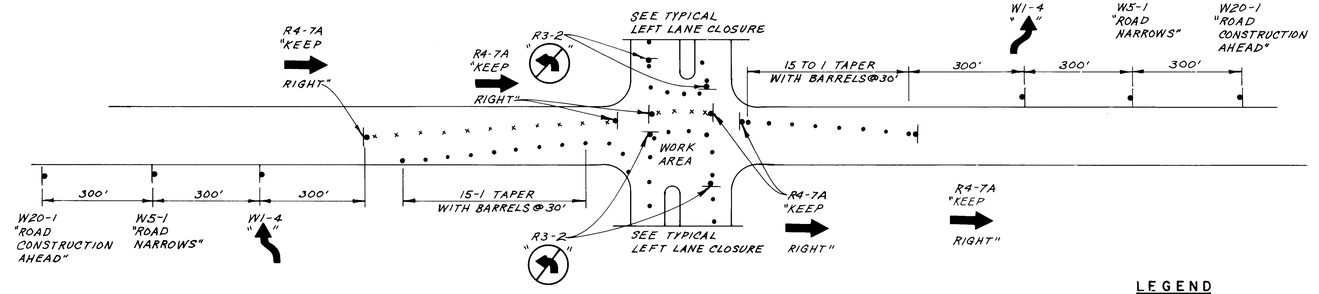
1. See Traffic Control Notes Sheet 3 of 19.



TYPICAL LEFT LANE CLOSURE



TYPICAL RIGHT LANE CLOSURE



LEGEND

- • BARRELS
- x VERTICAL PANELS
- SIGN
- TYPE III BARRICADE

AS BUILT INFORMATION
CONTRACTOR New Concepts, Inc. DATE 11-88
STAKED BY Associates DATE
INSPECTORS DATE
FIELD ACCEPTANCE BY DATE
FIELD VERIFICATION BY Scanlon & DATE 11-88
DRAWINGS CORRECTED BY Associates
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS 2 - F15A - ACS BRASS TABLET ON CONCRETE POST SOUTHWEST CORNER MONTANO & EDITH
ELEV. 4984.24
NMSHC/ACS NM 47-8 BRASS TABLET IN ISLAND ON SECOND STREET NORTH OF MONTANO
ELEV. 4974.569

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY ALBUQ. TRAFFIC ENGR. DIV. DATE FEB 86
DRAWN BY CLW DATE FEB 86
CHECKED BY DATE

26 24611988

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: NORTH VALLEY DRAINAGE SYSTEM IMPROVEMENTS
MONTANO ROAD SYSTEM (A)
TRAFFIC CONTROL PLAN (cont.)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		12/3/86	Liquid Waste		12-1-86
~~A.C.E.~~ Design		12/9/86	Traffic		12/8/86
A.C.E.-Hydrology		12/8/86	Water		12-1-86
			TRAFFIC OPERATIONS		12-9-86

DRAWING NO. 2461 | MAP NO. F-15 | SHEET 19 OF 19

Scanlon Job No. 85113

RECORD DRAWING