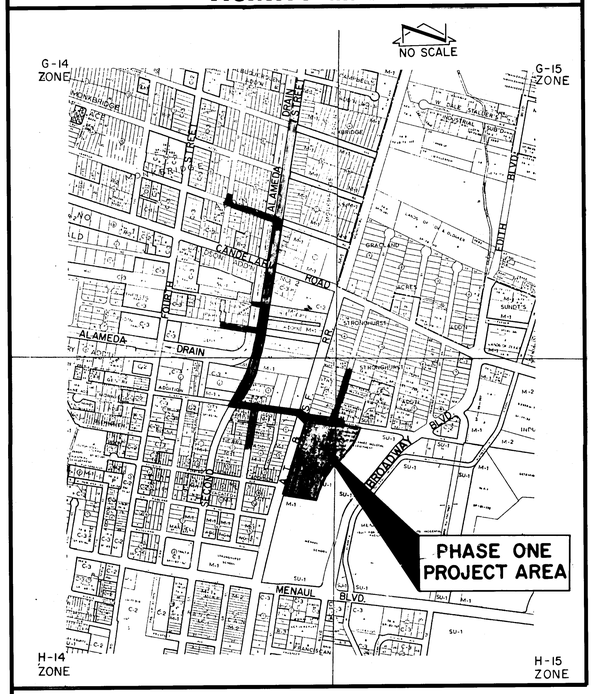
VICINITY MAP



ALBUQUERQUE SEAL NEW MEXICO 1706

PROJECT NO. 4271.90

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CLAREMONT, CANDELARIA, and 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

Phase One Construction

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 1-13-95

CALL BEFORE YOU DIG!
STATEWIDE 1-800-321-ALERT
ALBUQUERQUE 260-1990

PLAN SET NO._____

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

26 4271.900195

APPROVED FOR CONSTRUCTION.

Richard B. Kopf 2/13/95
City of ALBUQUERQUE Date

SCANNED BY CASON

SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER 8/28/92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE. CLAREMONT, CANDELARIA AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

PROJECT NO. 4271.90 | MAP NO. G-14, 15 H-14, 15 | SHEET G-1 OF

Richard Lovato
RECORD DRAWINGS 12/94

CONVERT 28/07/95 15:51:09

148413

LEGEND	PROPOSED	EXISTING
BUILDING		
WIRE MESH, CHAIN LINK FENCE		
ROCK OR BLOCK WALL		
POST		
SIGN		
TREE		
FLOW LINE OF DITCH		
SIDE SLOPES OF DITCH		
RAILROAD TRACKS		
CURB & GUTTER		
LAYDOWN CURB, DRIVEPAD		
SIDEWALK		
WHEEL CHAIR RAMP		
LIMITS OF REMOVAL		
DIRT ROAD		
CONCRETE IN PLAN		
EARTH		
CONTOURS	5150	5150
TELEPHONE BOX		
UTILITY POLE		
UTILITY POLE w/GUY WIRE		
STREET LIGHT, LUMINAIRE		
FIRE HYDRANT		
WATER VALVE		
BUTTERFLY VALVE		
AIR RELIEF VALVE		
WATER METER	W	W

LEGEND	PROPOSED	EXISTING
WATER SERVICE CONNECTION		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
TELEPHONE MANHOLE		T
CATCH BASIN		
WATER LINE	W	W
SANITARY SEWER LINE	SAS	SAS
STORM DRAIN LINE	SD	SD
GAS LINE	G	G
UNDERGROUND POWER LINES	UP	UP
ABOVE GROUND PIPE OR POWER LINES	P	P
UNDERGROUND TELEPHONE LINES	UT	UT
OVERHEAD TELEPHONE LINES	T	T
CABLE TV LINES	UTV	UTV
SURVEY, CONSTRUCTION CENTERLINE		
CITY MONUMENT		C.M.
BENCH MARK	B.M.	B.M.
R/W LINE, PROPERTY LINE		
EASEMENT		
FINISHED FLOOR ELEVATION		
SPOT ELEVATION	32.45 32.45	X 32.45
CONTROL POINT, P.I.		
SECTION CORNERS		
CONDUIT		
PEDESTAL POLE BASE		
PEDESTAL POLE w/SIGNAL		
MASTARM		
UTILITY REMOVAL		W

AS BUILT INFORMATION
CONTRACTOR BDC/
WORK STARTED BY
INSPECTORS COA DATE 12/94
ACCEPTANCE BY AP.P DATE
LEFT TO
VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AP.P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERMEIRES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER 8/28/92

NO.	REMARKS	DATE	BY
	REVISIONS		
	DESIGN	DATE 8-92	G.W.C
	DRAWN BY	DATE 8-92	J.G.L.
	CHECKED BY	DATE 8-92	S.A.V.

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
LEGEND

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Stapleton	2-18-92	WATER	William Baltch	9-29-92
TRANSPORTATION	[illegible]	9-29-92	WASTE WATER	William Baltch	9-29-92
HYDROLOGY	Steve Zobley	9-29-92			

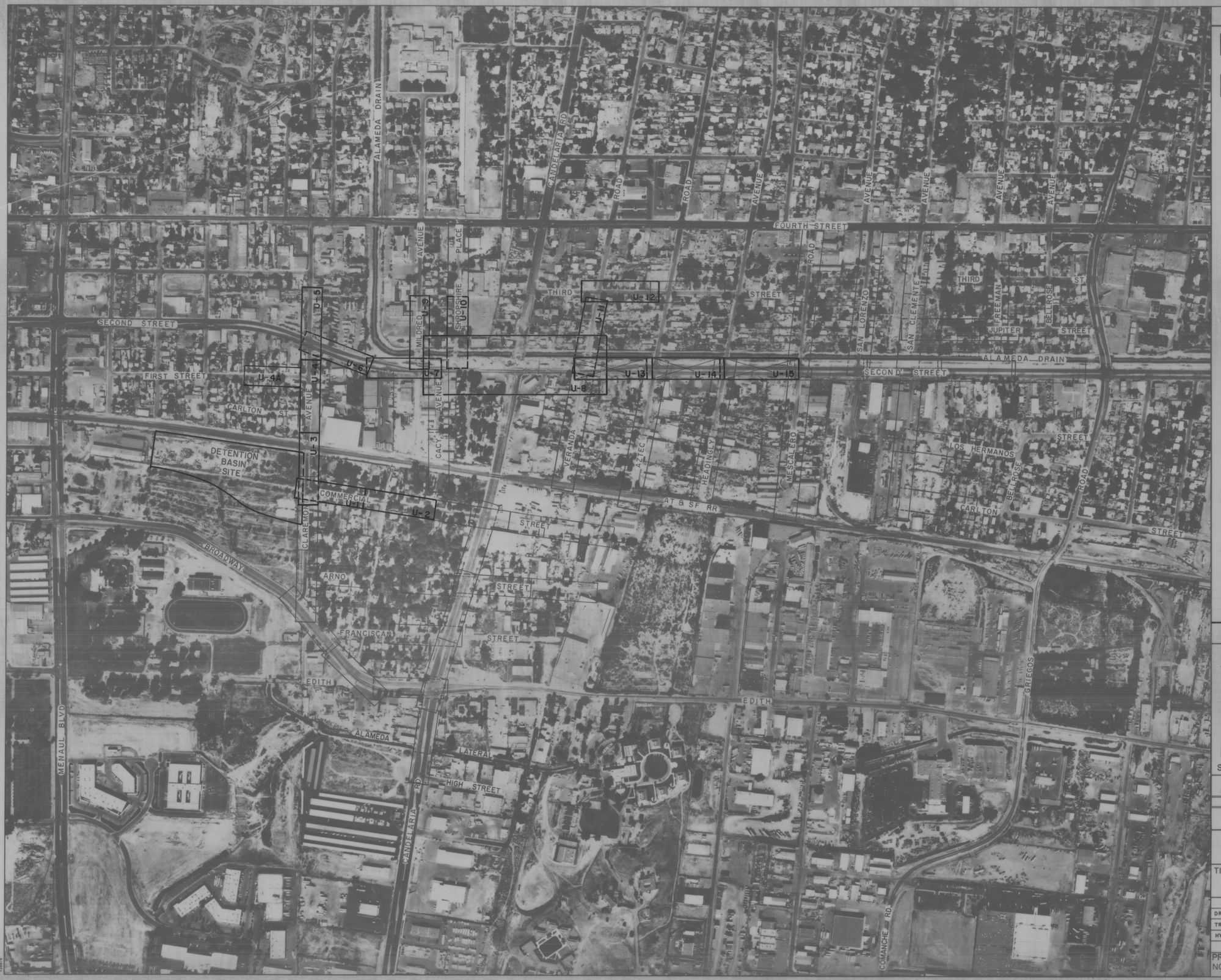
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF G-2

2k 4271 90 0295

LEG-SHAD 08/19/92 09:54:22

SCANNED BY LASER

Richard Lovato
RECORD DRAWINGS 12/94



NOTES

U-1 PHASE ONE PROJECT AREA – BASE BID.
→ SHEET NUMBER

U-13 PHASE ONE PROJECT AREA – ADDITIVE ALT. NO.1.
→ SHEET NUMBER

ADDITIONAL AREAS MAPPED WITH THIS PROJECT FOR FUTURE PHASES.

PHASE I CONSTRUCTION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2C 4271.900395

SCALE: 1" = 300'

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
LOCATION MAP

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. Scotsby	2-18-93	WATER	William Baker	9-24-92
TRANSPORTATION	M. Dowse	9-24-92	WASTEWATER	William Baker	9-24-92
HYDROLOGY	Steve Sobey	1-19-93			

PROJECT NO. 4271.90 | MAP NO. G-14,15 H-14,15 | SHEET G-3 OF

ENGINEER'S SEAL
ROBERT A. VERHINES
NEW MEXICO
8796
REGISTERED PROFESSIONAL ENGINEER

AS BUILT INFORMATION
CONTRACTOR RMDI DATE 12/94
WORK INSPECTED BY COA
INSPECTORS
ACCEPTANCE BY AA: 12 DATE
PUNCH LIST
CERTIFICATION BY COA DATE
DRAWINGS
CORRECTED BY AA: 12 DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY S.A.V. DATE 8-92
DRAWN BY N.W. DATE 8-92
CHECKED BY S.A.V. DATE 8-92

SCANNED BY BY LASON

Richard Smith
RECORD DRAWINGS 12/94

GENERAL NOTES

1. City of Albuquerque "Standard Specification for Public Works Construction", 1986, as amended, shall govern construction of this project.

2. Exploratory trenching may be required to more specifically locate utility lines during construction. The Contractor is responsible to coordinate field location of utilities with the affected utility companies. The cost of this work will be considered incidental to other items of work and no direct payment will be made therefor.

3. Elevations are shown in feet above mean sea level datum.

4. All stationing refers to centerline or baseline of construction and is the measured horizontal distance. Left and right of centerline are looking in the direction of increasing station.

5. When coordinates are shown herein (N, E), they refer to a modified New Mexico State Plane (Central Zone) ground coordinate system established for this project, except when specifically referred to as state grid. Coordinates are based on true ground distances and state grid bearings from the state grid coordinate system. Project combined ground-to-grid factor is 0.99967806.

6. All exposed concrete edges shall be chamfered 3/4 inch unless noted or unless otherwise directed by the Engineer.

7. Concrete construction shall be in accordance with ACI-301, latest edition, and as modified by the contract documents. Reinforcing bar spacing is center to center of bars. Bar cover is clear distance between surface of bar and face of concrete and shall be a minimum of two inches for formed and top surfaces and three inches for surfaces placed against the earth unless otherwise shown.

8. Reinforcing bars shall be continuous or spliced from slabs and walls into adjacent slabs and walls.

9. Reinforcing bars shall be detailed by the Contractor in conformance with the most current editions of ACI-318, ACI-315 and ACI-315R. The Contractor shall submit reinforcement placement drawings (shop drawings) for Engineer's review before beginning fabrication of the reinforcement. Where splice lengths are not shown on the plans, Class "B" splices with a multiplier of 0.8 shall be used. Bar bends shall conform to ACI-318, Chapter 7, with 90 and 180 degree hooks having a minimum extension as set forth in Section 7.1 of ACI-318.

10. A concrete placement schedule and proposed construction joint locations shall be submitted by the Contractor for review by the Engineer before reinforcing bars are detailed. The sequence of pours must be such that shrinkage will be minimized. Maximum length between Contraction/Construction joints shall be 35 ft. Expansion joints are to be as located in the plan drawings.

11. A Geotechnical Investigation report was prepared for this project and is available for examination at the office of Scanlon & Associates, Inc. at 8008 Pennsylvania Circle NE, Albuquerque, New Mexico, including logs of test borings. The Contractor is expected to examine the site and determine for himself the character of materials to be encountered. Soils are classified in accordance with the Unified Soils Classification system.

12. Contractors' construction yards, staging areas, and any other disturbed areas not within the seeding limits noted on the plans shall be seeded, in accordance with Section 1011 of the Standard Specifications and no measurement or payment will be made therefor.

13. Preservation and replacement of permanent survey monuments and survey stakes will be performed in accordance with Section 4.4 of the General Conditions of the Standard Specifications.

14. The Contractor shall confine his operations to the construction limits of the project and will be held responsible for any damage by his operation to public or private property, including utilities.

15. It is the Contractor's responsibility to locate a waste area for surplus or unsuitable materials. No separate measurement or payment shall be made for materials hauled to or placed at such waste area.

16. The Contractor will be required to maintain his Construction areas during the entire life of the project.

17. There will be no measurement or payment for any items of work not specifically listed in the UNIT PRICE BID PROPOSAL. All other items of work or materials reasonably anticipated to be required to complete the project shall be considered incidental to other items of work.

18. The Contractor is responsible for the protection of his work from rainfall, storm drainage, or flood so that it does not delay construction or damage completed work or downstream or adjacent properties.

19. Owner is responsible for securing all permanent easements or rights-of-way, Highway Department permission, Railroad Crossing permit and Temporary Construction Easements as shown on the plans for construction, but Contractor shall be responsible for construction activities which may require additional permission or permits from others.

20. Limits of clearing and grubbing, and limits for reseeding disturbed areas shown on the plans, are based on anticipated Contractor operations. Actual limit shall be determined at the pre-construction conference based on proposed Contractor operations for trenching, staging areas, construction yard, etc. Final quantities shall be based on limits as approved by the OWNER.

21. All traffic control devices installed or used during the construction of this project must conform to the "Manual on Uniform Traffic Control Devices" (MUTCD), latest edition, and erected and maintained by the Contractor's Safety Representative. Construction Traffic Control shall comply with Section 19 of the Standard Specifications.

22. The Contractor shall provide a proposed construction progress schedule at the pre-construction conference for review by the Owner and the Engineer. Additional or supplemental schedules may be required as the project progresses at the request of either the Owner or the Engineer.

23. The Contractor shall provide and maintain access to all public and private facilities adjacent to the construction area and pedestrain traffic in accordance with Section 19 of the Standard Specifications.

24. All work associated with supplying and installing electrical conduit shall be performed by a licensed electrical contractor.

25. During backfilling, the contractor shall be limited to the use of hand operated compaction equipment within a zone of 5 feet horizontally from the back of the wall of concrete structures.

26. The limits of pavement, curb and gutter, and sidewalk removals and replacement, as shown herein, are based on anticipated Contractor operations for trenching but are considered to be maximums. Actual limits will depend on the Contractors trenching methods used. Any removals which exceed the limits necessary to conduct the Contractor's operations or which exceed the limits shown on these plans must be approved by the Owner prior to removal. Payment will be made for removal and replacement of approved items only and will be based on actual quantities measured in the field.

STRUCTURAL DESIGN DATA

27. Design in accordance with American Concrete Institute (ACI-318-89)"Building Code Requirement for Reinforced Concrete" and Technical Release No. 67(8/80). By U.S.D.A. Soil Conservation Service, and American Institute of Steel Construction "Manual of Steel Construction", 9th Edition.

    Reinforced Concrete (Strength Design)
    f'c = 4000 psi @ 28 days; n = 8
    fy = 60,000 psi;
    Reinforcing Steel: ASTM A-615 Grade 60
    Structural Steel: ASTM A-36, A-53. A-500 & A-501
    Building design shall be in accordance with UBC 30/25.

28. All data shown herein concerning existing utilities has been obtained from the owners of the utilities, from records of the City of Albuquerque, and from field observations. These may or may not be accurate. The Contractor is cautioned that he is responsible for determining the exact locations of and for providing protection of all lines during construction. Utility relocations required by the construction of this project are to be coordinated by the Contractor. No additional compensation will be allowed for delays or inconvenience caused by utility company work crews. The Contractor may be required to reschedule his activities to allow utility crews to perform their required work. Any damage to lines, valves, meters, etc., will be repaired or replaced by the Contractor at his expense.

29. Quantities shown for the various unit price bid items are for the Contractor's information only. Payment shall be based on actual quantities as constructed.

30. It is the contractors responsibility to know and comply with the "Occupational Safety and Health Act of 1970", as amended.

31. The Air Pollution Control Regulations of the ALBUQUERQUE BERNALILLO COUNTY AIR QUALITY CONTROL BOARD limit emission of particulate matter and the use of cut back asphalt. It is the responsibility of the Contractor to clarify these restrictions with the ENVIRONMENTAL HEALTH DEPARTMENT prior to submittal of bids to avoid conflicts with the regulations. Any required permits will be the responsibility of the CONTRACTOR.

32. All Excavation shall be governed by Federal State and Local Laws, rules and regulations concerning CONSTRUCTION SAFETY and HEALTH.

33. Any work to be performed within the Middle Rio Grande Conservancy District right-of-way shall be closely coordinated with the Middle Rio Grande Conservancy District: Call 247-0234. No work is to be done on facilities or structures belonging to, or operated by, the Middle Rio Grande Conservancy District (MRGCD) between March 1 and October 31 inclusive. However, work may be permitted by the MRGCD if it can be shown that the work will not interfere with operations of the MRGCD facility. All work to be done within the MRGCD facilities must be approved by the MRGCD Engineer prior to commencing work.

34. Noise Supression Devices shall be kept in working order on all equipment in accordance with all Federal and State Regulations and City Ordinances throughout the course of CONSTRUCTION.

35. Watering for Dust Control, as required, shall be considered incidential to construction, and no measurment or payment shall be made therefor. Construction areas shall be watered or otherwise kept dust free. The Contractor shall use watering equipment for dust pollution abatement as directed by the Project Manager.

36. During non-working hours, construction equipment shall not obstruct driveway openings onto private properties and shall not be parked within the right-of-way. The Construction Clear Zone for this Project is 15 feet from the edge of the outside driving lane. The CONTRACTOR shall not store any equipment or material within the Construction Clear Zone.

37. A minimum of two (2) working days prior to any excavation the Contractor must contact ONE CALL line locating service (260-1990) for field locations of existing utilities.

38. The CONTRACTOR is to exercise care when removing existing pavement to avoid disturbing any existing underground utilities to remain. It shall be his responsibility to coordinate with the UTILITY COMPANIES in order to prevent any service disruption. Any existing utilities or service lines that do not require relocation and are damaged by the CONTRACTOR shall be removed and replaced at the CONTRACTORS EXPENSE. This expense shall be considered incidental to the project and no separate payment will be made.

39. CURB and GUTTER, SIDEWALKS and DRIVEPADS shown as existing and not to be removed under this CONTRACT, which are damaged or displaced by the CONTRACTOR, shall be removed and replaced by the CONTRACTOR at his expense.

40. The CONTRACTOR shall be responsible for protecting, supporting and maintaining in service all existing utilities.

41. The CONTRACTOR is responsible for any damage caused by him to existing valve boxes, traffic conduit and manholes during construction and shall repair or replace same at his own expense. The CONTRACTOR shall protect the curb and gutter from incidental splashing during tack coat application and CONTRACTOR shall be responsible for cleaning the same at his own expense in the event of splashing.

42. All ties to existing pavement shall be a neat line saw cut joint. Saw cut existing pavement to a straight line and at right angles to remove any broken or cracked pavement. This work shall be considered incidental to construction and no direct payment will be made therefor.

43. Existing concrete drivepads, asphaltic driveways and paved parking lots shall be saw cut to a neat line where matched to new construction. This work shall be considered incidental to Construction and no direct payment will be made therefor. Curb and gutter and sidewalks shall be removed to nearest joint.

44. The FIRE DEPARTMENT shall be notified 48 hours in advance by the CONTRACTOR whenever a fire hydrant is to be removed or is to be out of service.

45. All Gas Valves Boxes, Gas Manholes, Electrical Manholes, Telephone Manholes and Utility Poles will be adjusted to grade or relocated by others.

46. Utility adjustments will be done concurrent with construction by Utility Companies involved. The CONTRACTOR is hereby advised that he shall coordinate his work with respective Utility Companies with enough time so as not to impede his work.

47. Prior to construction in any phase, the Contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the Contractor shall notify the Project Manager so that the conflict can be resolved with minimum amount of delay. This work shall be considered incidental to construction and no direct payment will be made therefor.

48. New street light bases shall be installed under this contract. The Contractor shall coordinate installation of the new street lights with the electric company (PNM).

49. The Contractor shall notify the City Surveyor 7 days in advance of construction affecting a City survey monument. Phone No. 768-3612

50. The Contractor shall replace all permanent striping and pavement markings removed during construction. The cost of this work is considered incidental to other items of work and no separate measurement or payment will be made therefor.

51. All curb dimensions shown are to face of curb unless otherwise noted.

52. The use of thirty-five (35) ton or greater roller or vibratory roller will not be allowed on this project. The required compaction shall be affected by means of other types of compaction equipment.

53. Subgrade preparation under Curb and Gutters, Median Pavements, Sidewalks and Drivepads shall be considered incidental to the Construction of such and no direct payment shall be made for those items of work.

54. The design "R" value for this project is 30.

55. All Manhole Frames and Covers and Water Valve Frames and Lids Left in Service within the Project Limits shall be adjusted to grade with concrete collars in accordance with the Standard Details. Payment for this work will be made under appropriate bid items.

56. The use of Adjusting Rings within the Manhole Frames to adjust Manhole Covers will not be permitted.

57. All textured concrete median pavement on this project shall be constructed in accordance with the City of Albuquerque Standard Specifications, section 346. The color is to be "Baja Red", running bond pattern.

58. Wheel chair ramps shall be constructed in accordance with C.O.A. Std. Dwgs 2440 and 2441. Measurement and payment for wheel chair ramps shall be per equivalent quantity ot 4" sidewalk.

59. Concrete sidewalks, drivepads, wheelchair ramps, curb and gutter, and concrete median pavement shall be constructed of 4000 psi portland cement concrete.

60. Joints for concrete pipe shall be of the flexible watertight "O-ring" gasketed type per the requirements of Sections 501.024 and 501.033 of the Standard Specifications.

61. All new reinforced concrete pipe (RCP) for storm drain construction shall be Class IV unless otherwise noted on the plans.

62. All new storm inlets shall be installed per City of Albuquerque Standard Specifications and City of Albuquerque Standard Drawings.

63. Right-of-way lines shown on the storm drain plan and profile sheets of these plans are approximate only. They were taken from available information from other projects, zone atlas maps, and other miscellaneous documents. They were not surveyed in the field as a part of this project.

64. SCHEDULING: All mechanical, electrical and control testing will be witnessed by the Owner. Contractor shall notify Owner of such tests at least one (1) week in advance to permit the Owner to witness the testing. Also, all training must be scheduled at lest two (2) weeks in advance with the City.

65. SUBMITTALS: Owner will review submittals in addition to Engineer. Owner shall retain right to comment on all submittals.

66. SEPARATE REQUIREMENTS FOR EQUIPMENT: Spare parts are noted in the various mechanical, electrical and control specifications. However, a complete list of recommended/spares shall be presented by the Contractor; and which is based on the recommended spare by each manufacturer; for acceptance by the Owner and Engineer.

67. The parts inventory to be turned over to the Owner must be arranged by appointment (873-6204) a minimum of two days prior to turnover, with the City warehouse located at the southside wastewater treatment plant. The submittal must include a parts list, description of parts, part ordering number, cost of part, and where (and who from), the parts may be purchased.

FOR INFORMATION AND PROJECT COORDINATION WITH PRIVATE UTILITY COMPANIES CONTACT THE FOLLOWING INDIVIDUALS:

AT & T

Ishmael Pantoja
111 3rd Street NW
Albuquerque, New Mexico 87103
Phone: (505) 842-2806

U.S. WEST COMMUNICATIONS

Brenda Carlson
201 Third N.W.
P.O. Box 1355, Sta. 952
Albuquerque, New Mexico 87103
Phone: (505) 245-8530

PUBLIC SERVICE CO. OF NEW MEXICO

Tom Krattiger
Alvarado Square
Mail Stop 0208
Albuquerque, New Mexico 87158
Phone: (505) 848-4947

JONES INTERCABLE

Karen Shore
4611 Montbel N.E.
P.O. Box 27138
Albuquerque, New Mexico 87125-7138
Phone: (505) 761-6220

GAS CO. OF NEW MEXICO

Tim Cynova
4625 Edith Blvd. NE
Albuquerque, New Mexico 87107
Phone: (505) 761-7775

AT&SF RAILWAY COMPANY

H. E. Eastham
7412 Jefferson Street, NE
Albuquerque, NM 87109
Phone: (505) 857-5026

M. R. G. C. D.

Subhas K. Shah, Chief Engineer
1931 Second Street, SW
Albuquerque, NM
Phone: (505) 247-0234

AS BUILT INFORMATION
CONTRACTOR RMCI
STAKED BY COA DATE 2-94
INSPECTORS MARKINGS BY AAI; R DATE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY AAI; R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL
SCOTT A. VEGHARS NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER
8-92

NO.	REMARKS	DATE	BY
	DESIGN	DATE 8-92	DESIGNED BY R.L.
	REVISIONS	DATE 8-92	DRAWN BY J.G.L.
		DATE 8-92	CHECKED BY R.L.

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:

GENERAL NOTES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	William Bockel	9-24-92
TRANSPORTATION		9-24-92	WASTE WATER	William Bockel	9-24-92
HYDROLOGY		1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET 6-4 OF

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4271.90 4 9 5

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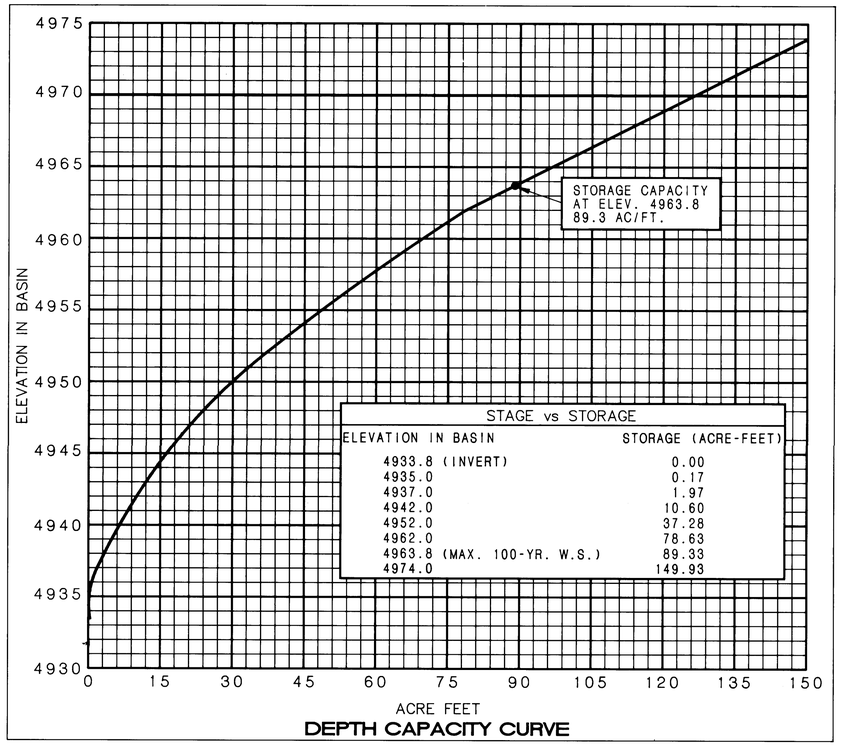
SCANNED BY BY LASON

Richard Frost
RECORD DRAWINGS 12/94

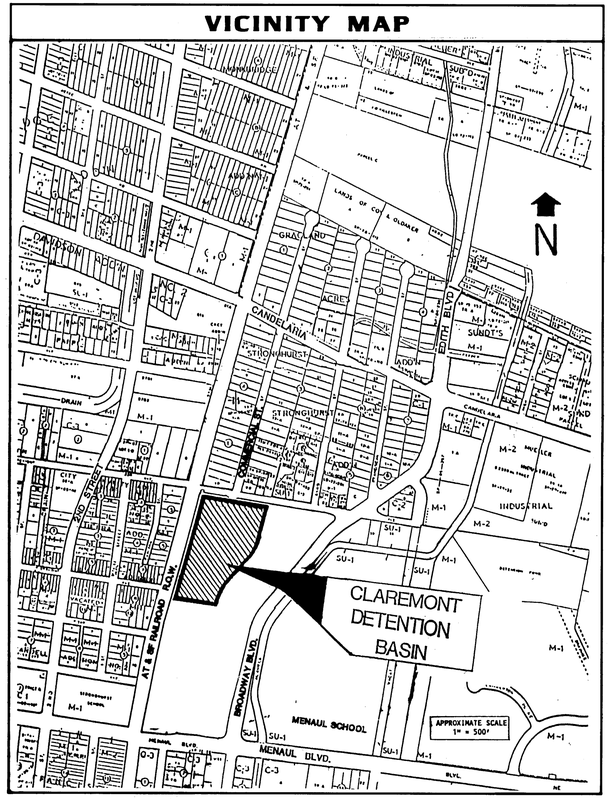


STAGE vs STORAGE

ELEVATION IN BASIN	STORAGE (ACRE-FEET)
4933.8 (INVERT)	0.00
4935.0	0.17
4937.0	1.97
4942.0	10.60
4952.0	37.28
4962.0	78.63
4963.8 (MAX. 100-YR. W.S.)	89.33
4974.0	149.93

DEPTH CAPACITY CURVE

VICINITY MAP



STATISTICS OF CLAREMONT DETENTION BASIN	
DRAINAGE AREA	2637.6 Ac.
100-YR DESIGN RAINFALL	2.75" in 24 hrs. 2.35" in 6 hrs.
100-YR WATER SURFACE ELEVATION	4963.8
STORAGE CAPACITY @ 4963.8	89.33 Ac.-Ft.
FREEBOARD @ 100-YR FREQUENCY FLOOD	10.2 Ft.
EVACUATION TIME FOR 100-YR STORM	50 hrs.
OUTLET INVERT ELEVATION	4933.8
OUTLET CONDUIT SIZE (FORCE MAINS)	1 @ 8" dia. 1 @ 24" dia.
PUMP AVG. DISCHARGE CAPACITY (at W.S. Elev. 4963.8)	36 cfs
PEAK 100-YR INFLOW	1120 cfs
NORMAL WATER SURFACE ELEVATION	4933.8 Ft.

NOTE: DISCHARGE FROM THE CLAREMONT DETENTION BASIN IS 100% PUMPED.

CLAREMONT DETENTION BASIN

City of Albuquerque, Applicant, located in Bernalillo County, State of New Mexico. All courses true. The undersigned, City of Albuquerque, Claimant, whose Post Office address is P.O. Box 1293, Albuquerque, New Mexico, has caused to be located by a Qualified Registered Engineer the Claremont Detention Basin as hereinafter described and indicated, hereby make these several statements relative thereto and offers this map and statements for acceptance and filing in compliance with the laws of the State of New Mexico.

The center of the Basin Inlet Structure is situated within the SE 1/4 of the NE 1/4 of the NE 1/4 of Section 8, Township 10N, Range 3E, N.M.P.M., Albuquerque, New Mexico.

STATE OF NEW MEXICO)
) ss
CITY OF ALBUQUERQUE)

I hereby certify that the accompanying maps and statements have been duly examined by me and are approved as to form and content, and were duly accepted for filing on the 17th day of JAN, 1993.

Steven Bolling
City of Albuquerque
State of New Mexico

ENGINEER'S CERTIFICATE

STATE OF NEW MEXICO)
) SS.
COUNTY OF BERNALILLO)

I, Scott Verhines, being first duly sworn upon my oath, state that I am the Registered Professional Engineer who made the plans of the Claremont Detention Basin, that such plans consisting of four sheets were prepared by me or under my direction and that the same are true and correct to the best of my knowledge and belief.

Registered Professional Engineer No. 8706

Scanlon and Associates, Inc.
8008 Pennsylvania Circle, NE
Albuquerque, New Mexico 87110

Scott A. Verhines NMPE # 8706

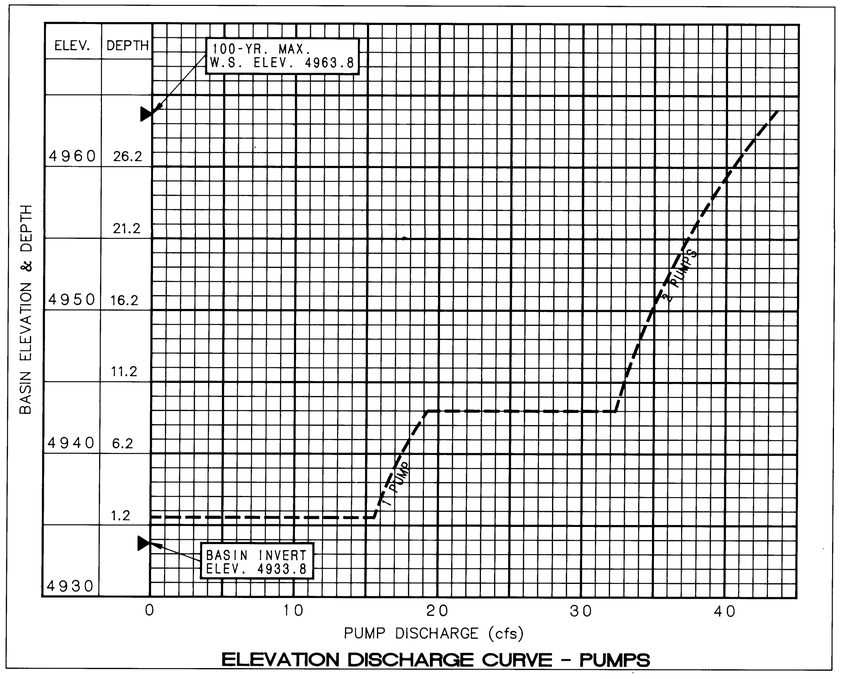
Subscribed and sworn to before me this 1st day of September 1992.

OFFICIAL SEAL
Glenn W. Ricketts
GLENN W. RICKETTS
NOTARY PUBLIC - NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires 9/29/92

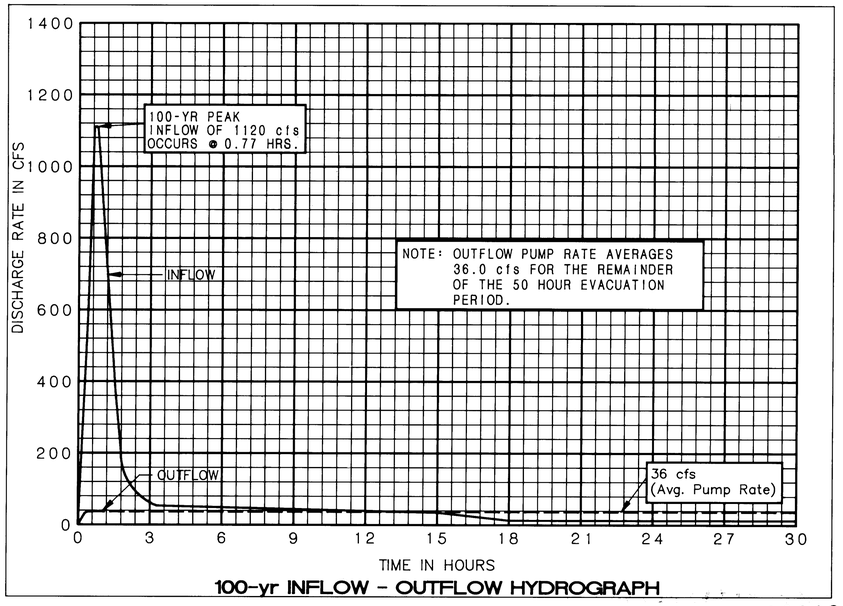
STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I hereby certify that the accompanying maps and statements have been duly examined by me and are approved as to form and content, and were duly accepted for filing on the _____day of_____, 1992.

State Engineer
State of New Mexico



ELEVATION DISCHARGE CURVE - PUMPS



100-yr INFLOW - OUTFLOW HYDROGRAPH

SCANNED BY BY LASON

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2G 42 7H 90595

AS BUILT INFORMATION
CONTRACTOR Rodel DATE 3/20
WORK STARTED ON COA DATE
INSPECTED BY
ACCEPTANCE BY FAIR DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RA DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER
8/31/92

NO.	DATE	REMARKS	BY
		DESIGN	DDB DATE 1-92
		DRAWN BY	JGL DATE 1-92
		CHECKED BY	SAV DATE 8-92

PHASE I CONSTRUCTION
ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

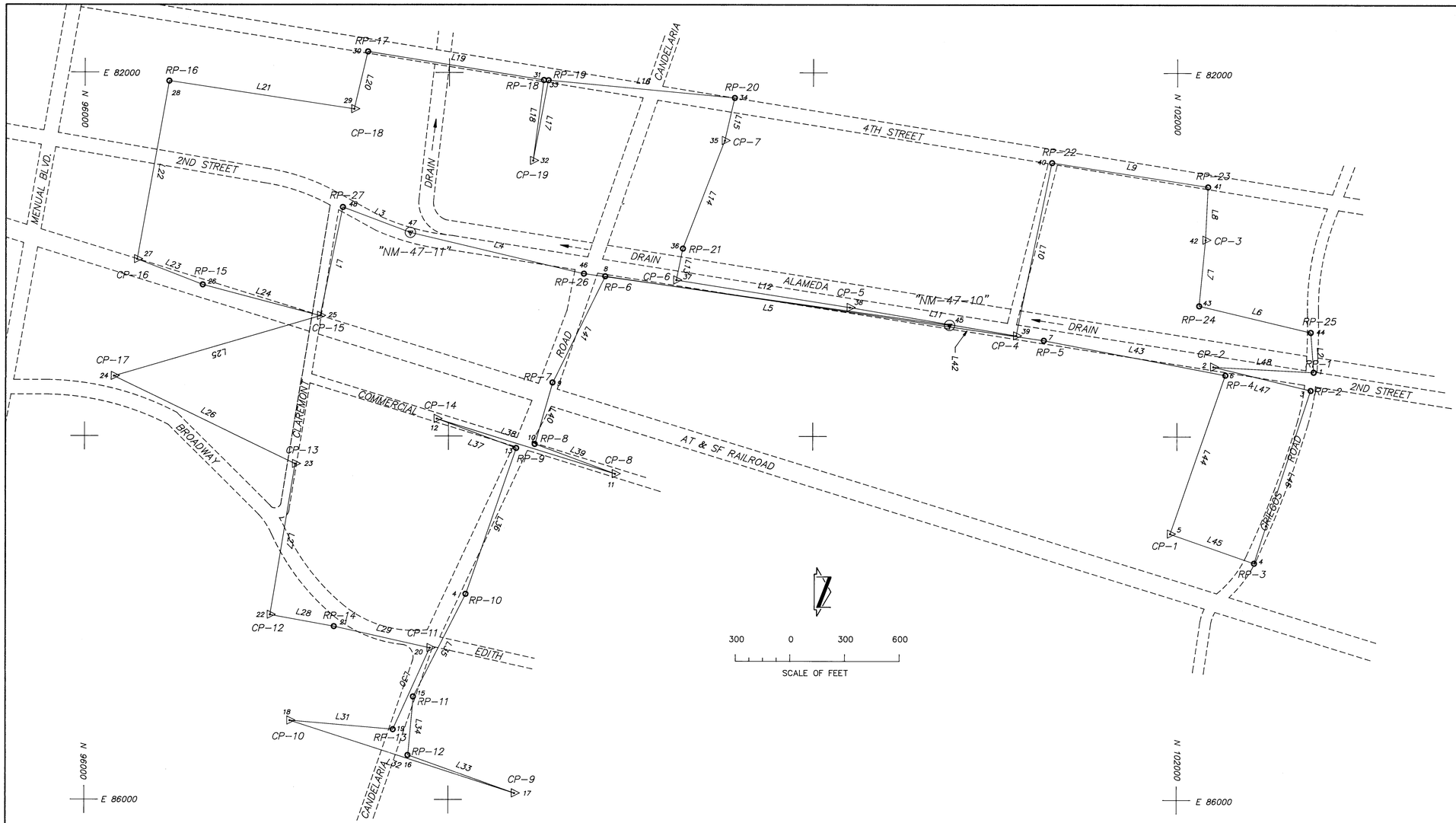
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **STATE ENGINEER FILING SHEET**
CLAREMONT DETENTION BASIN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.V. Bolling	2-18-93	WATER	N.A. Webb	12-23-92
TRANSPORTATION	P.A. Chu	12-23-92	WASTE WATER	N.A. Webb	12-23-92
HYDROLOGY	Steve Bolling	1-19-93			

PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET OF 6 - 5

Richard Smith
RECORD DRAWINGS 12/94



NOTES

1. Coordinates shown are ground coordinates.
2. Basis of Bearings — New Mexico State Plane grid central zone, based on grid bearing between Sta. NM-47-11 and Sta. NM-47-10.

LISTING OF CURRENTLY SET SIDESHOT, TRAVERSE, AND COORDINATE POINTS

Point		Coordinates	Elevation	Desc / Type
47	N	97787.81	4968.53	"NM-47-11"
	E	82880.35	(Vertical Basis)	
45	N	100748.80		"NM-47-10"
	E	83387.84	(Ground Coords)	
48	N	97416.81		"RP-27"
	E	82741.41		
46	N	98741.08		"RP-26"
	E	83106.33		
44	N	102733.67		"RP-25"
	E	83426.30		
43	N	102120.78		"RP-24"
	E	83281.06		
42	N	102155.30	4968.39	"CP-3"
	E	82918.32		
41	N	102168.83		"RP-23"
	E	82626.72		
40	N	101311.61		"RP-22"
	E	82494.51		
39	N	101115.64	4967.18	"CP-4"
	E	83446.08		
38	N	100201.87	4966.65	"CP-5"
	E	83291.29		
37	N	99248.27	4967.15	"CP-6"
	E	83141.25		
36	N	99283.81		"RP-21"
	E	82967.66		
35	N	99514.00	4965.51	"CP-7"
	E	82373.72		
34	N	99568.27		"RP-20"
	E	82138.50		
33	N	98545.92		"RP-19"
	E	82042.24		
32	N	98461.49	4964.99	"CP-19"
	E	82484.97		
31	N	98520.47		"RP-18"
	E	82041.13		
30	N	97553.98		"RP-17"
	E	81885.49		
29	N	97479.26	4964.46	"CP-18"
	E	82201.56		
28	N	96462.19		"RP-16"
	E	82047.79		
27	N	96287.43	4973.08	"CP-16"
	E	83028.70		
26	N	96647.63		"RP-15"
	E	83168.33		
25	N	97293.48	4973.94	"CP-15"
	E	83338.82		
24	N	96161.06	4984.75	"CP-17"
	E	83670.90		
23	N	97158.54	4979.81	"CP-13"
	E	84153.91		
22	N	97021.59	4986.42	"CP-12"
	E	84983.36		
21	N	97372.66		"RP-14"
	E	85047.21		
20	N	97899.04	4978.06	"CP-11"
	E	85165.28		
19	N	97696.62		"RP-13"
	E	85613.65		
18	N	97129.80	4996.19	"CP-10"
	E	85564.92		
17	N	98363.70	4996.18	"CP-9"
	E	85964.21		
16	N	97777.73		"RP-12"
	E	85755.32		
15	N	97806.95		"RP-11"
	E	85433.05		
14	N	98095.10		"RP-10"
	E	84868.34		
13	N	98371.70		"RP-9"
	E	84065.53		
12	N	97935.74	4972.49	"CP-14"
	E	83904.56		
11	N	98914.36	4969.96	"CP-8"
	E	84207.75		
10	N	98473.11		"RP-8"
	E	84043.22		
9	N	98570.30		"RP-7"
	E	83704.65		
8	N	98857.82		"RP-6"
	E	83120.45		
7	N	101267.30		"RP-5"
	E	83471.54		
6	N	102265.44		"RP-4"
	E	83662.40		
5	N	101963.46	4970.59	"CP-1"
	E	84535.57		
4	N	102425.26		"RP-3"
	E	84696.62		
3	N	102734.59		"RP-2"
	E	83745.50		
2	N	102198.56	4969.13	"CP-2"
	E	83616.35		
1	N	102749.55		"RP-1"
	E	83645.41		

LEGEND

- RP RANDOM POINT
- CP CONTROL POINT
- NM CITY OF ALBUQUERQUE MONUMENT

SURVEYORS CERTIFICATE

I, Crescencio Torres, a Professional Surveyor in the state of New Mexico, certify that this plat meets the Minimum Standards for Surveying in New Mexico, and that the information shown hereon is true and correct to the best of my knowledge and belief. Date of field survey August, 1991.

April 29, 1992
Date

Crescencio Torres N.M.L.S. No. 10481
P.O. Box 8445
Santa Fe, New Mexico 87504

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 4 2 7 1 . 9 0 0 6 9 5

138243

AS BUILT INFORMATION
CONTRACTOR APPROVED
WORK STARTED BY — DATE 12/94
WORK COMPLETED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
STATE OF NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER
8/28/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R.M. DATE 10-91
DRAWN BY J.G.L. DATE 10-91
CHECKED BY S.A.K. DATE 8-92

PHASE I CONSTRUCTION

Surveying Services
P.O. Box 8445
Santa Fe, N.M. 87504

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **SURVEY CONTROL PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		2-18-93	Water	N/A	9-14-92
Trans. Dev.		9.24.92	Waste Water	N/A	9-14-92
Hydrology		1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET G-6 OF

RECORD DRAWINGS 12/94

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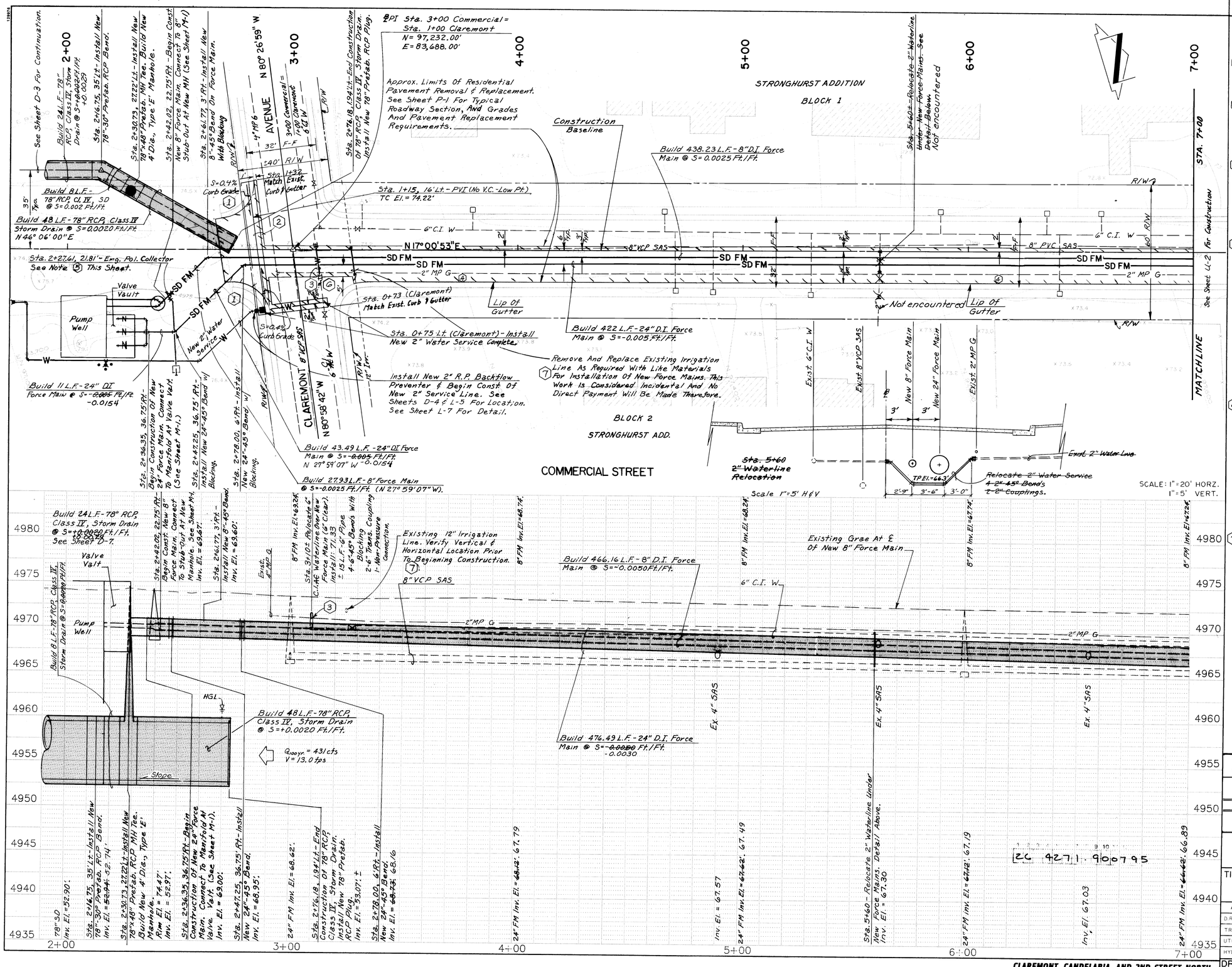


NOTES

1. Remove Curb & Gutter And Sidewalk Around Returns.
2. Build New Curb & Gutter And Sidewalk From Limit Of Removal -Sta. 0+73 (Claremont), To Limit Of Removal, Sta. 1+32 (Claremont).
3. Remove & Dispose Of 15± L.F.- 6" W.L. Install 18± L.F. New 6" Waterline Over New Force Mains (6" Clear Min.) Install: 4-6"-45° Bends w/ Blocking 2-6" Transition Coupling 1-Non-Pressure Connection (See Note 6 Below.)
4. Gas Company To Replace 2" MP Gas Line In Commercial Street From Sta. 2+93± To Sta. 8+40± In Conjunction With Force Main Construction. Contractor Shall Coordinate His Work With Gas Company Of New Mexico In This Area.
5. Sta. 2+27.61, 21.81' Rt. - Build Blow-Off Valve Assembly: Install: 1-8"x8"x4" Tee (RJ) 1-8" Gate Valve & Type 'A' Valve Box. 2-4"-45° Bend's (RJ) 27 L.F.-4" D.I. Pipe 1-4"-45° Bend (MJ x F) 3 L.F.-4" D.I. Pipe (Flanged) 1-4" Long Radius 45° Bend (F) 1-3'x3'x6" Conc. Pad. Cover Opening With ½" Hardware Cloth. Secure To End Of Bend W/ 4-3/8"x12" Bolts, Support Ring, Washers & Nuts. See Detail Sheet D-4.
6. Removal and disposal of existing asbestos cement pipe shall be performed in accordance with OSHA standards for asbestos by a licensed asbestos contractor. All asbestos materials removed from the job site shall be disposed of at an asbestos landfill. No direct Payment will be made for special handling of asbestos material.
7. Irrigation Line was raised to go over Force Mains With 4- 11¼ Bends

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK PERFORMED BY CDA DATE 12/94
INSPECTORS ACCEPTANCE BY AH-K DATE
FIELD VERIFICATION BY CDA DATE
DRAWINGS CHECKED BY AH-K DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET.
STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
BRUCE A. VERZINES NEW MEXICO 9705 REGISTERED PROFESSIONAL ENGINEER 8/30/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
			DESIGNED BY G.W.C.
		DATE 8-5-92	DRAWN BY G.W.C.
		DATE 8-7-92	CHECKED BY S.A.V.
		DATE 8-14-92	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FORCE MAINS PLAN AND PROFILE

COMMERCIAL STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	G.E. Scanlon	2-18-93			
TRANSPORTATION	Ed Dunk	9-24-92			
UTILITY	William Ingle	9-24-92			
HYDROLOGY	Steve Boleny	1-19-93			

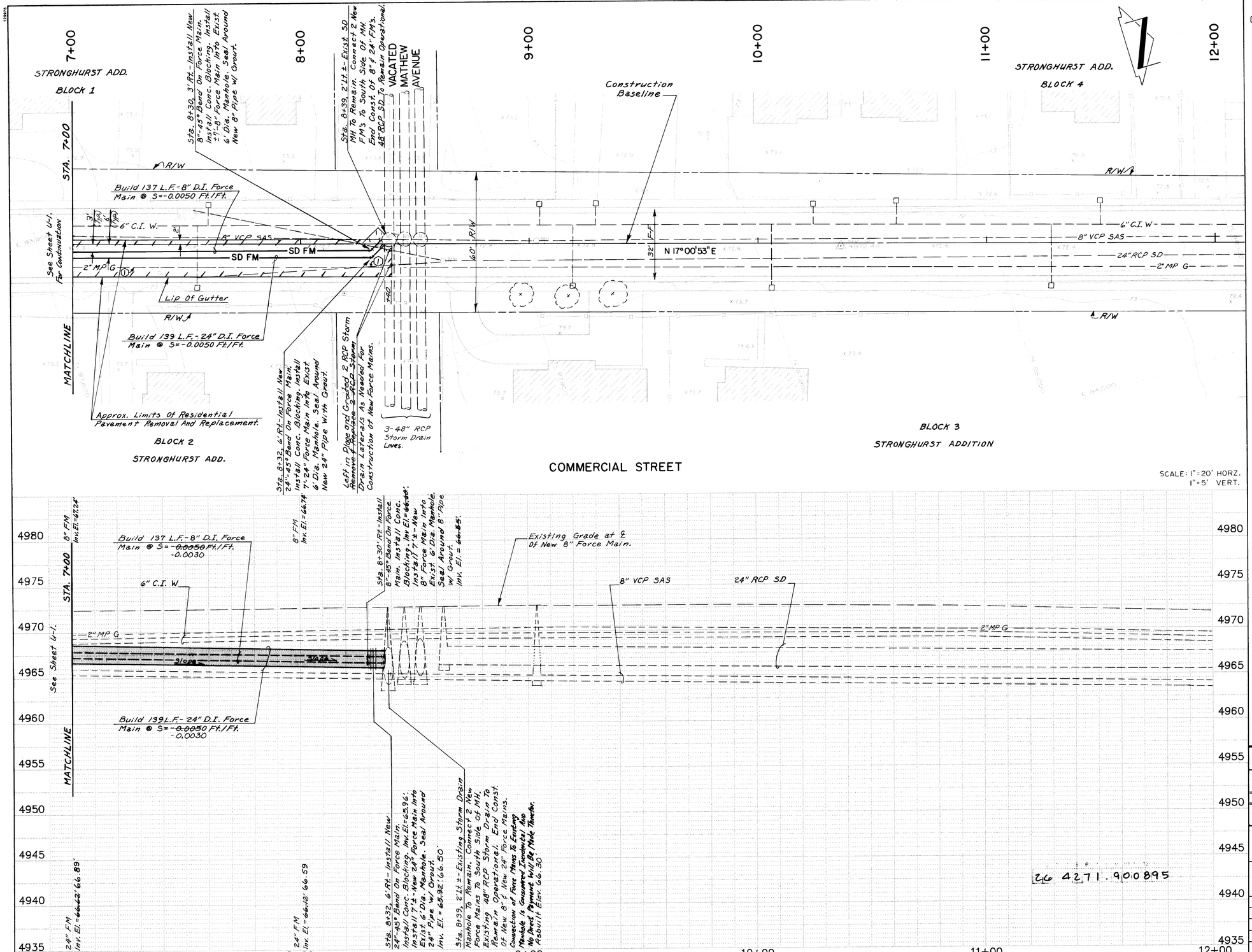
DRAWING NO. 4271.90 | MAP NO. G-15, H-15 | SHEET U-1 OF

ZC 427.1 900795

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SCANNED BY BY LASON

Richard Lovato
RECORD DRAWINGS 12/94



NOTES

① Gas Company To Replace 2" MP Gas Line In Commercial Street From Sta. 2+93± To Sta. 8+40± In Conjunction With Force Main Construction. Contractor Shall Coordinate His Work With Gas Company Of New Mexico In This Area.

AS BUILT INFORMATION

CONTRACTOR RMCI
WORK INSPECTED BY COA DATE 12/94
INSPECTOR'S ACCEPTANCE BY AA:R DATE
FIELD VERIFICATION BY COA DATE
CORRECTED BY AA:R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
SCOTT A. HEINRICH NEW MEXICO 9708 REGISTERED PROFESSIONAL ENGINEER 8/28/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 8-5-92		G.W.C.
	DATE 8-10-92		G.W.C.
	DATE 8-14-92		S.A.V.

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: FORCE MAINS PLAN AND PROFILE

COMMERCIAL STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN		2-18-93			
TRANSPORTATION		9-24-92			
UTILITY		9-24-92			
HYDROLOGY		1-19-93			

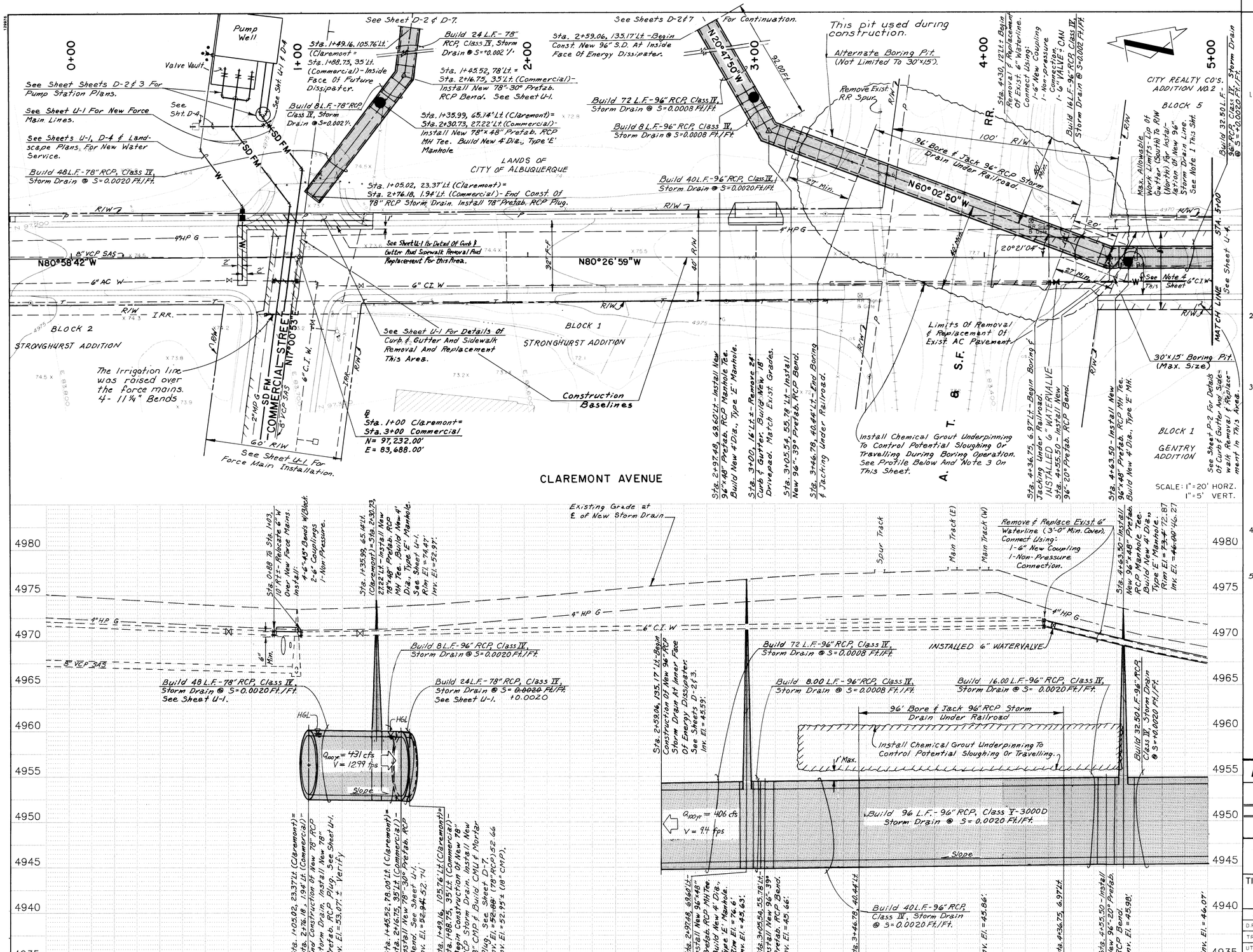
DRAWING NO. 4271.90
MAP NO. G-15
SHEET U-2 OF

Zo 4271.900895

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

RECORD DRAWINGS 12/94

SCANNED BY BY LASON



NOTES

1. REMOVE CURB AND GUTTER AND SIDEWALK ALONG THE NORTH SIDE OF CLAREMONT AVE. WEST OF THE RAILROAD. THE CURB AND GUTTER AND SIDEWALK ALONG THE SOUTH SIDE OF CLAREMONT AVE. IS NOT TO BE REMOVED. THE CONTRACTOR'S WORK AREA FOR INSTALLATION OF NEW 96" STORM DRAIN LINE IS LIMITED TO LIP OF GUTTER ON THE SOUTH AND THE R/W LINE ON THE NORTH FROM THE RAILROAD TRACKS TO STA. 8+00 AND FROM LIP OF GUTTER ON THE SOUTH SIDE TO THE TEMPORARY CONSTRUCTION EASEMENT ON THE NORTH SIDE OF CLAREMONT AVE. FROM STA. 8+00 TO SECOND STREET. INSTALLATION OF STORM DRAIN TRUNK LINE WILL REQUIRE USE OF A TRENCH BOX AND SIDE SLOPES NO STEEPER THAN 1S FT. HORIZONTAL TO 1 FT. VERTICAL AND/OR SHORING IN ACCORDANCE WITH OSHA REGULATIONS. PAYMENT FOR ALL SHORING OR DEALING WITH THE CONSTRICTED WORK ZONE SHALL BE MADE PER ITEM I.D. NO. 1700.02 "CONFINED WORK ZONE REQUIREMENTS, CLAREMONT," PER LUMP SUM.
2. THE INTENT OF THE CHEMICAL GROUTING PROGRAM IS TO STABILIZE THE EXISTING GRANULAR, LOW COHESION SOILS IMMEDIATELY ABOVE THE CARRIER PIPE, PRIOR TO THE BORING AND JACKING OPERATION, TO AVOID DISRUPTION TO THE RAILROAD AND SURROUNDING PROPERTIES.
3. THE CONTRACTOR SHALL CONTACT MR. H.E. EASTHAM, SUPERVISOR OF MAINTENANCE OF THE AT+SF RAILWAY COMPANY, AT LEAST 72 HOURS IN ADVANCE OF CONSTRUCTION IN ORDER THAT THEY CAN PROVIDE FLAGGING PROTECTION AS NECESSARY. THIS SHALL INCLUDE REMOVAL OF THE SPUR TRACK, CHEMICAL GROUT PROGRAM, BORE AND JACK OPERATION, AND ANY OTHER WORK AFFECTING RAILROAD RIGHT-OF-WAY. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION A FULLY EXECUTED COPY OF THE CITY/RAILROAD AGREEMENT AT ALL TIMES DURING CONSTRUCTION AFFECTING THE RAILROAD.
4. REMOVE AND REPLACE EXISTING 6" WATERLINE IN SAME HORIZONTAL LOCATION WITH 3' MIN. COVER. INSTALL: 1-6" COUPLING 1-NON-PRESSURE CONNECTION 1-6" Valve & Can
5. THE CONTRACTOR SHALL MAINTAIN THE EDGE OF TRENCHING WITH SIDE SLOPES STEEPER THAN 1H:1V NO CLOSER THAN 10 FT. FROM POWER POLES. THE EDGE OF TRENCHING WITH SIDE SLOPES 1H:1V OR FLATTER SHALL BE MAINTAINED NO CLOSER THAN 5 FEET TO POWER POLES.

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE
1	Surveying Services	8-91
2	Surveying Services	8-91

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

AS BUILT INFORMATION

CONTRACTOR R.M.C.
WORK DONE BY
INSPECTOR'S ACCEPTANCE BY COA DATE 12/94
VERIFICATION BY AR:R DATE
DRAWINGS CORRECTED BY COA DATE
RECORDED BY AA:C DATE
MICRO-FILM INFORMATION
NO

ENGINEER'S SEAL

SCOTT A. YELVINGTON — NEW MEXICO — 9788 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R.L. DATE Aug. 7, '92
DRAWN BY G.W.C. DATE Aug. 12, '92
CHECKED BY S.A.Y. DATE Aug. 14, '92

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4271.90 0 0 0 9 5

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE

CLAREMONT AVENUE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	[signature]	2-18-93			
TRANSPORTATION	[signature]	9.24.92			
UTILITY	[signature]	9-24-92			
HYDROLOGY	[signature]	1-19-93			

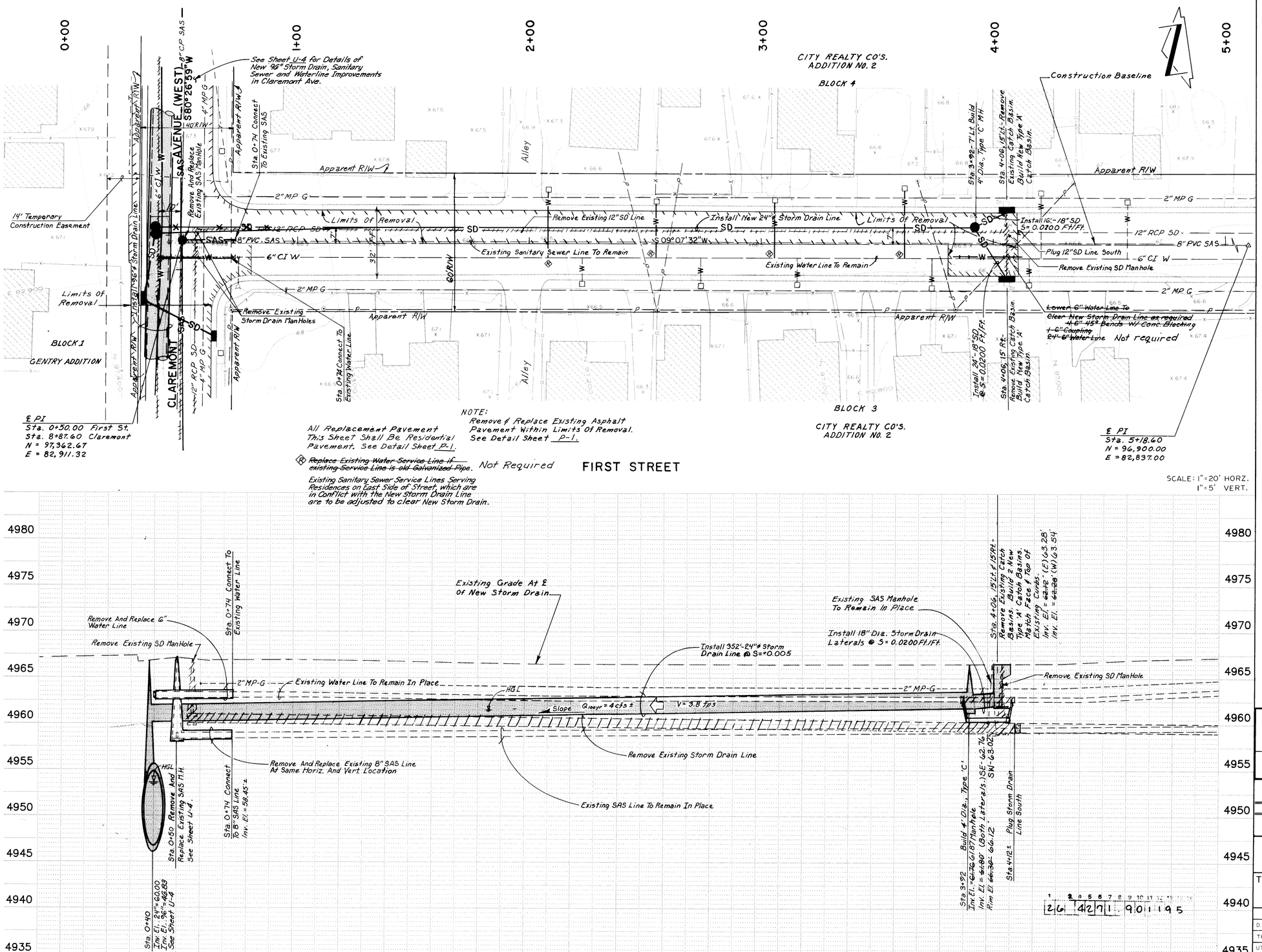
DRAWING NO. 4271.90 | MAP NO. H-14 | SHEET U-3 OF

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

8/30/12

Richard Frost
RECORD DRAWINGS 12/94

SCANNED BY IA LASON



NOTES

AS BUILT INFORMATION

CONTRACTOR Zonal

WORK STAKED BY COA DATE 2/94

INSPECTORS ACCEPTANCE BY RP DATE

FINAL VERIFICATION BY COA DATE

DRAWINGS CORRECTED BY RP DATE

MICRO-FILM INFORMATION RECORDED BY DATE NO

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)

STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	DESIGNED BY RL
		DATE Jan. 26, 1994	DRAWN BY TL
		DATE Jan. 26, 1994	CHECKED BY RL
		DATE Jan. 26, 1994	

FEBRUARY 7, 1994
WORK ADDED TO CLAREMONT, CANDELARIA AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS PROJECT - PHASE ONE CONSTRUCTION.

ANDREWS, ASBURY & ROBERT, INC.
CONSULTING ENGINEERS
ALBUQUERQUE 94-684 NEW MEXICO

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE
FIRST STREET

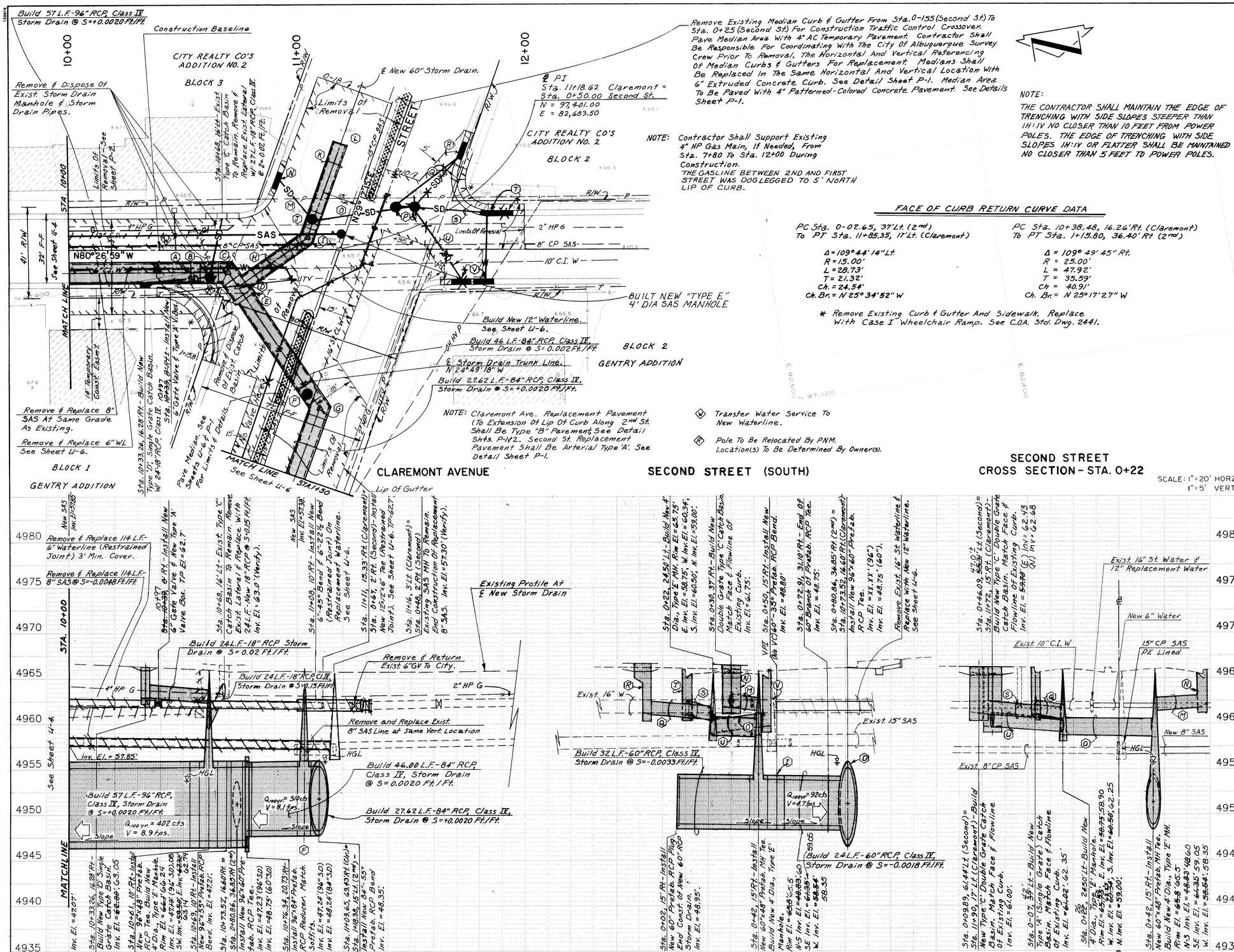
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN					
TRANSPORTATION		2-04-94			
UTILITY	William Mulch	2/4/94			
HYDROLOGY	S. Boleng	2/4/94			

DRAWING NO. 4271.90 MAP NO. H-14 SHEET U-4A OF

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SCANNED BY LASON

Richard Lovato
RECORD DRAWINGS 12/94



NOTES

A. Sta. 10+53, 10' RT. to Sta. 10+57, 10' RT. – Install 4' Section – 96" RCP, Class IV.

B. Sta. 10+61, 10' RT – Install New 96"x48" Prefab. RCP MH Tee. Build New 4' Dia., Type 'E' MH Rim El. = 66.1', E–W Inv. El. = 47.19', SW. Inv. El. = 59.50' E. Inv. El = 62.32'.

C. Sta. 10+69, 10' RT. (Claremont) = Sta. 0+76.17, 43.33' RT. (Second) – Install New 96"–55° Prefab. RCP Bend. Inv. El. = 47.21'.

D. Sta. 10+73.52, 16.60' RT. (Claremont) = Sta. 0+80.86, 36.85' RT. (Second) – Install New 96"x60" Prefabricated RCP Tee. (Side Branch Bell 9.80' from Centerline X Centerline Intersection). Inv. El. = 47.23' (96" S.D.) Inv. El. = 48.75' (60" S.D.).

E. Sta. 10+76.34, 20.73' RT. (Claremont) = Sta. 0+83.79, 32.80' RT. (Second) – Install New 96"x84" Prefabricated RCP Reducer. S. Inv. El. = 47.24', N. Inv. El. = 48.24'

F. Sta. 11+05.13, 62.83' RT. (Claremont) = Sta. 1+13.69, 8.52' LT. (Second) – Install New 84"x48" Prefab. RCP Manhole Tee. Build New 4' Dia., Type 'E' Manhole. Rim El. = 66.3', Inv. El. = ~~48.33'~~ 48.45

G. Sta. 11+09.65, 69.43' RT. (Claremont) = Sta. 1+18.38, 15' LT. (Second) – Install New 84"–55° Prefabricated RCP Bend. Inv. El. = 48.35'.

H. Build 24 L.F. – 60" RCP, Class IV, Storm Drain (S64°23'W) @ S = 0.0018 Ft./Ft.

I. Sta. 0+50, 15' RT. – Install New 60"–35° Prefabricated RCP Bend. Inv. El. = 48.80'.

J. Sta. 0+42, 15' RT. – Install New 60"x48" Prefab., RCP Manhole Tee. Build New 4' Dia., Type 'E' Manhole. Rim El. = ~~65.8~~', N–S Inv. El. = ~~44.83'~~, SE Inv. El. = ~~61.35'~~; W. Inv. El. = ~~58.54'~~.

K. Build 32 L.F. – 60" RCP, Class IV, Storm Drain @ S = –0.0033 Ft./Ft.

L. Sta. 0+06, 15' RT. – End Construction of New 60" RCP Storm Drain. Install New 60" Prefabricated Watertight Plug. Inv. El. = 48.95'.

M. Build 20 L.F. – 18" RCP, Class IV, Storm Drain @ S = 0.02 Ft./Ft.

N. Sta. 0+30, 37' RT.+ – Build New Type 'C' Double Grate Catch Basin. Match Face & Flowline of Existing Curb. Inv. El. = 61.75'.

O. Build 42 L.F. – 24" RCP, Class IV, Storm Drain @ S = 0.0050 Ft./Ft.

P. Sta. 0+22, ~~24.50'~~ 18.01' LT. – Build New 4' Dia., Type 'E' Manhole. Rim El. = 65.75' E. Inv. El. = 58.75', W. Inv. El. = 60.34' S. Inv. El. = 60.50', N. Inv. El. = 59.00'.

Q. Build 26 L.F. – 18" RCP, Class IV, Storm Drain @ S = 0.02 Ft./Ft.

R. Sta. 0–07, 37' LT. – Build New Type 'A' (Single Grate) Catch Basin. Match Face & Flowline at Existing Curb. Inv. El. = 61.02'.

S. Build 33 L.F. – 18" RCP, Class IV, Storm Drain @ S = 0.0200 Ft./Ft.

T. Sta. 11+~~90~~ 84.~~17~~ 17' LT. (Claremont) = Sta. 0+09.89, ~~67.44~~' LT. (Second) – Build New Type 'C' Double Grade Catch Basin. Match Face & Flowline of Existing Curb. Inv. El. = ~~61.00'~~ 62.43

U. Build 35 L.F. – 18" RCP, Class IV, Storm Drain @ S = 0.02 Ft./Ft.

V. Sta. 11+~~72~~ 80, 15' RT. (Claremont) = Sta. ~~0+46.09, 55.3'~~ 0+46.00' LT. (Second) – Build New type 'C' Double Grade Catch Basin. Match Face & Flowline of Existing Curb. Inv. El. = ~~60.70'~~ 62.94 OTGT, 63'± LT.

NOTE: THE CONTRACTOR SHALL MAINTAIN THE EDGE OF TRENCHING WITH SIDE SLOPES STEEPER THAN 1H:1V NO CLOSER THAN 10 FEET FROM POWER POLES. THE EDGE OF TRENCHING WITH SIDE SLOPES 1H:1V OR FLATTER SHALL BE MAINTAINED NO CLOSER THAN 5 FEET TO POWER POLES.

AS BUILT INFORMATION
CONTRACTOR: RMCI
WORK INSPECTED BY: COA DATE: 12/94
ACCEPTANCE BY INSPECTORS: AA R DATE:
FINAL VERIFICATION BY: COA DATE
DRAWINGS CORRECTED BY: AA R DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO:

BENCH MARKS
CONTROL STATION: NM47–11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47–11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 9868 REGISTERED PROFESSIONAL ENGINEER 9/29/92

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	

DESIGNED BY G.W.C. DATE 8-92
DRAWN BY G.W.C. DATE 8-92
CHECKED BY S.A.V. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

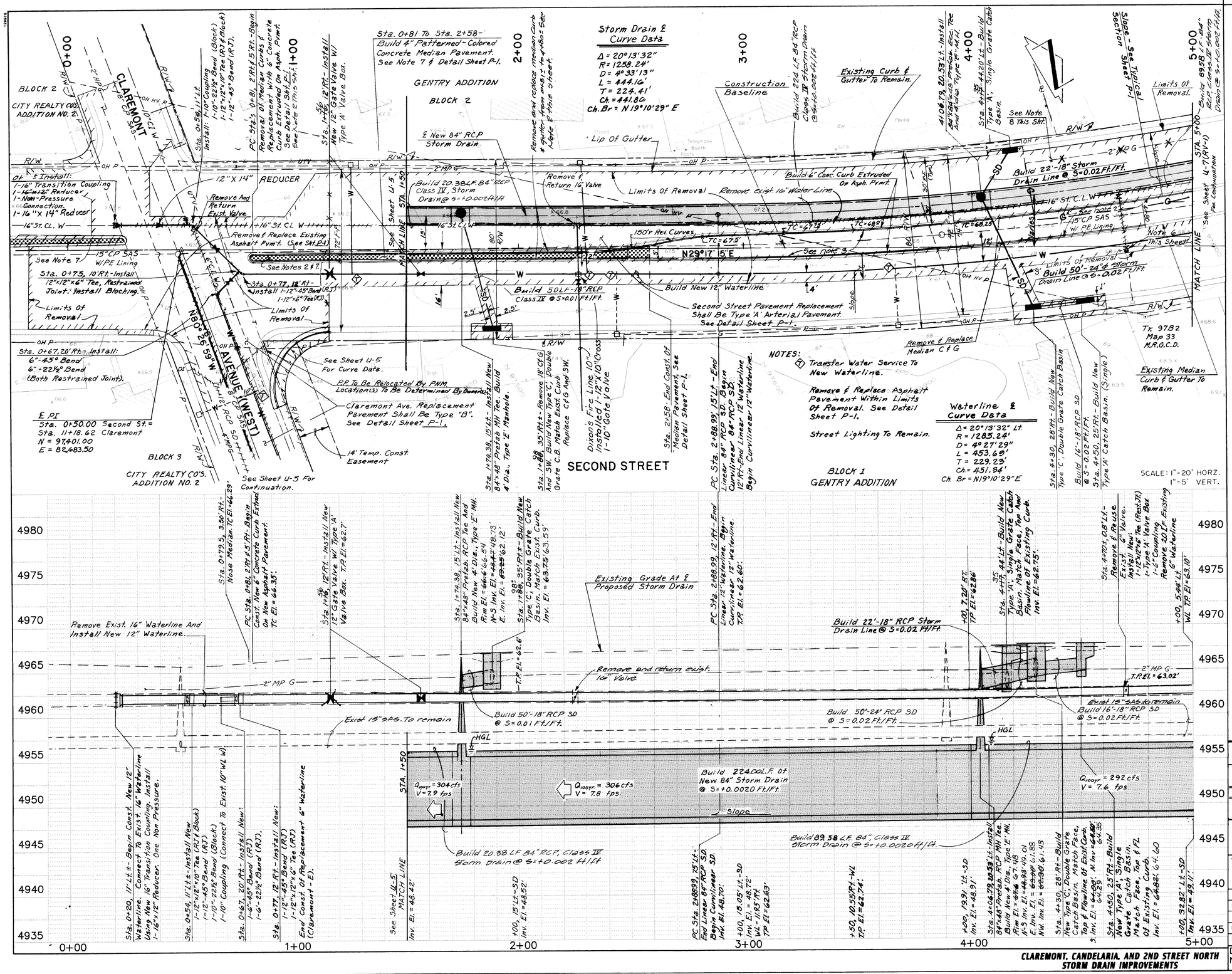
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE
CLAREMONT AVENUE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	S.A. Hoolday	2-18-93			
TRANSPORTATION	[illegible]	9-24-92			
UTILITY	William Hyde	9-24-92			
HYDROLOGY	Steve Lobeg	1-19-93			

DRAWING NO. 4271.90 | MAP NO. H-14 | SHEET U-5 OF

Richard Shirt
RECORD DRAWINGS 12/94



NOTES

1. Installation of storm drain trunk line will require use of a trench box and side slopes no steeper than 1.5 ft. horizontal to 1 ft. vertical or shoring in accordance with OSHA regulations.
2. Remove existing median curb & gutter from Sta. 0+81 to Sta. 8+85 for Construction of 84" Storm Drain & 12" waterline. Pave median area from Sta. 0+81 to Sta. 4+80 with 4" A.C. Temporary pavement. Contractor shall be responsible for coordinating referencing of horizontal and vertical location of medians to be removed with the City of Albuq. Survey Crew prior to preforming removals. Medians shall be replaced in same horiz. & vertical location with 6" concrete median curb extruded on asphalt pavement and 4" median pavement, where shown on plans, per detail on Sheet P-1.
3. Median areas to be filled with clean earth, compacted & graded flush with top of curb. This work is to be considered incedental and no direct payment will be made therefor.
4. All pavement replacement for Second Street Shall be Type A Arterial pavement. See Sheet P-1 for details of Pavement Section.
5. Existing Street Light and pole to be removed and replaced by P.N.M. Contractor Shall remove Street light base and replace after installation of Storm Drain improvements. Street light base shall be per C.O.A. Standard Drawing No. 2530. P.N.M. will reinstall Street light and pole and reconnect overhead power. Contractor Shall Coordinate this work with P.N.M. in this area.
6. Remove Existing Valve From Fire Hydrant Supply Line. Install New New 12"x12"x6" Tee (Restrained Joint) Reinstall 6" Valve New Type 'A' Valve Box New 6" Coupling. Remove 20±L.F. of existing 6" pipe. Reconnect To Exist 6" F/H Supply Line.
7. Build 4" Patterned-Colored Concrete Median Pavement Sta. 0+81 To Sta. 2+58. See Detail Sheet P-1.
8. Sta. 4+15, 48'Lt To Sta. 6+00±. Gas Company Of New Mexico To Did Relocate 2" MP Gas Line. Contractor To Coordinate His Work In This Area With Gas Co.

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REVISION NO. 1 11/28/93

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9110.6

NO.	DATE	REMARKS	BY
1	11/28/93	Move SD Away From Alameda Drain	F.L.

DESIGNED BY G.W.C. DATE 3-92
DRAWN BY G.W.C. DATE 3-92
CHECKED BY S.A.V. DATE 8-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE

SECOND STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN		2-18-93			
TRANSPORTATION		9-24-92			
UTILITY		9-24-92			
HYDROLOGY		1-19-93			

DRAWING NO. 4271.90 | MAP NO. H-14 | SHEET U-6(RV-1) OF

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

RECORD DRAWINGS 12/94

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

AS BUILT INFORMATION

CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTORS FIELD CHANGE BY ARR DATE
FIELD VERIFICATION BY COA DATE
CORRECTED BY ARR DATE

MICRO-FILM INFORMATION

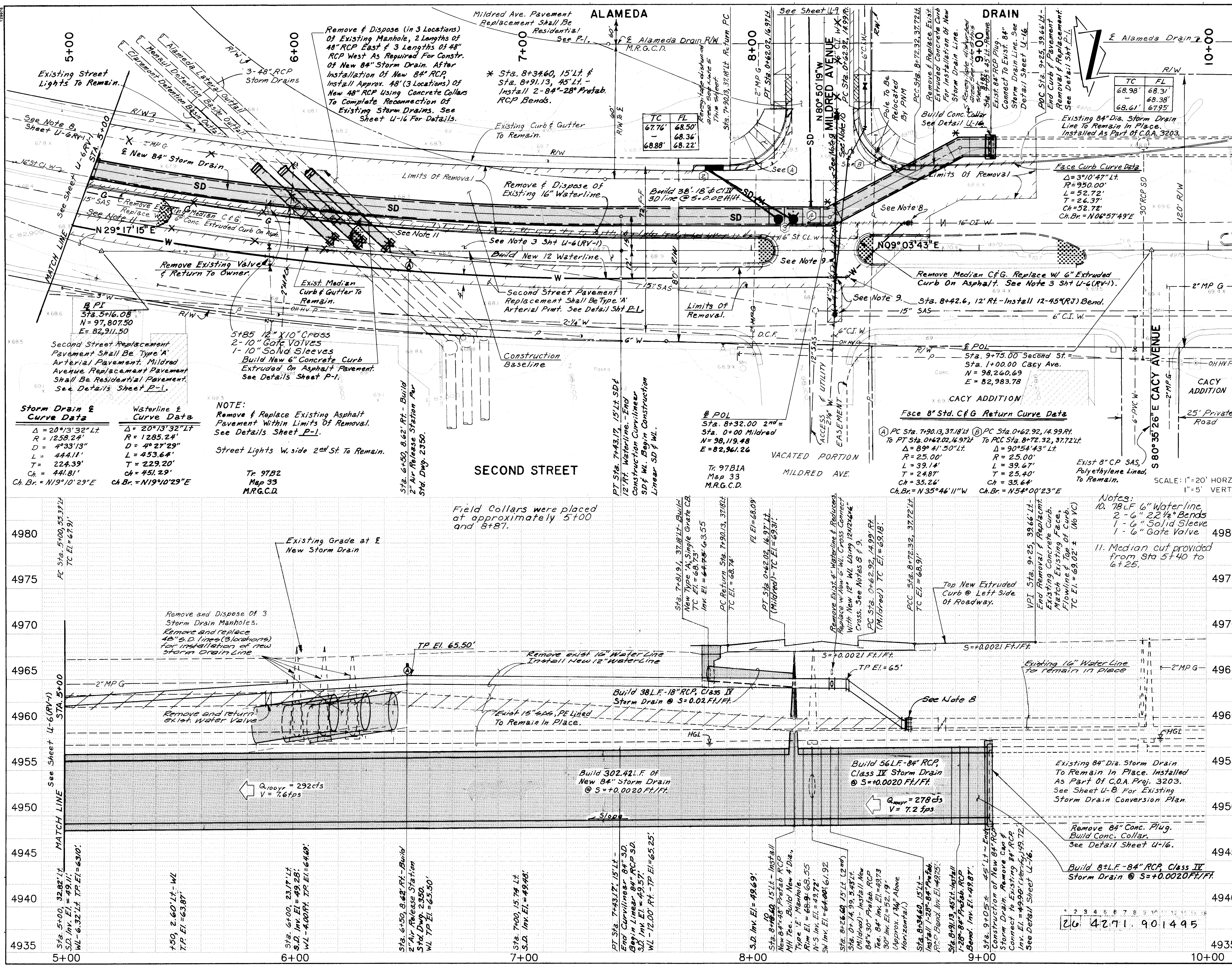
RECORDED BY
DATE
NO.

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

ENGINEER'S SEAL

SCANNED BY LASON



NOTES

1. Installation of storm drain trunk line will require use of a trench box and side slopes no steeper than 1.5 ft. horizontal to 1 ft. vertical or shoring in accordance with OSHA regulations.
2. Sta. 7+81.91, 37.18' Lt. - Build New Type 'A', Single Grate Catch Basin. T.C. El. = 68.73', Inv. El. = 64.75 Install 32' - 18" RCP @ S=0.02 Ft./Ft. To Manhole.
3. Sta. 8+10.60, 15' Lt. - Install New 84"x48" Prefab. RCP Manhole Tee. Build New 4' Dia., Type 'E' MH. Rim El. = ~~68.9~~ 68.55 N-S Inv. El. = 49.72' S. Inv. El. = ~~64.00~~ 61.92
4. Sta. 8+26.60, 15' Lt. (Second) = Sta. 0+14.99, 5.43' Lt. (Mildred) - Install New 84"x30" Prefab. RCP Tee. N-S Inv. El. = 49.73' W. Inv. El. = 52.19'. (Side Branch Rotated Approx. 1 3/4° Above Horizontal.) See Sheet U-9(RV-1)
5. Disturbed area between back of Curb and east edge of east maintenance road for Alameda Drain Shall be revegitated with native grass, Class B Seeding, Per Specifications. This work is Considered insidental to installation of Storm Drain line and no direct payment will be made therefor.
6. Contractor shall not store equipment, material or debris within Alameda Drain Right of way which may interfere with operation and maintence of the drain by the Middle Rio Grande Conservency District (MRGCD).
7. Contractor shall not service vechicles or equipment within the Alameda Drain Right of way.
8. Sta. 8+70, 12' Lt. - Cut Existing 16" Waterline And End Removal Of Existing Waterline. Install: 1-12"-45° Bend. 1-16"x12" Reducer 1-16" Transition Coupling. (All Restrained Joint.)
9. Sta. 8+36 - Remove Existing 6" WL From 60' Lt & 4" WL To 30' Rt. Reinstall Existing 6" Valve @ 60' Lt. Close, Temp. Plug & Restrain. Install New: 12"x12"x6"x6" Cross 15 L.F. - 6" Waterline 6" Gate Valve 6" Transition Coupling Temp. Plug West Side Of Cross. After Storm Drain Installation Is Complete, Remove Temp. Plugs & Install 70 L.F WL & 6" Trans. Coupling.

REVISION NO. 1 11/28/93

PHASE I CONSTRUCTION

AS BUILT INFORMATION

CONTRACTOR	RMCI
WORK STAKED BY	COA DATE 12/94
INSPECTOR'S ACCEPTANCE BY	AA:R DATE
FIELD VERIFICATION BY	COA DATE
DRAWINGS CORRECTED BY	AA:R DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929) STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL: SCOTT A. VERHINES, NEW MEXICO, 8706, REGISTERED PROFESSIONAL ENGINEER 8/28/92

REVISIONS

NO.	DATE	REMARKS	BY
1	11/28/93	Move SD Away From Alameda Drain	R.L.

DESIGN

DESIGNED BY	G.W.C.	DATE	3-92
DRAWN BY	G.W.C.	DATE	3-92
CHECKED BY	S.A.V.	DATE	8-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE
SECOND STREET

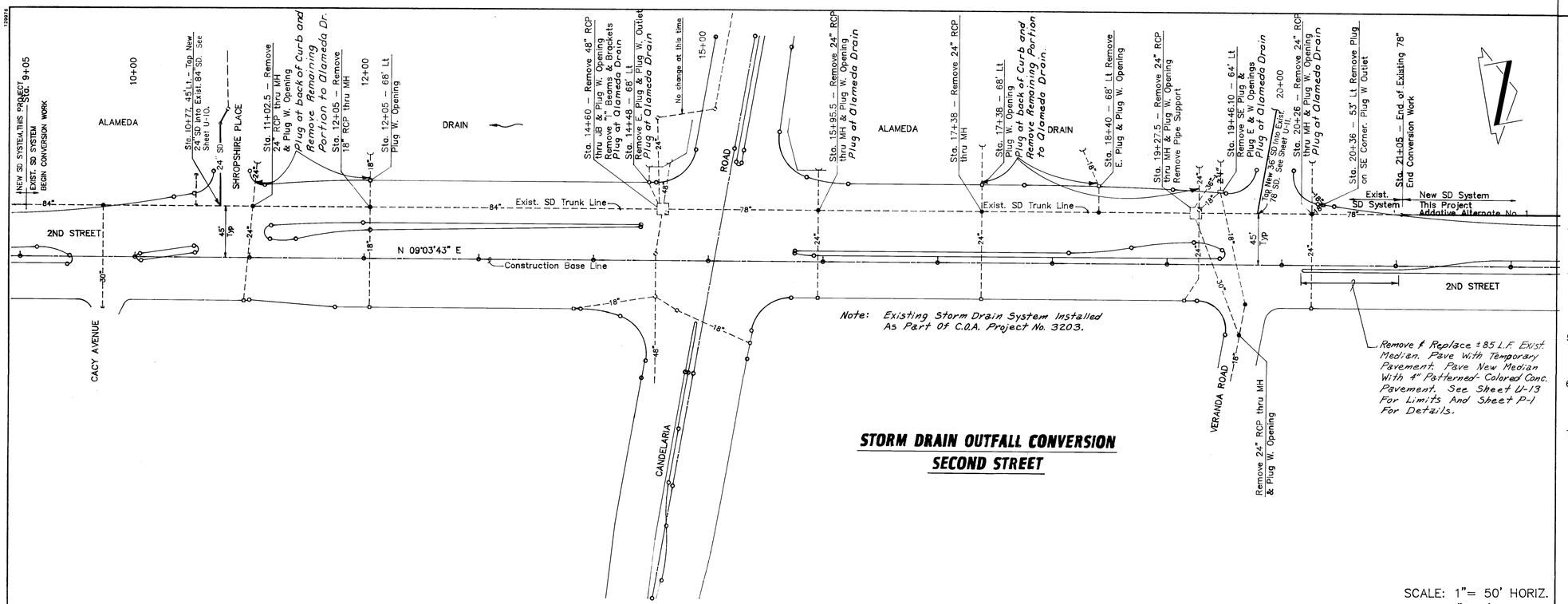
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	B.J. Goolsby	2-18-93			
TRANSPORTATION	[signature]	2-24-93			
UTILITY	William Balch	12-22-92			
HYDROLOGY	Steve Bolberg	1-19-93			

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

DRAWING NO.	MAP NO.	SHEET OF
4271.90	G-14	U-7(RV-1)

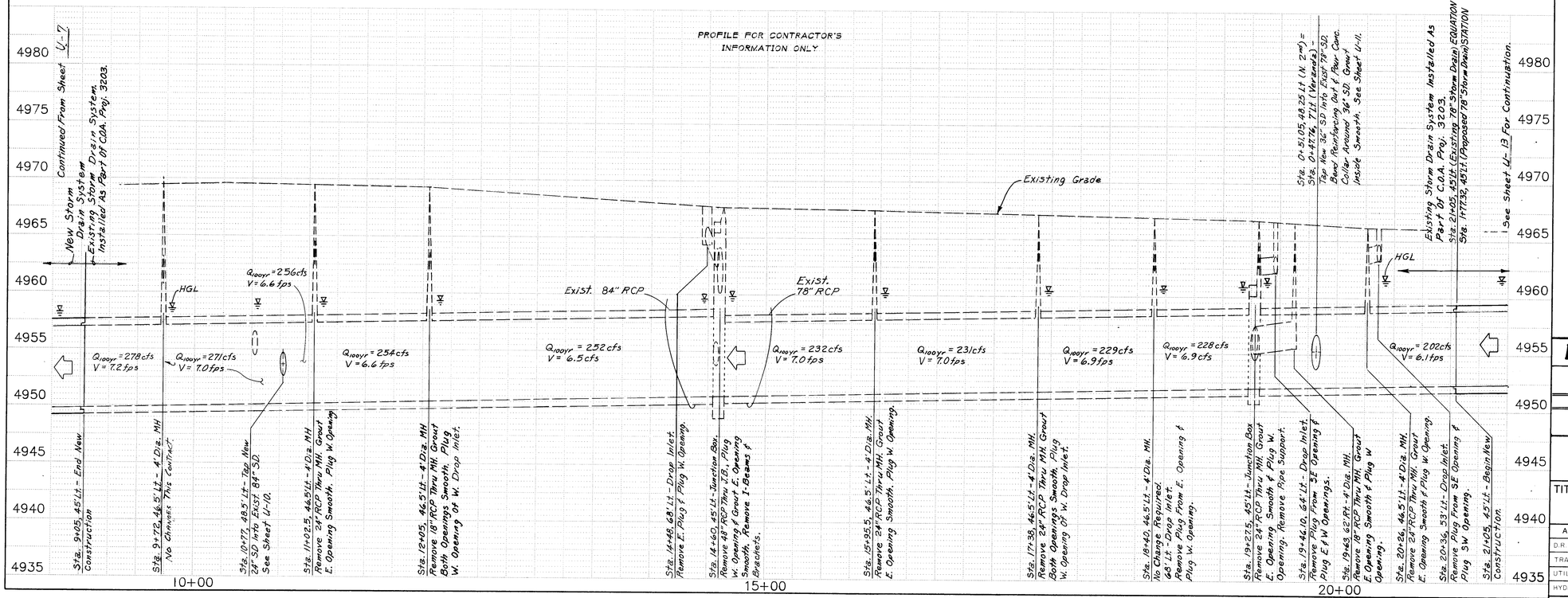
Richard Forst
RECORD DRAWINGS 12/94

SCANNED BY



STORM DRAIN OUTFALL CONVERSION
SECOND STREET

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.



NOTES

1) Contractor to perform all work required for conversion of Storm Drain System to outfall to existing Storm Drain Trunk line from Sta. 9+05 to Sta. 20+05. Payment for this work to be made under Bid Item No. 177 "Conversion of Storm Drain system outfall", on a Lump Sum basis.

2) Contractor to verify with the Project Engineer, each item of work required for conversion of the Storm Drain System prior to commencement of work. Minor deletions may be required to accomplish full conversion of the Storm Drain System Outfall. No payment adjustment will be made for minor additions or deletions of work items shown.

3) Existing Storm Drain Laterals west of west curb line to be plugged and abandoned in place. Payment for pluging lines in this area to be included in Bid Item No. 177 .

4) All Storm Drain lines which are to remain in service shall be grouted smooth at junction to manholes, junction boxes and drop inlets. Cost to be included in Price Bid for Bid Item No. 177 .

5) All Storm Drain lines left in service are to be left clean and clear of all construction rubble and other debris.

6) See sheet U-16 for detail of brick and mortar plug to be used for plugging lines as called for on this plan.

7) Contractor to accomplish Construction Traffic Control for work included in Conversion of the existing Storm Drain System in accordance with Standard Details shown sheets T-1 and T-2 cost of Traffic Control for Coversion of the SD System to be included in Bid Item No. 3 , Construction Traffic Control and Barricading.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

AS BUILT INFORMATION
CONTRACTOR APPROVAL
WORK STAKED BY FIELD NOTES COA DATE 2/92
ACCEPTANCE BY RAY K DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RAY K DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
SCOTT E. VERMILLE 9706 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 8/31/94

REVISIONS	BY	DATE
DESIGN	G.W.C.	3-92
DRAWN	J.G.L.	4-92
CHECKED	S.A.V.	8-92

26 4271.901595

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE

STORM DRAIN OUTFALL CONVERSION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	[signature]	2-18-93			
TRANSPORTATION	[signature]	9.24.92			
UTILITY	[signature]	9-24-92			
HYDROLOGY	[signature]	1-19-93			

DRAWING NO. 4271.90 | MAP NO. 6 14 | SHEET OF U-8

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SCANNED BY LAR

Richard Fourt
RECORD DRAWINGS 12/94

SCHAFER 08/21/92 12:05:51

NOTES

1. Contractor To Suport Existing 2" Gas Line As Needed For Installation Of New Storm Drain from Sta. 1+25 To Sta. 3+50.
2. Sta. 0+71.02, 16.5'± Lt - Remove Exist. Sidewalk And Curb & Gutter. Build New 12' Drivepad.
3. Sta. 0+71.92, 15.5'± Rt - Remove Exist. Sidewalk And Curb & Gutter. Build New 12' Drivepad.
4. Replace Curb Returns With Case II Wheelchair Ramps. See C.O.A. Std. Dwg. 2441.

TC	FL
69.16'	68.50'
–	68.36'
68.88'	68.22'

TC	FL
68.98'	68.31'
–	68.38'
68.61'	67.95'

See Sheet U-7(RV-1) For Continuation

Build New W.L. Cross-Tie See Sheet U-7 (RV-1)

SECOND STREET

N 09°03'43" E

PC Sta. 7+90.13, 37.18'Lt
TC El. = 68.74'

Apparent R/W

Limits Of Removal

PT Sta 0+62.02, 16.97' Lt - TC = 69.31

Sta. 0+99.54 Lt. (Mildred) - Begin Construction Of New 30" Storm Drain @ Side Branch Of New 84"x30" Arched RCP Tee (See Sheet U-7). Deflect Pipe 10°1'1" Lt.

Existing Arch Pipe Culvert To Remain.

Build 116 L.F.-30" RCP, Class III Storm Drain (N 81°57'36" W).

Build Approx. 40 Sq. Ft. New Sidewalk (Match Existing).

Build 176 L.F.-30" RCP, Class III Storm Drain @ S=+0.0050 Ft./Ft.

Construction Baseline

Lands of ARCHDIOCESES OF SANTA FE

Sta. 3+20, 7' Lt - Build New 4' Dia., Type 'E' Manhole.

Existing Drop Inlet to Remain, Connect new 18" Inlet line.

Sta. 3+50, 16' Lt - Build New Type 'A', Single Grate Catch Basin.

Lip Of Gutter

Limits Of Removal

Install 8'-18" SD @ S=0.02 Ft./Ft.

Install 11'-18" SD @ S=0.0200 Ft./Ft.

Remove SD and MH

Install 19'-18" SD @ S=0.02 Ft./Ft.

Install 20'-18" SD @ S=0.0200 Ft./Ft.

12" RCP SD

8" CP SAS | PE Lined

2" MPG

No Valve Here

Sta. 0+70, 6.07' Lt. To Sta. 1+25, 6.80' Lt. - Bore & Jack Under Culvert.

6" Cl. W.

See Note 1.

Mildred Avenue Replacement Pavement Shall Be Residential Pavement. See Detail Sheet P-1

Build New 24" RCP Cl. III SD @ S=+0.0050 Ft./Ft.

PAPPE ADDITION

Sta. 0+00 Mildred = Sta. 8+32 Second St. N = 98,119.48 E = 82,961.26

PP To Be Relocated By PNM. Location(s) To Be Determined By Owner(s).

Second Street Replacement Pavement Shall Be Type 'A' Arterial Pavement. See Detail Sheet P-1.

See Sheet U-7(RV-1) for Continuation

Sta. 1+25, 15'± - Build New 12' Drivepad.

Sta. 1+48, 7.00' Lt. - Build New 4' Dia., Type 'E' Manhole.

Sta. 1+30, 17' Lt ± - Build New 12' Drivepad.

Sta. 3+40, 7' Lt. - Build 4' Dia. Type 'E' Manhole.

Sta. 3+55, 16' Rt. - Build New Type 'A', Single Grate Catch Basin.

Plug Existing 12" RCP Storm Drain.

Existing Drop Inlet to Remain, Connect new 18" Inlet line.

NOTE:
Remove & Replace Existing Asphalt Pavement Within Limits Of Removal. See Detail Sheet P-1.

Ⓡ Reconnect Water Service.

MILDRED AVENUE

Face Curb Return Curve Data

PC Sta. 7+90.13, 37.18' Lt
To PT Sta. 0+62.02, 16.97' Lt.
Δ = 89°41'50" Lt.
R = 25.00'
L = 39.14'
T = 24.87'
Ch = 35.26'
Ch. Br. = N 35°46'11" W

PC Sta. 0+62.92, 14.99' Rt.
To PCC Sta. 8+72.32, 37.72' Lt.
Δ = 90°54'43" Lt.
R = 25.00'
L = 39.67'
T = 25.40'
Ch = 35.64'
Ch. Br. = N 54°00'23" E

SCALE: 1"=20' HORZ.
1"=5' VERT.

Alameda Drain

Sta. 0+70, 6.07' Lt To Sta. 1+25, 6.80' Lt - Bore And Jack New 30" Storm Drain Under Existing Culvert.

New Top Of Curb & Returns

Remove 4" ϕ W.L.'s. Install New 6" W.L. See U-7(RV-1)

Build New 12" W.L.

Existing 16" W.L.'s To Be Removed.

Existing Grade at ℄ New Storm Drain

Existing Waterline to Remain

Existing SAS line to remain

Remove Existing 12" RCP SD & MH

Existing 12" RCP SD to Remain

Build 116 L.F.-30" RCP, Class III, S.D. @ S=+0.0302 Ft./Ft. (N 81°35'45" W)

Build 176 L.F.-30" RCP, Class III Storm Drain @ S=+0.0050 Ft./Ft.

Build 16 L.F.-24" RCP, Class III Storm Drain @ S=+0.0050 Ft./Ft.

Q_{100yr} = 22 cfs, V = 4.48 fps

Q_{100yr} = 12 cfs, V = 3.82 fps

Sta. 0+14.99, 5.43' Lt. (Mildred) = Sta. 8+26.60, 15' Lt. (2nd St.) - Install New 84"x30" Arched RCP Tee. See Sheet U-7(RV-1).

Sta. 0+21.99, 5.44' Lt. - Begin Constr. New 30" RCP SD. Inv. El. = 52.19'

PCC Sta. 8+72.32, 37.72' Lt. TC El. = 69.91'

PT Sta. 0+62.92, 14.99' Rt. TC El. = 69.18'

Sta. 1+00, 6.97' Lt. Inv. El. = 54.55'

Sta. 1+48, 7' Lt. - Build New 4' Dia., Type 'E' Manhole. Rim El. = 68.65' E. Inv. El. = 55.69' W. Inv. El. = 55.26'

Inv. El. = 55.30'

Inv. El. = 53.64'

Inv. El. = 56.05'

Inv. El. = 56.55'

Sta. 3+20, 7' Lt. - Build 4' Dia. Type 'E' MH. End 30" RCP SD. Begin 24" RCP SD. Rim El. = 64.43 E. Inv. El. = 56.43 W. Inv. El. = 57.13

Sta. 3+40, 7' Lt. - Build 4' Dia., Type 'E' MH. End 24" RCP SD. Rim El. = 64.0' E. Inv. El. = 57.21' SW. El. = 60.78' NW. El. = 60.60'

Sta. 3+55, 2' Rt. - Plug Existing 12" RCP Storm Drain.

Inv. El. = 56.90

Inv. El. = 56.40

Inv. El. = 56.60'

HGL

2" MPG

0+00 1+00 2+00 3+00 4+00 5+00

4980 4975 4970 4965 4960 4955 4950 4945 4940 4935

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

26 4271.901695

AS BUILT INFORMATION

CONTRACTOR RMCI

WORK STAKED BY COA DATE 12/94

INSPECTORS

ACCEPTANCE BY AIA DATE

FIELD VERIFICATION BY COA DATE

CHECKED BY AIA DATE

CORRECTED BY AIA DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)

STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL

LEO I. VERMEER 9706 REGISTERED PROFESSIONAL ENGINEER 4/30/94

NO.	DATE	BY	REMARKS
1	11/28/93	E.L.	Realignment due to gas line

REVISIONS

DESIGNED BY	G.W.C.	DATE 4-92
DRAWN BY	G.W.C.	DATE 4-92
CHECKED BY	S.A.K.	DATE 8-92

REVISION NO. 1 11/28/93

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE

MILDRED AVENUE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	[signature]	2-18-93			
TRANSPORTATION	[signature]	9-24-92			
UTILITY	[signature]	9-29-92			
HYDROLOGY	[signature]	1-19-93			

DRAWING NO. 4271.90 | MAP NO. G-14 | SHEET U-9 (RV-1) OF

Richard Ernst
RECORD DRAWINGS 12/94

ENGINEER'S SEAL BY LAS

NOTES

1. Existing Extruded Concrete Curb to be removed at returns and to be replaced with estate curb. It shall be the Contractors responsibility to replace the estate curb to the exact horizontal and vertical location as the Extruded Curb.

Sta. 0+00 Shropshire = Sta. 10+95.00 Second Street E x E Intersection N = 98,379.19 E = 83,002.68

Ⓣ Transfer Water Service To New Waterline.
Ⓡ Reconnect Water Service To Existing Waterline

SHROPSHIRE PLACE

NOTES:
1. Remove & Replace Existing Asphalt Pavement Within Limits Of Removal. See Detail Sheet P-1.
2. Existing Street Is An Inverted Section With Mountable Estate Curb.
3. Shropshire Place Replacement Pavement Shall Be Residential Pavement. See Detail Sheet P-1.

SCALE: 1"=20' HORZ. 1"=5' VERT.

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

AS BUILT INFORMATION

CONTRACTOR AMCI
WORK STARTED ON DATE 2/94
INSPECTED BY COA DATE
ACCEPTANCE BY AMCI DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AMCI DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
PATRICIA A. VERGINES NEW MEXICO 9795 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY G.W.C. DATE 4-92	
		DRAWN BY G.W.C. DATE 4-92	
		CHECKED BY S.A.V. DATE 8-92	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE
SHROPSHIRE PLACE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN		7-18-93			
TRANSPORTATION		9-24-92			
UTILITY		9-24-92			
HYDROLOGY		1-19-93			

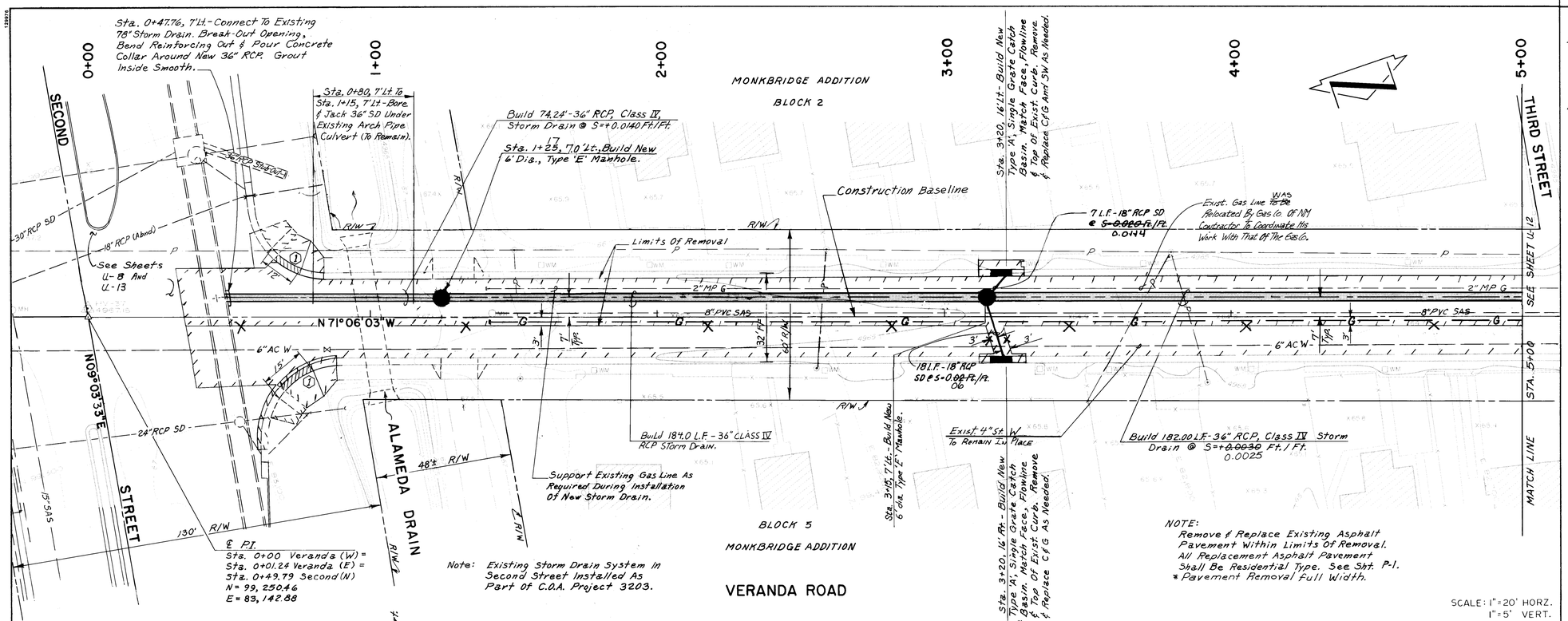
DRAWING NO. 4271.90 | MAP NO. G-14 | SHEET U-10 OF

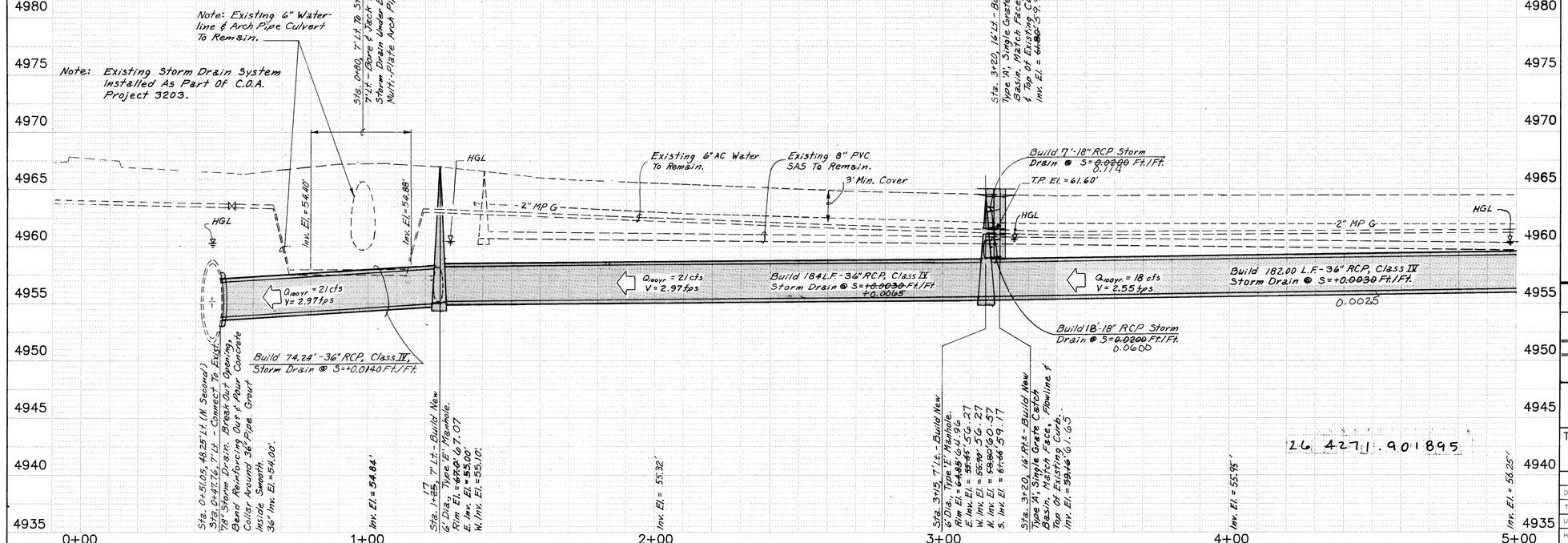
26 4271.901795

RECORD DRAWINGS 12/94

NOTES

1. Remove Westerly Portion Of Existing Wheel Chair Ramp From West Edge Of 3' Ramp. Build 6" Thick Modified Wheel Chair Ramp To The Dimensions Shown.
2. Gasline relocationshown is Approximate.





CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

AS BUILT INFORMATION

CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTOR'S ACCEPTANCE BY RA'P DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RA'P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
SCOTT A. WEHNES NEW MEXICO 12006 REGISTERED PROFESSIONAL ENGINEER
9/30/94

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY S.L.G.	DATE 8-92
		DRAWN BY S.L.G.	DATE 8-92
		CHECKED BY S.A.V.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE

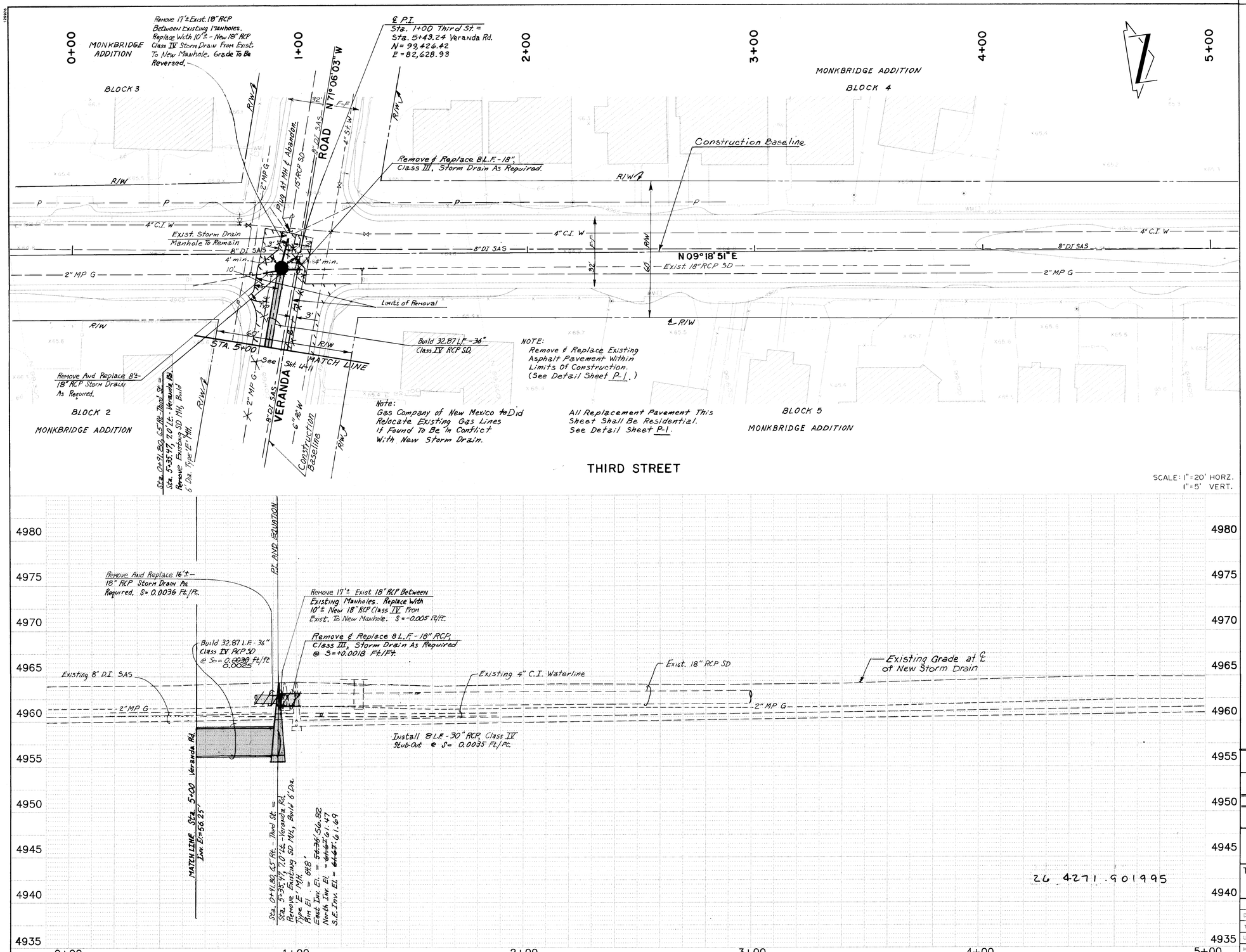
VERANDA ROAD

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	S.A. Scanlon	2-18-93			
TRANSPORTATION	R. Lewis	9-24-92			
UTILITY	William Hyde	9-24-92			
HYDROLOGY	Steve Sobey	1-19-93			

DRAWING NO. 4271.90 | MAP NO. G-14 | SHEET U-11 OF

26 4271.901895

RECORD DRAWINGS 12/94



SCALE: 1"=20' HORZ.
1"=5' VERT.

NOTES

1. Gas Line relocation shown is Approximate.

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY
INSPECTORS ACCEPTANCE BY COA DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA/12 DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION: IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE, N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 9706 REGISTERED PROFESSIONAL ENGINEER 8/31/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY S.L.G.	DATE 8-92
		DRAWN BY S.L.G.	DATE 8-92
		CHECKED BY S.A.V.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

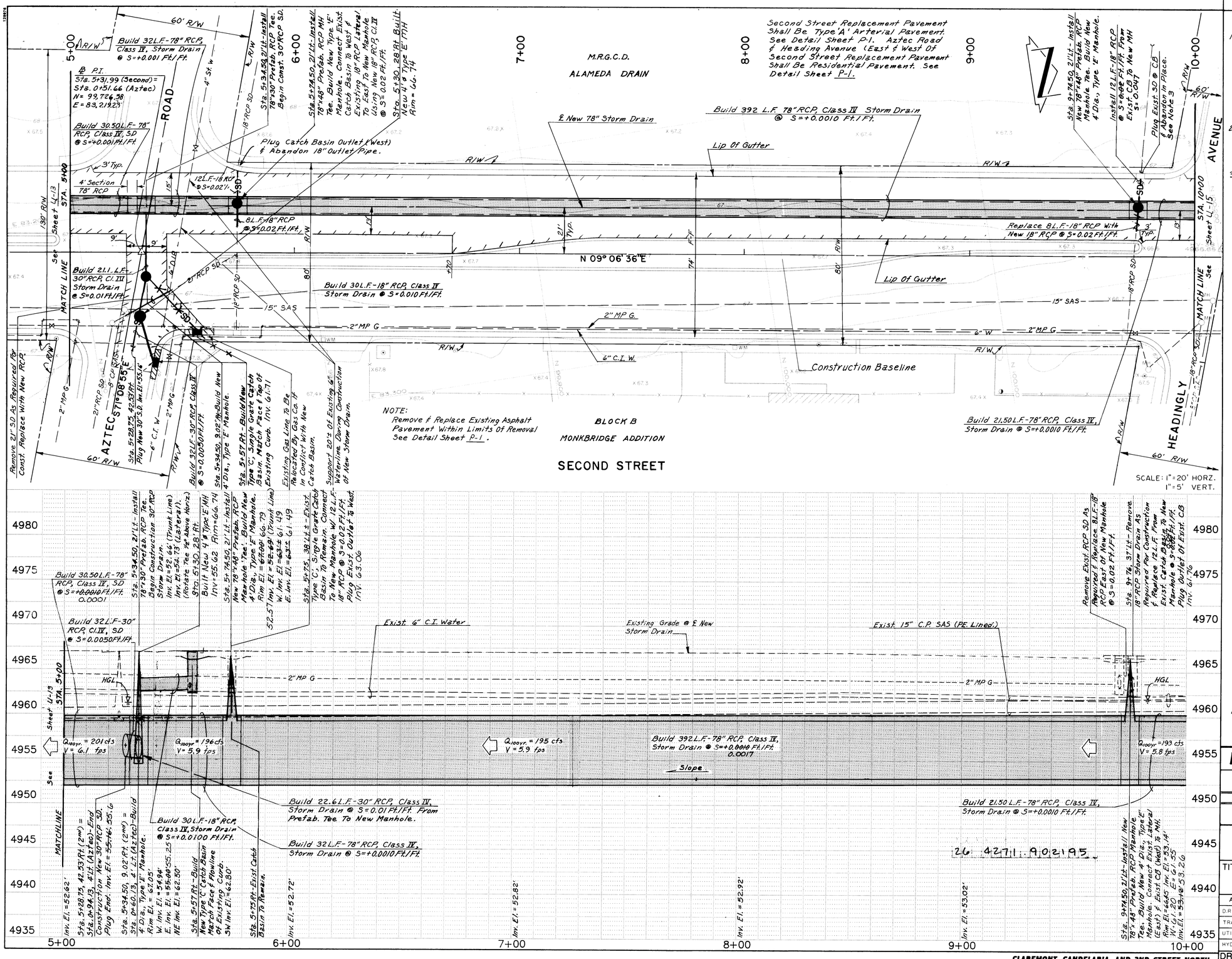
TITLE: STORM DRAIN PLAN AND PROFILE
THIRD STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	S.J. Gobley	2-18-93			
TRANSPORTATION	"	"			
UTILITY	"	1-19-93			
HYDROLOGY	Steve Gobley	1-19-93			

DRAWING NO. 4271.90
MAP NO. G-14
SHEET U-12 OF

26 4271.901995

Richard Swart
RECORD DRAWINGS 12/94



NOTES

1. Contractor shall not store equipment, material or debris within Alameda Drain Right of way which may interfere with operation and maintence of the drain by the Middle Rio Grande Conservancy District (MRGCD).
2. Contractor shall not service vechicles or equipment within the Alameda Drain Right of way.
3. The lateral line from existing catch basin is plugged at the catch basin and line left in place.

AS BUILT INFORMATION

CONTRACTOR RMCI

WORK STAKED BY COA DATE 12/94

INSPECTED & ACCEPTANCE BY AA:R DATE

FIELD LOCATION BY COA DATE

DRAWINGS CORRECTED BY AA:D DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)

STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY G.W.C. DATE 7-92

DRAWN BY G.W.C. DATE 7-92

CHECKED BY S.A.L. DATE 8-92

ALL WORK SHOWN ON THIS SHEET IS ADDITIVE ALTERNATE No. 1

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE

SECOND STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN					
TRANSPORTATION	2-18-93				
UTILITY	9-24-92				
HYDROLOGY	9-29-92				
	1-19-93				

DRAWING NO. 4271.90

MAP NO. G-14

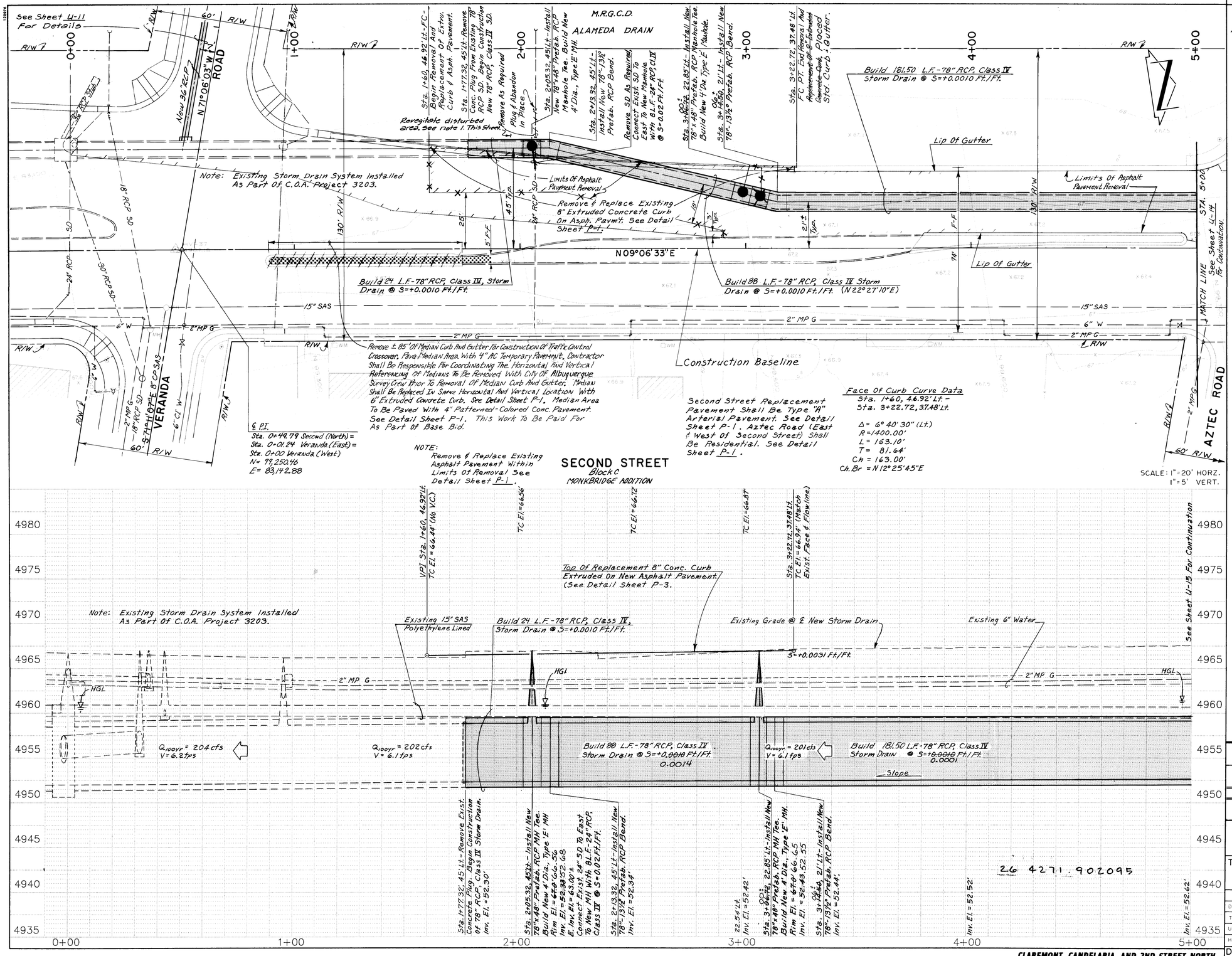
SHEET U-14 OF

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

26 4271.90 2195

SCANNED BY LASON

Richard Smith
RECORD DRAWINGS 12/94



NOTES

1. Disturbed area between back of curb and east edge of east maintenance road for Alameda Drain shall be revegitated with native grass class & Seeding per Specifications. This work is considered incidental to installation of storm drain line and no direct payment will be made therefor.
2. Contractor shall not store equipment, material or debris within Alameda Drain Right of way which may interfere with the operation and maintenance of the drain by the Middle Rio Grande Conservancy District (MRGCD).
3. Contractor shall not service vechicles or equipment within the Alameda Drain Right of way.

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

AS BUILT INFORMATION

CONTRACTOR R.J.D.I. DATE 12/94
WORK INSPECTIONS BY C.O.A. DATE
ACCEPTANCE BY A.F.H.C. DATE
FIELD LOCATION BY C.O.A.
DRAWINGS CORRECTED BY A.F.H.C. DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
STATE OF NEW MEXICO 6985 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY G.W.C.	DATE 7-92
		DRAWN BY G.W.C.	DATE 7-92
		CHECKED BY S.A.V.	DATE 8-92

ALL WORK SHOWN ON THIS SHEET IS ADDITIVE ALTERNATE No. 1

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE
SECOND STREET

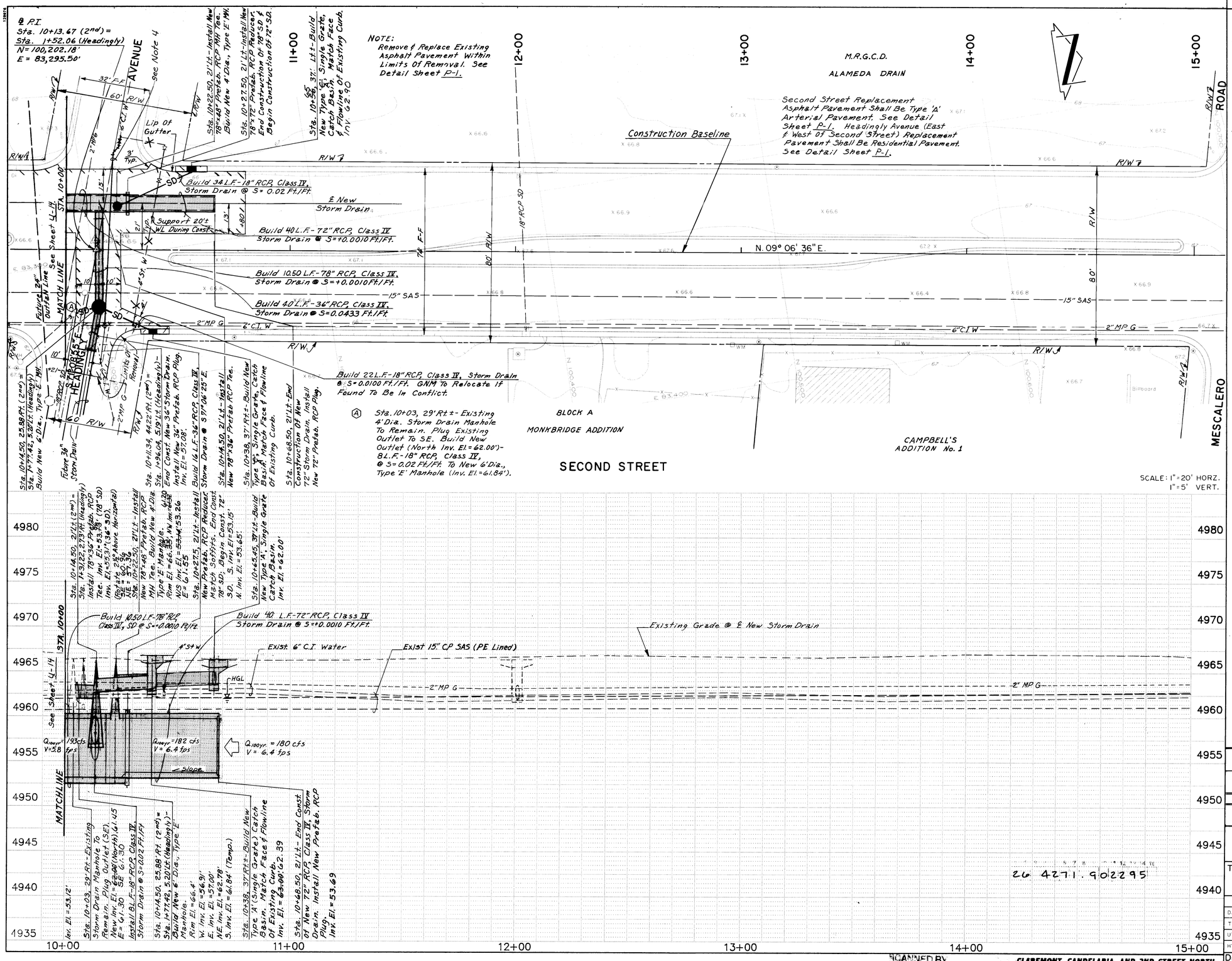
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN					
TRANSPORTATION	[signature]	2-18-93			
UTILITY	[signature]	9-24-92			
HYDROLOGY	[signature]	9-24-92			
	Steve Long	1-1995			

DRAWING NO. 4271.90 | MAP NO. G-14 | SHEET U-13 OF

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SCANNED BY LASON

Richard Frost
RECORD DRAWINGS 12/94



NOTES

1. Contractor shall not store equipment, material or debris within Alameda Drain Right of way which may interfere with the operation and maintenance of the drain by Middle Rio Grande Conservancy District (MRGCD).
2. Contractor shall not service vehicles of equipment within Alameda Drain Right of way.
3. Gas Company of New Mexico to Relocate Gas Line if found to be in conflict with new Storm Drain.
4. Installed New 6" PVC Waterline
   - 1 - 6" 45° Bend
   - 2 - 6" 22½° Bends
   - 1 - 6" Sleeve
   - 1 - 6" Gate Valve

ALL WORK SHOWN ON THIS SHEET IS ADDITIVE ALTERNATE No. 1

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK INSPECTIONS DONE BY COA DATE 12/94
ACCEPTANCE BY FAA: KR DATE
FIELD LOCATION BY COA DATE
DRAWINGS CORRECTED BY AA: R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
JOHN L. VERMEULEN — NEW MEXICO — 9706 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
		DESIGNED BY G.W.C. DATE 7-92
		DRAWN BY G.W.C. DATE 7-92
		CHECKED BY S.A.V. DATE 8-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAIN PLAN AND PROFILE
SECOND STREET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN					
TRANSPORTATION					
UTILITY					
HYDROLOGY					

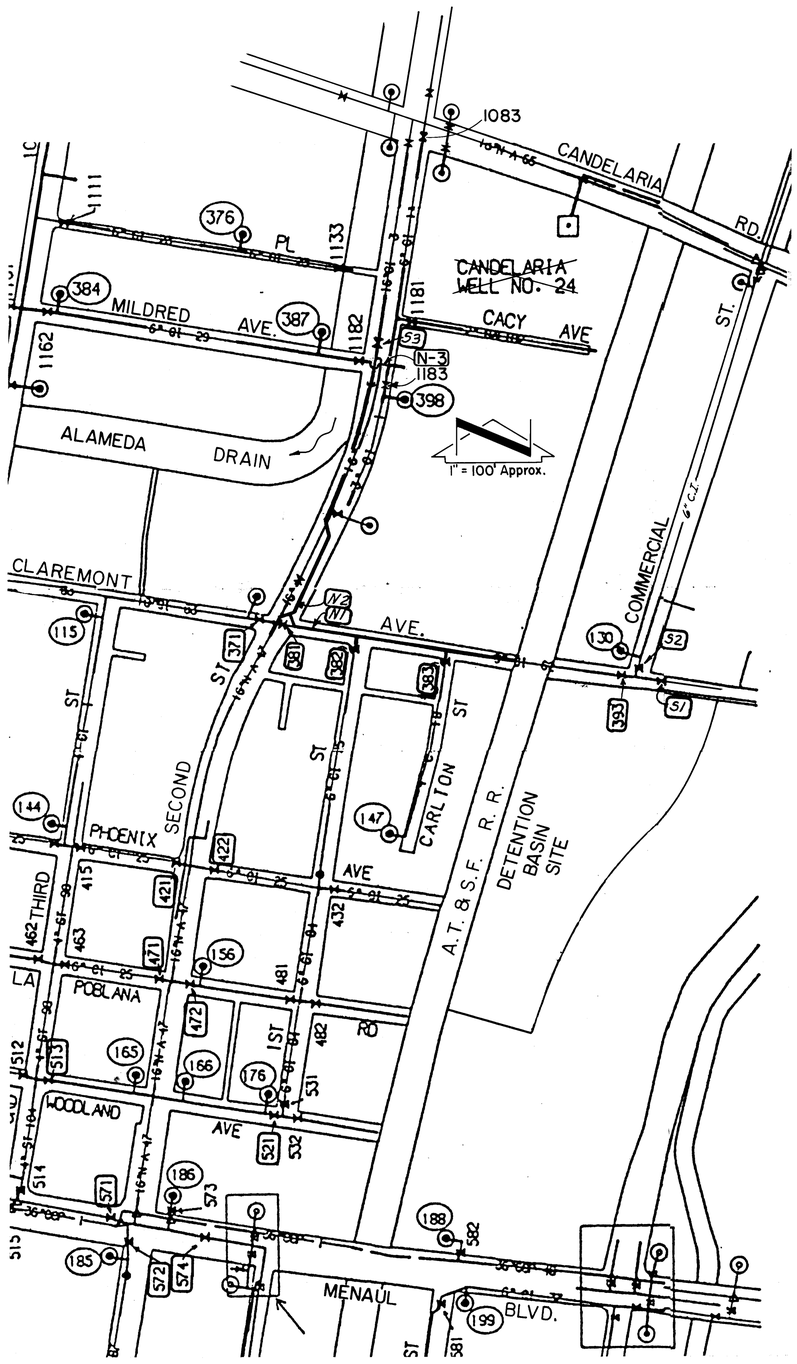
DRAWING NO. 4271.90 | MAP NO. G-14 | SHEET U-15 OF

26 4271.902295

SCANNED BY MY LASON

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

Richard Lovato
RECORD DRAWINGS 12/94



WATER SHUT-OFF PLAN

Step I Claremont Avenue and Commercial Street Intersection

Close the three (3) valves at the intersection (393 S1, S2), cut and remove existing east-west pipe in Claremont. Install new pipe and fittings with blocking.

After all required testing and disinfecting are complete, place in service by opening the three (3) valves closed above.

Step II Claremont Avenue from the Railroad to Second Street

The Contractor shall provide temporary water service lines for all residential and commercial customers in this reach and for the 4" line in Carlton Street. All work and materials necessary to provide this temporary service shall be incidental to the removal and replacement of the waterline in Claremont, and no direct payment will be made therefor.

When all temporary services are in place, close the west valve at Claremont Avenue and Commercial Street (393), the valve at Claremont Avenue and Carlton Street (383), the valve at Claremont Avenue and First Street (382) and the valve near the center of the Claremont Avenue and Second Street intersection (381). Make the connection of the temporary supply to the existing 4" line in Carlton Street.

After all required testing and disinfecting are complete, open Valve 383 closed above.

Removal of the existing 6" waterline in Claremont Avenue may now be done as needed for construction of the 96" storm drain.

After the installation of the new 96" storm drain and replacement of the 8" sanitary sewer, begin the installation of the replacement 6" waterline in Claremont Avenue (including but not limited to connections to existing pipes at the railroad and First Street) and as much of the system in Second Street as street closure permits to approximately Sta. 4+20 (Second). Install temporary caps and blocking (and/or restrain pipes as required) at all pipe stub-outs.

Close the valve at Claremont and Carlton Street (383), and open the new valves at Sta. 10+39 (Claremont) (N1) and at Sta. 1+15 (Second) (N2). Remove the connection to the temporary supply at Claremont Avenue and Carlton Street and connect to new waterline.

Transfer all temporary services to the new waterline in Claremont and transfer all services from the existing 16" waterline in Second Street to the new 12" waterline installed above. When all services have been transferred, the temporary water supply line along Claremont Avenue shall be removed.

When all necessary testing and disinfecting are complete (using Fire Hydrant #147 at the south end of Carlton Street), place this portion of the replacement waterline in service by opening Valves 393, 383 and 382.

Step III Second Street and Claremont Avenue Intersection

When street closure permits continuation of waterline construction, close the new valves at Sta. 10+39 (Claremont) (N1) and Sta. 1+15 (Second) (N2); existing valves at: Sta. 11+62 (Claremont) (371), in Second Street north of Mildred Avenue - Sta. 9+85 (Second) (S3), two (2) valves at Second Street and Phoenix Avenue (421 & 422), two (2) valves at Second Street and La Poblana Road (471 & 472), the east valve at Woodland Avenue and Third Street (513), the west valve at Woodland Avenue and First Street (521), two (2) valves at Second Street and Menaul Boulevard (571 & 572) and the valve in Menaul Boulevard between First Street and Second Street (574).

Begin removal of existing 16" waterline in Second Street at Sta. 0+15. Remove temporary blocking and cap from new 12" waterline in intersection installed in Step II above and complete construction of new 12" waterline to Sta. 0+15, making connections to existing 10" and 16" waterlines.

After all necessary testing and disinfecting are complete, place in service by opening the new valves at Sta. 10+39 (Claremont) (N1) and Sta. 1+15 (Second) (N2), existing valves at: Sta. 11+62 (Claremont) (371), two (2) valves at Second Street and Phoenix Avenue (421 & 422), two (2) valves at Second Street and La Poblana Road (471 & 472), the east valve at Woodland Avenue and Third Street (513), the west valve at Woodland Avenue and First Street (521), two (2) valves at Second Street and Menaul Boulevard (571 & 572) and the valve in Menaul Boulevard between First Street and Second Street (574). The existing valve in Second Street north of Mildred Avenue (S3) - Sta. 9+85 (Second) **MUST REMAIN CLOSED!**

Remove and dispose of existing 16" waterline in Second Street north of Claremont Avenue as required for construction of storm drain.

Step IV Waterline Cross Over

With the valve at Sta. 9+85 (Second)(S3) still closed, remove the 16" steel cement-lined waterline from the south side of the existing 16" bend. Reorient the bend so that the south end is 30°± above horizontal and block. Install a 16"x6" reducer, 10.5'±-6" waterline and a 6" tee.

Close Valves 1083 at Second Street and Candelaria Road and 1181, 1182 and 1183 at Second Street and Mildred Avenue. Restrain Valve 1182 and remove the waterline from the valve east 35'± to an existing 6" tee. Connect the west branch of the new 6" tee to existing Valve 1182 and install a new 6" gate valve on the east branch of the new tee. Install 36'±-6" waterline to the existing 6" tee and make connection using a new 6" transition coupling.

When all necessary testing and disinfecting are complete, place the new cross-over in service by opening Valves S-3, 1083, 1181, 1182, 1183 and the new valve (N-3).

Step V Second Street

Continue removal of 16" steel cement-lined waterline as needed. Close Valves S-3, 1182 and N-3 at Second Street and Mildred Avenue. Remove blocking and cap from existing 16" waterline at Sta. 8+20, 12' LT. (Second), install a 16"x12" reducer and complete construction of new 12" waterline to approximately Sta. 4+20 (Second) using the existing sleeves thru the three manholes at Sta. 6+00± (Second). Close Valve N-2 north of Claremont Avenue on Second Street. Remove blocking and cap from new 12" waterline installed in Step II and connect the two 12" waterlines using a new 12" transition coupling.

When all necessary testing and disinfecting are complete, place new 12" waterline in service by opening Valves N-2, N-3, S-3 and 1182 closed above.

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTORS
ACCEPTANCE BY AMAFCA DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AMAFCA DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

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

REVISIONS
NO. DATE BY REMARKS
DESIGNED BY G.W.C. DATE 8-92
DRAWN BY G.W.C. DATE 8-92
CHECKED BY S.A.V. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
WATER SHUT-OFF PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.J. Kooiker	2-18-93	WATER	William Dahl	9-29-92
TRANSPORTATION	N/A HC	9.29.92	WASTE WATER	William Dahl	9-29-92
HYDROLOGY	Steve Zebley	1.19.93			

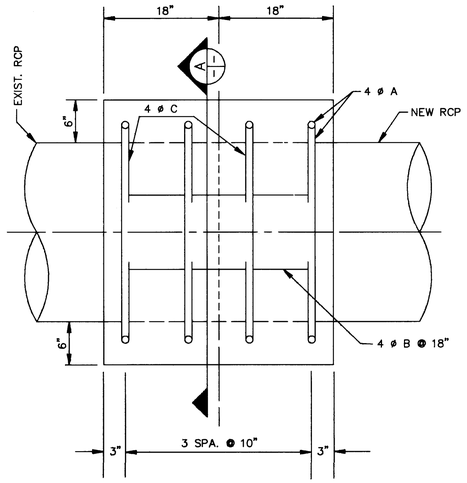
PROJECT NO. 4271.90 | MAP NO. G&H-14 | SHEET U-17 OF

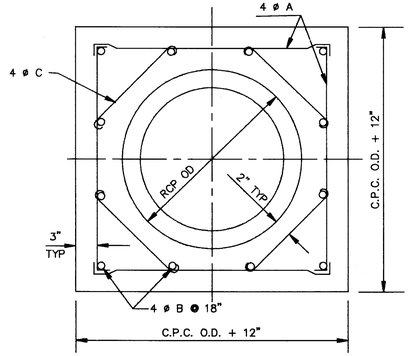
26 4271.902495

PLANNED BY SCANLON

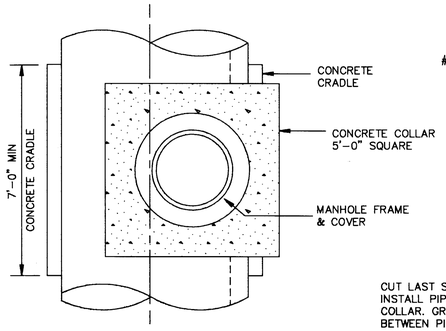
CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

Richard Smith
RECORD DRAWINGS 12/94

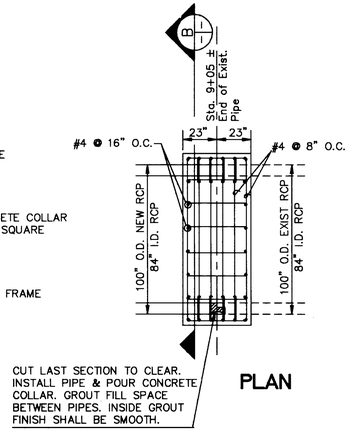




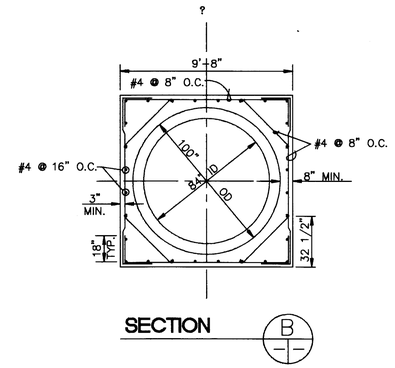
SECTION (A)



PLAN



PLAN



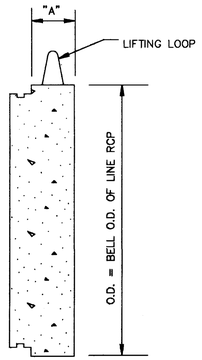
SECTION (B)

COLLAR DETAILS FOR CONNECTING 84" RCP 2nd ST. STA. 9+05 ±

INSIDE DIA.	OUTSIDE DIA.	C.P.C. O.D. + 12"	4 ø A (NO. & LENGTH)	4 ø B (NO. & LENGTH)	4 ø C (NO. & LENGTH)	REIN. BARS	CLASS "A" CONC.
18"	23"	2.9167'	16 @ 2'-6"	8 @ 2'-9"	— — — — — — —	41 LBS.	0.69 CU. YD.
24"	30"	3.5000'	16 @ 3'-3"	12 @ 2'-9"	— — — — — — —	57 LBS.	0.91 CU. YD.
30"	37"	4.0833'	16 @ 3'-9"	12 @ 2'-9"	— — — — — — —	62 LBS.	1.17 CU. YD.
36"	44"	4.6667'	16 @ 4'-3"	12 @ 2'-9"	— — — — — — —	67 LBS.	1.44 CU. YD.
48"	58"	5.6333'	16 @ 5'-6"	16 @ 2'-9"	16 @ 2'-9"	118 LBS.	2.06 CU. YD.
60"	65"	6.4167'	16 @ 6'-0"	20 @ 2'-9"	16 @ 3'-3"	144 LBS.	2.78 CU. YD.

NOTE: 4ø = Numbe 4 rebar.

COLLAR DETAILS FOR CONNECTING EXISTING CONC. PIPE CULV. W/NEW CONC. PIPE CULV.



RCP I.D.	"A"
24" & SMALLER	3"
30" – 42"	6"
48" – 72"	8"
78" – 96"	10"

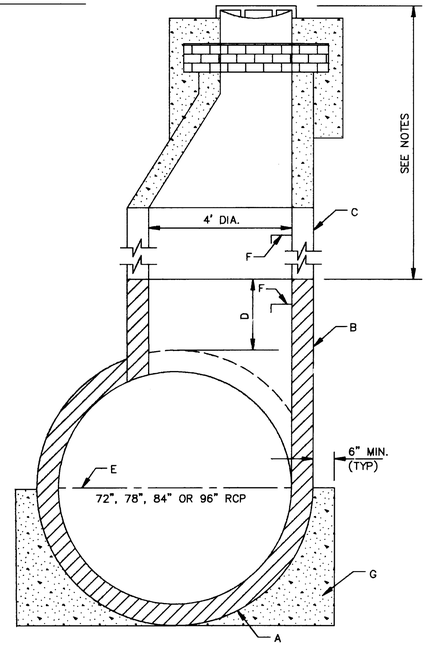
RCP END PLUG

GENERAL NOTES

1. MANHOLE STEPS TO BE INSTALLED AS PER SPEC. SECTION 920.4.7
2. FIELD FABRICATION OF ECCENTRIC PIPE TEE WILL NOT BE ACCEPTED.
3. PAYMENT FOR MAIN STORM DRAIN TRUNK LINE TO BE MADE ALONG ℄ OF PIPE TO PREFABRICATED MANHOLE TEE JOINT.
4. SEPARATE PAYMENT WILL BE MADE FOR PREFABRICATED TEE WHICH WILL INCLUDE THAT PORTION OF THE TRUNK LINE ASSOCIATED WITH THE TEE.
5. SEPARATE PAYMENT WILL BE MADE FOR CONSTRUCTION OF 4' DIAMETER TYPE E MANHOLE ABOVE PREFABRICATED SECTION OF TEE.
6. PAYMENT FOR CONCRETE CRADLE AT MANHOLE PRECAST TEE SECTION TO BE INCLUDED IN PRICE BID FOR PREFABRICATED TEE BRANCH.

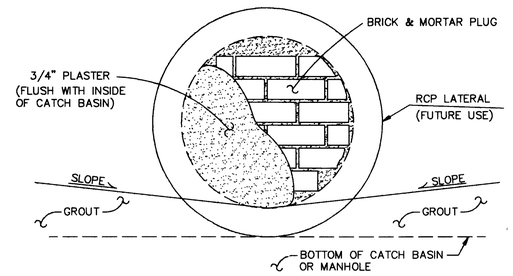
CONSTRUCTION NOTES

A. CLASS IV REINFORCED CONCRETE STORM SEWER PIPE UNLESS OTHERWISE SHOWN IN THE PLANS.
B. ECCENTRIC PRECAST VERTICAL PIPE TEE
C. 4' DIA. TYPE E MANHOLE AS PER C.O.A. STD. DRAWING 2102 EXCLUDING BASE
D. TOP OF VERTICAL PIPE MINIMUM 18" ABOVE
E. SPRINGLINE
F. MANHOLE STEP
G. CLASS A CONCRETE CRADLE. CONSTRUCT CRADLE AT SECTION OF PIPE WITH ECCENTRIC MANHOLE TEE ONLY. CRADLE TO BE INSTALLED UNDER FULL LENGTH OF TEE SECTION. (7'–0" MIN.)



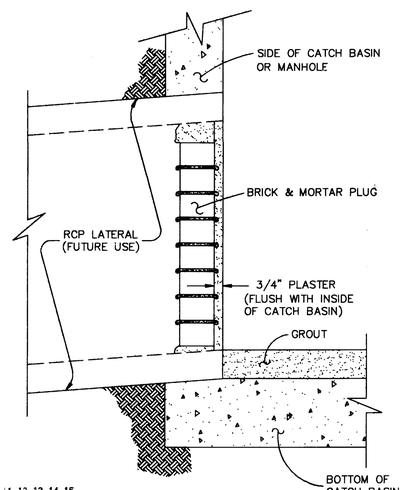
SECTION

TYPICAL 4' DIA. MANHOLE ON PRECAST ECCENTRIC TEE SECTION



VIEW FROM INSIDE CATCH BASIN OR MANHOLE

NOTE: NO DIRECT PAYMENT WILL BE MADE FOR INSTALLATION OR REMOVAL OF BRICK PLUGS. COST TO BE INCLUDED IN LUMP SUM PRICE FOR SYSTEM CONVERSION OR WILL BE CONSIDERED INCIDENTAL TO INSTALLATION OF STORM DRAIN LINES.



BRICK PLUG OF LATERAL AT CATCH BASIN OR MANHOLE

26 4271.90 2/3/95

AS BUILT INFORMATION
CONTRACTOR APAC
STAKED BY COA DATE 12/94
INSPECTOR'S NOTICE BY AA-R DATE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY AA-R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL
SCOTT L. YEARNES NEW MEXICO 9705 REGISTERED PROFESSIONAL ENGINEER 8/30/95

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	R.L. DATE 8-92
			J.G.L. DATE 8-92
			R.L. DATE 8-92

DESIGNED BY
DRAWN BY
CHECKED BY

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: UTILITY DETAILS

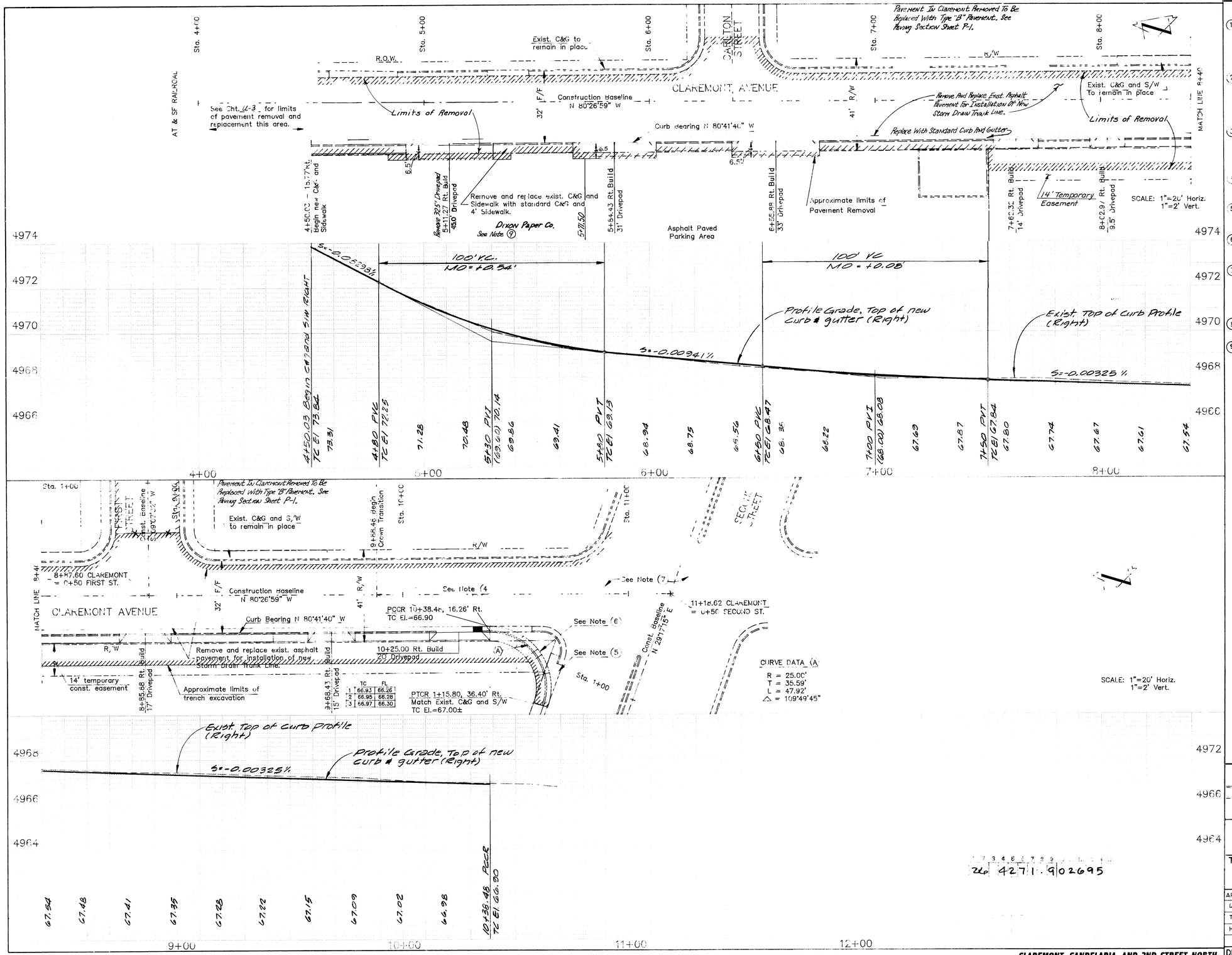
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9.24.92	WASTE WATER	N/A	9-24-92
HYDROLOGY	[signature]	1.19.93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET U - 16 OF

ALBUQUERQUE\91106\DETAILS.DGN 01

SCANNED BY LASON

Richard Lantz
RECORD DRAWINGS 12/94



NOTES

1. Claremont Avenue to be constructed at 32 ft. face to face using station and offsets shown. Note that Construction Baseline is not centerline of Roadway Construction. Replace asphalt pavement removed with Type 'B' Pavement.
2. Curb and Gutter, Sidewalk and Driveipads on north side to be removed and replaced with Standard Curb and Gutter and 4' Sidewalk after installation of utilities. Drivepads to be replaced at locations and to dimensions shown.
3. All drivepad dimensions shown are nominal width of drive opening. 3' transitions to be provided on both sides. Drives to be constructed in accordance with COA Standard Drawing 2425.
4. Transition pavement from full crown to no crown according to COA Standard Drawing 2401.
5. Remove existing Curb and Gutter and Sidewalk around returns and to limits shown.
6. Build Class II Wheelchair Ramp in curb return according to COA Standard Drawing 2441.
7. See Sheet 4-5 for limits of pavement removal and replacement. Intersection to be graded to match existing and new lip of gutters. Paving in intersection at Second Street to be Type A Arterial pavement as shown on Sheet P-1.
8. See Sheets 413 & 415 for Storm Drain and Utility Improvements.
9. Contractor To Maintain Access For Dixon Paper Company Trucks At All Times During Installation of Utilities And Curb & Gutter, Drive Pads & Asphalt Pavement. Contractor Shall Coordinate His Work Directly With Dixon Paper Company Operations.

AS BUILT INFORMATION
CONTRACTOR: APAC DATE 12/94
AS-BUILTED BY: COA
INSPECTED BY: APAC DATE
FIELD LOCATION BY: COA DATE
DRAWING CORRECTED BY: RAR DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
CONTROL STATION: NM47-11 E.L. / 4985.53 (S.L. 1929)
STATION MARK IS A STANDARD NGS BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
GEOFFREY A. VERMINES, NEW MEXICO, 9706, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R.L. DATE 4-92
DRAWN BY J.G.L. DATE 4-92
CHECKED BY S.A.V. DATE 8-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PAVING PLAN AND PROFILE CLAREMONT AVENUE**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	[signature]	2-18-93	WATER	William Dekle	9-24-92
TRANSPORTATION	[signature]	9-24-92	WASTEWATER	William Dekle	9-24-92
HYDROLOGY	[signature]	1-19-93			

DRAWING NO. 4271.90 | MAP NO. 614,15 R14,15 | SHEET P-2 OF

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

26 4271.90 02695

SCANNED BY BY LASON

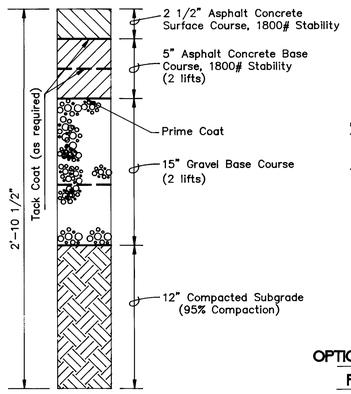
Richard Forest
RECORD DRAWINGS 12/94

148413

STREET	P&P SHEET	FROM	TO	CURB & GUTTER REMOVAL LIN. FT.	SIDEWALK / DRIVEPAD REMOVAL SQ. YD.	PAVEMENT REMOVAL SQ. YD.	NEW STANDARD CURB & GUTTER LIN. FT.	NEW MEDIAN CURB & GUTTER LIN. FT.	NEW 6" EXTRUDED CONCRETE CURB LIN. FT.	NEW 8" EXTRUDED CONCRETE CURB LIN. FT.	NEW 4" THICK SIDEWALK SQ. YD.	NEW 6" THICK DRIVEPAD SQ. FT.	NEW PARKING LOT/DRIVE PAVM'T SQ. YD.	NEW TEMPORARY PAVEMENT (MEDIAN AREAS) SQ. YD.	NEW RESIDENTIAL PAVEMENT SQ. YD.	NEW ARTERIAL PAVEMENT TYPE A SQ. YD.	NEW CLAREMONT PAVEMENT TYPE B SQ. YD.	4" PATTERNED/COLORED CONCRETE PAVING AT MEDIAN SQ. YD.
COMMERCIAL STREET	U-1,U-2	3+60	8+45	44	16	1,074	60	–	–	–	27	–	–	–	1,006	–	–	–
CLAREMONT AVENUE	U-3,U-4,U-5	4+05	12+00	764	305	2,540	702	–	–	–	217	130	300	–	130	–	2,235	–
SECOND STREET (South)	U-6,U-7	0-155	9+25	1,943	93	3,841	544	18	1,306	53	148	23	–	580	112	3,747		84
MILDRED AVENUE	U-9	0+63	3+60	62	16	731	46	–	–	–	40	–	–	–	731	–	–	–
SHROPSHIRE PLACE	U-10	1+10	1+42	16	–	94	16	–	–	–	–	–	–	–	94	–	–	–
VERANDA ROAD	U-11,U-12	0+69	5+52	52	23	821	36	–	–	–	16	8	–	–	821	–	–	–
TOTAL (BASE BID)				2,881	453	9,101	1,404	18	1,306	53	448	161	300	580	2,894	3,747	2,235	84
*SECOND STREET (North)	U-13,U-14,U-15	0+85	10+80	294	12	3,084	30	–	174	166	12	24	–	58	86	2,998	–	24

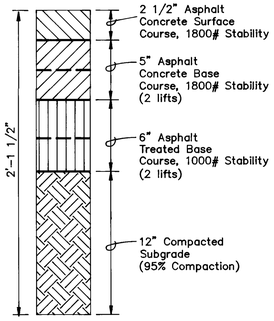
Above Quantities Do Not Represent As Constructed Values

*ADDITIVE ALTERNATE NO.1



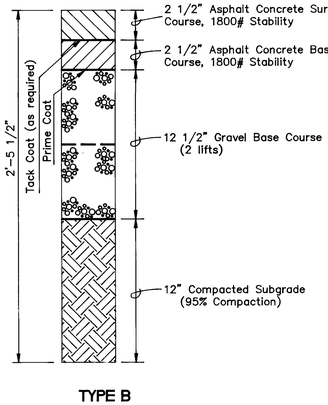
ARTERIAL TYPE A PAVEMENT SECTION

SECOND STREET



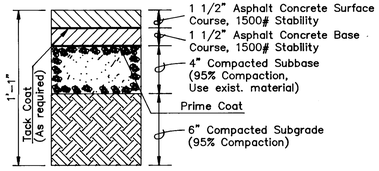
OPTIONAL ARTERIAL TYPE A PAVEMENT SECTION

(NO ADDITIONAL PAYMENT FOR USE OF THIS PAVED SECTION)



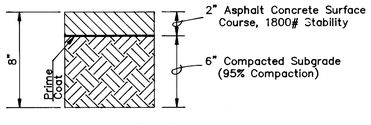
TYPE B PAVEMENT SECTION

CLAREMONT AVENUE
(2ND ST. TO RR TRACKS)

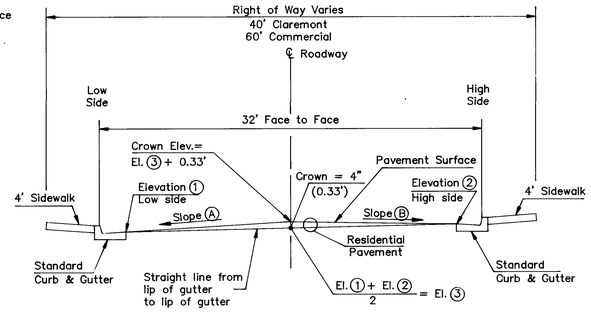


RESIDENTIAL PAVEMENT

COMMERCIAL STREET
MILDRED AVENUE
VERANDA ROAD
DETENTION BASIN



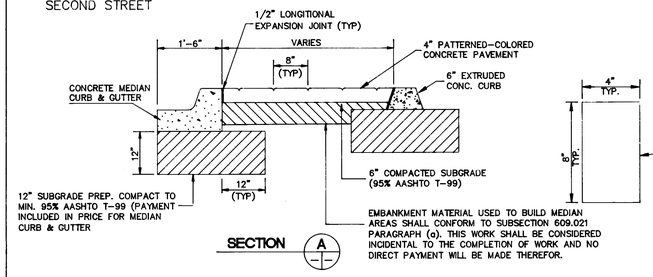
PARKING LOT AND DRIVE PAVEMENT



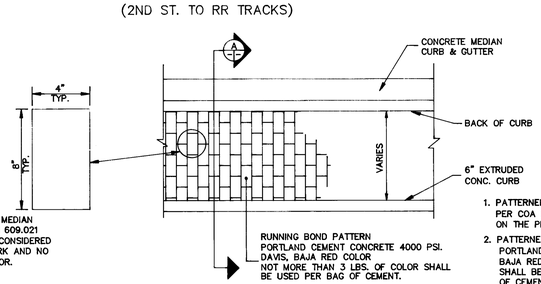
TYPICAL ROADWAY SECTION

32 FT. FACE TO FACE

SIDE HILL	SLOPE Ⓐ	SLOPE Ⓑ
0.00	← 2.36 %	2.36 % →
0.10	← 2.71 %	2.00 % →
0.20	← 3.07 %	1.64 % →
0.30	← 3.43 %	1.29 % →
0.40	← 3.79 %	0.93 % →
0.50	← 4.14 %	0.58 % →
0.60	← 4.50 %	0.21 % →



SECTION Ⓐ



PLAN

4' PATTERNED CONCRETE PAVING DETAIL

AT MEDIAN

NOTES

1. PATTERNED-COLORED CONCRETE PAVING SHALL BE INSTALLED PER COA DWG 2502 AT LOCATIONS SHOWN ON THE PLANS.
2. PATTERNED-COLORED CONCRETE PAVING SHALL BE 4000 P.S.I. PORTLAND CEMENT CONCRETE. COLOR SHALL BE DAVIS, BAJA RED, OR APPROVED EQUAL. RATE OF APPLICATION SHALL BE NOT MORE THAN 3 LBS. OF COLOR PER BAG OF CEMENT.
3. RUNNING BOND PATTERN FOR CONCRETE PAVING SHALL AT ALL LOCATIONS BE PERPENDICULAR TO THE CURB AND GUTTER, AND SHALL BE 8" X 4" RECTANGULAR SHAPES.

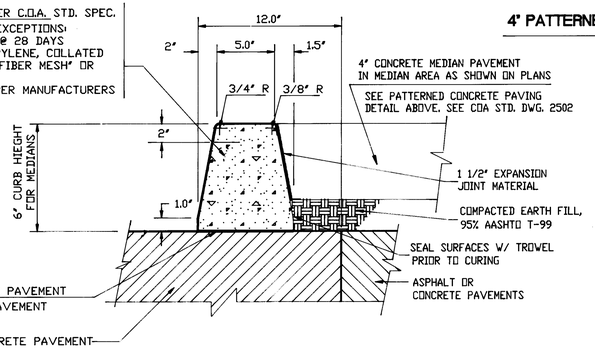
TYPICAL SECTION

SECOND STREET

NOTES:

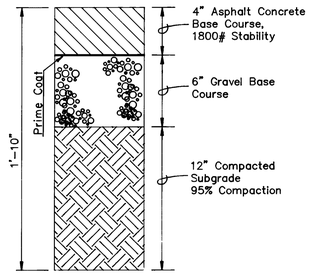
1. NEW PAVEMENT TO BE BUILT TO MATCH EXISTING GRADES. PAVEMENT TO MATCH LIP OF GUTTER OR EXISTING PAVEMENT. (TYPICAL) CONTRACTOR SHALL VERIFY THAT PAVING SURFACE WILL PROVIDE POSITIVE DRAINAGE PRIOR TO PLACING FINAL TYPE A PAVEMENT.
2. MEDIAN AREA TO BE PAVED WITH 4" PATTERNED-COLORED CONCRETE MEDIAN PAVEMENT OR COMPACTED ERATH. SEE PLAN & PROFILES FOR LIMITS.
3. EXISTING MEDIAN CURB & GUTTER TO BE REMOVED AND REPLACED WITH 6" EXTRUDED CONCRETE MEDIAN CURB AT SAME HORIZONTAL & VERTICAL LOCATION AS EXISTING.

EXTRUDED CONCRETE CURB PER C.O.A. STD. SPEC. 101 & 341 WITH FOLLOWING EXCEPTIONS:
- 3000 PSI COMP. STRENGTH @ 28 DAYS
- 1.5# PER C.Y. OF POLYPROPYLENE, COLLATED FIBRILLATED FIBERS ("FIBER MESH" OR APPROVED EQUAL)
- NON-CHLORIDE RETARDER PER MANUFACTURERS RECOMMENDATION



6" EXTRUDED CONCRETE CURB MEDIAN

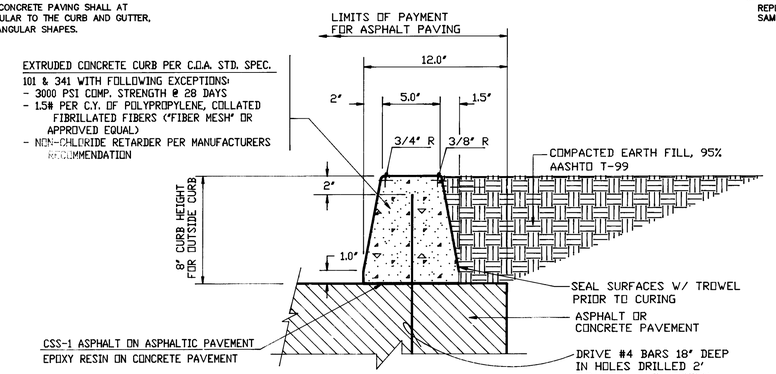
NOT TO SCALE



TEMPORARY PAVING

SECOND STREET (MEDIAN AREAS)

EXTRUDED CONCRETE CURB PER C.O.A. STD. SPEC. 101 & 341 WITH FOLLOWING EXCEPTIONS:
- 3000 PSI COMP. STRENGTH @ 28 DAYS
- 1.5# PER C.Y. OF POLYPROPYLENE, COLLATED FIBRILLATED FIBERS ("FIBER MESH" OR APPROVED EQUAL)
- NON-CHLORIDE RETARDER PER MANUFACTURERS RECOMMENDATION



8" EXTRUDED CONCRETE CURB

NOT TO SCALE

26 4271.902595

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

BENCH MARKS

AS BUILT INFORMATION
CONTRACTOR: RMCI — DATE: 12/94
ACCEPTED BY: COA — DATE:
INSPECTORS: AS-BUILT BY: RA.J.P — DATE:
FIELD VERIFICATION BY: COA — DATE:
DRAWING CORRECTED BY: RA.J.C — DATE:
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO

ENGINEER'S SEAL

REVISIONS — NO. — DATE — REMARKS — BY

DESIGNED BY R.C. — DATE 10/92
DRAWN BY J.G.C. — DATE 10/92
CHECKED BY R.C. — DATE 10/92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: PAVING DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.J. Scholes	2-18-93	WATER	N.A.	12-22-92
TRANSPORTATION		2-23-93	WASTE WATER	N.A.	12-23-92
HYDROLOGY		1-19-93			

PROJECT NO. 4271.90 — MAP NO. G-14, 15 / H-14, 15 — SHEET P-1 OF

PAV-DET 10/19/92 11:50:32

SCANNED BY LASON

RECORD DRAWINGS 12/94

Scale: 1" = 50'

AT&SF RAILROAD

Temporary Building to be Removed by Others Prior to construction.

Railroad Spur to be Removed from this Point North by Santa Fe Railway. Contractor shall notify the AT&SF Railway Company 72 hrs. prior to start of removal of spur track south of this point.

Railroad Crossing Signal To be Relocated by Santa Fe Railway.

Existing Powerlines and Posts to be Removed by PNM.

DETENTION BASIN PROPERTY BOUNDARY (See Sheet D-3, Geometrics Plan For Dimensions.

COMMERCIAL

CLAREMONT

BROADWAY

ARNO

NEW MEXICO AND ARIZONA LAND COMPANY PROPERTY (NZ)

NOTE: This property is to be cleared, filled, and graded under this contract. Design and construction specifications for this work were prepared by Bohannan Huston Inc. (BHI) on behalf of NZ in cooperation with the City of Albuquerque. See Sheet D-8 for construction details.

Scanlon & Associates, Inc. assumes no liability or responsibility for the accuracy, correctness, or intent of the work represented by the plans and specifications prepared by BHI. All questions concerning the intent or interpretation of those documents should be directed to:

Mr. Bill Vreeke
Bohannan Huston Inc.
7500 Jefferson Ne
Albuquerque, NM
(505) 823-1000

26 4271.902795

SCANNED BY BY LASON

NOTES

Remove all items from Detention Basin Site within property lines. Identifiable items are labelled on plan and are as follows:

1. Approx. 2250 ft. chain link fence. Return to City Yard.
2. Approx. 1070 ft. railroad spur
3. 4.5' high concrete loading dock with concrete cylinder block sides
4. Three light poles and lines
5. 2.5' x 2.5' concrete pads (quantity unknown)
6. 6" thick concrete slab
7. 4" thick concrete slab
8. metal tank
9. 8' dia. metal pipe
10. Two utility posts
11. 4.5' high concrete loading dock with north end sloped to ground level; concrete cinder block sides
12. Twelve fence posts (no wire or fence)
13. Four 0.8' dia. x 16' high posts
14. Abandoned shed
15. Utility pole
16. Eight bollard posts

Demolition shall be bid as a lump sum item. The list above is provided for the contractor's information only. The quantities are approximate, and the list should not be considered inclusive. Clear and grub site to property lines.

A. T. & S. F. Railway Company
Mr. H. E. Eastham
Supervisor of Maintenance.
(505) 857-5026

AS BUILT INFORMATION
CONTRACTOR Rio21
WORK STAKED BY COA DATE 12/94
INSPECTED BY
ACCEPTANCE BY AA.R DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA.R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

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

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY JA-C DATE 10-91	
		DRAWN BY JGL. DATE 11-91	
		CHECKED BY S.A.V. DATE 8-92	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

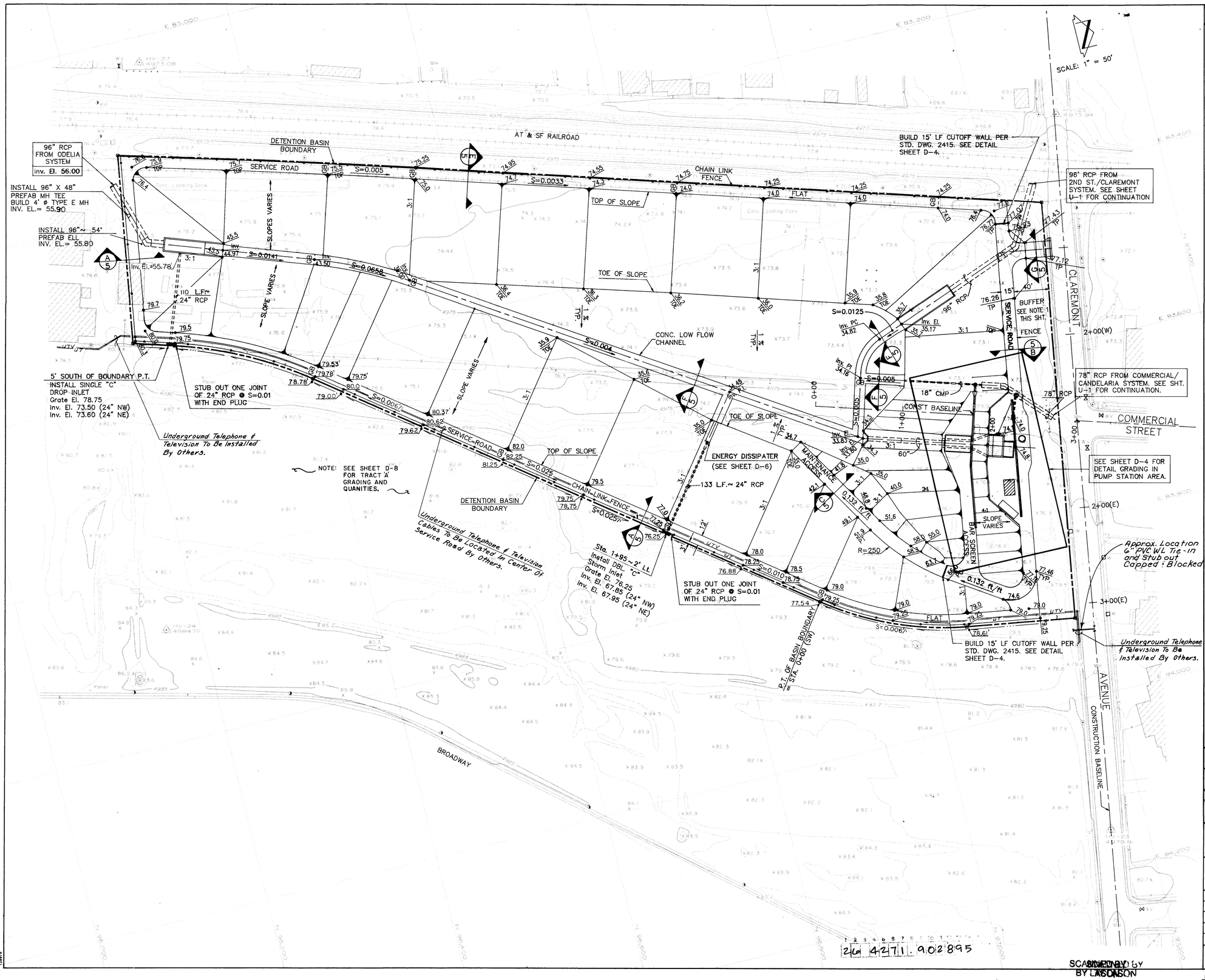
TITLE:

DEMOLITION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	9-29-92
TRANSPORTATION	N/A	9.24.92	WASTEWATER	N/A	9-29-92
HYDROLOGY	[signature]	1.19.93			

PROJECT NO. 4271.90 | MAP NO. G-14,15 H-14,15 | SHEET D-1 OF

Richard Frost
RECORD DRAWINGS 12/94



NOTES

1. SEE LANDSCAPING PLANS FOR GRADING IN 40' BUFFER AREA.

DENOTES AC PAVED AREAS

CONTRACTOR SHALL COORDINATE HIS WORK WITH PNM, U3 WEST & JONES INTERCABLE.

ESTIMATED EARTHWORK QUANTITIES	
ITEM	VOL (CU.YD.)
EXCAVATION	261,950
EMBANKMENT	1,090
NET (CUT)	260,860

NOTE: THE ABOVE INFORMATION IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY. EXCAVATION AND GRADING FOR THE DETENTION BASIN IS BID AS A LUMP SUM ITEM. THE ABOVE QUANTITIES DO NOT INCLUDE SHRINKAGE OR SWELL, EXCAVATION, AND BACKFILL FOR STRUCTURES NOR ROADBASE PREPARATION.

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

AS BUILT INFORMATION

CONTRACTOR Rmcl DATE 12/94
WORK INSPECTED BY COA DATE
INSPECTIONS ACCEPTANCE BY AA DATE 12
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA DATE 12
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL

SCOTT M. LEE VERMEER, NEW MEXICO, 8706, REGISTERED PROFESSIONAL ENGINEER, 12/94

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	S.A.V. DATE 5-92
		DRAWN BY	J.G.L. DATE 8-92
		CHECKED BY	S.A.V. DATE 8-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CLAREMONT DETENTION BASIN SITE GRADING PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goodby	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9.22.92	WASTEWATER		
HYDROLOGY	Steve Boberg	1.19.93			

PROJECT NO. 4271.90 | MAP NO. G-14,15 H-14,15 | SHEET D-2 OF

RECORD DRAWINGS 12/94

SCANNED BY LASERFICHE

2 6 4271.90 2895

RT-BASIN 08/20/92 09:52:33

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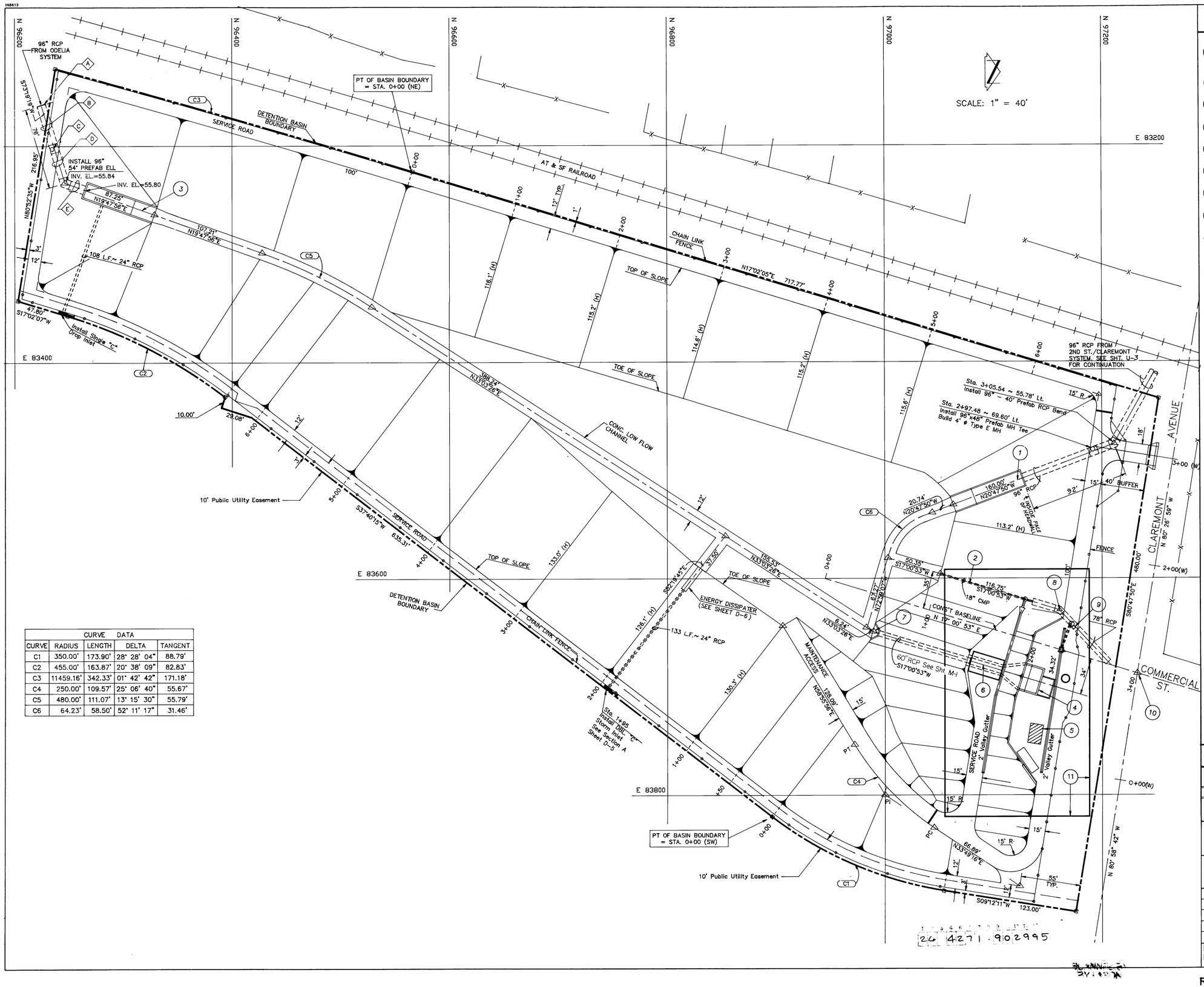

CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	350.00'	173.90'	28° 28' 04"	88.79'
C2	455.00'	163.87'	20° 38' 09"	82.83'
C3	11459.16'	342.33'	01° 42' 42"	171.18'
C4	250.00'	109.57'	25° 06' 40"	55.67'
C5	480.00'	111.07'	13° 15' 30"	55.79'
C6	64.23'	58.50'	52° 11' 17"	31.46'

NOTES

1. 2ND STREET/CLAREMONT SYSTEM ENERGY DISSIPATER. SEE SHEET S-27 FOR DETAILS
2. INTERIM SITE DRAINAGE SEE SHEET D-7 FOR DETAILS.
3. ODELIA SYSTEM ENERGY DISSIPATER. SEE SHEET S-20 FOR DETAILS.
4. PUMP STATION WET WELL. SEE SHEET M-1 FOR DETAILS.
5. CONTROL BUILDING. SEE SHEET S-9 FOR DETAILS.
6. BAR SCREEN ENCLOSURE. SEE SHEET M-5 FOR DETAILS.
7. STA. 0+56.35 ~ 34' RT. BEGIN PIPE ENDWALL. SEE SHEET S-16 FOR DETAILS.
8. STA. 2+16.75 – 35' LT. INSTALL 78" –30° PREFAB ELL.
9. STA. 2+30.73 – 27.22' LT. INSTALL 78"X48" PREFAB MH TEE BUILD 4' DIA MH TYPE E
10. STA. 3+00 ℄ COMMERCIAL = STA. 1+00 ℄ CLAREMONT (W) = STA. 1+00 ℄ CLAREMONT (E) N=97232.00 E=83688.00
11. SEE SHEET D-4 FOR DETAIL GEOMETRY AND GRADING IN PUMP

THE DRAINAGE RIGHT-OF-WAY FOR THE CLAREMONT DETENTION BASIN IS DESCRIBED AS "TRACT B" ON THE PLAT OF TRACTS A,B, AND C LAND AT MENAUL AND BROADWAY BY ALBUQUERQUE SURVEYING COMPANY, INC. 6-9-92. THAT SURVEY USED A DIFFERENT MONUMENT TIE AND BEARING BASIS THAN THAT USED FOR THIS PROJECT.

- (A) INSTALL 96" RCP PREFAB PLUG INV. EL.=55.99
- (B) BUILD 40 LF-96" RCP CLASS IV STORM DRAIN @ S=0.0020 FT/FT
- (C) INSTALL 96"X48" PREFAB MH TEE BUILD 4' ø TYPE E MH
- (D) BUILD 24 LF-96" RCP CLASS IV STORM DRAIN @ S=0.0020 FT/FT
- (E) BUILD 16 LF-96" RCL CLASS IV STORM DRAIN @ S=0.0020 FT/FT

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

AS BUILT INFORMATION
CONTRACTOR: BMCI DATE: 12/94
WORK STAKED BY: COA DATE
INSPECTED BY: RA-P DATE
FIELD LOCATION BY: COA DATE
LAYOUTS CORRECTED BY: RA-K DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD. 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE, N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

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

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	S.A.V. DATE 8-92
		DRAWN BY	M.W. DATE 8-92
		CHECKED BY	S.A.V. DATE 8-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CLAREMONT DETENTION BASIN GEOMETRICS PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION	N/A Dino	2-18-93	WASTE WATER	N/A Bob	9-24-92
HYDROLOGY	Steve Sobey	9.24.92			
		1.19.93			

PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET OF D - 3

246 4271.902995

RECORD DRAWINGS 12/94

BASH-2E 05/19/92 14:42:42

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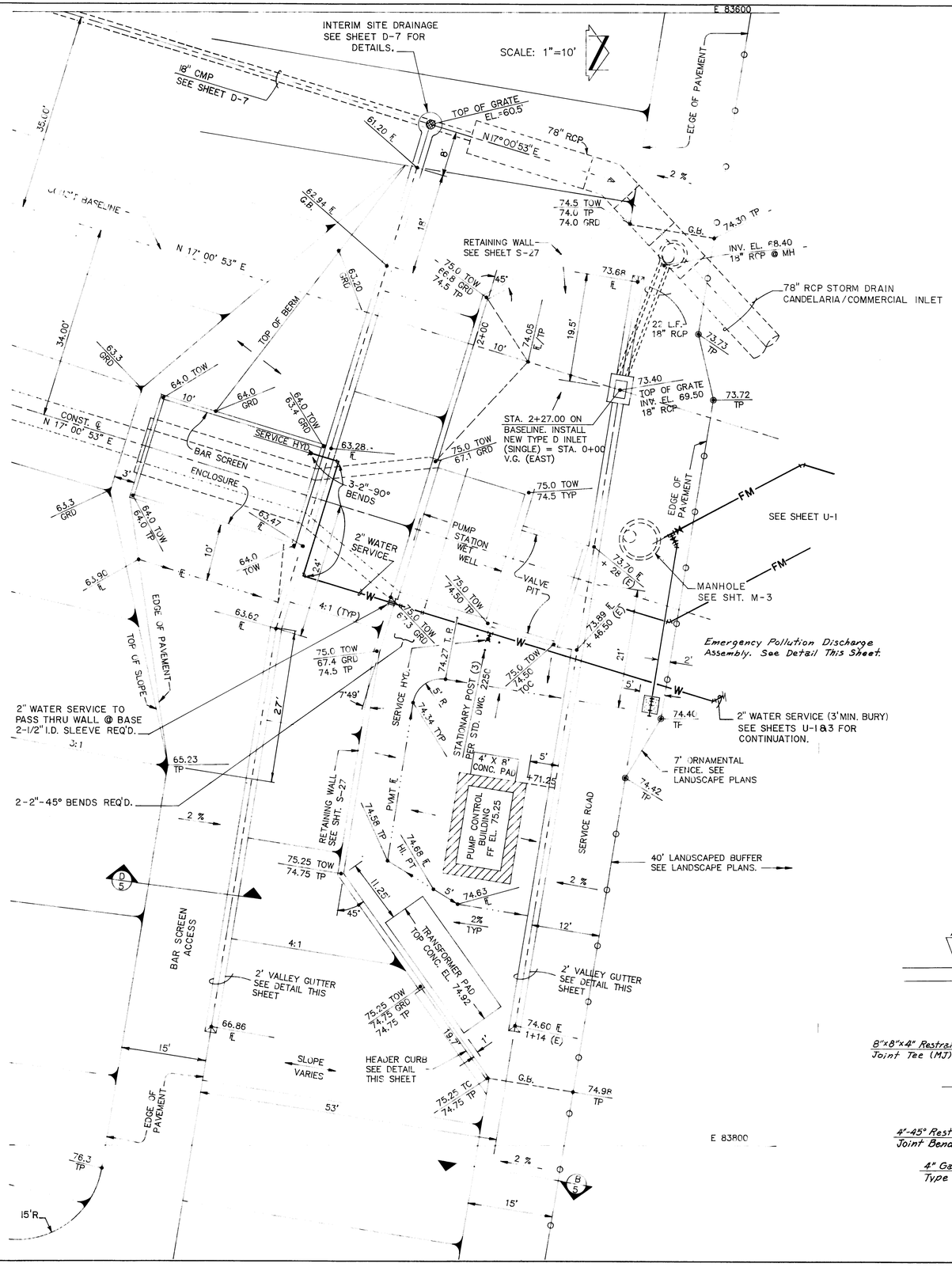
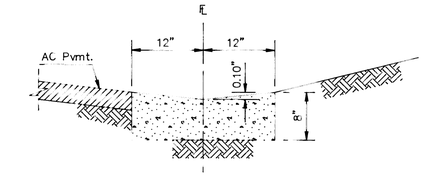
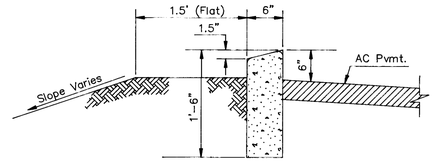




2' VALLEY GUTTER

SCALE: 1" = 1'-0"

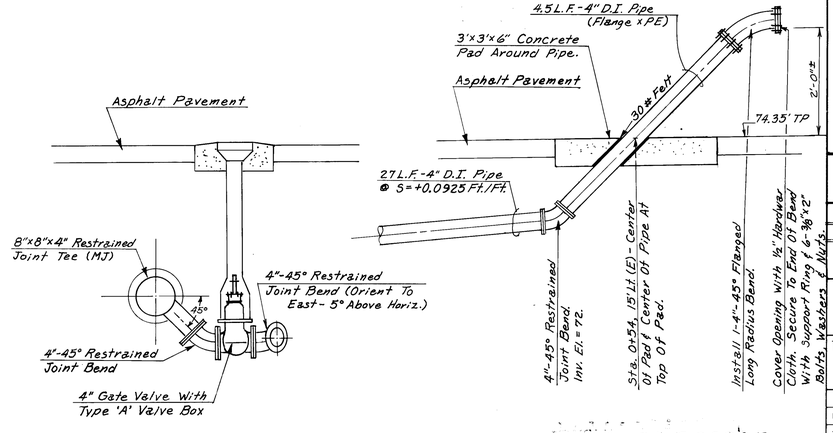


HEADER CURB

SCALE: 1" = 1'-0"

CUT-OFF WALL

SCALE: 1" = 1'-0"



EMERGENCY POLLUTION DISCHARGE

NOT TO SCALE

NOTES

1. SERVICE HYDRANTS SHALL BE AS MANUFACTURED BY M & H VALVE CO., STYLE 33, WITH ONE 2-1/2" THREADED MALE HOSE NOZZLE, OR APPROVED EQUAL.

AS BUILT INFORMATION
CONTRACTOR: RMDJ — DATE 12/94
WORK STAKED BY: COA
INSPECTORS: —
ACCEPTANCE BY: — DATE
FIELD VERIFICATION BY: COA DATE
CORRECTED BY: MICRO-FILM INFORMATION
RECORDED BY: — DATE
NO.

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
SCOTT A. VERHINNES — NEW MEXICO — 9046 — REGISTERED PROFESSIONAL ENGINEER — 12-31-94

REMARKS

NO.	DATE	REVISIONS	BY
		DESIGN	
		DESIGNED BY D.D.B.	DATE 4-92
		DRAWN BY J.G.L & G.W.C.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

SCANLON & ASSOCIATES INC
ALBUQUERQUE • SANTA FE
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT DETENTION BASIN
GRADING DETAIL - PUMP STATION AREA

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G. Lovato	2-18-93	WATER	N/A Rho	4-24-92
TRANSPORTATION	N/A Rho	4-24-92	WASTE WATER	N/A Rho	4-24-92
HYDROLOGY	Steve Sobiey	1-19-93			

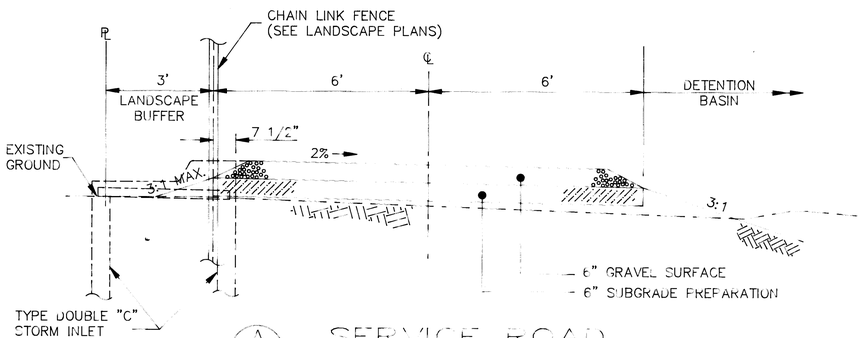
PROJECT NO. 4271.90
MAP NO. G-14, 15 / H-14, 15
SHEET D-4 OF

SCANNED BY LASON

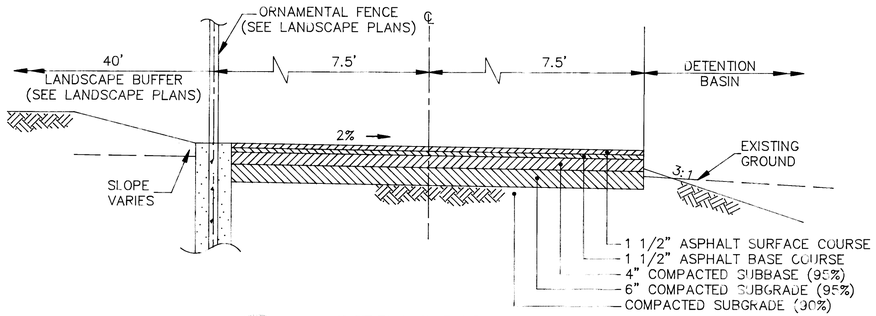
Richard Scott
RECORD DRAWINGS 12/94

GRAD-1C APR. 9, 1992

148413

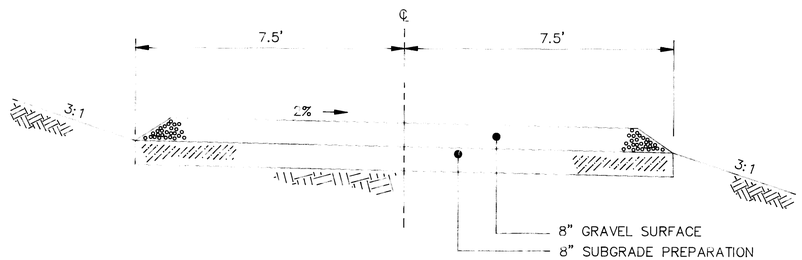


A D-2 SERVICE ROAD
SCALE: 1" = 2'

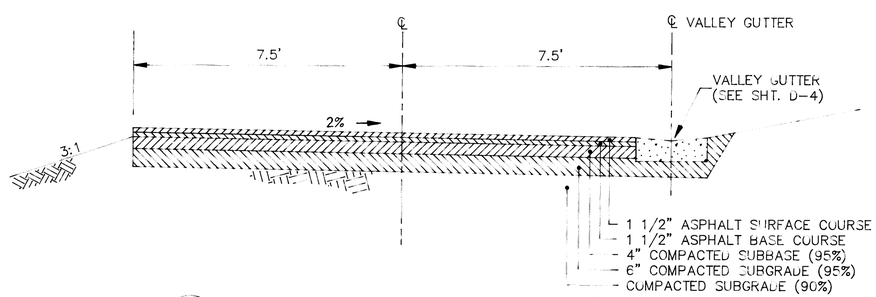


B D-2,4 SERVICE ROAD
SCALE: 1" = 2'

NOTE: USE RESIDENTIAL PAVING SECTION PER STD. DWG. 2405

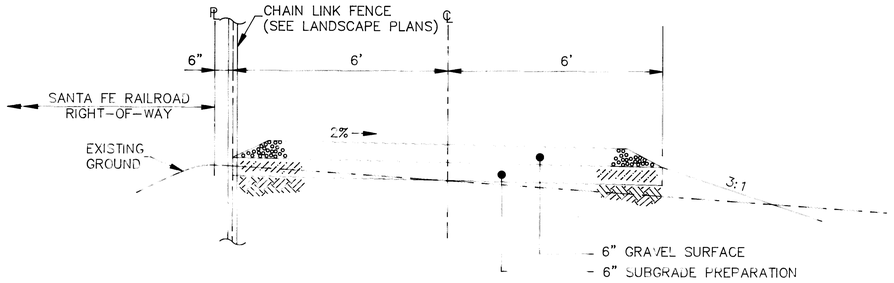


C D-2 MAINTENANCE ACCESS
SCALE: 1" = 2'

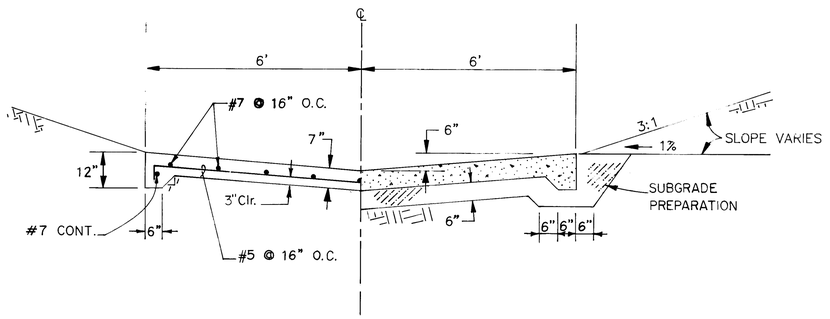


D D-4 BAR SCREEN ACCESS
SCALE: 1" = 2'

NOTE: USE RESIDENTIAL PAVING SECTION PER STD. DWG. 2405

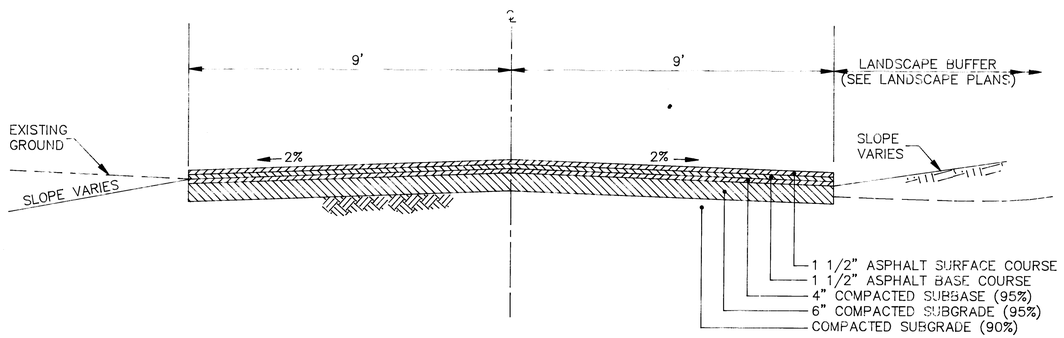


E D-2 SERVICE ROAD
SCALE: 1" = 2'



F D-2 LOW FLOW CHANNEL
SCALE: 1" = 2'

NOTE: REINFORCEMENT TYPICAL EACH SIDE.



G D-2 ENTRANCE DRIVE
SCALE: 1" = 2'

NOTE: USE RESIDENTIAL PAVING SECTION PER STD. DWG. 2405

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STARTED BY COA DATE
INSPECTED BY AB/R DATE
ACCEPTANCE BY AB/R DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AB/R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERHINES NEW MEXICO 9708 REGISTERED PROFESSIONAL ENGINEER 12/8/92

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY S.A.V.	DATE 4-92
		DRAWN BY J.G.L.	DATE 4-92
		CHECKED BY S.A.V.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
DETENTION BASIN CONSTRUCTION DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.J. Goodsby	2-18-93	WATER	N/A	
TRANSPORTATION	Mike Riley	9.24.92	WASTE WATER	N/A	9-24-92
HYDROLOGY	Steve Boberg	1-19-93			

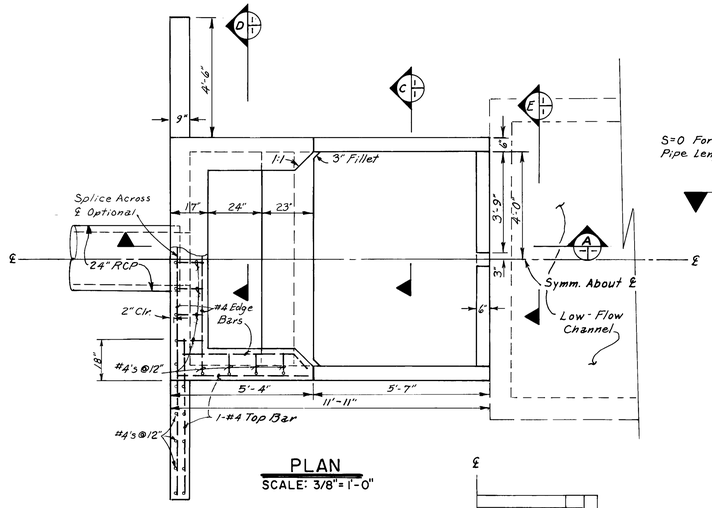
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF D - 5

CONTROL APR. 9, 1992

26 4271.903195

SCANNED BY BY I ASON

Richard Smith
RECORD DRAWINGS 12/94

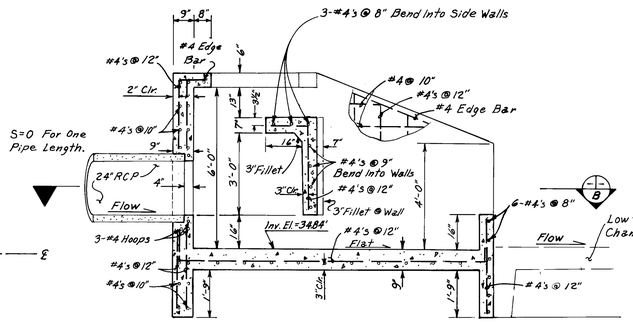


PLAN
SCALE: 3/8"=1'-0"

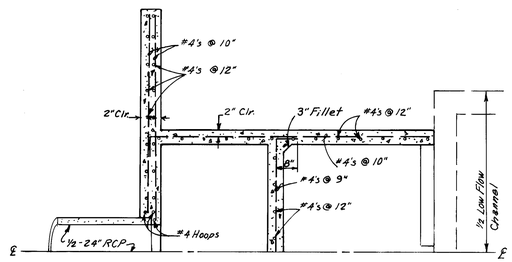
DESIGN DATA

f'_c = 4000 psi

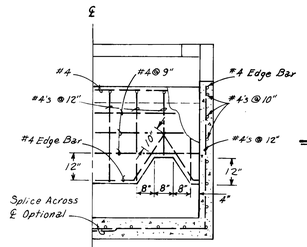
f_y = 60,000 psi



SECTION (A)
SCALE: 3/8"=1'-0"

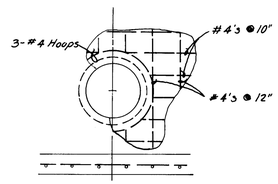


½ SECTION (B)
SCALE: 3/8"=1'-0"

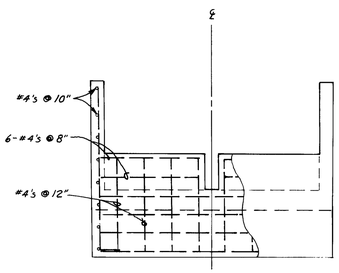


½ SECTION (C)
SCALE: 3/8"=1'-0"

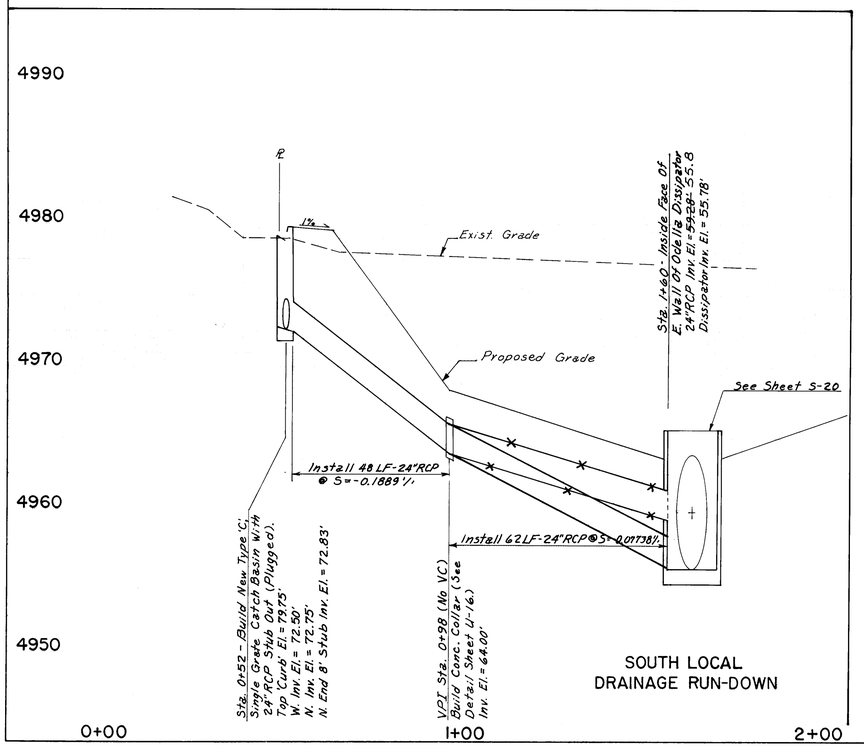
LOCAL DRAINAGE ENERGY DISSIPATER

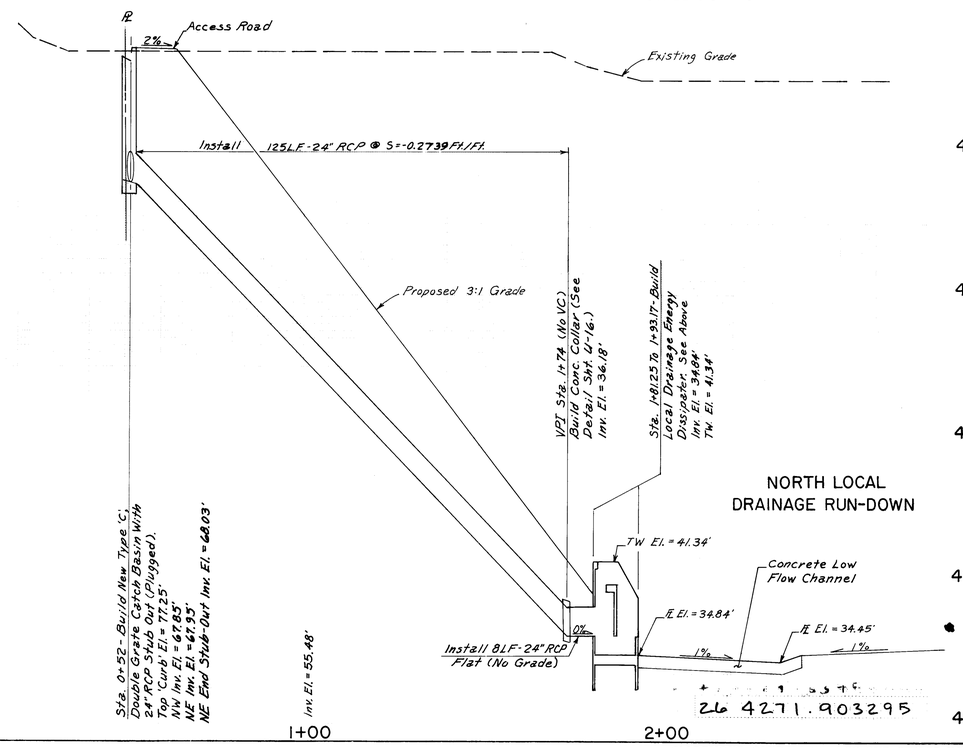


SECTION (D)
SCALE: 3/8"=1'-0"



SECTION (E)
SCALE: 3/8"=1'-0"





NOTES

Quantities And Payment

Payment For The "Local Drainage Energy Dissipater, Complete, In Place" Shall Be Made At The Lump Sum Price. All Associated Work Including, But Not Limited To, Reinforced Concrete, Joints, Structural Excavation, Backfill And Compaction, Shall Be Included In The Lump Sum. The Estimated Plan Quantity For Reinforced Concrete Is Given For The Contractor's Information Only, And Shall Not Not Be The Basis For Payment.

Reinforced Concrete, 4000 PSI — 10.6 Cubic Yards

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

BENCH MARKS

CONTROL STATION: NM47-11, ELEV. 4968.53 (SLD 1929)
STATION MARK, IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST, FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

AS BUILT INFORMATION
A. M. RMDJ DATE 12/94
INSPECTED BY COA DATE
AS BUILT PLANS BY AAIR DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS BY AAIR DATE
MICRO-FILM INFORMATION
MICROFILMED DATE

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

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY S.A.V. DATE 4-92
DRAWN BY G.W.C. DATE 4-92
CHECKED BY O.D.B. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **DETENTION BASIN CONSTRUCTION DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chair					
Trans. Dev.	N/A RHD	2-18-93 / 9-24-92			
Utility Dev.	N/A	9-24-92			
HYDROLOGY	Steve Lebeg	1-19-93			

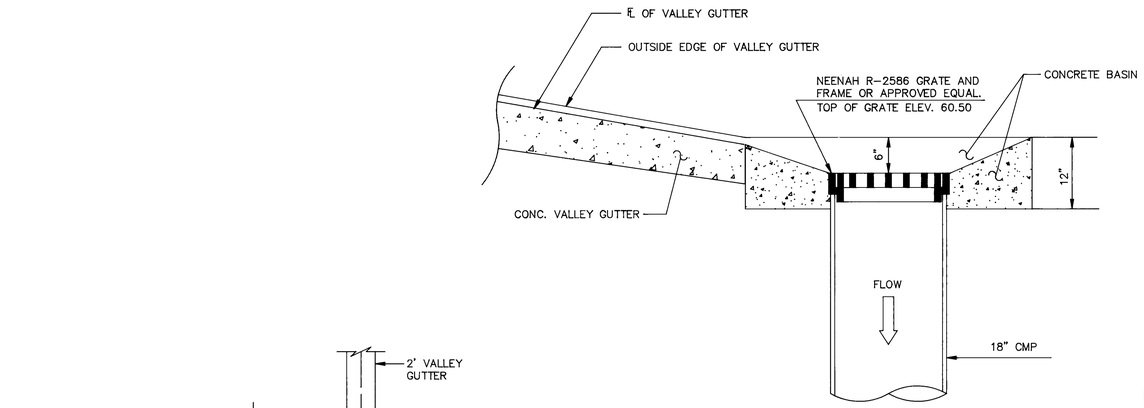
DRAWING NO. 4271.90 | MAP NO. M-14 | SHEET D-6 OF

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SCANNED BY LASER

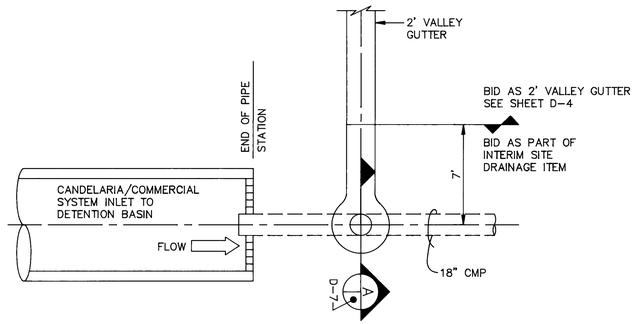
Richard Grant
RECORD DRAWINGS 12/94

148413



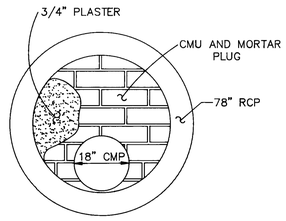
SECTION A

SCALE: 1" = 1'



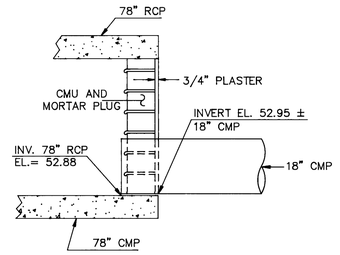
PLAN VIEW

SCALE: 1' = 5'



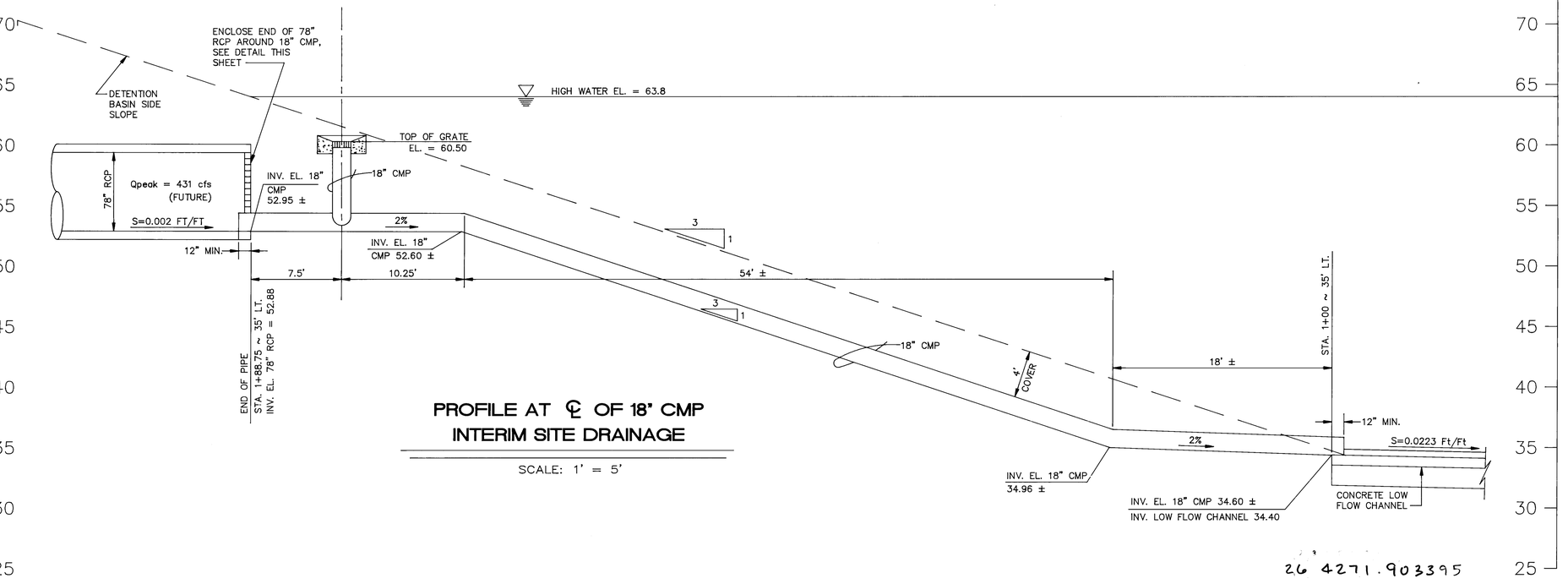
END VIEW

NOT TO SCALE



SIDE VIEW

NOT TO SCALE



PROFILE AT ℄ OF 18" CMP INTERIM SITE DRAINAGE

SCALE: 1' = 5'

26 4271.903395

NOTES

1. The intent of the work shown on this sheet is to provide an interim solution for local site drainage until such time as the Candelaria/Commercial System is installed and functional. A baffled apron energy dissipater was designed for this location and should be installed in the future in conjunction with the Candelaria/Commercial System.
2. The work detailed on this street shall be bid as a LUMP SUM ITEM – INTERIM SITE DRAINAGE, complete in place and shall include:
   - 18" CMP pipe, in place, including all fabrication, bends, welds, joint connections, trenching, backfill, and compaction.
   - Inlet grate, frame, and concrete basin.
   - 78" RCP enclosure including CMU, mortar, and plaster complete.
3. 18" CMP shall be round galvanized steel pipe with 3"x1" maximum corrugation and min. gage = 0.064".
4. Joints for CMP shall be of the O-ring gasketed "hugger" type, which includes a continuously corrugated band, tightened around the CMP with bolted tension bars, or approved equal.

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
ACCEPTED BY COA
INSPECTOR'S FINAL APPROVAL BY DATE
FIELD VERIFICATION BY COA DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
SCOTT A. VERMINES NEW MEXICO 9706 PROFESSIONAL ENGINEER REGISTERED 8/20/92

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN	S.A.V.	8-92
	DRAWN BY	N.W.	8-92
	CHECKED BY	S.A.V.	8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CANDELARIA / COMMERCIAL SYSTEM INTERIM SITE DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION	N/A (HWD)	2-18-93	WASTE WATER	N/A (HWD)	9-24-92
HYDROLOGY	Steve Sobczyk	9.24.92			
		1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF D - 7

INTERIM 08/17/92 07:07:25

SCANNED BY BY LASON

Richard Lovato
RECORD DRAWINGS 12/94

CONSTRUCTION NOTES

1 ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND CITY LAWS, RULES AND REGULATIONS GOVERNING CONSTRUCTION SAFETY AND HEALTH.

2 THESE DRAWINGS REFLECT EXISTING SITE CONDITIONS BASED ON INFORMATION GATHERED FROM SEVERAL AVAILABLE SOURCES INCLUDING SITE INSPECTION, AERIAL PHOTOGRAPHY, DISCUSSIONS WITH LOCAL UTILITIES, ENGINEERING OFFICIALS, AND PREVIOUS CONSTRUCTION DRAWINGS OR AS-BUILTS. ALL BIDDERS ARE CAUTIONED TO INVESTIGATE SITE CONDITIONS BEFORE SUBMITTING THEIR BIDS.

3 THE CONTRACTOR SHALL REFER TO THE SITE SOILS REPORT "PRELIMINARY GEOTECHNICAL ENGINEERING SERVICES, PROPOSED SITE DEVELOPMENT NWC OF BROADWAY AND MENAUL BOULEVARDS, BY WESTERN TECHNOLOGIES, INC., FOR INFORMATION RELATED TO GRADING, EXISTING SITE CONDITIONS, SUBSURFACE SOILS. ALL SCARIFYING, EXCAVATION, COMPACTION AND REPLATTED SOILS WORK SHALL BE DONE UNDER SUPERVISION OF THE CONSTRUCTION OBSERVER AND IN ACCORDANCE WITH THE EARTH WORK SPECIFICATIONS SHOWN ON THIS PLAN, PERTAINING TO LOT 'A' ONLY. THE CONSTRUCTION OBSERVER SHALL ALSO PROVIDE SOILS TESTING. ALL RETESTS DUE TO TEST FAILURES ARE TO BE PAID BY THE CONTRACTOR.

4 THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CITY AN EROSION AND DUST CONTROL PLAN AND SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION. THE COST OF REQUIRED EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT COST.

5 IN ADDITION TO THE CONSTRUCTION INSPECTION AND MANAGEMENT PROVIDED BY THE CITY FOR WORK ORDER PLAN 4271.90, A CONSTRUCTION INSPECTOR WILL BE PROVIDED ON BEHALF OF TRACT 'A', HEREIN REFERRED TO AS THE 'CONSTRUCTION OBSERVER'. THE CONSTRUCTION OBSERVER SHALL ORDER OR CONDUCT ALL NECESSARY SOILS INSPECTION AND TESTING TO INSURE CONSTRUCTION COMPLIANCE TO THIS PLAN AND TO RELATED SPECIFICATIONS. THE CONSTRUCTION OBSERVER SHALL HAVE THE RIGHT TO REJECT ANY UNSUITABLE MATERIAL

6 NOTE #6 DELETED

7 ALL TRENCHES AND EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED ACCORDING TO OSHA CONSTRUCTION SAFETY AND HEALTH STANDARDS. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED IN TRENCHES SHALLOWER THAN FIVE FEET (5'), THESE TRENCHES SHALL ALSO BE SLOPED, SHORED, OR SUPPORTED. JOB SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS (SUCH AS BARRICADING, TOPSOIL DISTURBANCE AND EXCAVATION PERMITS) NECESSARY FOR THIS PROJECT PRIOR TO COMMENCING CONSTRUCTION. THE COST FOR REQUIRED DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO EARTHWORK COSTS.

9 TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

10 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY TO THE PROJECT SCHEDULE. GAS COMPANY, PNM, US WEST AND CABLE TV UTILITIES SHALL BE THE SOLE AUTHORITY IN RULING ON THE DISPOSITION OF THEIR EXISTING LINES.

11 IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.

12 ACCESS TO LOCAL BUSINESSES AND RESIDENCES SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR NECESSARY TEMPORARY CLOSURES. TEMPORARY ACCESS CLOSURES MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE WITH THE PROPERTY OWNERS AND APPROVED BY THE CONSTRUCTION OBSERVER.

13 A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, CLEARING AND GRUBBING MATERIAL, ORGANIC MATERIAL, CONCRETE RUBBLE, AND STRUCTURES, AND ALL OTHER UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE SITE GRADING AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

14 NOTE #14 DELETED

15 OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL BE IN LOCATION PRE-APPROVED BY THE OWNER.

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 EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE AND FOR THE INFORMATION OF THE CONTRACTOR ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND/OR USING HIS OWN ESTIMATED EARTHWORK QUANTITIES WHEN PREPARING HIS BID.

18 NOTE #18 DELETED

19 CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR. THE CONTRACTOR SHALL NOT DISTURB AREAS IN WHICH NO GRADING OR CONSTRUCTION IS INDICATED.

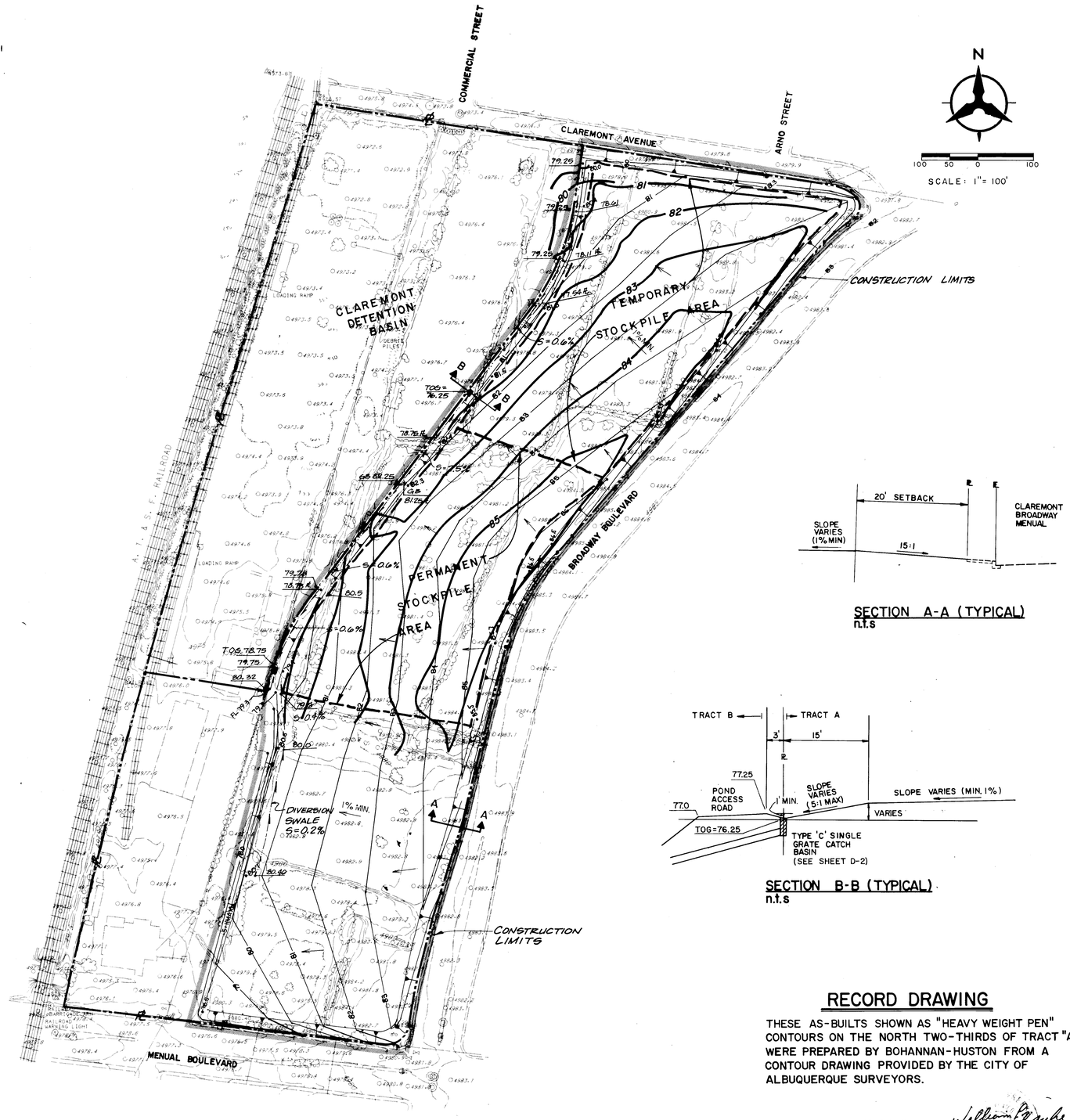
20 GRADING SHALL BE PERFORMED TO THE GRADES AND ELEVATIONS SHOWN ON THIS PLAN +/- 0.5 FT.

21 PERMANENT STOCKPILE MATERIALS SHALL BE ALLOWED AT THE LOCATIONS SHOWN ON THIS PLAN ONLY. A MAXIMUM OF 5000 CU YDS CAN BE PLACED TO A MAXIMUM HEIGHT OF 5', WITH MAXIMUM SIDESLOPES OF 1 VERTICAL TO 4 HORIZONTAL. ALL PERMANENT STOCKPILE MATERIAL SHALL BE REVEGETATED IN ACCORDANCE TO THE SEEDING SPECIFICATION FOR THE SITE GRADING.

22 THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.

ESTIMATED CONSTRUCTION QUANTITIES

CLEARING AND GRUBBING	15 ACRES
CUT AND FILL	1000 CU. YDS.
BORROW - FROM CLAREMONT DENTENION BASIN	40,000 CU. YDS.



SECTION A-A (TYPICAL)
n.t.s

SECTION B-B (TYPICAL)
n.t.s

RECORD DRAWING

THESE AS-BUILTS SHOWN AS "HEAVY WEIGHT PEN" CONTOURS ON THE NORTH TWO-THIRDS OF TRACT "A" WERE PREPARED BY BOHANNAN-HUSTON FROM A CONTOUR DRAWING PROVIDED BY THE CITY OF ALBUQUERQUE SURVEYORS.

26 4271.903495

William P. Gallegos 8131 12/19/94 REGISTERED PROFESSIONAL ENGINEER

SEAL | SURVEY INFORMATION | BENCH MARKS | AS BUILT INFORMATION

NO. | BY | DATE | FIELD NOTES

CONTROL STATION NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM 47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, NW. LOCATION IS 400 SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

CONTRACTOR AMCI
STAKED BY COA
FIELD CHK'S
ACCEPTANCE BY AA:12 DATE 12/94
AS-BUILT BY COA DATE
CERTIFICATION BY AA:12 DATE
DRAWINGS SUBMITTED BY AA:12 DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL

NO. | DATE | REMARKS | BY
REVISIONS
DESIGN

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

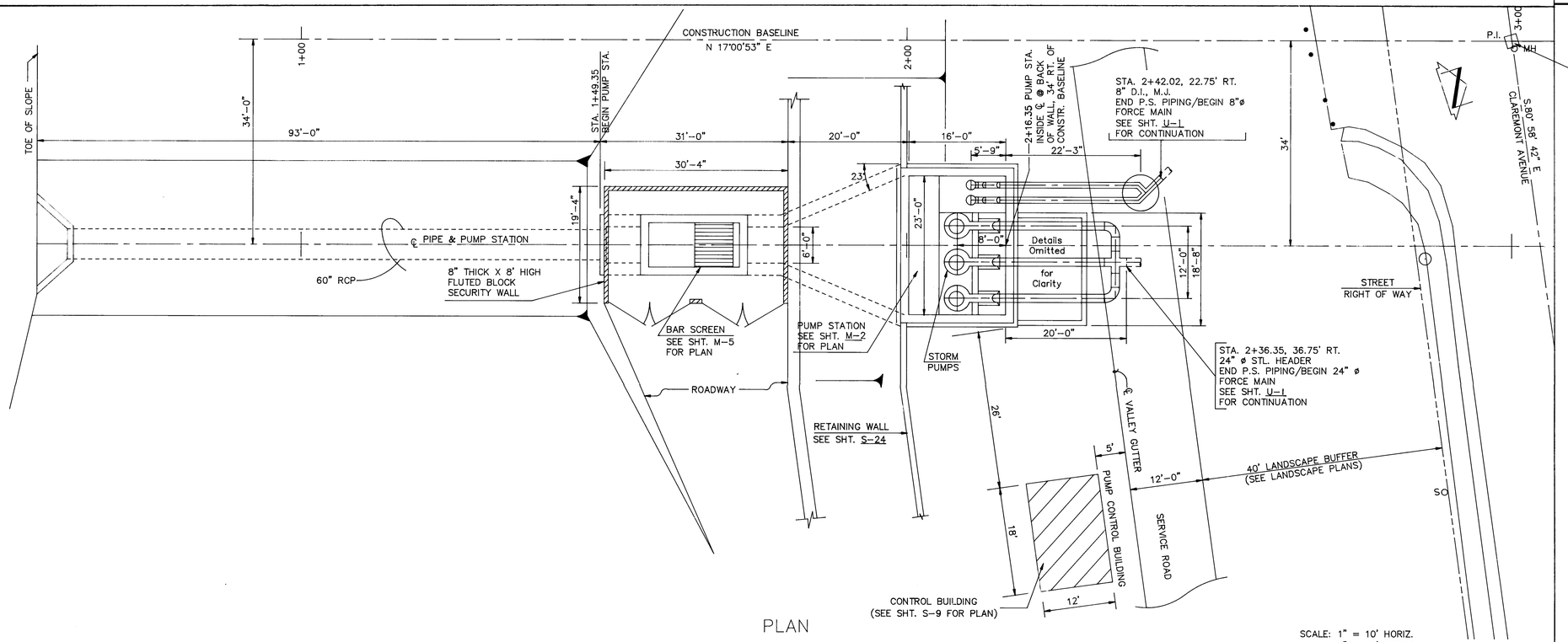
CLAREMONT, CANDELARIA & 2nd STREET NORTH
STORM DRAINAGE IMPROVEMENTS PHASE ONE
TRACT 'A' GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.A. Cobley	2-18-93	WATER	N.A. Hyb	12-23-93
TRANSPORTATION	U.A. Lno	12-23-92	WASTE WATER	N.A. Hyb	12-23-93
HYDROLOGY	Steve Cobley	1.20.93			

DRAWING NO. 4271.90 | MAP NO. | SHEET D-8 OF

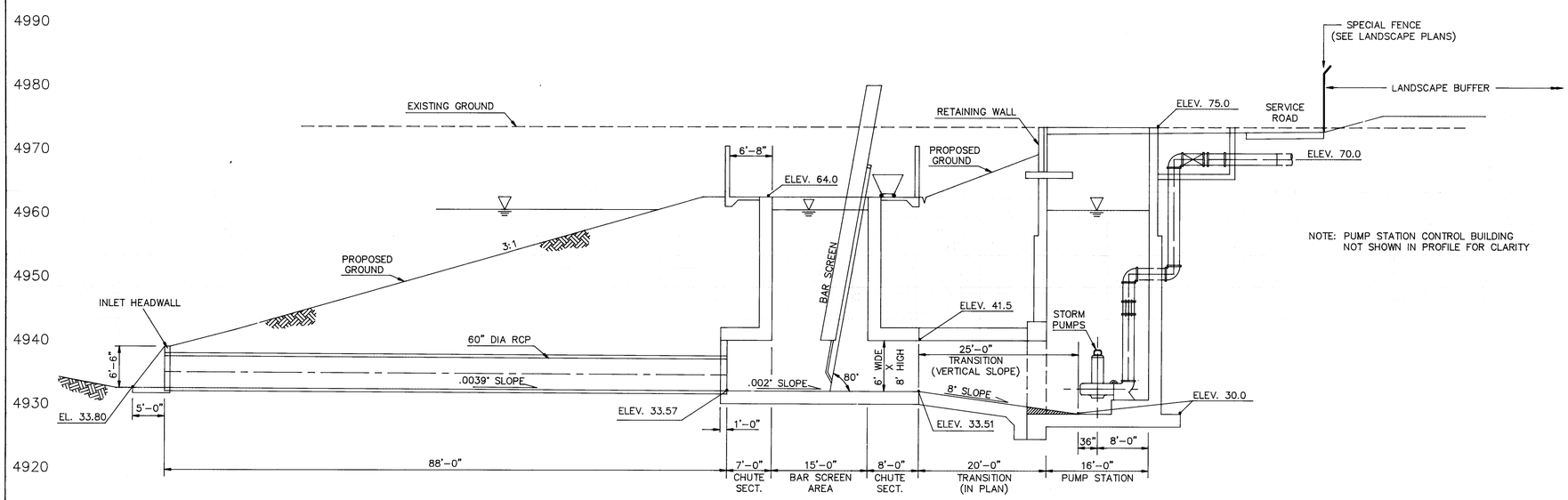
SCANNED BY BY LASON

RECORD DRAWINGS 12/94



PLAN

SCALE: 1" = 10' HORIZ.
1" = 10' VERTICAL



PROFILE

26 4271.903595

NOTES

QUANTITIES AND PAYMENT

A. Pump Station Mechanical

Payment for the "Pump Station Mechanical, complete in place" shall be made at the lump sum price. All associated work, including, but not limited to pumps, bar screen, piping, fittings, valves, manholes, and all appurtenances required, shall be included in the lump sum. The intent is for inclusion of all mechanical items under the lump sum. The estimated plan quantities for various items are given for the Contractor's information only, and shall not be the basis for payment.

Main Pumps	4 ea. *
Sump Pumps	2 ea.
Bar Screen, Traveling	1 ea.
20" Swing Check Valves, Flg.	1 ea.
20" Butterfly Valves, Flg.	3 ea.
4" Air/Vac Valves	3 ea.
2" Air/Vac Valves	2 ea.
DI & Steel Piping (See M-2)	

B. Control Building Mechanical

Payment for the "Control Building Mechanical, complete in place" shall be made at the lump sum price. All associated work, including, but not limited to roof exhaust fan, wall louver, forced-air heater, and all appurtenances required, shall be included in the lump sum. The intent is for inclusion of all mechanical items under the lump sum. The estimated plan quantities for various items are given for the Contractor's information only, and shall not be the basis for payment.

Roof Exhaust Fan	1 ea.
Wall Louver	1 ea.
5 KW Wall Heater	1 ea.

* The 2 additional main pumps were installed on 2nd Street and Odelia Storm Drain Project 4272.90.

SURVEY INFORMATION
FIELD NOTES

NO	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

BENCH MARKS
CONTROL STATION: NM47-11 E.L.EV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

AS BUILT INFORMATION
A. MAY - APPD. - RMC
INSPT. - C.O.A. - DATE 12/94
AS-BUILTED BY: AH - DATE
AS-BUILTED BY: C.O.A. - DATE
AS-BUILTED BY: AH - DATE
MICRO-FILM INFORMATION
MF - REEL #
NO.

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
8/25/92

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	D.D.B.
	DATE 3-92		
		DRAWN BY	J.G.L.
	DATE 3-92		
		CHECKED BY	D.D.B.
	DATE 8-92		

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE
PUMP STATION PLAN AND PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B.G. Lindsley	2-18-93			
Trans. Dev.	N/A PHD	9-24-92			
Utility Dev.	N/A MDP	9-24-92			
HYDROLOGY	Steve Sobers	1-19-93			

DRAWING NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET M-1 OF

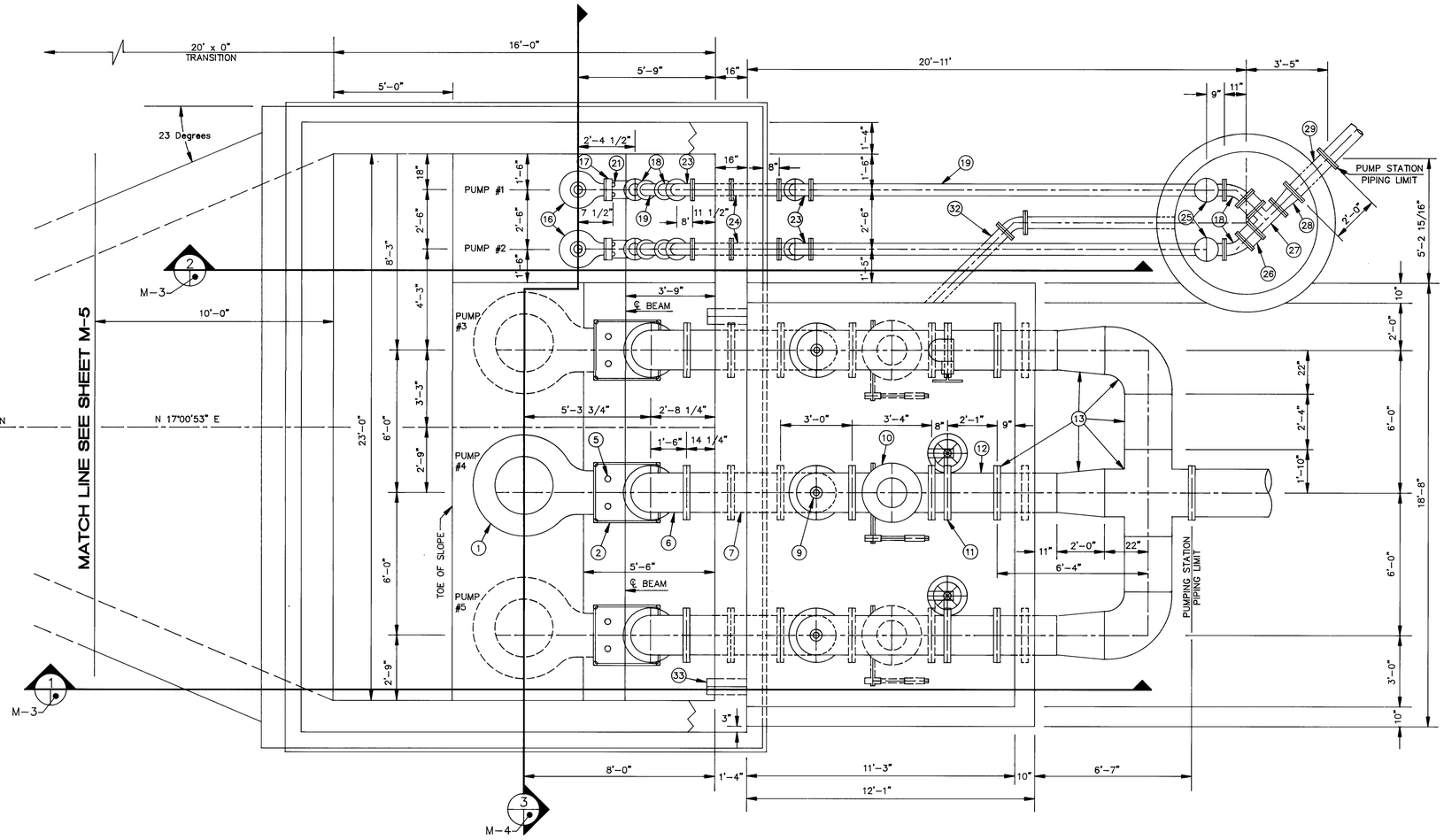
CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SCANNED BY BY LASON

Richard Lovato
RECORD DRAWINGS 12/94

PUMP10 08/20/92 08:14:47

148413



PIPING PLAN

SCALE: 3/8" = 1'-0"

PIPE SCHEDULE

1. — PRIMARY STORM WATER PUMP (SUBMERSIBLE)
2. 20" — STORM WATER PUMP DISCHARGE BASE
3. 20" — D.I. PIPE FL x PE
4. 20" — RESTRAINED DRESSER COUPLINGS
5. 3" — GUIDE BARS AS PER PUMP MANUFACTURER
6. 20" — 90° BEND w/ FLANGED JOINTS
7. 20" — D.I. WALL PIPE w/ FLANGED JOINTS CAST IN WALL
8. 20" — D.I. PIPE w/ FLANGED JOINTS
9. 4" — AIR & VACUUM RELIEF VALVE ASSEMBLY
10. 20" — CHECK VALVE w/ FLANGED JOINTS
11. 20" — BUTTERFLY VALVE w/ FLANGED JOINTS
12. 20" D.I. PIPE SPOOL w/ FLANGED JOINTS
13. 20" x 24" STEEL HEADER PIPE MANIFOLD w/ WELDED JOINTS AND FLANGED END
14. 20" — GUIDE BAR SUPPORT BRACKETS
15. — INTERMEDIATE GUIDE BAR SUPPORTS
16. — SECONDARY STORM WATER (SUMP) PUMP (SUBMERSIBLE)
17. 6" — STORM WATER PUMP DISCHARGE BASE
18. 6" — 45° BEND w/ FLANGED JOINTS
19. 6" — D.I. PIPE w/ FLANGED JOINTS
20. 6" — D.I. PIPE FL X PE
21. 2" — GUIDE BARS AS PER PUMP MANUFACTURER
22. 6" — RESTRAINED DRESSER COUPLINGS
23. 6" — 90° BEND w/ FLANGED JOINTS
24. 6" — D.I. WALL PIPE w/ FLANGED JOINTS CAST IN WALL
25. 2" — AIR & VACUUM RELIEF VALVE ASSEMBLY
26. 6" — CHECK VALVE w/ FLANGED JOINTS
27. 6" x 6" x 6" — TEE w/ FLANGED JOINTS
28. 6" x 8" — REDUCER w/ FLANGED JOINTS
29. 8" — D.I. PIPE FL x MJ
30. 6" — GUIDE BAR SUPPORT BRACKETS
31. — INTERMEDIATE GUIDE BAR SUPPORTS
32. 6" — D.I. DRAIN PIPE w/ 45° ELBOW
33. 8" X 20" LONG D.I. DRAIN PIPE THROUGH WALL

26 4271.903695

SCANNED BY LASER

NOTES

1. Construction of Main Stormwater Pumps and Piping. This project is intended to provide complete discharge piping for all three (3) main pumps, including the discharge elbow, guiderails, bracing, piping and all appurtenances. Pump #4 will be installed at this time, and all piping and valves will be completed. Pump #3 and #5 will * not be installed at this time so the discharge piping for Pumps No. 3 and 5 will be modified in this contract. The 20" diameter swing check valves in the valve pit will not be installed for pumps No. 3 and No. 5, and instead, a 20" diameter flanged, spool piece will be installed.

* *Pumps No 3 and 5 were installed under 2nd Street and Odelia Storm Drain Project 4272.90. @ C.O. #1*

AS BUILT INFORMATION
CONTRACTOR AMC
INSPECTED BY COA DATE 2/94
INSPECTORS
FIELD CHANGE BY AA:R DATE
FIELD VERIFICATION BY COA DATE
DRAWING CHANGES AA:R DATE
CORRECTED BY MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
9/25/92

NO.	REMARKS	DATE	BY
	REVISIONS		
	DESIGNED BY P.D.B.	DATE 3-92	
	DRAWN BY T.G.L.	DATE 3-92	
	CHECKED BY P.D.B.	DATE 8-92	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION PIPING PLAN AND SCHEDULE**

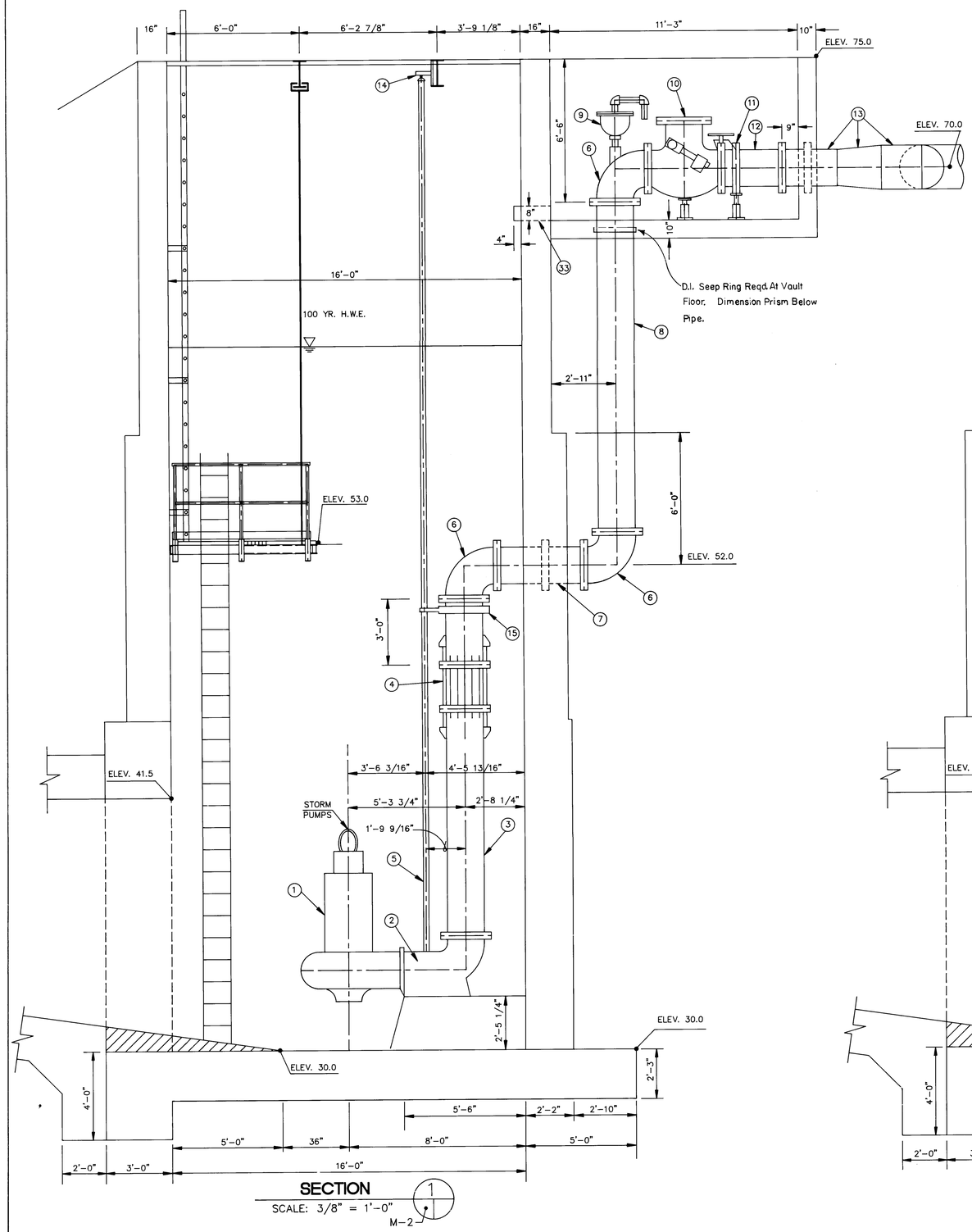
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.A. Hoadley	2-18-93	WATER	N/A	
TRANSPORTATION	N/A RHD	9.24.92	WASTE WATER	Greg B	9-24-92
HYDROLOGY	Steve Lobeg	1.19.93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET M - 2 OF

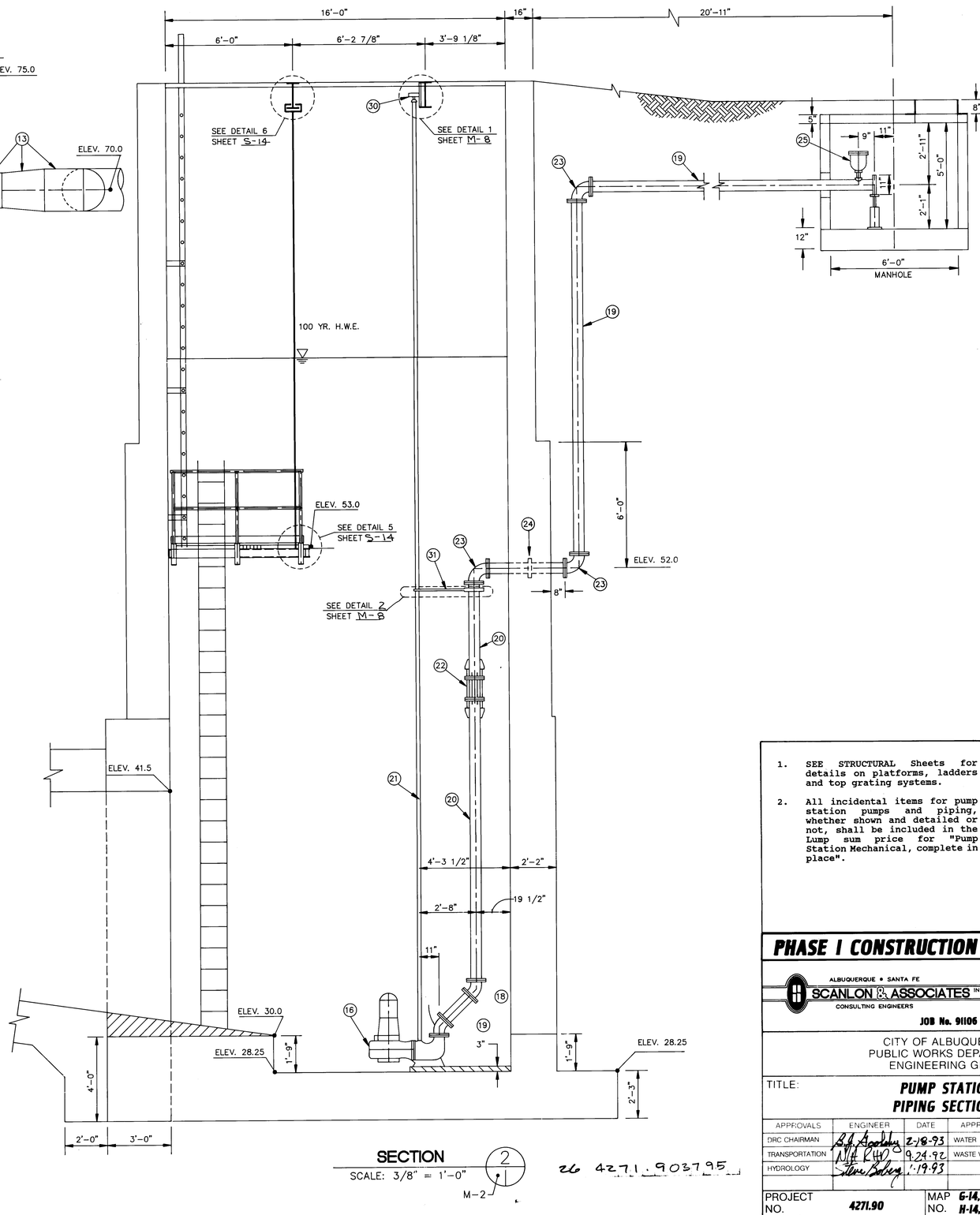
Richard Lovato
RECORD DRAWINGS 12/94

PWEC-RTZ 08/20/92 17:15:22

148413



SECTION
SCALE: 3/8" = 1'-0"
1 / M-2



SECTION
SCALE: 3/8" = 1'-0"
2 / M-2

26 4271.903795

PLANNED BY R.L.A.D.N.

Richard Forth
RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR R.D.S.C. DATE 12/94
WORK STAKED BY COA
INSPECTED BY R.A.B.R. DATE
FIELD REVISION BY C.D.A. DATE
DRAWINGS CORRECTED BY A.B.R. DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
DONALD D. BOARD NEW MEXICO 9674 REGISTERED PROFESSIONAL ENGINEER
8/25/92

NO.	DATE	REMARKS	BY
REVISIONS		DESIGN	
		DESIGNED BY D.D.B.	DATE 3-92
		DRAWN BY J.G.L.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

1. SEE STRUCTURAL Sheets for details on platforms, ladders and top grating systems.
2. All incidental items for pump station pumps and piping, whether shown and detailed or not, shall be included in the lump sum price for "Pump Station Mechanical, complete in place".

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

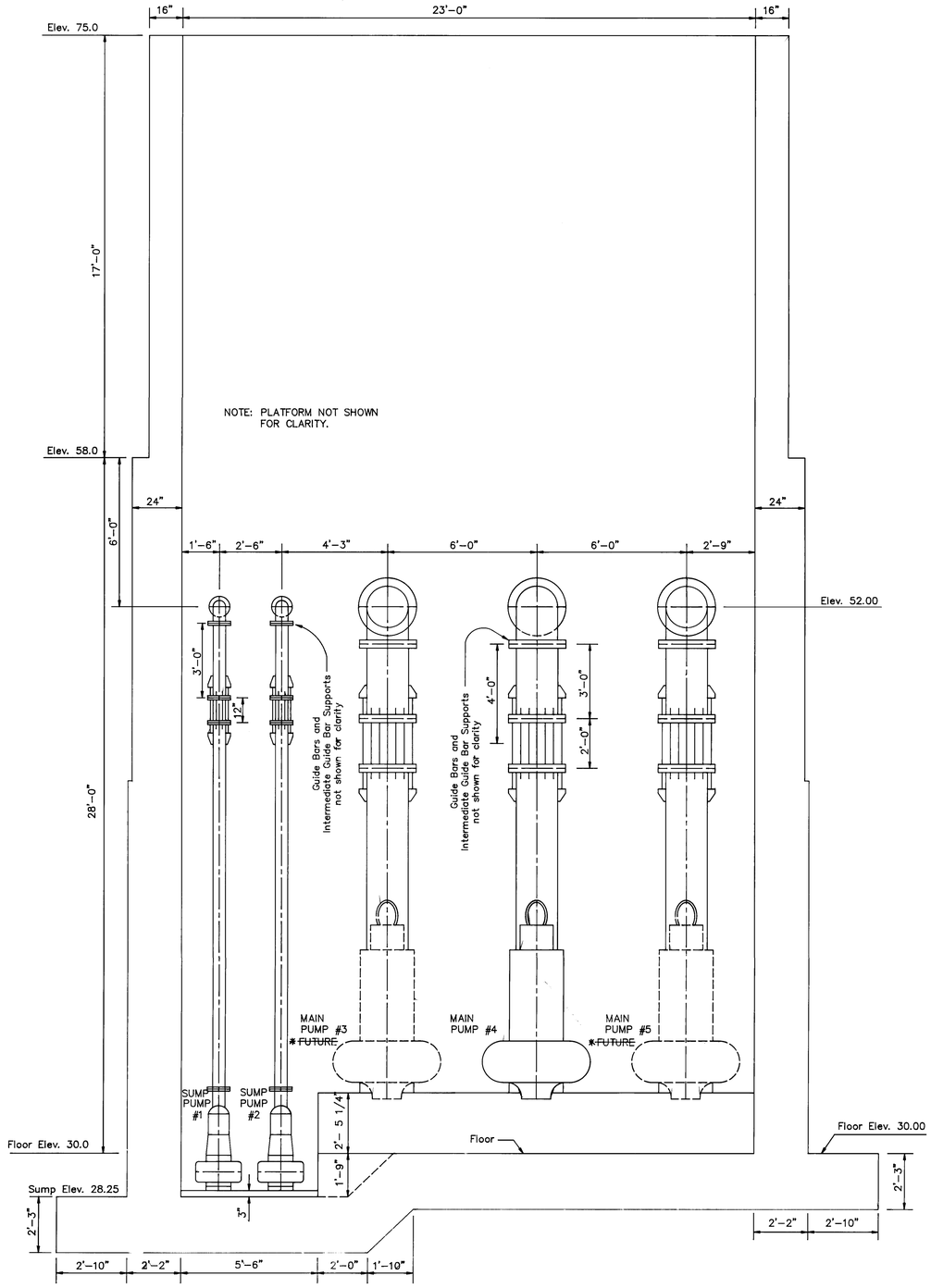
TITLE: **PUMP STATION PIPING SECTIONS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	9-21-92
TRANSPORTATION	[signature]	9.24.92	WASTE WATER		
HYDROLOGY	Steve Boberg	1-19-93			

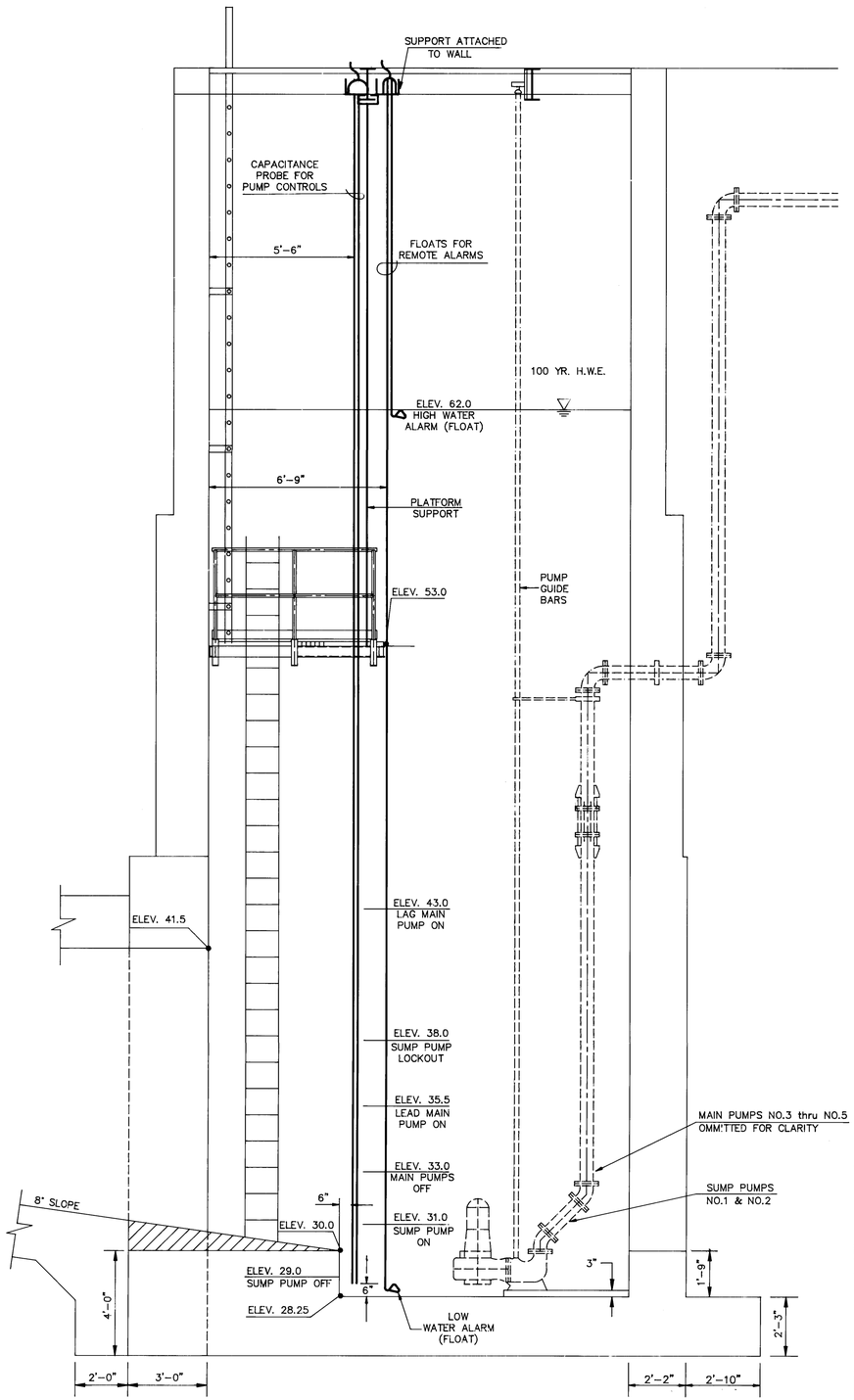
PROJECT NO. 4271.90
MAP NO. G-14, 15 / H-14, 15
SHEET M - 3 OF

PUMPS APRIL 5, 1992

148413



SECTION
SCALE: 3/8" = 1'-0"
3 / M-2



SECTION SHOWING PUMP CONTROLS
SCALE: 3/8" = 1'-0"
2 / M-2

26 4271.903895

SCANNED BY

NOTES

* Pumps No. 3 and 5 were installed on 2nd and Odelia Storm Drain Project 4272.90 @ C.O #1

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTORS
FIELD TOLERANCE BY BA.I.C DATE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY BA.I.C DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID D. RAMO
N.M. NEW MEXICO
8/25/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 3-92
		DRAWN BY J.G.L.	DATE 3-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9110.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
PUMP STATION
PIPING SECTION AND PUMP CONTROLS

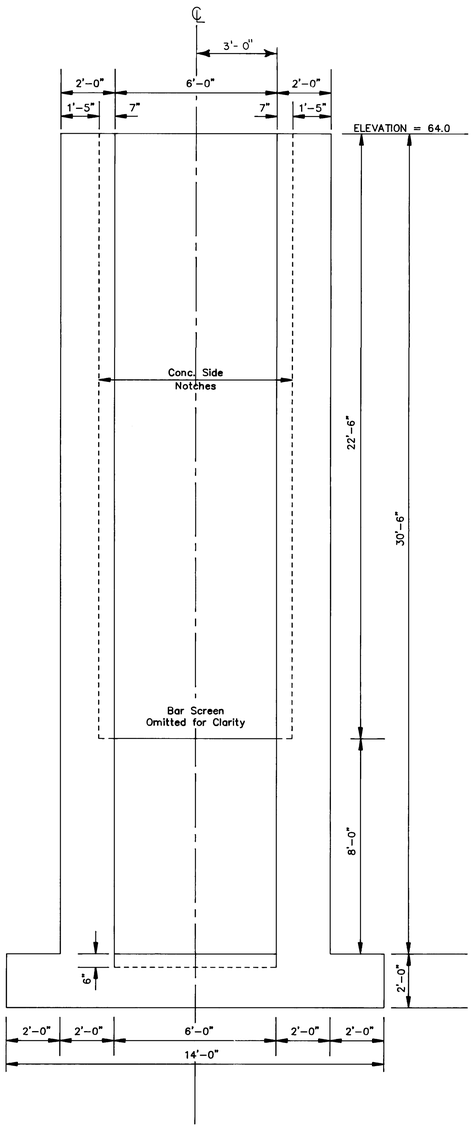
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER		
TRANSPORTATION	N/A RHD	9-24-92	WASTE WATER	N/A 3rdB	9-24-92
HYDROLOGY	[signature]	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF M - 4

PUMP-SEC 08/21/92 08:36:31

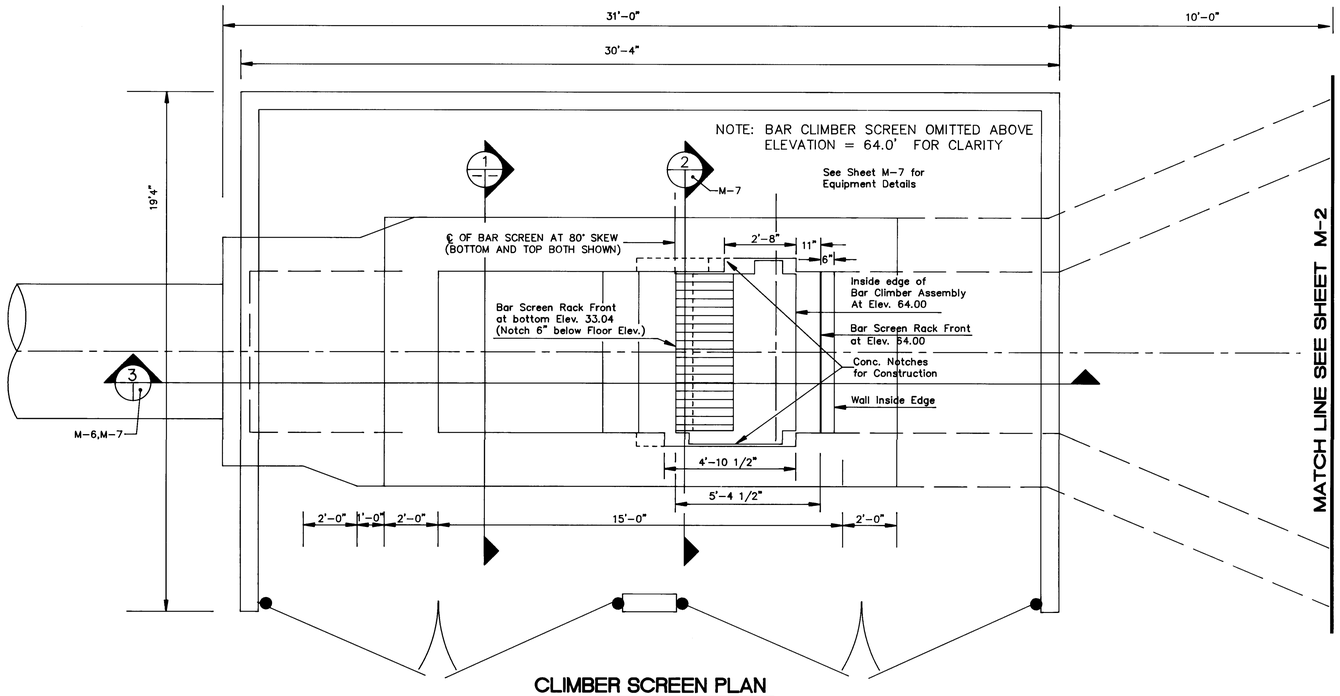
[signature]
RECORD DRAWINGS 12/94

148413



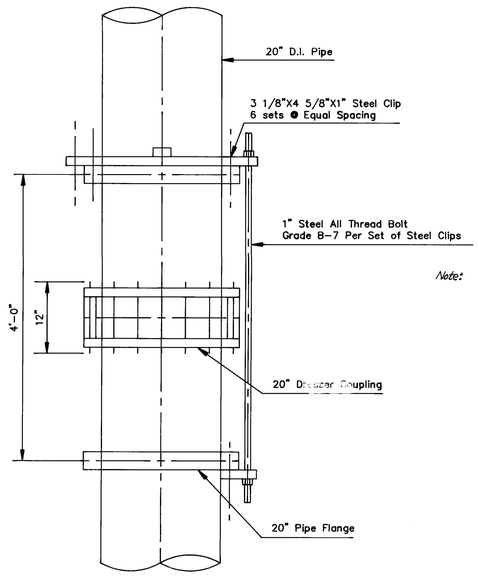
SECTION 1

SCALE: 3/8" = 1'-0"



CLIMBER SCREEN PLAN

SCALE: 3/8" = 1'-0"



Note: *Pipe Restraint Detail as shown is an design for the 20" dia. Ductile Iron Pipe in the Pump Station Risers. Alternate arrangements, as meet Standard Industry Practice and Manufacturer's Recommendations and/or as detailed and certified by an Engineer familiar with the design Requirements, are acceptable for use in these locations. "MEGALUG" Restraint Joints are one acceptable alternative.*

DUCTILE IRON PIPE RESTRAINT DETAIL

SCALE: 1" = 1'-0"

26 4271.903995

NOTES

1. SEE STRUCTURAL Sheets for details on platforms, ladders and top grating systems.
2. All incidental items for the pump station mechanical bar screen shall be included in the Lump sum price for "Pump Station Mechanical, complete in place".

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK PERFORMED BY COA DATE 12/94
INSPECTORS ACCEPTANCE BY AA'R DATE
FIELD VERIFICATION BY COA DATE
CORRECTIONS COMPLETED BY AA'R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL

DONALD D. BRAND NEW MEXICO 14729 REGISTERED PROFESSIONAL ENGINEER
2/5/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 3-92
		DRAWN BY J.G.L.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION**
BAR SCREEN PLAN, SECTIONS, AND MISC. DETAILS

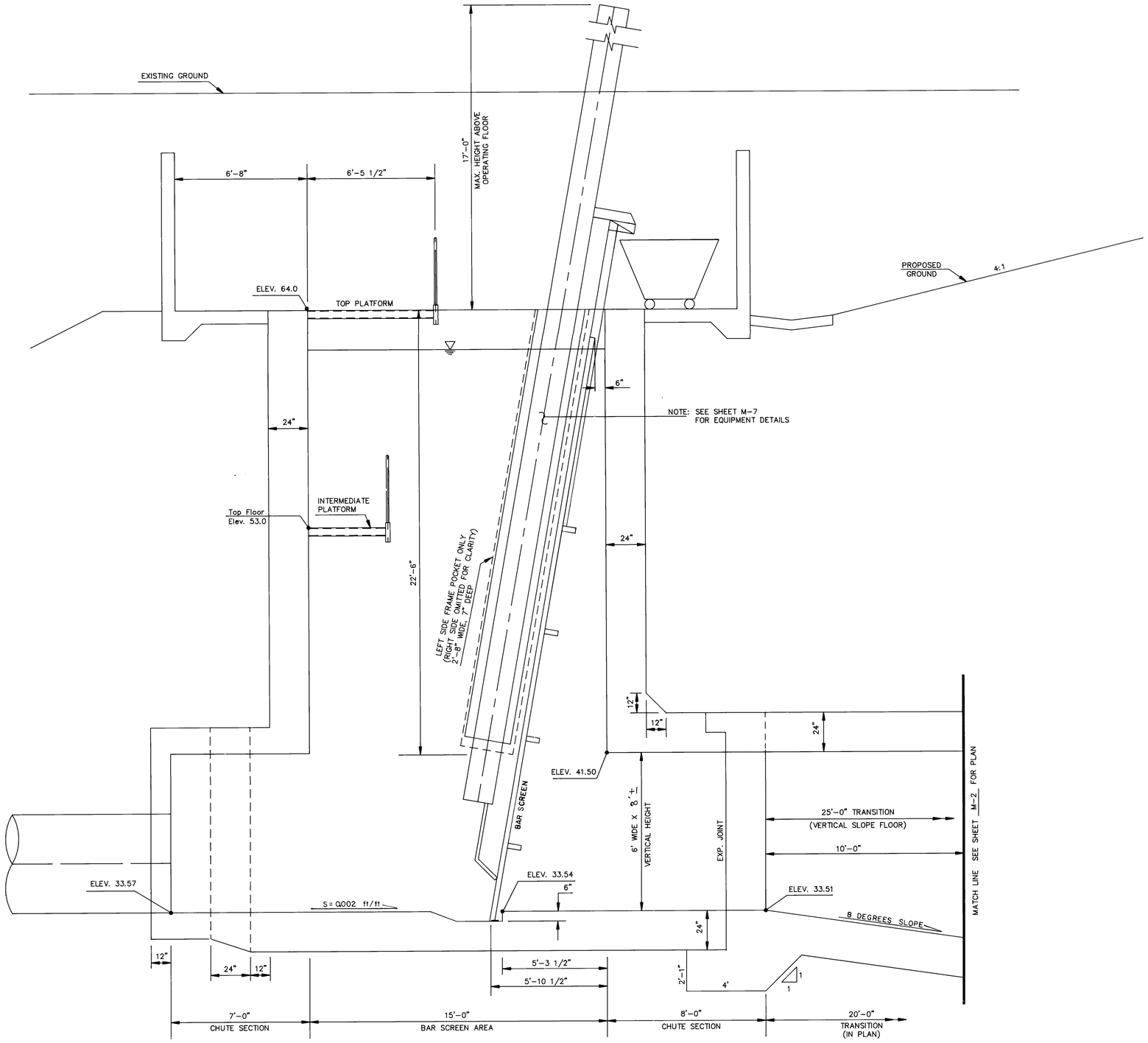
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.A. Goodloe	2-18-93	WATER	N/A MJB	9-24-92
TRANSPORTATION	N/A RHO	9.24.92	WASTE WATER		
HYDROLOGY	Steve Boberg	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET M - 5 OF

Richard Frost
RECORD DRAWINGS 12/94

30-11-07 APR. 7, 1993

148413



SECTION 3
SCALE: 3/8" = 1'-0"
M-5

NOTES

1. SEE STRUCTURAL Sheets for details on platforms, ladders and top grating systems.
2. All incidental items for the pump station mechanical bar screen shall be included in the Lump sum price for "Pump Station Mechanical, complete in place".

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
ACCEPTED BY COA DATE
INSPECTORS
ALIGNMENT BY AA/P DATE
FIELD
VERIFICATION BY COA DATE
DRAWINGS
CORRECTED BY AA-P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
DONALD D. BRAND 8125/92

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 3-92
		DRAWN BY J.G.L.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
PUMP STATION
BAR SCREEN AREA SECTION AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9-24-92	WASTE WATER	N/A	9-24-92
HYDROLOGY		1-19-93			

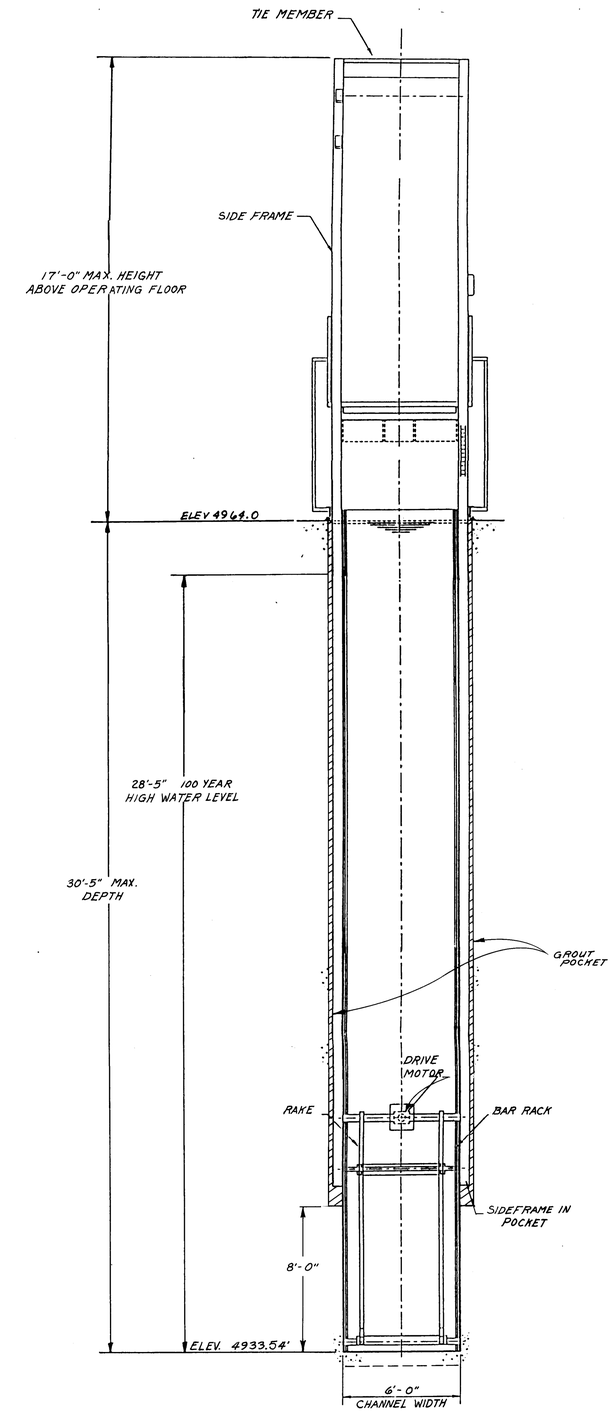
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET M - 6 OF

BAR-SCR APR. 5, 1993 07:23:54

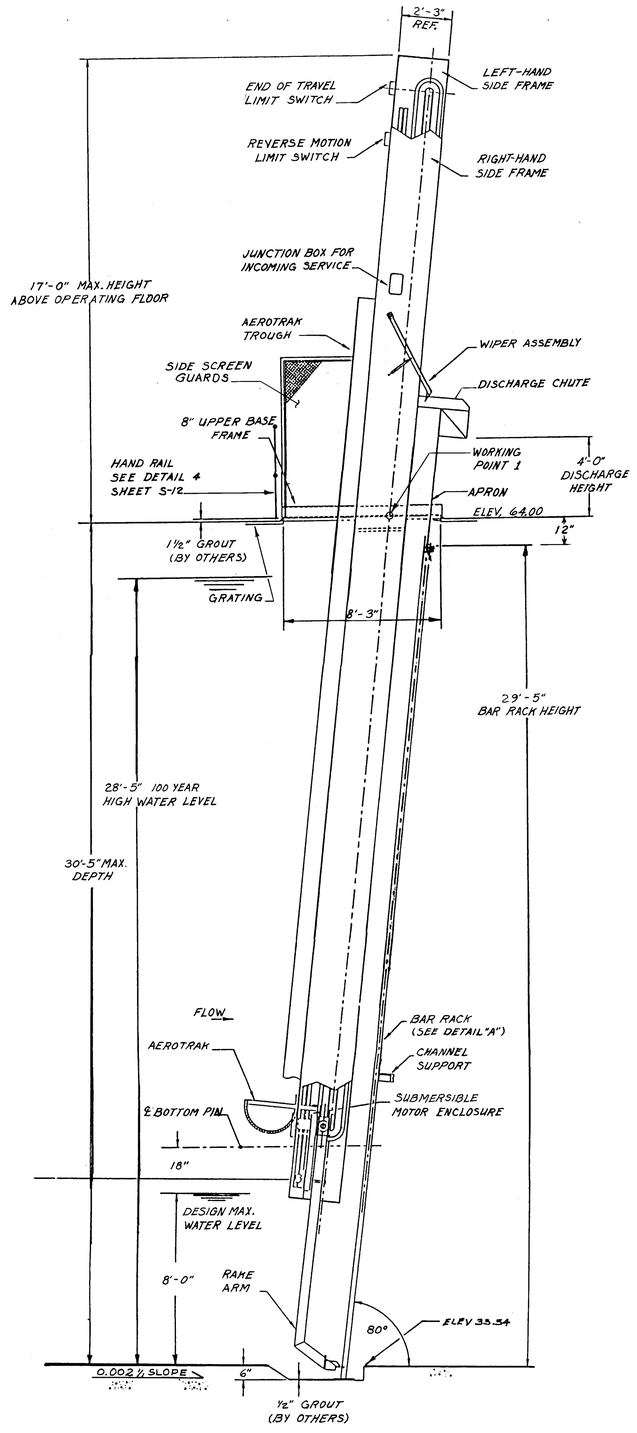
26 4271.904095

SCANNED BY BY LASON

Richard Lovato
RECORD DRAWINGS 12/94



2 CLIMBER SCREEN-ELEVATION
NOT TO SCALE
M-5



3 CLIMBER SCREEN-SECTION
NOT TO SCALE
M-5

NOTES

1. Equipment shown is Infilco Degremont, Inc. - Type IIS traveling bar screen. Alternate equipment may require dimensional revisions.
2. All incidental items required for the pump station mechanical bar screen shall be included in the Lump sum price for "Pump Station Mechanical, complete in place".

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA DATE
INSPECTED BY AAG/P DATE
FIELD DEVIATIONS BY COA DATE
CORRECTED BY AAG/P
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DARRELL D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
8/25/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 4-92
		DRAWN BY G.W.C.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION**
BAR CLIMBER SCREEN DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	S.G. Scanlon	2-18-93	Water		
Trans. Dev.	MARTIN	9.24.92	Waste Water	N/A MOD	9-24-92
Hydrology	Steve Zebley	1.19.93			

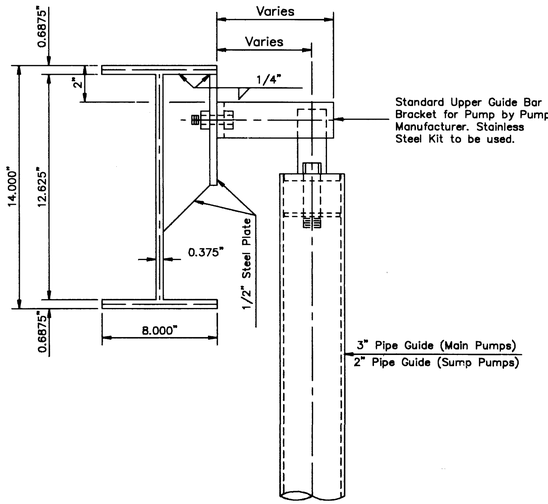
PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET OF M-7

26 4271.904195

SCANNED BY LASON

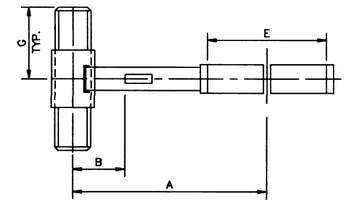
Richard Smith
RECORD DRAWINGS 12/94

136343



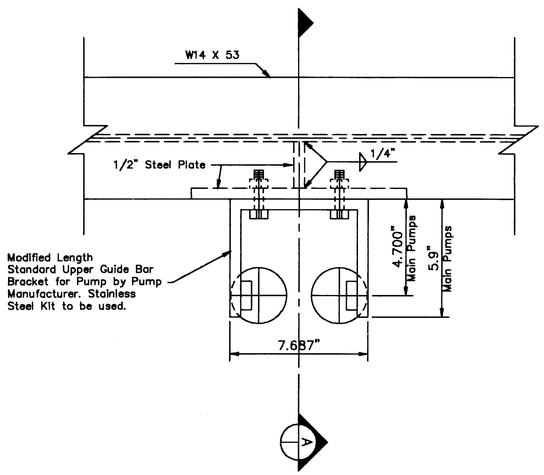
SECTION A

NOT TO SCALE



SECTION A

NOT TO SCALE



DETAIL 1

PLAN - UPPER GUIDE BAR BRACKET

NOT TO SCALE

DIMENSIONS

PUMP No. DESCRIPTION	A	B	C	D	E	F	G
1 & 2 SUMP		3"	6 5/16"	3 15/16" ± 1/16"	6"	2"	3 1/2"
3,4, & 5 MAIN	21 5/8"	4 3/4"	8 3/8"	4 7/8" ± 1/16"	20 13/16"	3"	3 1/2"

DETAIL 2

PLAN - INTERMEDIATE GUIDE BAR BRACKET

NOT TO SCALE

1. Upper and Intermediate Guide Bar Brackets shall be provided for each Pump and shall be supplied by Pump Manufacturer. Guide Bar Brackets shall be Stainless Steel Construction if available.

2. Furnish a Safety/Recovery System for each Pump. The Safety/Recovery System shall be Pump Manufacturer's Standard Device for the Pumps supplied and shall be appropriately sized to lift each Pump. mechanical hoist shall be furnished by others.

26 4271.904295

SCANNED BY R+Y LASON

AS BUILT INFORMATION
CONTRACTOR RDM DATE 2-94
VERIFIED BY CDA DATE 4-94
INSPECTORS ACCEPTANCE BY CDA DATE 4-94
FIELD VERIFICATION BY CDA DATE 4-94
DRAWINGS CHANGED BY CDA DATE 8-94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DENNIS D. R. LIMS 8/27/92
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 4-92
		DESIGNED BY D.D.B.	DATE 4-92
		DRAWN BY J.G.L.	DATE 8-92
		CHECKED BY D.D.B.	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION MISCELLANEOUS PUMP DETAILS**

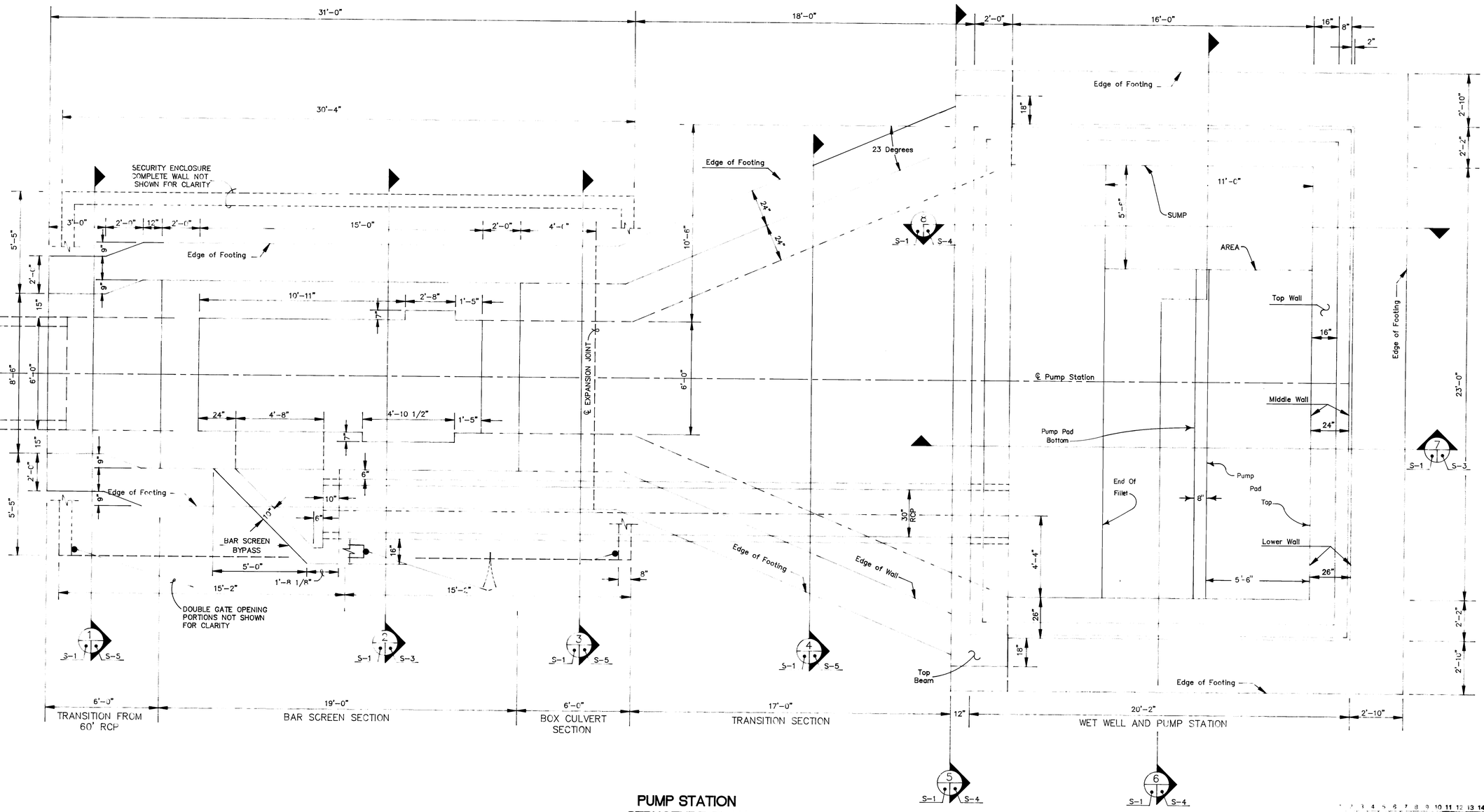
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G. Lovato	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY	Steven Sobey	1-19-93			

PROJECT NO. 4271.90 | MAP NO. G-14, 15 H-14, 15 | SHEET M - 8 OF

Richard Lovato
RECORD DRAWINGS 12/94

MISC-DET 08/28/92 07:42:14
ALBFULL 08/27/92 13:15:53

148413



PUMP STATION
STRUCTURE PLAN

SCALE: 3/8" = 1'-0"

NOTES:

Concrete construction shall be in accordance with ACI–301, latest edition, and as modified by the contract documents. Reinforcing bar spacing is center to center of bars. Bar cover is clear distance between surface of bar and face of concrete and shall be a minimum of two inches for formed and top surfaces and three inches for surfaces placed against the earth unless otherwise shown.

Reinforcing bars shall be detailed by the Contractor in conformance with the most current editions of ACI–318, ACI–315 and ACI–315R. The Contractor shall submit reinforcement placement drawings (shop drawings) for Engineer's review before beginning fabrication of the reinforcement. Where splice lengths are not shown on the plans, Class "C" splices with a multiplier of 0.8 shall be used. Bar bends shall conform to ACI–318, Chapter 7, with 90 and 180 degree hooks having a minimum extension as set forth in Section 7.1 of ACI–318.

QUANTITIES AND PAYMENT

1. PUMP STATION STRUCTURAL - Payment for the "Pump Station Structural, complete in place", shall be made at the Lump sum price. All associated structural, architectural and general work on the pump station, including, but not limited to reinforced concrete, joints, platforms & support steel, bar grating, safety ladders and handrails, imbedment plates, CMU wall & fence gates, 30" RCP pipe, structural excavation, backfill and compaction and all appurtenances, shall be included in the Lump sum. The estimated plan quantities for various items are given for the Contractor's information only, and shall not be the basis for payment.

Reinforced Concrete, 4000 psi	610 cu. yds.
Joints (Exp. & Contr.)	652 lin. ft.
Galv. Steel Bar Grating	662 sq. ft.
Structural Steel	8960 lbs.
CMU Wall 8"x16" units	552 sq. ft.
Fence Gates	232 sq. ft.
Structural Excavation	9800 cu. yds.
Structural Backfill & Compaction	10400 cu. yds.

STRUCTURAL DESIGN DATA

DESIGN IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI–318–89) "BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE" AND TECHNICAL RELEASE NO. 67(8/80). BY U.S.D.A. SOIL CONSERVATION SERVICE, AND AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION". 9TH EDITION.

REINFORCED CONCRETE (STRENGTH DESIGN)
f'c = 4000 psi @ 28 days: n = 8
fy = 60,000 psi

REINFORCING STEEL: ASTM A–615 GRADE 60

STRUCTURAL STEEL: ASTM A–36, A–53, A–500 & A–501
BUILDING DESIGN SHALL BE IN ACCORDANCE WITH UBC 30/25.

ALL SOILS LOADING AND ALLOWABLE SOIL PRESSURES ARE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT ENTITLED "CLAREMONT DETENTION BASIN---
BY "GEO–TEST, INC." 1242 'SILER' ROAD, SANTA FE, NEW MEXICO.

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTORS
ACCEPTANCE BY AA 12 DATE
FIELD LOCATION BY COA DATE
DRAWINGS CORRECTED BY AA 12 DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47–11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47–11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE, N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
RICHARD B. BRAND NEW MEXICO 9452 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DDB	DATE 3-92
		DRAWN BY JGL	DATE 4-92
		CHECKED BY DDB	DATE 8-92

26 4271.90 4395

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE **PUMP STATION STRUCTURE PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G. Loveless	2-18-93	WATER		
TRANSPORTATION	N/A PW	9-24-92	WASTE WATER	N/A BOB	4-24-92
HYDROLOGY	Steve Boling	1-19-93			

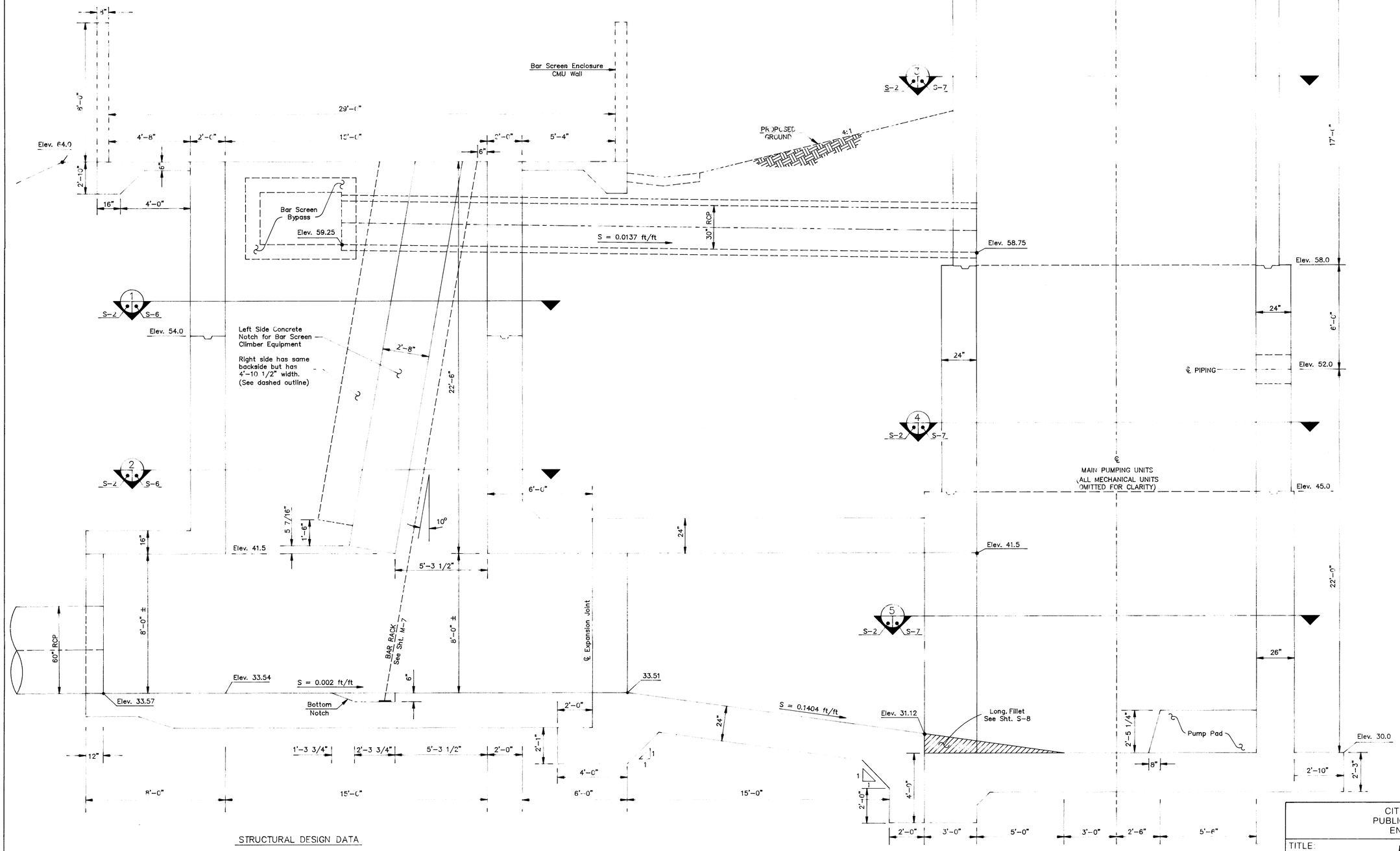
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S - 1

STRUDLY APR. 6, 1992 10:08:11

SCANNED BY LASON

Richard Frost
RECORD DRAWINGS 12/94

148413



STRUCTURAL DESIGN DATA

DESIGN IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI-318-89) "BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE" AND TECHNICAL RELEASE NO. 67(6/80). BY U.S.D.A. SOIL CONSERVATION SERVICE, AND AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION". 9TH EDITION.

REINFORCED CONCRETE (STRENGTH DESIGN)
fc = 4000 psi @ 28 days: n = 8
fy = 60,000 psi

REINFORCING STEEL: ASTM A-615 GRADE 60

STRUCTURAL STEEL: ASTM A-36, A-53, A-500 & A-501 BUILDING DESIGN SHALL BE IN ACCORDANCE WITH UBC 30/25.

ALL SOILS LOADING AND ALLOWABLE SOIL PRESSURES ARE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT ENTITLED "CLAREMONT STEEL DETENTION BASIN ----" BY "GEO-TEST, INC." 1242 SILER ROAD, SANTA FE, NEW MEXICO.

PUMP STATION STRUCTURE ELEVATION

SCALE: 3/8" = 1'-0"

2.6 4271 1910441915

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

AS BUILT INFORMATION
CONTRACTOR ADMCI DATE 12/94
INSPECTED BY COA
ACCEPTANCE BY AA1.2 DATE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY AA1.2 DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
DAVID D. BANKS NEW MEXICO PROFESSIONAL ENGINEER 12/5/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		D.D.B.	DATE 3-92
DRAWN BY		D.D.B.	DATE 4-92
CHECKED BY		D.D.B.	DATE 8-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION STRUCTURE ELEVATION**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.J. Lowsley	2-18-93	WATER		
TRANSPORTATION	N/A RWD	2-24-93	WASTE WATER	N/A	4-29-93
HYDROLOGY	Steve Soberg	1-19-93			

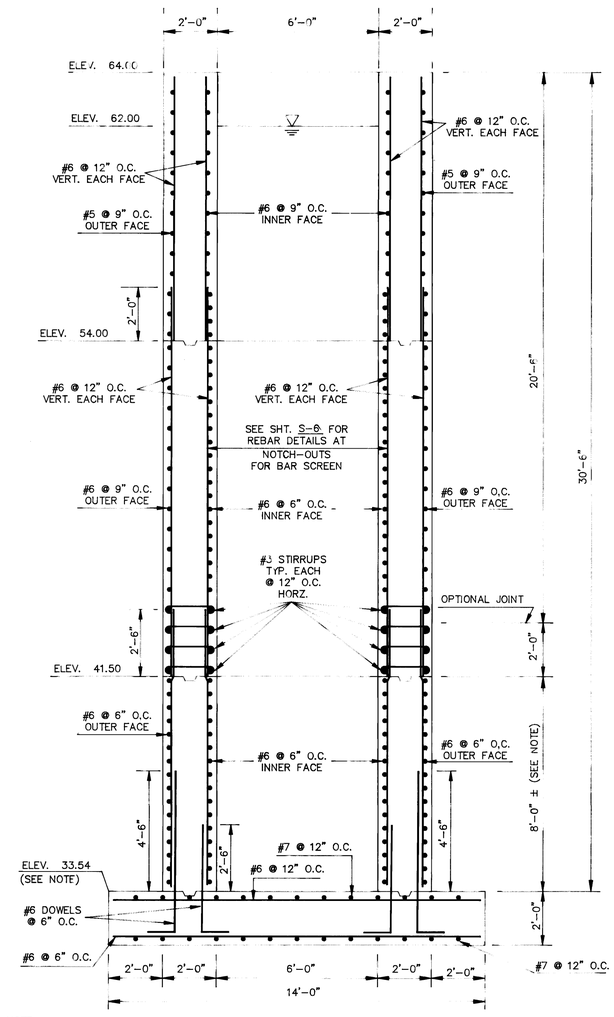
PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET 5 - 2 OF

CHANGED BY AA1.2

Richard Forst
RECORD DRAWINGS 12/94

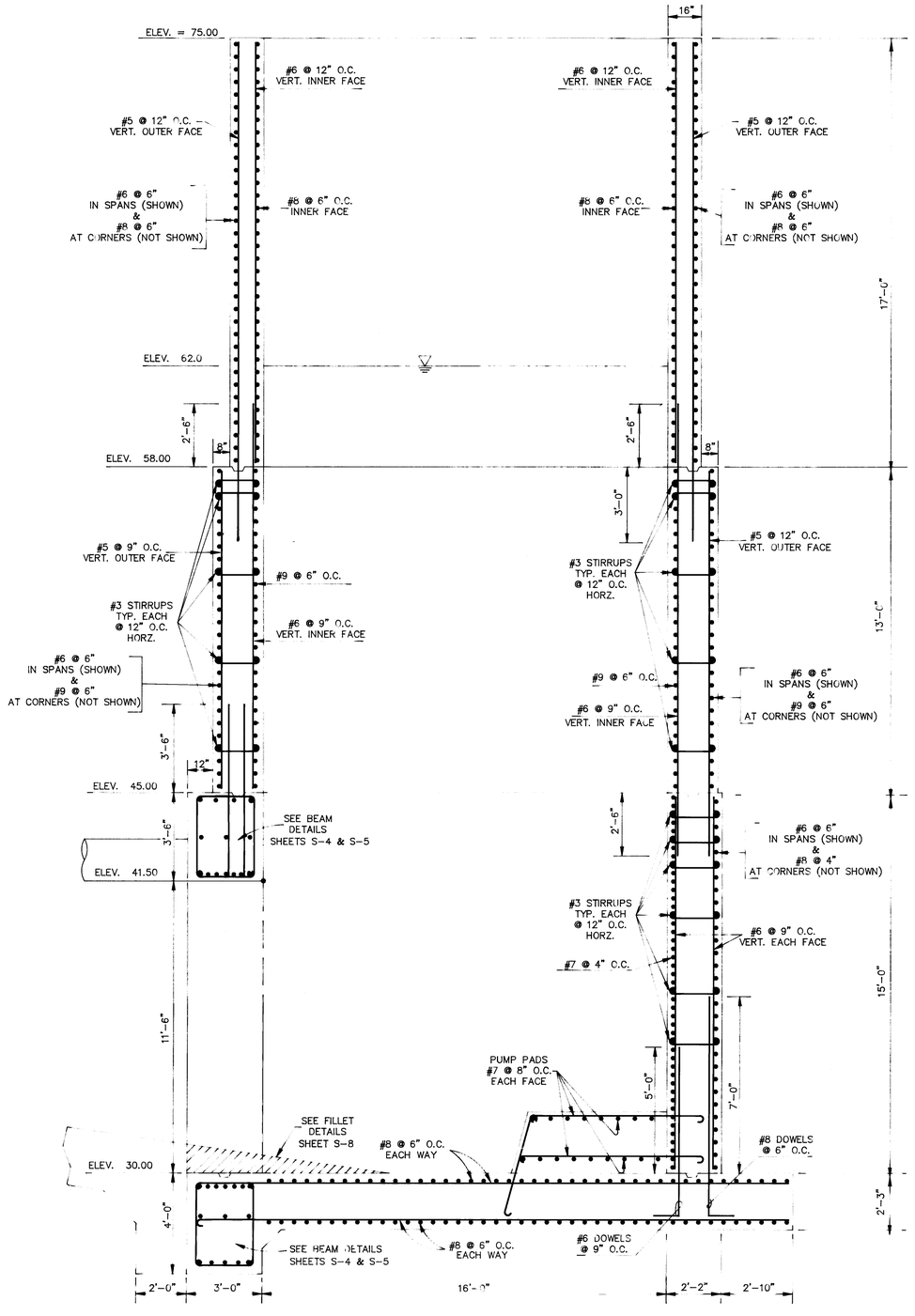
Drawing No. PUMP-3R APR. 6, 1992

148413



NOTE:
BOTTOM ELEVATION AND DIMENSIONS VARIES SLIGHTLY WITH SLOPE OF 0.002
SEE SHEET S-2

SECTION
SCALE: 3/8" = 1'-0"
(2/T) S-1



SECTION
SCALE: 3/8" = 1'-0"
(7/T) S-1

2c 4271.90 4595

JOANNE C. BYLAS

Richard Scott
RECORD DRAWINGS 12/94

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA DATE
INSPECTORS FIELD CHANGES BY AA JR DATE
FIELD TOLERANCE DATE
VERIFICATION BY COA DATE
CHANGES CORRECTED BY AA JR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DANIEL D. BRAND 10172 REGISTERED PROFESSIONAL ENGINEER 12/5/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 3-92
		DRAWN BY T.G.L.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

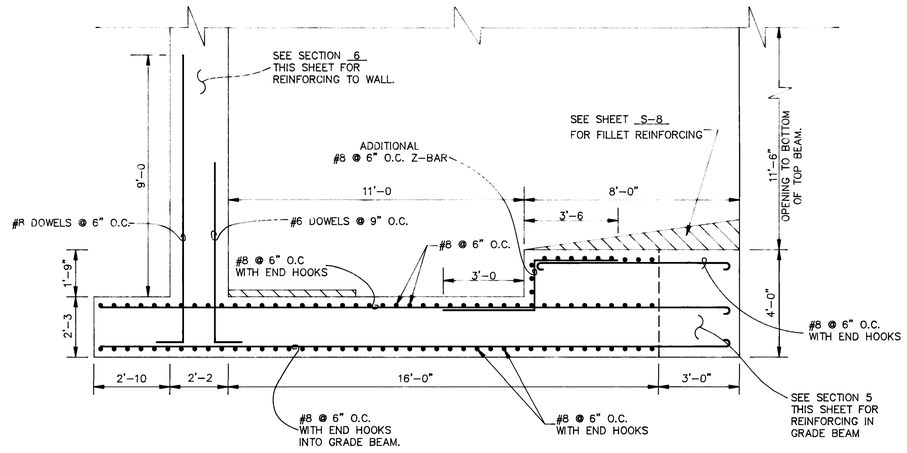
TITLE:
PUMP STATION STRUCTURAL SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.J. Kopsky	2-18-93	WATER		
TRANSPORTATION	N/A	9.24.92	WASTE WATER	N/A Myb	9-24-92
HYDROLOGY	Steve Ludwig	1-19-93			

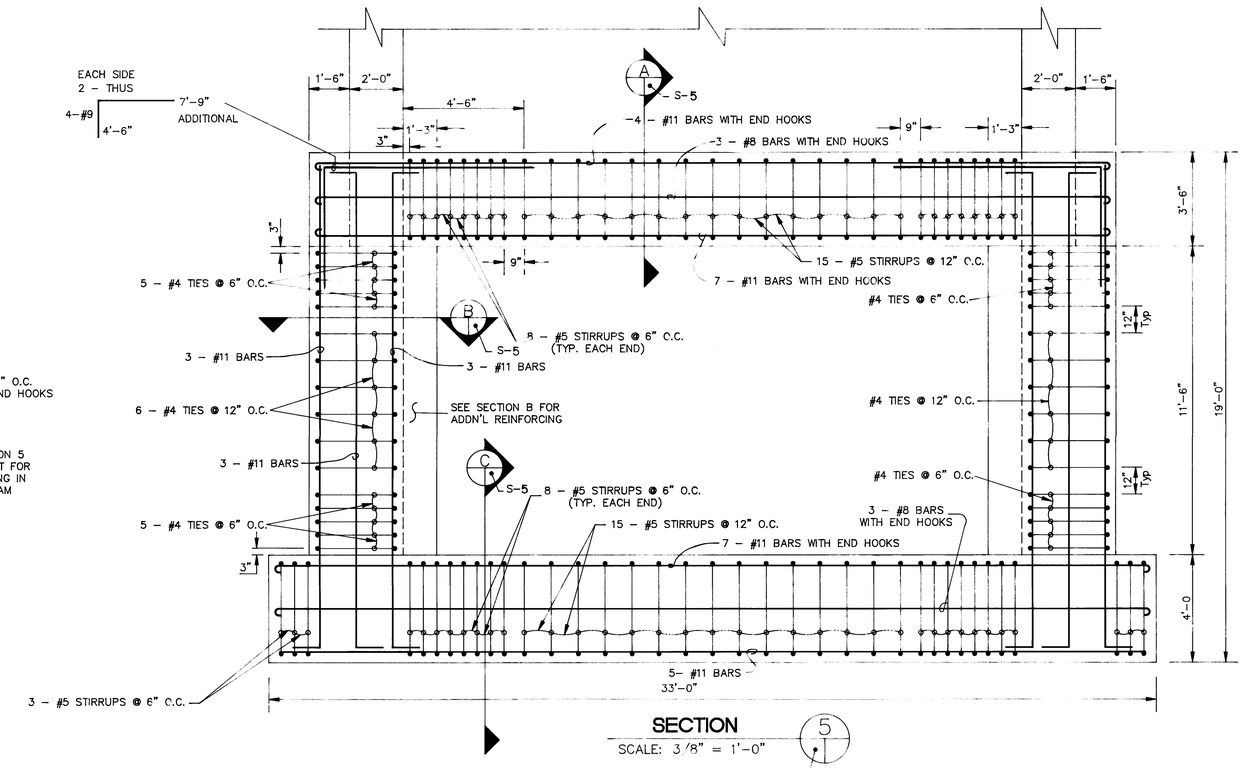
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S - 3

REPRO'D, APR. 6, 1992 11:55:36

148413

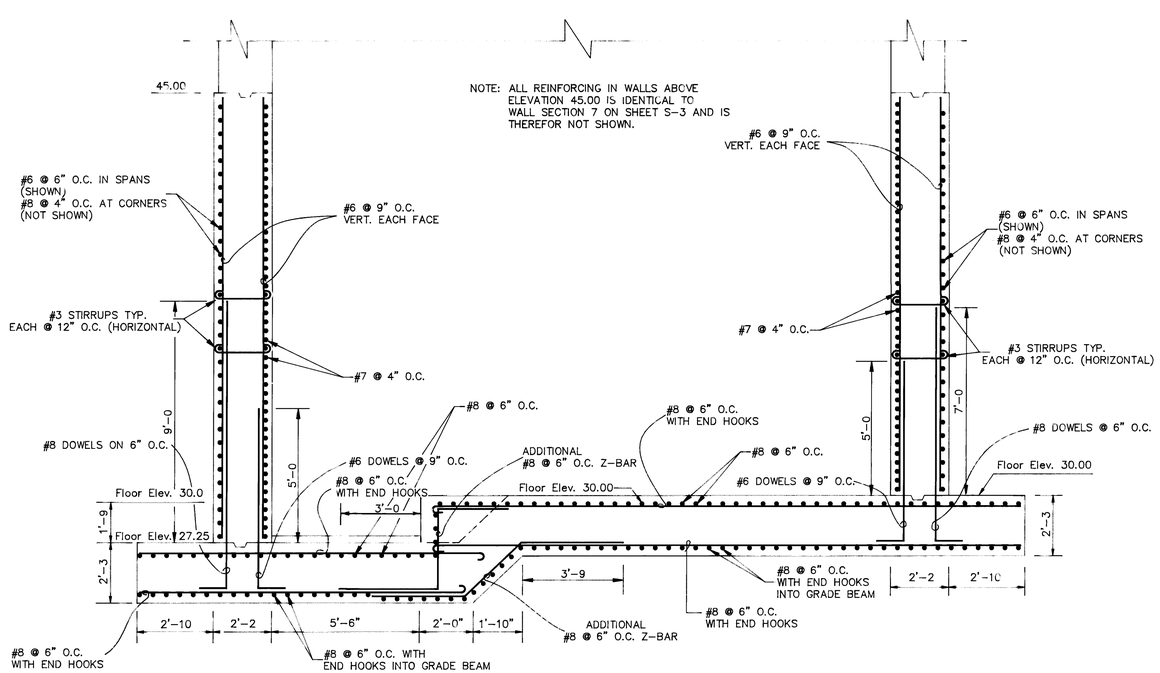


SECTION 8
SCALE: 3/8" = 1'-0"
S-1



SECTION 5
SCALE: 3/8" = 1'-0"
S-1

BEAMS & COLUMNS AT JUNCTION OF PUMP STATION
WETWELL AND TRANSITION.



SECTION 6
SCALE: 3/8" = 1'-0"
M-2

2G 4271.'904695

SCANNED BY
LASON

Richard Lovato
RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RMC DATE 12/94
ACCEPTED BY CDB
INSPECTORS
FIELD CHANGE BY AR'R DATE
FIELD
VERIFICATION BY CDB
FIELD CHANGES
CORRECTED BY A.R.R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO	BY	DATE
1.	Sarex Surveys	8-93
2.	"	8-93

ENGINEER'S SEAL
DENNIS D. BOARD
NEW MEXICO
9783
REGISTERED PROFESSIONAL ENGINEER
8/25/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		D.D.B.	DATE 3-92
DRAWN BY		J.G.L.	DATE 4-92
CHECKED BY		D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

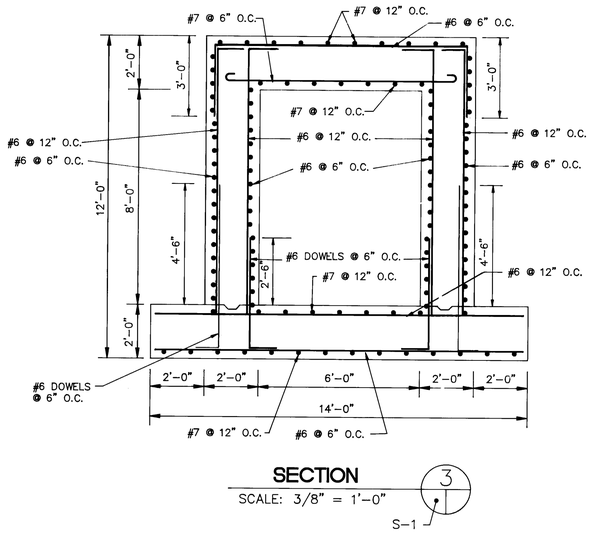
TITLE:
PUMP STATION
SECTIONS AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION		2-18-93	WASTE WATER	NA	4-29-92
HYDROLOGY		1-19-93			

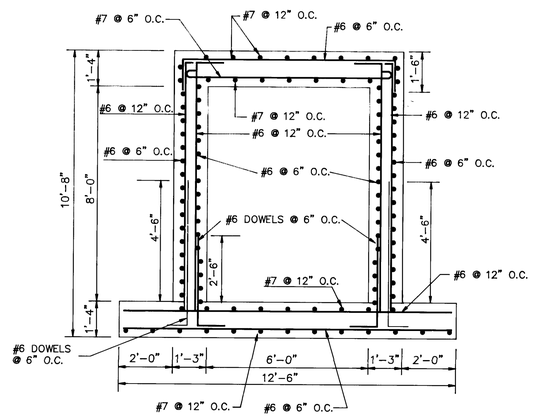
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF 5 - 4

Drawing File: SEC-DET2 APR. 1, 1992

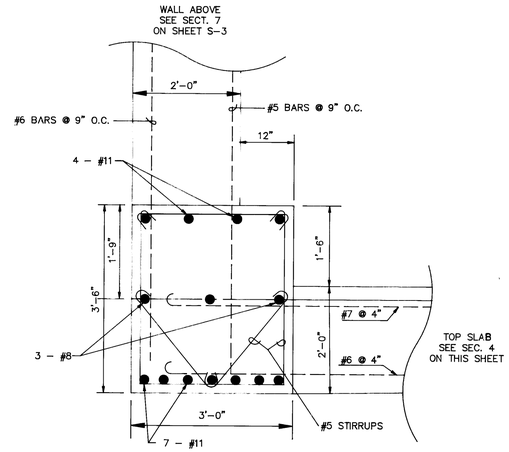
148413



SECTION 3
SCALE: 3/8" = 1'-0"
S-1

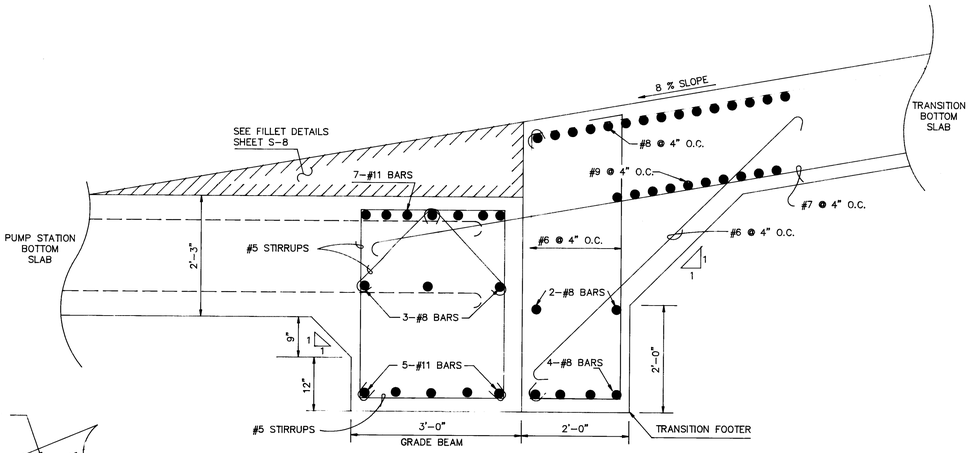


SECTION 1
SCALE: 3/8" = 1'-0"
S-1



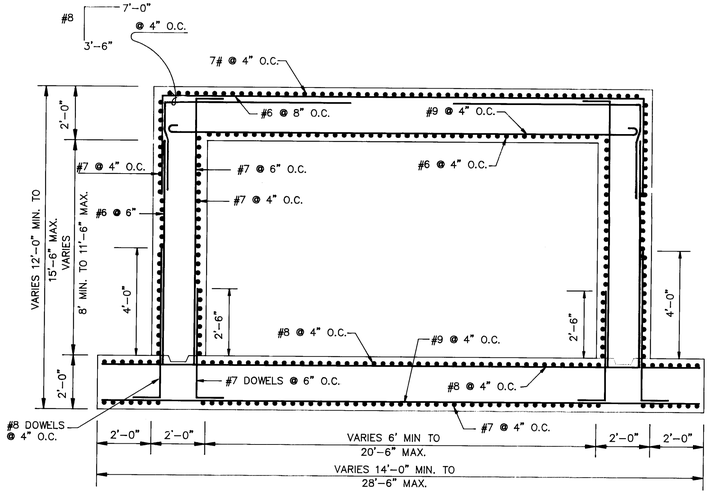
SECTION A
TOP BEAM
S-4

SCALE: 3/4" - 1'-0"



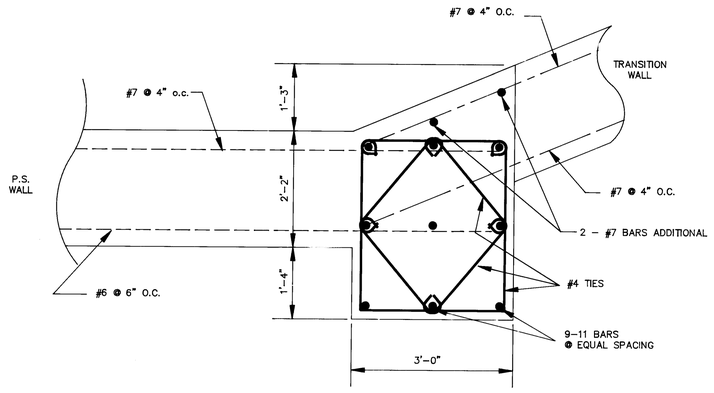
SECTION C
GRADE BEAM
S-4

SCALE: 3/4" - 1'-0"



NOTES:
ALL HORIZONTAL REINF. TO BE RUN INTO BEAM-COLUMN STRUCTURE (SEE SECTION 5 ON SHEET S-4.)
ALSO SEE SECTION C - THIS SHEET FOR FOOTER AT PUMP STATION CONNECTION.

SECTION 4
SCALE: 3/8" = 1'-0"
S-1



SECTION B
COLUMN (TYPICAL)
S-4

SCALE: 3/4" - 1'-0"

26 4271.904795

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTED BY AA-P DATE
ACCEPTANCE BY DATE
AS BUILT VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA-P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DONNIE R. BRAND
NEW MEXICO
9674
REGISTERED PROFESSIONAL ENGINEER
8/25/95

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 3-92
		DRAWN BY J.G.L.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9II06

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
PUMP STATION SECTIONS AND DETAILS

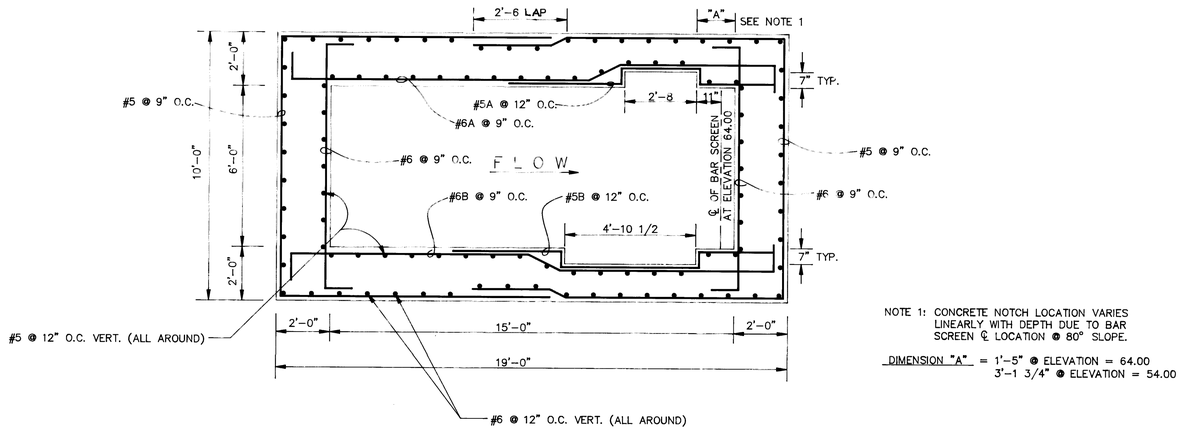
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION	[signature]	8-18-93	WASTE WATER	[signature]	9-24-93
HYDROLOGY	[signature]	9.24.93			
	Steve Bobey	1.19.93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF 5 - 5

APR. 7, 1992 07:25:10
WALL8*R

SCANNED
Richard Lovato
RECORD DRAWINGS 12/94

148413



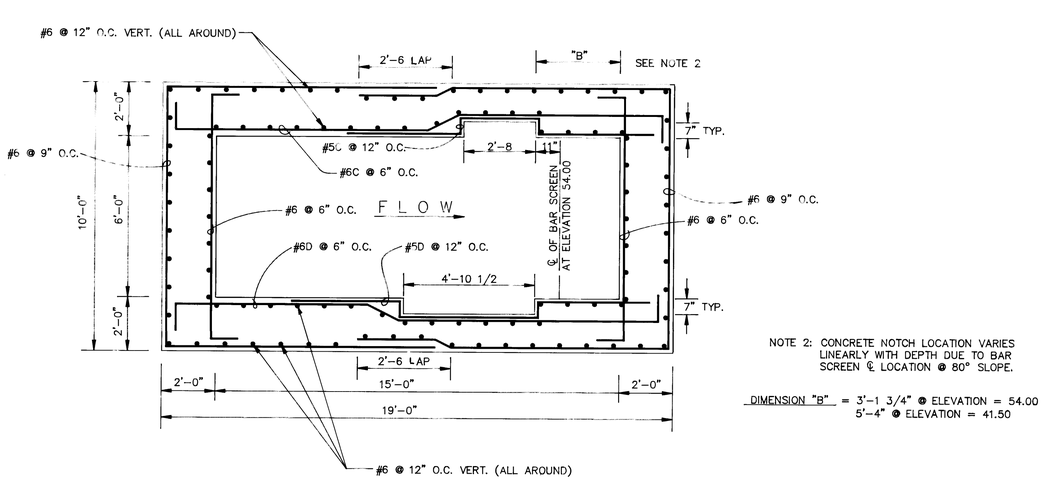
NOTE 1: CONCRETE NOTCH LOCATION VARIES LINEARLY WITH DEPTH DUE TO BAR SCREEN ℄ LOCATION @ 80° SLOPE.

DIMENSION "A" = 1'-5" @ ELEVATION = 64.00
3'-1 3/4" @ ELEVATION = 54.00

WALL SECTION
ELEV. 64.00 TO ELEV. 54.00

SCALE: 3/8" = 1'-0"

1
S-2



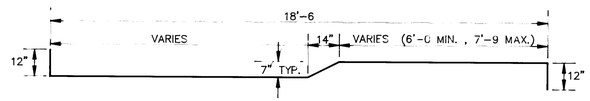
NOTE 2: CONCRETE NOTCH LOCATION VARIES LINEARLY WITH DEPTH DUE TO BAR SCREEN ℄ LOCATION @ 80° SLOPE.

DIMENSION "B" = 3'-1 3/4" @ ELEVATION = 54.00
5'-4" @ ELEVATION = 41.50

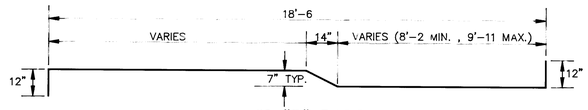
WALL SECTION
ELEV. 54.00 TO ELEV. 41.50

SCALE: 3/8" = 1'-0"

2
S-2



#6 "A" BARS



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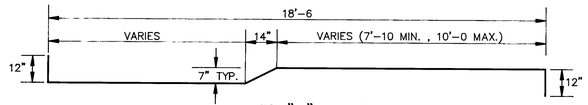
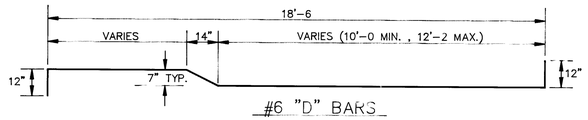
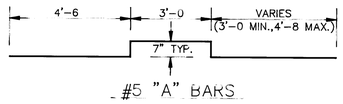


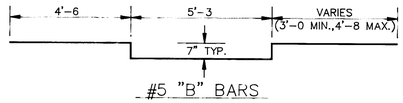
#6 "C" BARS



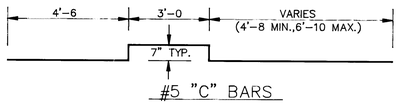
#6 "D" BARS



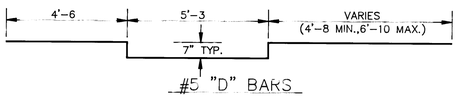
#5 "A" BARS



#5 "B" BARS



#5 "C" BARS



#5 "D" BARS

NOTES

AS BUILT INFORMATION
CONTRACTOR PMC/
MICRO-FILMED BY COA DATE 12/94
INSPECTORS
ACCEPTANCE BY AGIR DATE
RECEIVED
VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AGIR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
PLANNED BY ENGINEER
STATE OF NEW MEXICO
8/25/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 2-92
		DRAWN BY J.G.L.	DATE 3-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
PUMP STATION
SECTIONS AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G. Scanlon	2-18-93	WATER	N/A RHD	4-7-93
TRANSPORTATION	N/A RHD	8.29.97	WASTE WATER		
HYDROLOGY	Steve Ealey	1.19.93			

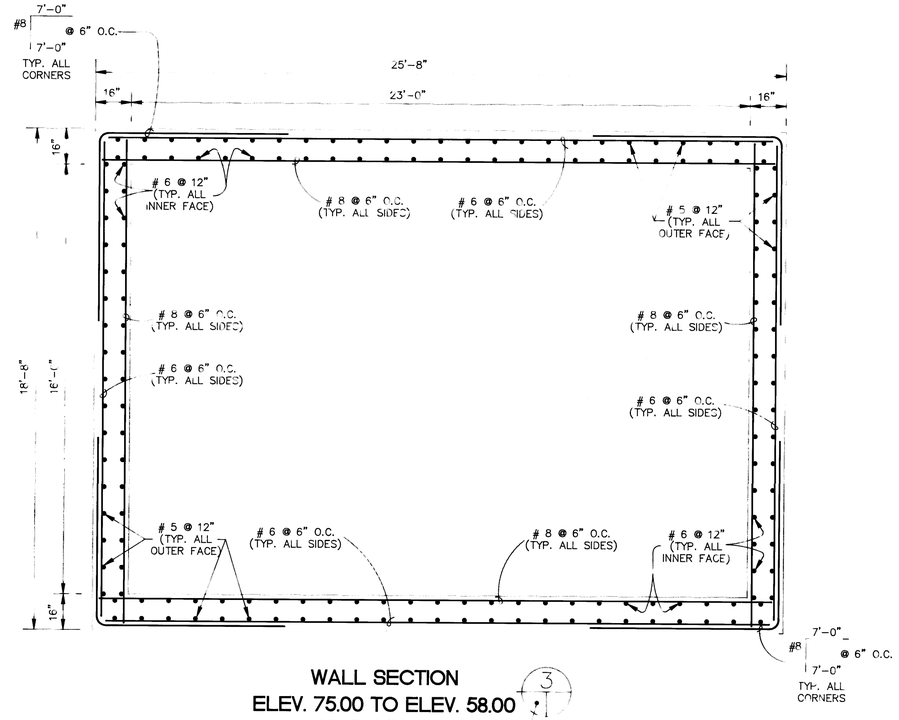
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S - 6

26 4271.90 04895

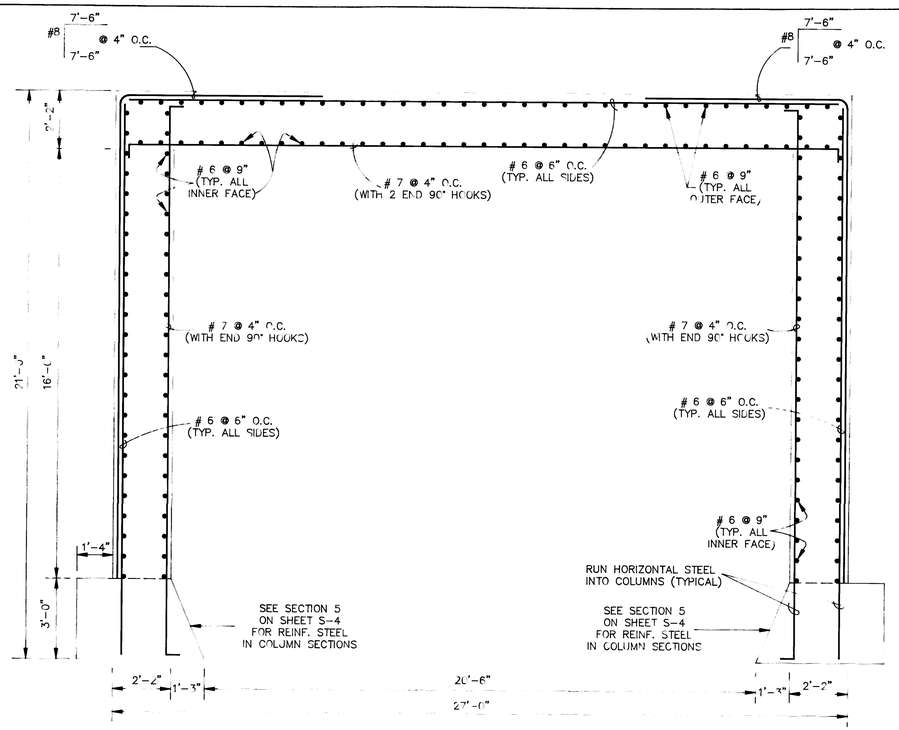
Richard Scott
RECORD DRAWINGS 12/94

Drawing File: SEC-DETS MAR.11, 1992

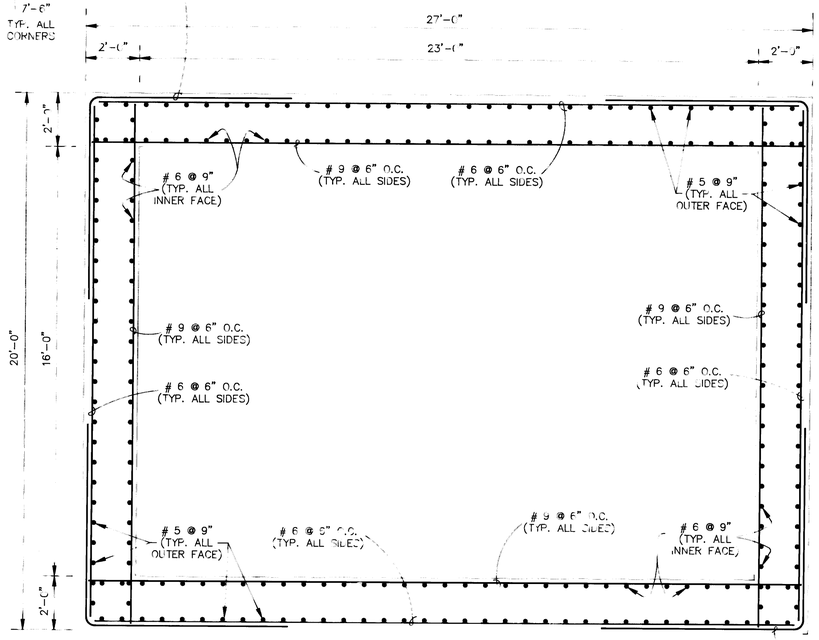
148413



WALL SECTION
ELEV. 75.00 TO ELEV. 58.00 (3 / S-2)
SCALE: 3/8" = 1'-0"



WALL SECTION
ELEV. 45.00 TO ELEV. 30.00 (5 / S-2)
SCALE: 3/8" = 1'-0"



WALL SECTION
ELEV. 58.00 TO ELEV. 45.00 (4 / S-2)
SCALE: 3/8" = 1'-0"

NOTES

AS BUILT INFORMATION
CONTRACTOR: PMDI
WORK STAKED BY: COA DATE 12/93
INSPECTIONS DATE
ACCEPTANCE BY: PAR/R DATE
CERTIFICATION BY COA DATE
DRAWINGS CORRECTED BY PAR/R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
9672
JAMES B. BAIRD
8/25/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		D.O.B.	DATE 3-92
DRAWN BY		J.G.L.	DATE 4-92
CHECKED BY		D.O.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION SECTIONS AND DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goolsby	2-18-93	WATER	N/A	
TRANSPORTATION	N/A	9.24.92	WASTE WATER	N/A	9-24-92
HYDROLOGY	Peter Soley	1.19.93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 / H-14, 15
SHEET 5 OF 7

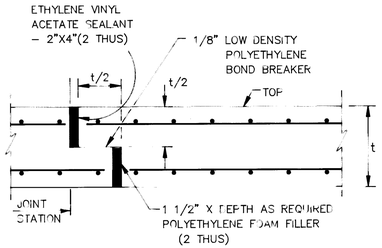
Drawing File: SC-4271.90/PL No. 194.

Richard Frost
RECORD DRAWINGS 12/94

26 4271.9049'95

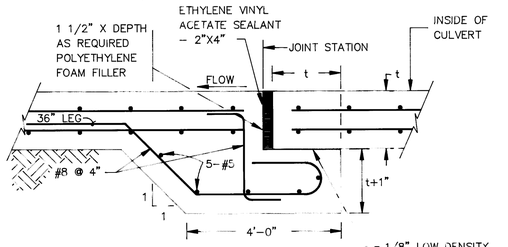
SCANNED BY FUTRELL BASSON

148413



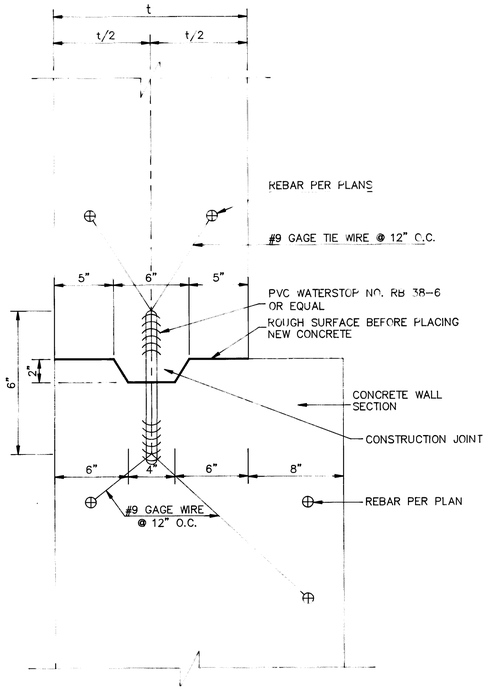
EXPANSION JOINT DETAIL TOP SLAB AND SIDEWALLS

NOT TO SCALE



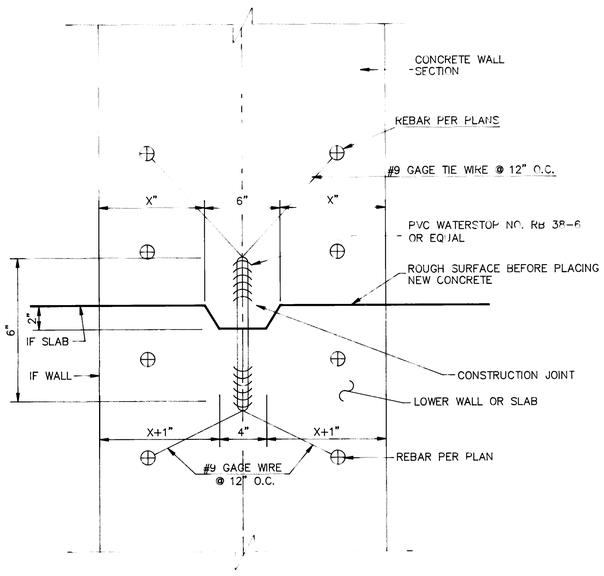
EXPANSION JOINT DETAIL BOTTOM SLAB

NOT TO SCALE



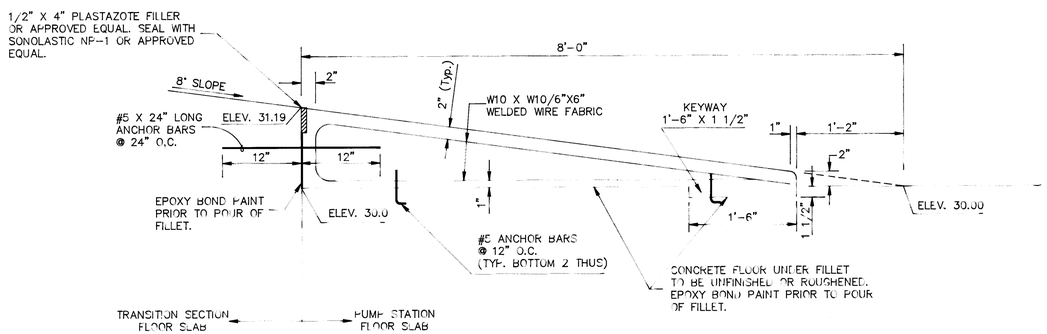
WATERSTOP – CONSTRUCTION JOINT DETAIL

UNEQUAL WALLS (TYPICAL)
NOT TO SCALE



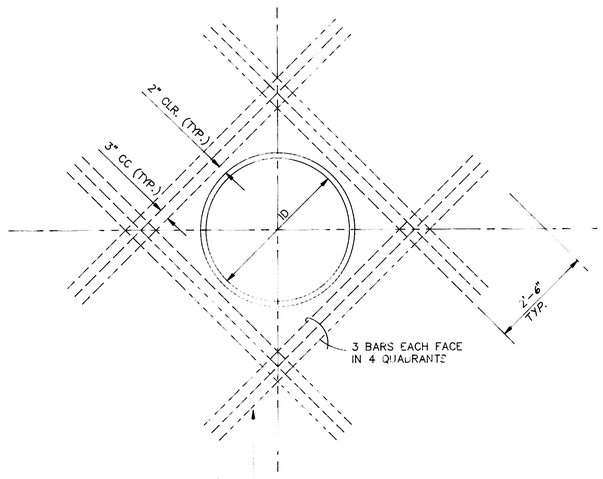
WATERSTOP – CONSTRUCTION JOINT DETAIL

EQUAL WALLS OR WALLS/SLAB (TYPICAL)
NOT TO SCALE



CONCRETE FILLET DETAIL

NOT TO SCALE



NOTE: SIZE OF BARS TO MATCH HORIZ. WALL REINFORCEMENT.

WALL PIPE PENETRATION REINFORCEMENT DETAIL

NOT TO SCALE

26 4271.905095

SCANNED BY IMAGE ASSOCIATES

NOTES

AS BUILT INFORMATION
CONTRACTOR: RMC
DATE 12/94
WORK STAKED BY: COA
INSPECTORS AS-BUILTS BY: AA; R
DATE
FIELD CHANGES BY: COA
DATE
DRAWING CORRECTED BY: AA; R
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DANIEL D. GRANO 8674 REGISTERED PROFESSIONAL ENGINEER NEW MEXICO
8/25/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		D.D.B.	DATE 3-92
DRAWN BY		J.G.L.	DATE 4-92
CHECKED BY		D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
PUMP STATION
CONSTRUCTION JOINTS, FILLET AND WALL PENETRATIONS

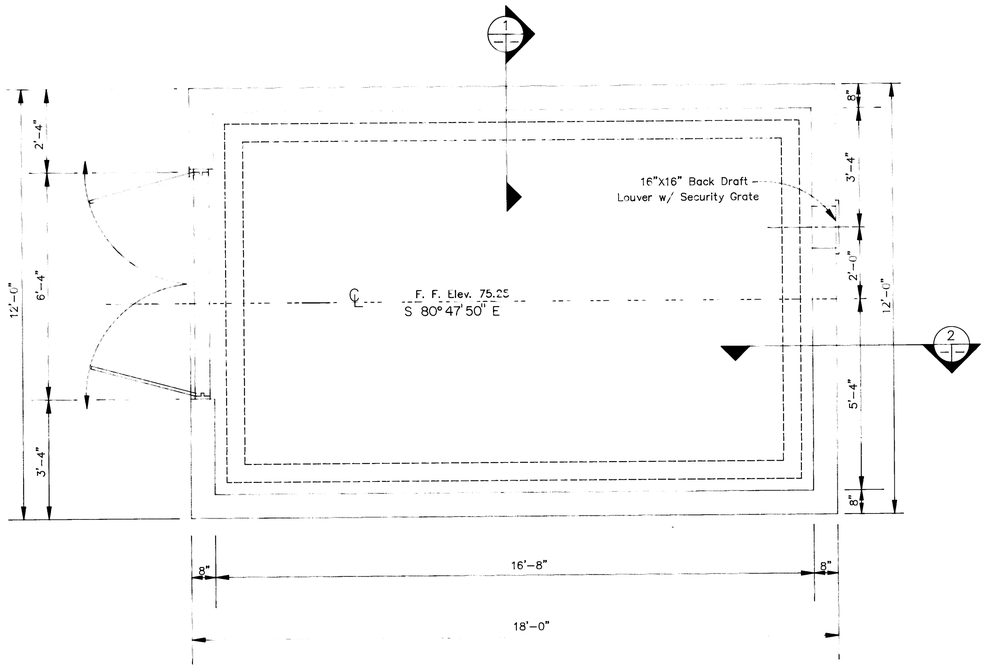
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G. Loddy	2-18-93	WATER	N/A	
TRANSPORTATION	N/A RHJ	9-24-92	WASTE WATER	MJB	4-24-92
HYDROLOGY	Steve Boberg	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF 5 - 8

Richard Hoist
RECORD DRAWINGS 12/94

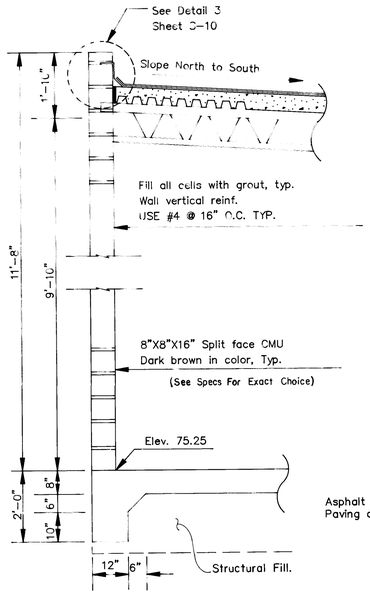
JOINTS APR. 7, 1992

148413



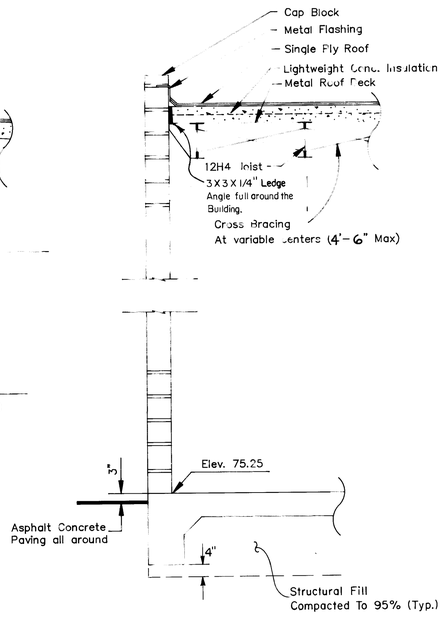
FLOOR PLAN

SCALE: 1/2" = 1'-0"



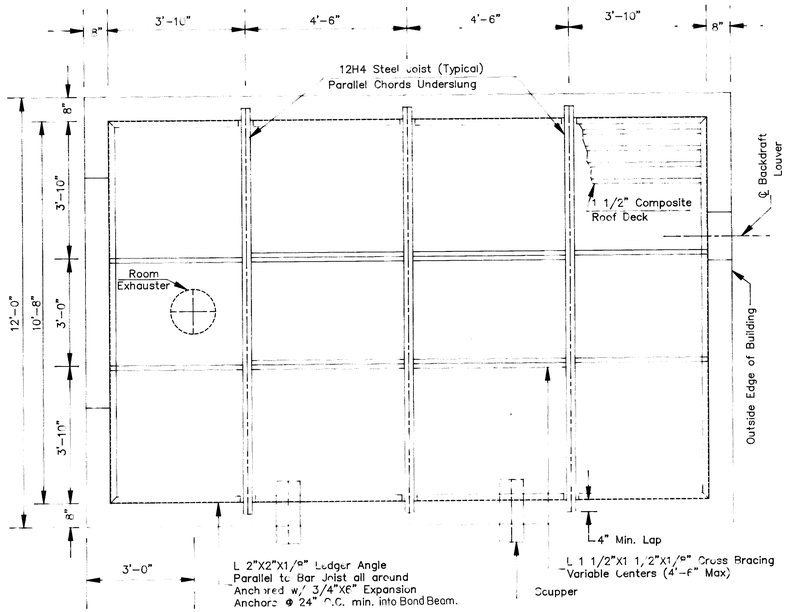
SECTION 1 - SUPPORT WALL

SCALE: 1/2" = 1'-0"



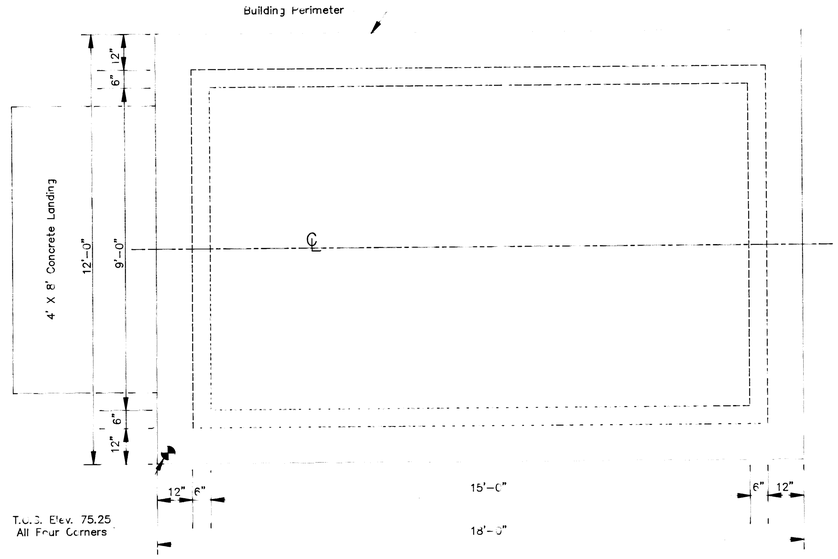
SECTION 2 - SIDE WALL

SCALE: 1/2" = 1'-0"



ROOF FRAMING PLAN

SCALE: 1/2" = 1'-0"



FOUNDATION PLAN

SCALE: 1/2" = 1'-0"

26 4271.905195

NOTES

1. Metal roof deck shall be 20 gage galvanized, Type B-1, conforming to ASTM A-446, Grade A. Weld pattern to effect diaphragm design shall be in accordance with manufacturer's recommendations and approved by the Engineer.

2. Light-weight concrete insulation shall consist of PERLITE conforming to ASTM C 332, Group 1; and Portland Cement. The cement to aggregate ratio shall be 1:4 (by volume), and minimum compressive strength shall be 300 psi. All other requirements shall be in accordance with Perlite Institute and standard specifications, or approved equal.

3. The single-ply membrane roofing system shall be 0.045 inch, reinforced membrane system, based on Hypalon. All flashing, counter flashing, protrusions and anchoring shall also be provided, in accordance with the system selected. System shall be by Carlisle or equal, and approved by the Engineer.

4. All flashing, counter flashing and roof protrusions shall be minimum 0.18" type 302/304 terne coated stainless steel. Cap flashing, roof cant strip flashing and counter-flashing, roof scuppers and penetration flashing shall be required. Systems by Cheny, Keystone or equal.

5. Hollow metal doors shall be in accordance with SDI-100, and thickness of metal shall be in accordance with the manufacturer's recommendations for hardware, duty location and exposure. Minimum shall be 16 gage, and manufactured by Steelcraft, CECO, or equal. Door lock hardware shall includ Lockset No. and key code as supplied by the City.

— CONTROL BUILDING STRUCTURAL —

Payment for the "Control Building Structural, complete in place", shall be made at the Lump sum price. All associated structural, architectural and general work on the control building including, but not limited to reinforced concrete, CMU walls, bar joist roof supports, roof metal decking, roof single - ply butyl membrane, roof concrete insulation, miscellaneous steel, metal flashing, hollow metal doors, and all associated incidentals and appurtenances, shall be included in the Lump sum. The estimated plan quantities for various items are given for the Contractor's information only, and shall not be the basis for payment.

Reinforced concrete 4000 psi	8.5 cu. yds.
CMU Walls 8" thick	645 sq. ft.
Bar Joists	32 lin. ft.
Metal Corrog. Roof Deck	178 sq. ft.
Lightweight Concrete Insulation	3.4 cu. yd.
Single - Ply Roof	178 sq. ft.
Hollow Metal Doors	2 ea.

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

AS BUILT INFORMATION

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

CONTRACTOR AMCI DATE 12/94
WORK STAKED BY COA
ACCEPTANCE BY AA: Q DATE
FIELD LOCATION BY COA DATE
DRAWINGS CORRECTED BY AA: Q DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL

8/25/92

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
		DESIGNED BY D.D.B. DATE 3-92
		DRAWN BY J.G.L. DATE 4-92
		CHECKED BY D.D.B. DATE 8-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CONTROL BUILDING**
ROOF FRAMING, FLOOR AND FOUNDATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	4-19-93
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY		1-19-93			

PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET OF 5 - 9

RECORD DRAWINGS 12/94

SCANNED BY LASON

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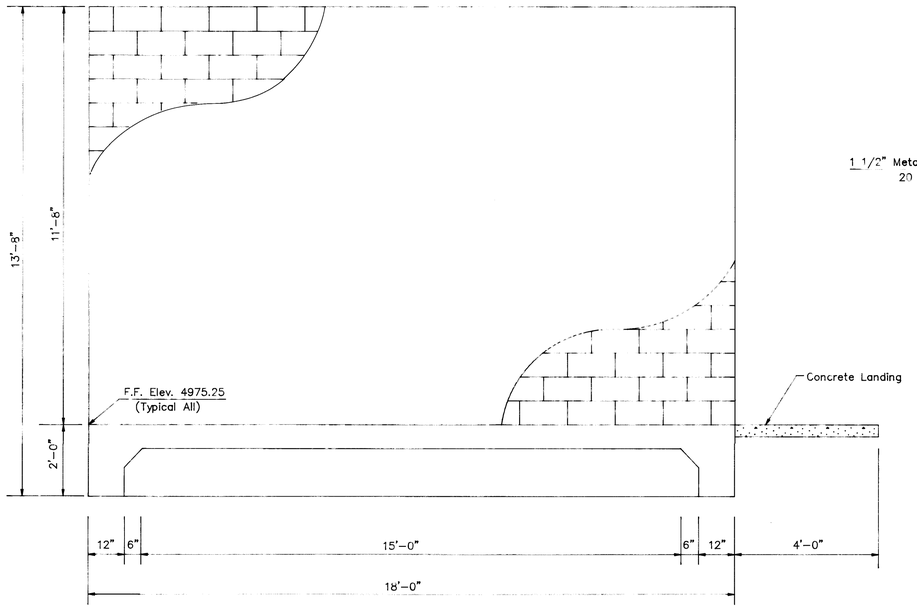
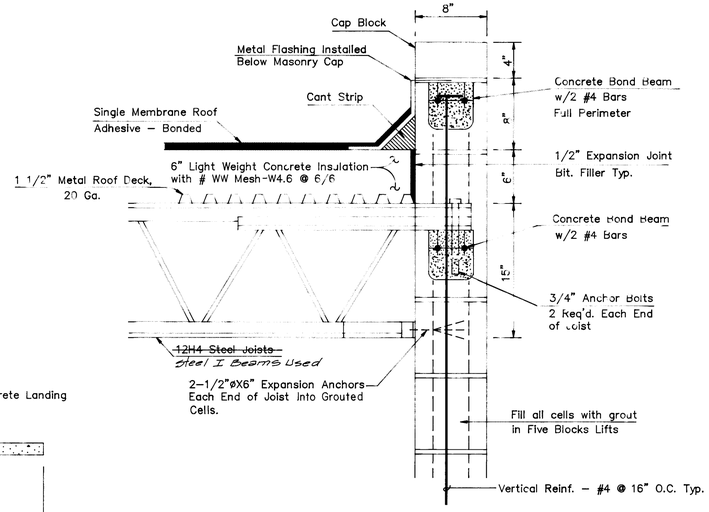


NORTH SIDE ELEVATION

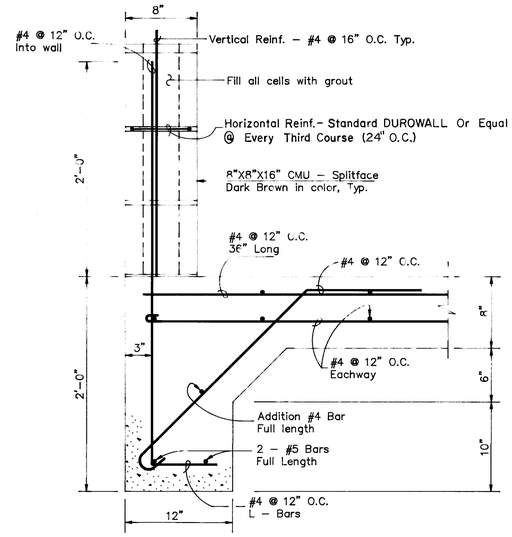
SAME AS SOUTH SIDE ELEVATION

SCALE: 1/2" = 1'-0"



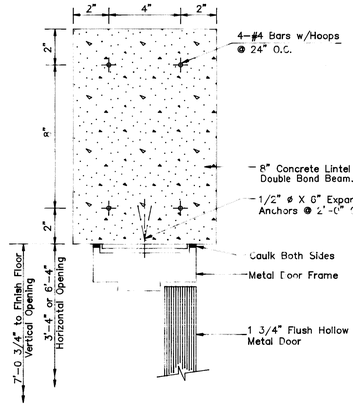
DETAIL 3 - ROOF AND PARAPET

SCALE: 1 1/2" = 1'-0"

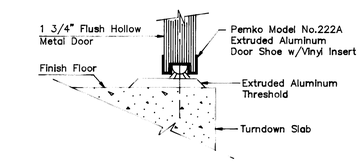


DETAIL 4 - WALL AND FOUNDATION

SCALE: 1 1/2" = 1'-0"



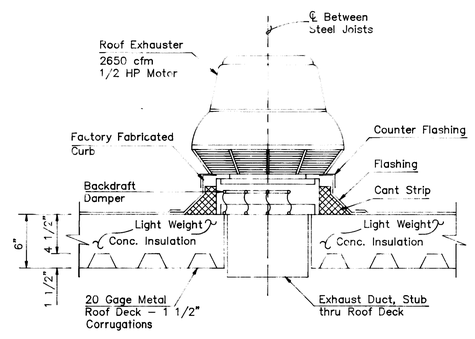
TYPICAL HEAD AND JAMB DETAIL



SILL

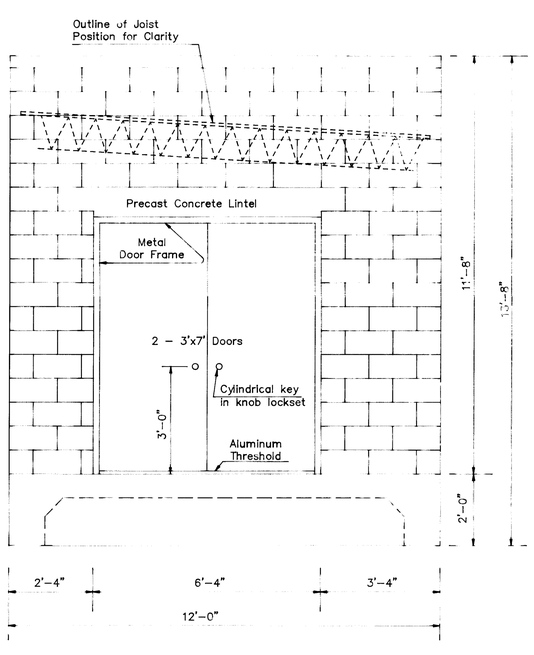
TYPICAL DOOR DETAILS

SCALE: 3" = 1'-0"



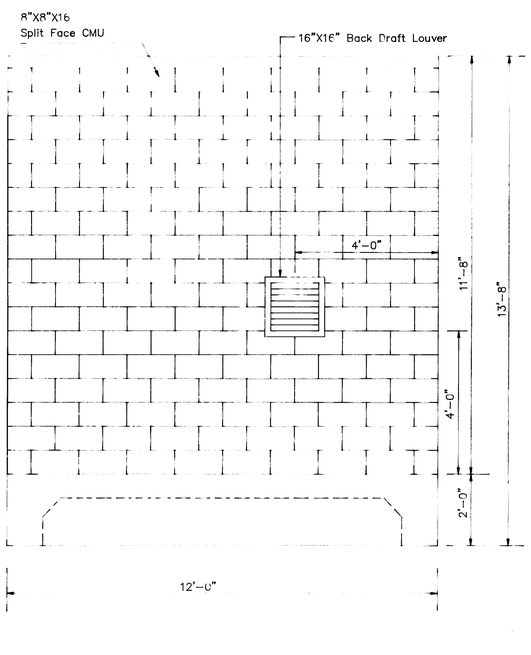
ROOF EXHAUSTER MOUNTING DETAIL

NOT TO SCALE



WEST END ELEVATION

SCALE: 1/2" = 1'-0"



EAST END ELEVATION

SCALE: 1/2" = 1'-0"

26 4271.905295

ANNOTATED BY AS-BUILT

Richard Forth

RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RYDAL DATE 12/94
MARKED BY COA
INSPECTORS
FIELD FENCE BY BA?R DATE
VERIFICATION BY COA
CORRECTED BY BA?R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
8/25/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B.	DATE 3-92
		DRAWN BY J.G.L.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

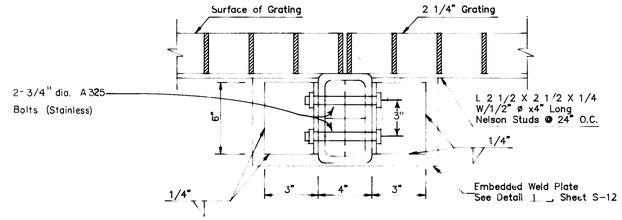
TITLE **CONTROL BUILDING ELEVATIONS AND SECTIONS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	
TRANSPORTATION	N/A	9-24-92	WASTE WATER	[signature]	4-24-92
HYDROLOGY	Steve Boberg	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET 5 OF 10

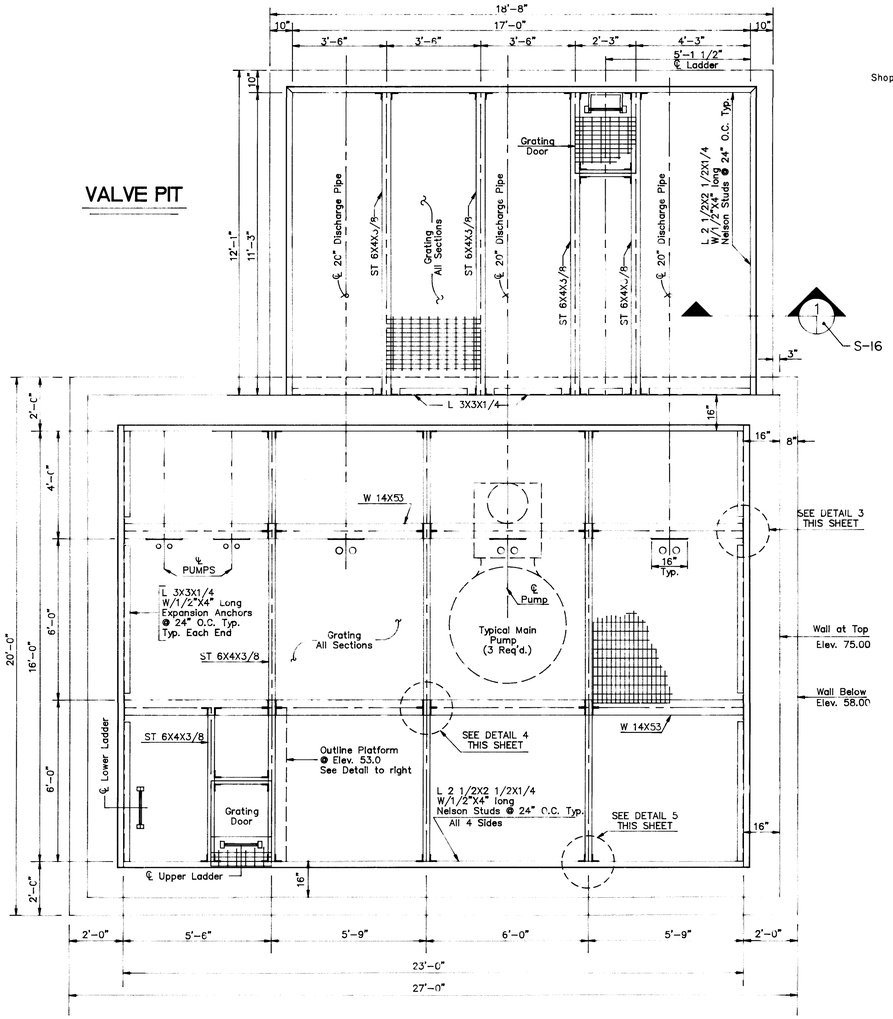
ELEV-SEC APR. 7, 1992 07:22:09

148413



DETAIL 5 - BEAM AND ANGLE CONNECTION @ WALL

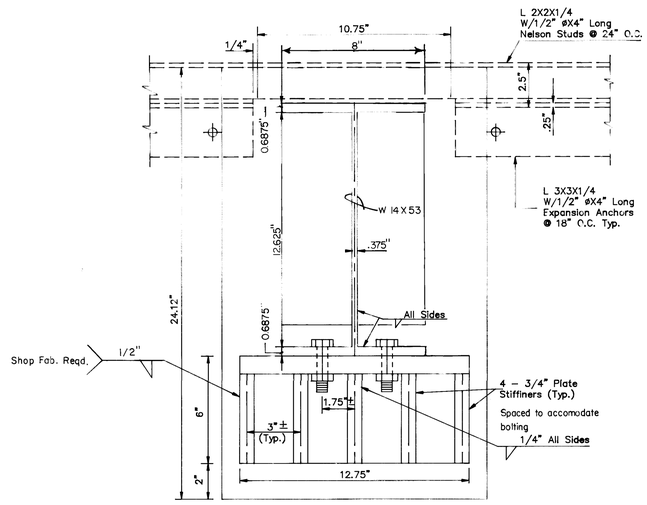
SCALE: 3" = 1'-0"



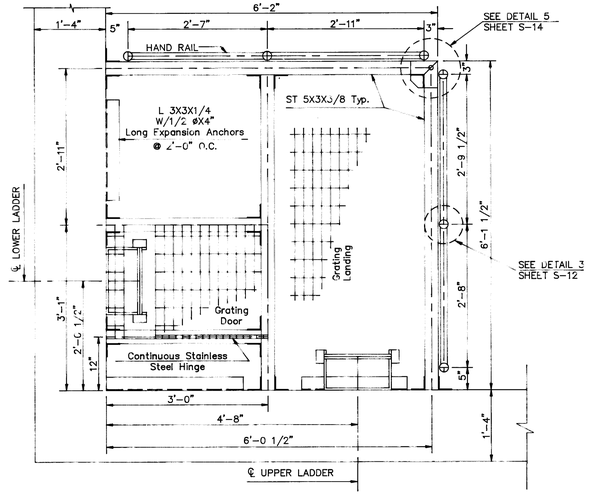
VALVE PIT

PUMP STATION
PLAN - GRATING LAYOUT @ ELEV. 75.00

SCALE: 3/8" = 1'-0"



SECTION "A"

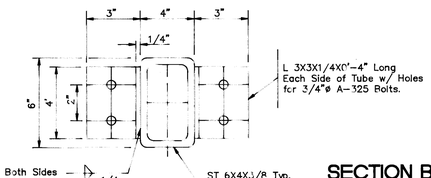


PUMP STATION
PLAN - PLATFORM DETAIL @ ELEV. 53.00

SCALE: 3/4" = 1'-0"

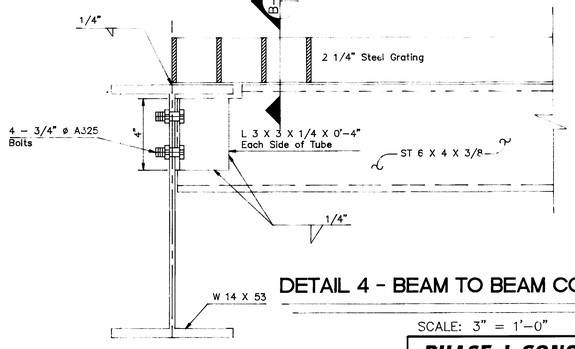
WELDING NOTATION

All welds are shown as Shop Welds, but are allowed as field welds where required for fit or fabrication.



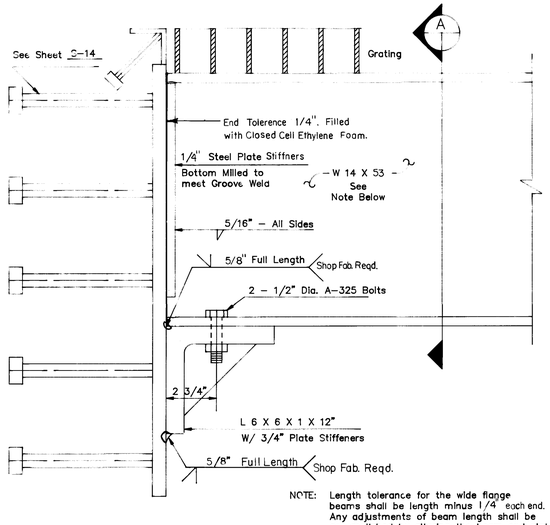
SECTION B-B

NOT TO SCALE



DETAIL 4 - BEAM TO BEAM CONNECTION

SCALE: 3" = 1'-0"



NOTE: Length tolerance for the wide flange beams shall be length minus 1/4" each end. Any adjustments of beam length shall be accomplished by altering the beam end plate thickness.

DETAIL 3 - BEAM CONNECTION

SCALE: 3" = 1'-0"

BAR GRATING

All Bar Grating Shall Be Standard Galvanized Steel, With Main Steel Members (Bearing Bars) 2 1/4"x 3/16" At 1 3/16" Spacing And Cross Bars At 4" Maximum. Ends And Sides Per Section Shall Be Closed To Provide Easy Removal In Sections Clip-Type Joiners Shall Be Used To Attach To Substructure.

26 4271.905395

AS BUILT INFORMATION
CONTRACTOR Rmcl DATE 12/94
SURVEYED BY COA
STAKED BY
INSPECTORS
AS-BUILTED BY AA:R DATE
FIELD
CERTIFICATION BY COA DATE
DRAWING
CORRECTED BY AA:R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.D.B. DATE 3-92	
		DRAWN BY J.G.L. DATE 4-92	
		CHECKED BY D.D.B. DATE 8-92	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION**
GRATING LAYOUT AND PLATFORM DETAILS

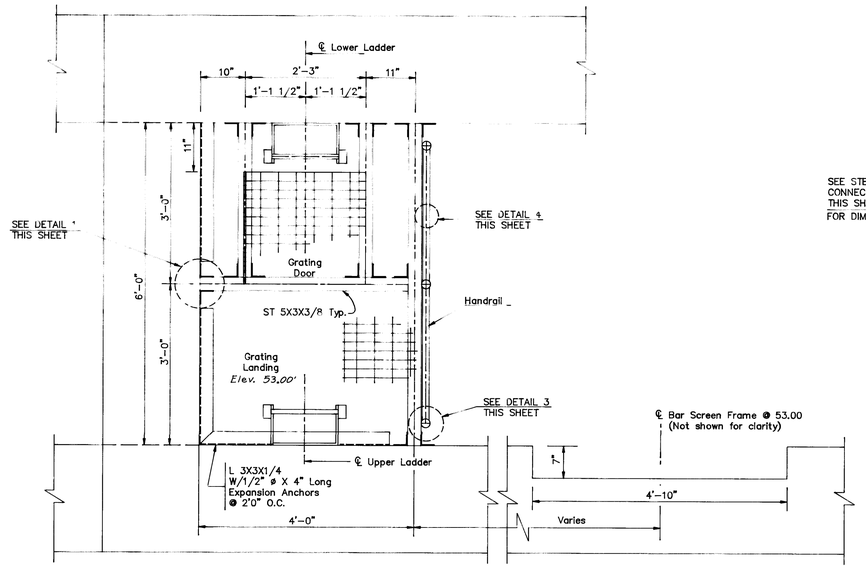
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION		2-18-93	WASTE WATER		9-24-92
HYDROLOGY		9.24.92			
		1.19.93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S - 11

DETAIL: APR. 1, 1992, 07:28:10

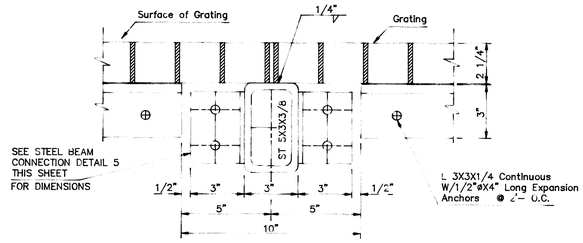
RECORD DRAWINGS 12/94

148413



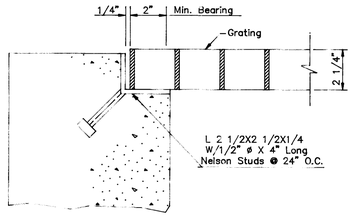
BAR SCREEN
PLAN - LOWER PLATFORM DETAIL • ELEV. 53.00

SCALE: 3/4" = 1'-0"



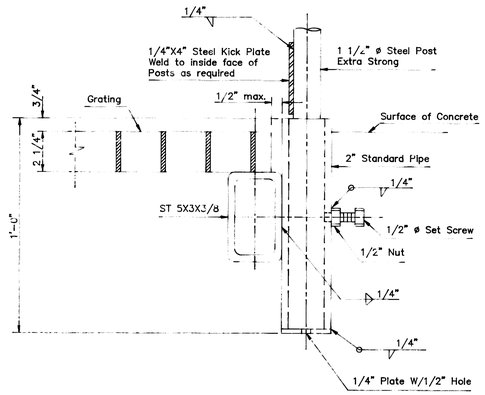
DETAIL 1 - BEAM AND ANGLE CONNECTION

SCALE: 3" = 1'-0"



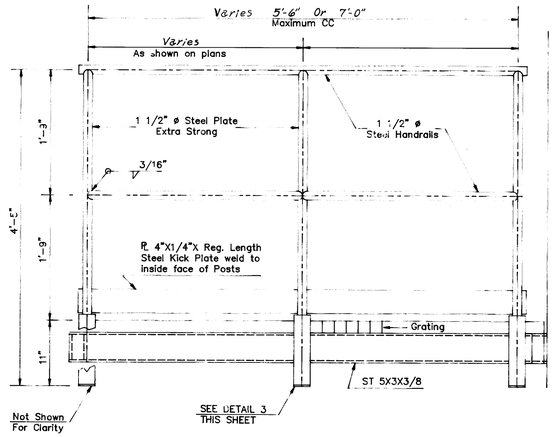
DETAIL 2 - BEARING WALL

SCALE: 3" = 1'-0"



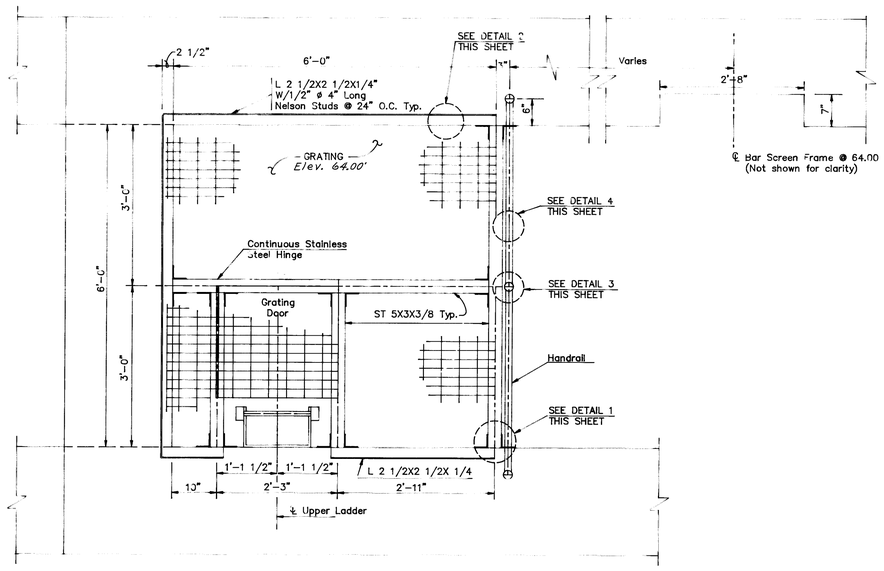
DETAIL 3 - HANDRAIL POST HOLDER

SCALE: 3" = 1'-0"



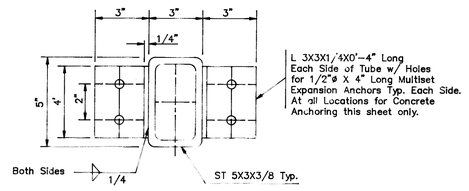
DETAIL 4 - HANDRAIL SECTION

SCALE: 1" = 1'-0"



BAR SCREEN
PLAN - UPPER PLATFORM DETAIL • ELEV. 64.00

SCALE: 3/4" = 1'-0"



DETAIL 5 - STEEL BEAM CONNECTION TO WALL

SCALE: 3" = 1'-0"

AS BUILT INFORMATION
CONTRACTOR RMCI
AS-BUILTED BY COA DATE 12/94
INSPECTORS ACCEPTANCE BY AA:P DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA:P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DENNIS D. BRAND 12676 NEW MEXICO PROFESSIONAL ENGINEER
8/25/92

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN	D.D.B.	3-92
	DRAWN BY	J.G.L.	4-92
	CHECKED BY	D.D.B.	8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION - BAR SCREEN PLATFORM PLAN AND DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	D.D. Scanlon	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9.24.92	WASTE WATER		
HYDROLOGY	Steve Zeleny	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 / H-14, 15
SHEET OF S - 12

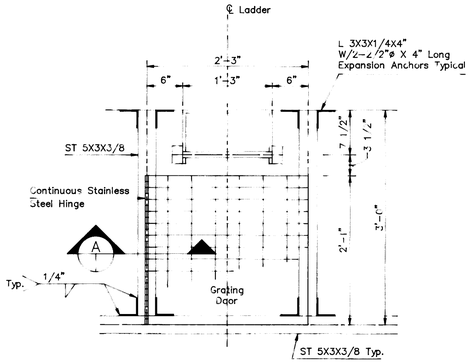
26 4271.905495

SCANNED BY SYLASON

Richard Forest
RECORD DRAWINGS 12/94

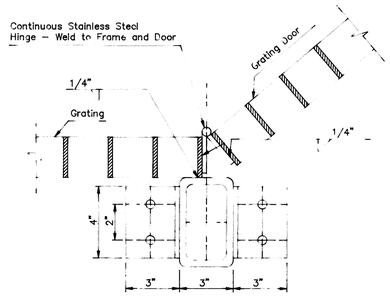
DETAIL-2 APR. 7, 1992 17:40:08

148413



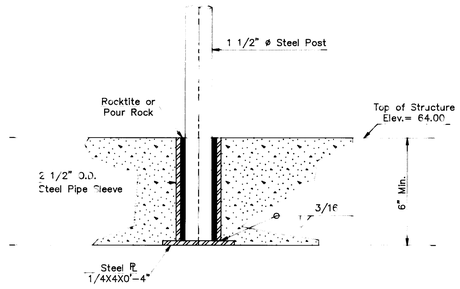
PLAN - FRAMING AT LADDER (TYP.)

SCALE: 1" = 1'-0"



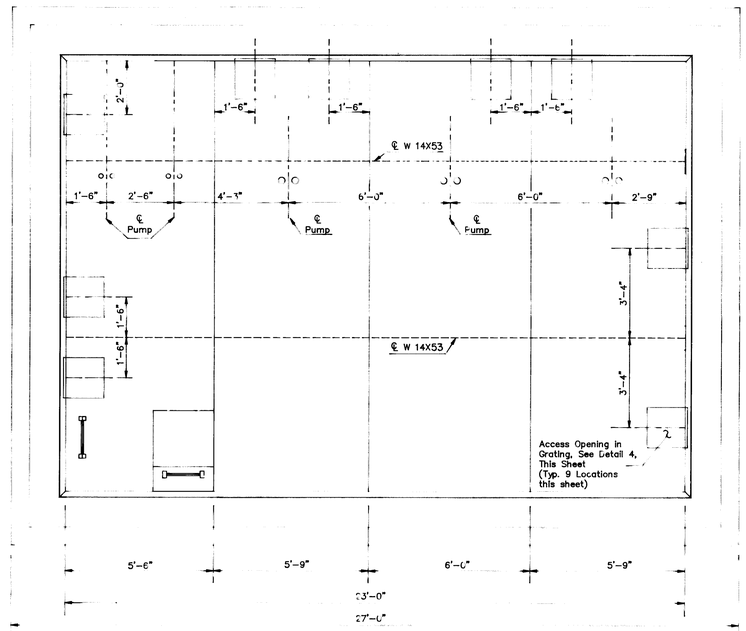
SECTION 1 - LADDER DOOR

SCALE: 3" = 1'-0"



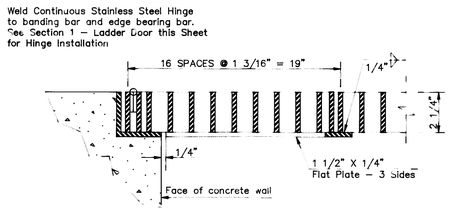
DETAIL 3 - FIXED HANDRAIL POST INSTALLATION DETAIL

SCALE: 3" = 1'-0"

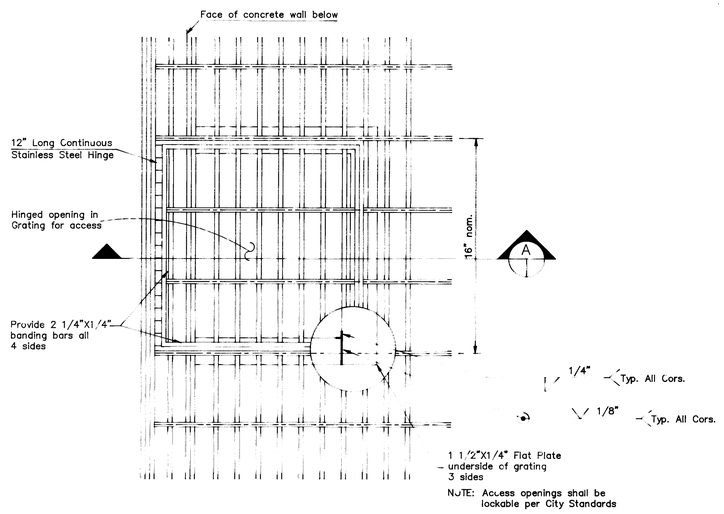


PUMP STATION PLAN - GRATING OPENING LOCATIONS

SCALE: 3/8" = 1'-0"



SECTION A



NOTE: Access openings shall be lockable per City Standards

DETAIL 4 - ACCESS OPENING IN GRATING DETAIL

NOT TO SCALE

26 4271.905595

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STARTED BY COA DATE
INSPECTORS INITIALS BAIR DATE 2/24
FIELD VERIFICATION BY COA DATE
FIELD CHANGES CORRECTED BY BAIR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DANIEL D. BRAND NEW MEXICO 6271 REGISTERED PROFESSIONAL ENGINEER
8/25/92

NO.	REMARKS	DATE	BY
	REVISIONS		
	DESIGN	3-92	
	DESIGNED BY D.D.B.	DATE 4-92	
	DRAWN BY J.G.L.	DATE 8-92	
	CHECKED BY D.D.B.	DATE	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION PLATFORM DETAILS**

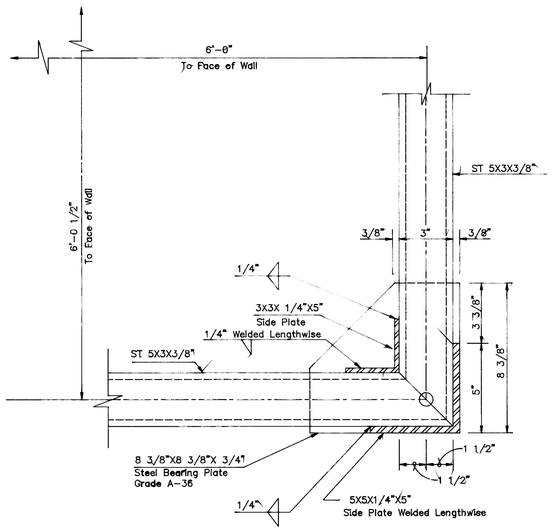
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	
TRANSPORTATION	N/A	9-24-92	WASTE WATER	N/A	
HYDROLOGY	[signature]	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET 5 - 13 OF

Richard Smith
RECORD DRAWINGS 12/94

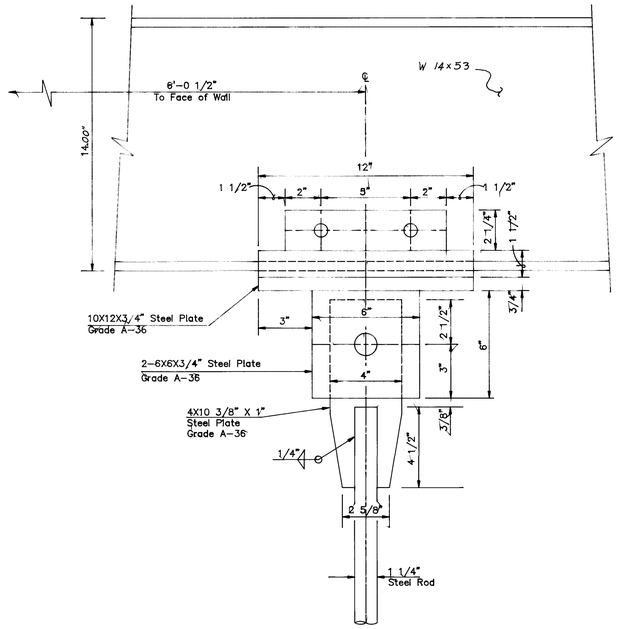
DETAIL-3 APR 7, 1992 15:17:17

148413

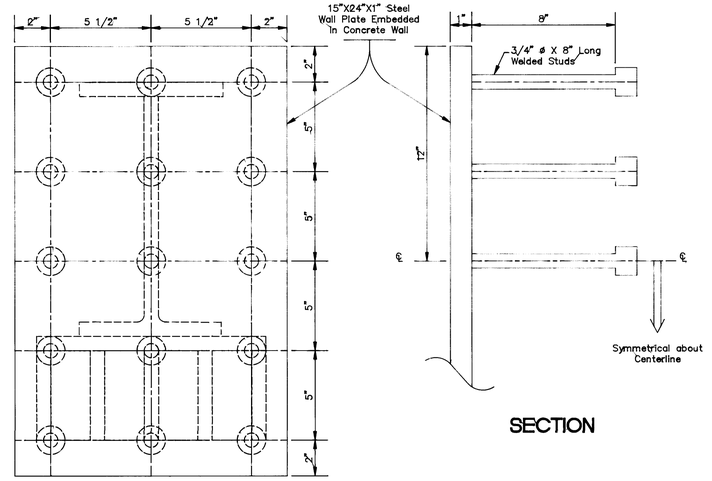


PLAN - PLATFORM SUPPORT DETAILS

SEE SHEET S-11
SCALE: 3" = 1'-0"



SECTION A

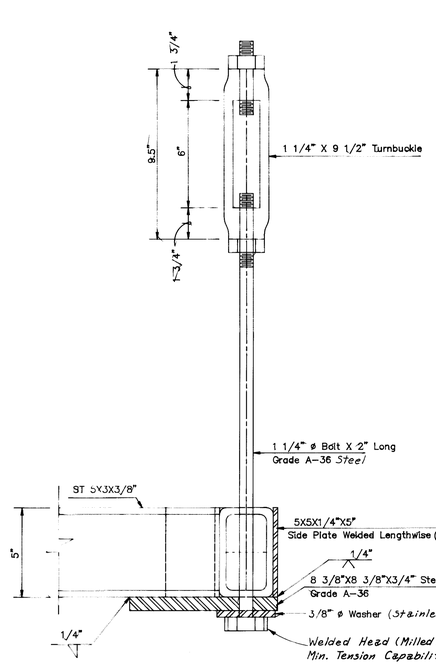


PLAN

SECTION

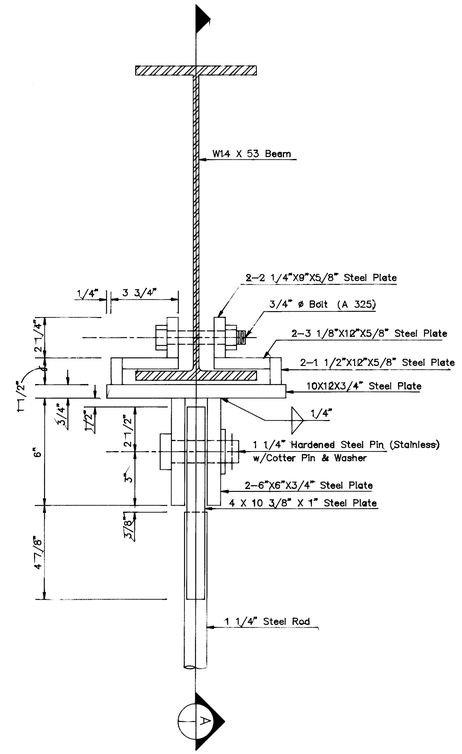
STEEL EMBEDMENT PLATES

NOT TO SCALE



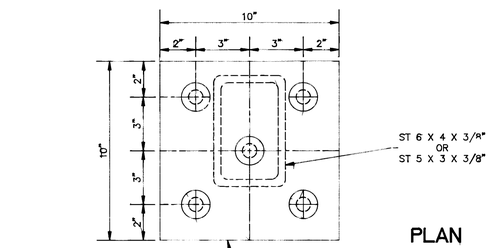
DETAIL 5 - PLATFORM SUPPORT DETAILS

SEE SHEET S-11
SCALE: 3" = 1'-0"

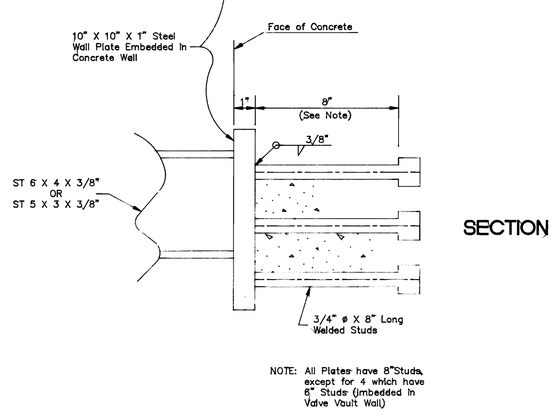


DETAIL 6
STEEL CLAMP FOR PLATFORM SUPPORT ROD

SCALE: 3" = 1'-0"



PLAN



SECTION

STEEL EMBEDMENT PLATE

NOT TO SCALE

NOTE: All Plates have 8"Studs, except for 4 which have 6" Studs (Imbedded in Valve Vault Wall)

26 4271.905695

SCANNED BY LAS

RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RITCO
STAKED BY COA DATE 12/94
INSPECTORS
FIELD CHANGES BY AA-P DATE
FIELD CHANGES BY COA DATE
VERIFICATION BY AA-P DATE
CORRECTIONS MADE BY
CORRECTED BY AA-P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DENNIS E. BOARD NEW MEXICO 6 REGISTERED PROFESSIONAL ENGINEER
5/25/92

REVISIONS

NO.	DATE	REMARKS	BY
DESIGN			
DESIGNED BY	DATE 3-92	D.D.B.	
DRAWN BY	DATE 4-92	J.G.L.	
CHECKED BY	DATE 8-92	D.D.B.	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SOANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91105

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

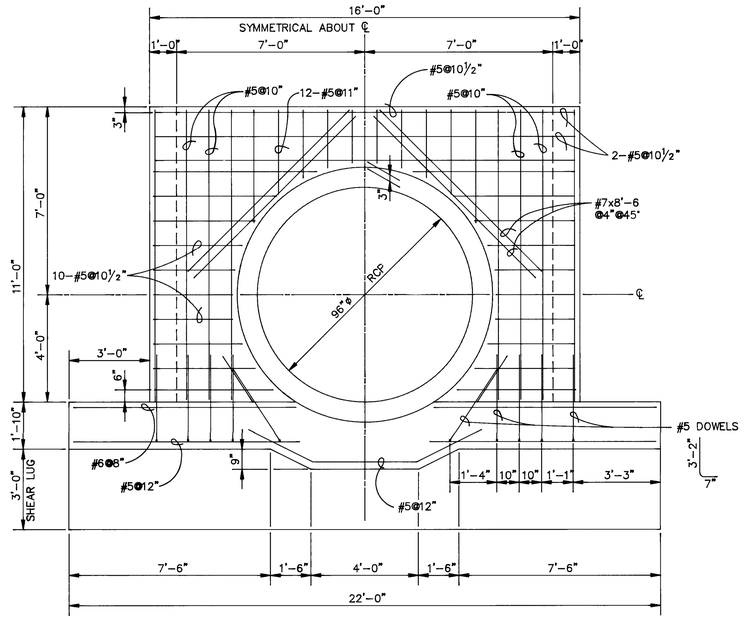
TITLE: **PUMP STATION PLATFORM DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9.24.92	WASTE WATER	[signature]	
HYDROLOGY	[signature]	1-1993			

PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET OF S - 14

DETAIL-4 APR '92 15-47-14

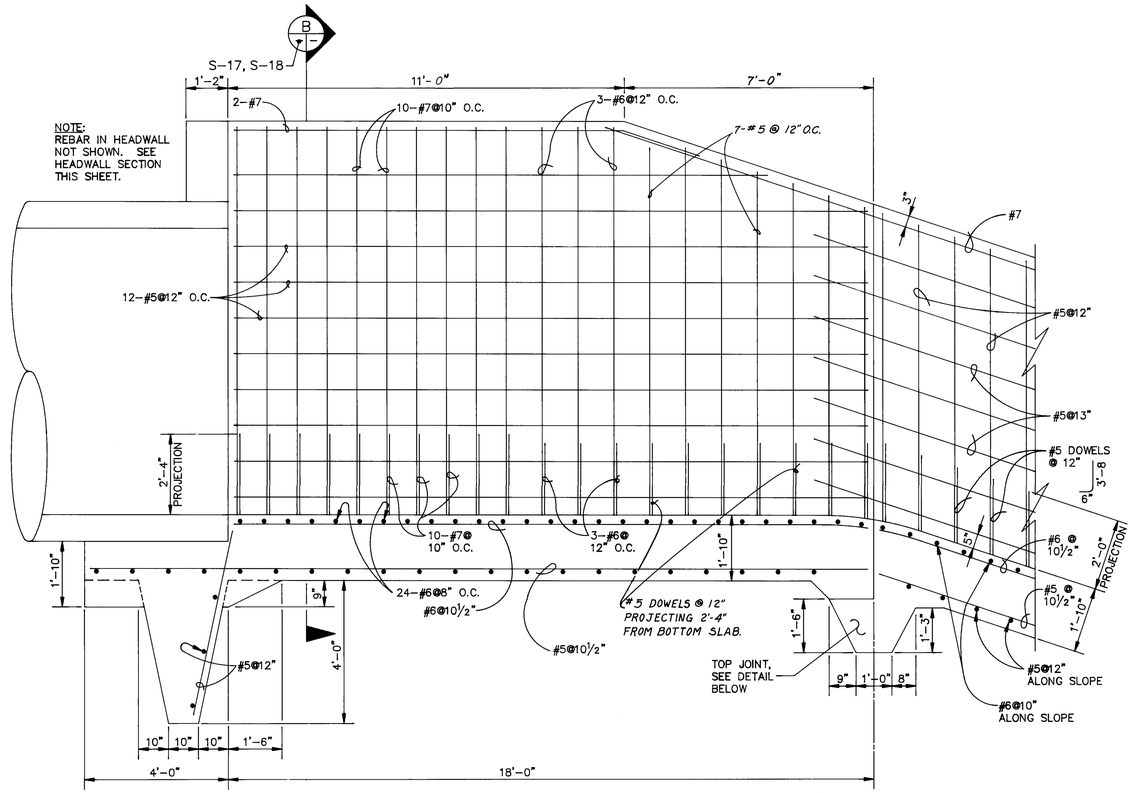
148413



NOTE: PLACE SAME REINFORCING BARS FRONT FACE AND BACK FACE

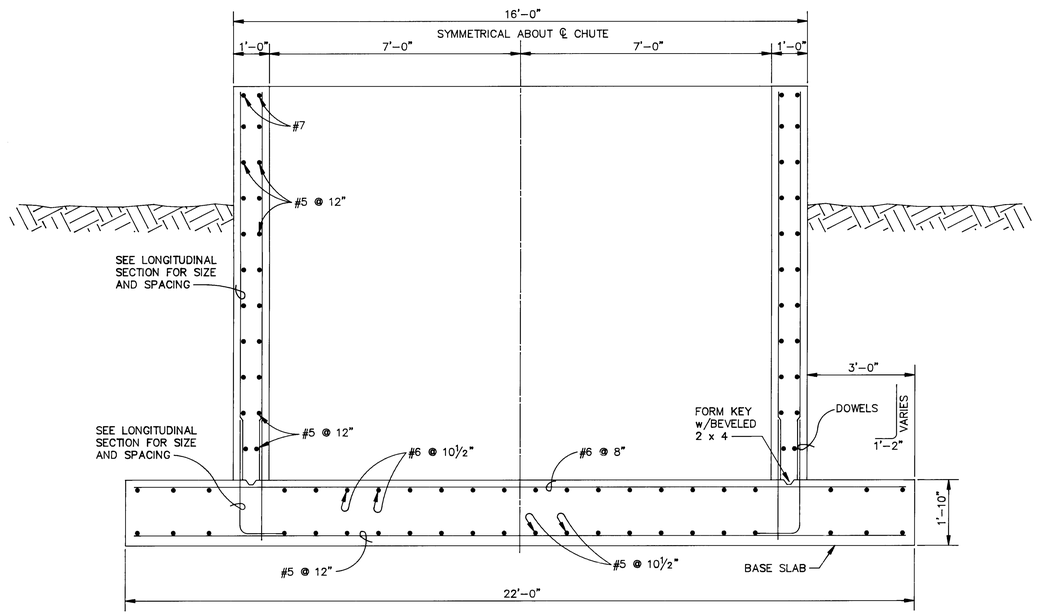
SECTION HEADWALL (A)

SCALE: 3/8" – 1'-0" S-18 S-17



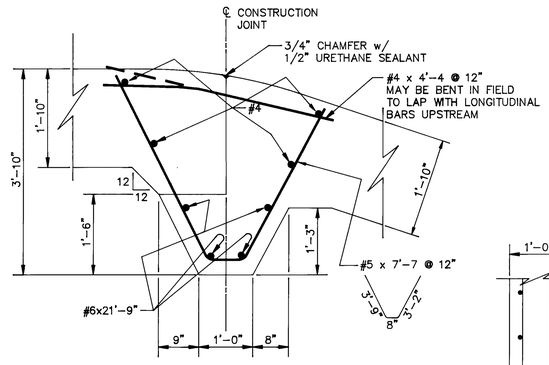
LONGITUDINAL SECTION AT TOP OF CHUTE

SCALE: 1/2" = 1'-0"



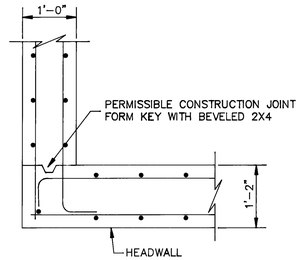
SECTION NEAR TOP OF CHUTE (B)

SCALE: 1/2" – 1'-0"



TOP JOINT DETAIL

SCALE: 3/4" = 1'-0"



HORIZONTAL SECTION NEAR TOP OF HEADWALL

SCALE: 3/4" = 1'-0"

26 4271.906095

SCANNED BY LASON

NOTES

TABLE 1 ~ MINIMUM LAP SPLICE LENGTHS		
BAR SIZE	HORIZONTAL LAP (IN.)	VERTICAL LAP (IN.)
#4	21	16
#5	21	16
#6	26	18
#7	31	24
#8	41	32
#9	52	40

WHERE REINFORCING BAR SPLICES ARE INDICATED ON THE DETAILS, LAP BARS AS SHOWN IN TABLE 1 UNLESS NOTED OTHERWISE.

CONCRETE COVER FOR REINFORCEMENT:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 through #18 bars	2 IN.
#5 bar and smaller	1½ IN.

AS BUILT INFORMATION
CONTRACTOR Amici DATE 12/94
ACCEPTED BY COA
INSPECTORS
ACCEPTANCE BY R.H. BAKER DATE
FIELD
VERIFICATION BY COA
DRAWINGS
CORRECTED BY R.H. BAKER DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
1	4-92	DESIGN	H.T.
2	4-92		B.R.C.
3	8-92		H.T.

DESIGNED BY H.T. DATE 4-92
DRAWN BY B.R.C. DATE 4-92
CHECKED BY H.T. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **STRUCTURE DETAILS**
2ND / CLAREMONT SYSTEM
ENERGY DISSIPATER

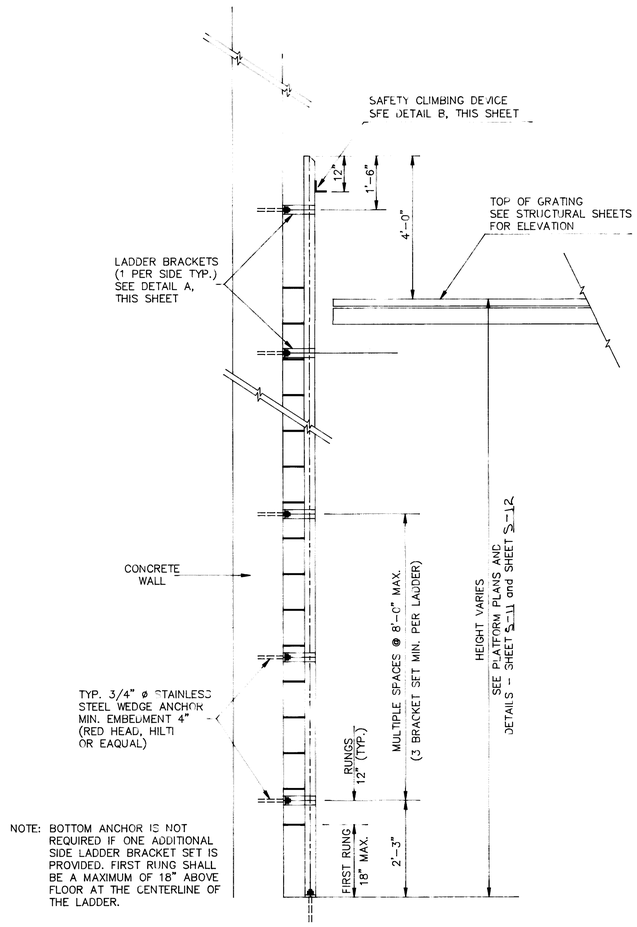
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G. Stockley	2-18-93	WATER	N/A	4-29-93
TRANSPORTATION	M.A. Kelly	9-29-92	WASTE WATER		
HYDROLOGY	Stan Ackley	1-1993			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S-18

Richard Fronk
RECORD DRAWINGS 12/94

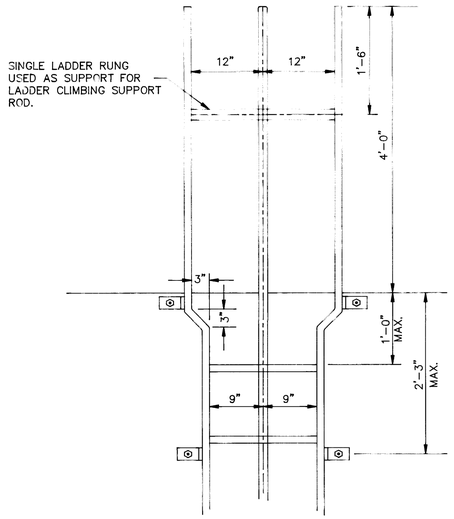
2NSTR01T 08/17/92 02:15:13

148413



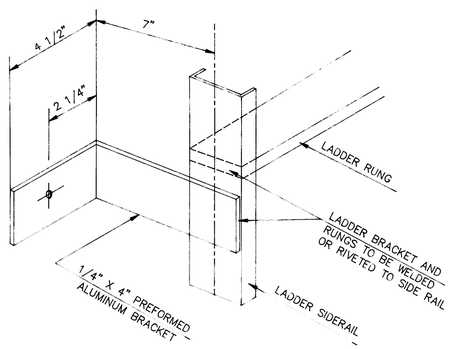
SAFETY LADDER DETAIL

NOT TO SCALE



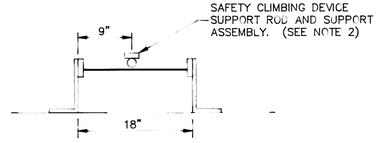
SAFETY LADDER ALTERNATE TOP SECTION DETAIL

NOT TO SCALE



DETAIL A
LADDER BRACKET DETAIL

NOT TO SCALE



DETAIL B
SAFETY LADDER CLIMBING DEVICE

NOT TO SCALE

NOTES

1. Safety Ladder shall be constructed of formed aluminum or stainless steel and aluminum as manufactured by Precision Stair Corporation, P.O. Box 2159, Morristown, Tennessee 37814 – or equal. Safety Ladder shall meet all requirements of OSHA, reguardless of details shown.
2. Side rails shall be 3" x 0.125" wall thickness (minimum) formed from extruded aluminum – 6063T5 alloy.
3. Rungs shall be 2" wide (minimum) formed from extruded aluminum – 6063T5 alloy, shall beerrated for traction, and shall be able to support up to a 1000 pound loading without failure.
4. Safety Climbing Device and Assembly shall be "SAF–T–CLIMB" fall prevention system by North Consumer Products, 2664B Saturn Street Brea, California 92621. Attachment details to ladders shall meet the requirements of OSHA, reguardless of. details shown.
5. Alternate top section to be used when ladder terminates without fixed landing around ladder.

AS BUILT INFORMATION
CONTRACTOR AMCI DATE 12/94
ACCEPTED BY COA DATE
INSPECTORS AS-BUILTS BY P.A.R. DATE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY P.A.R. DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
RICHARD D. BRAND NEW MEXICO 8374 REGISTERED PROFESSIONAL ENGINEER
8/25/92

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY D.D.B.	DATE 2-92
		DRAWN BY J.G.L.	DATE 4-92
		CHECKED BY D.D.B.	DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION LADDER DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.A. Lovato	2-18-93	WATER	N/A	4-22-93
TRANSPORTATION	N/A	9-24-97	WASTE WATER		
HYDROLOGY	Steve Boltz	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S - 15

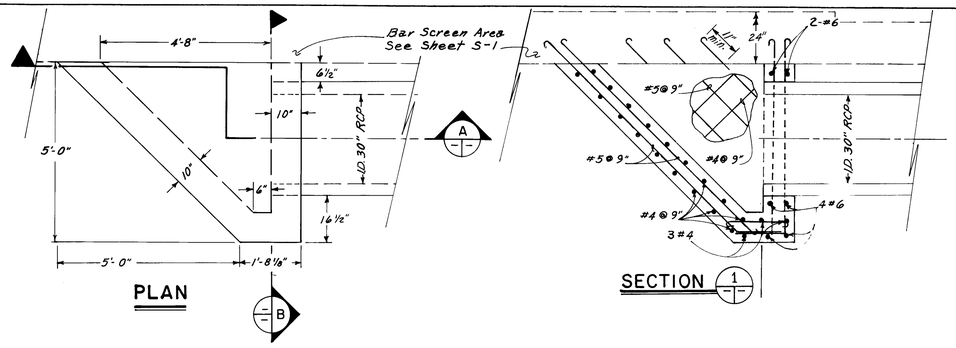
LADDER-3 APR. 7, 1992 09:08:58

26 4271.90 5795

SCANNED BY GASON

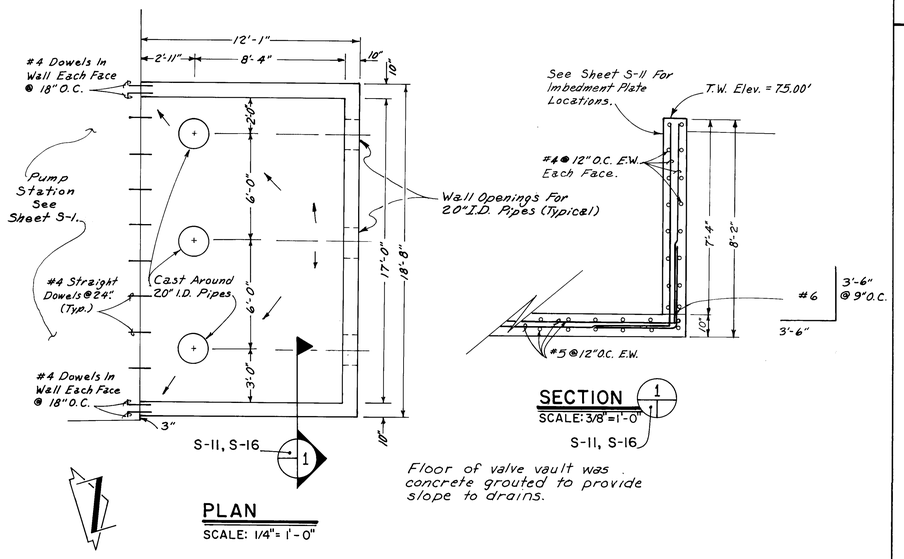
Richard Scott
RECORD DRAWINGS 12/94

148413



BAR SCREEN BYPASS STRUCTURE

SCALE: 1/2" = 1'-0"



PLAN

SCALE: 1/4" = 1'-0"

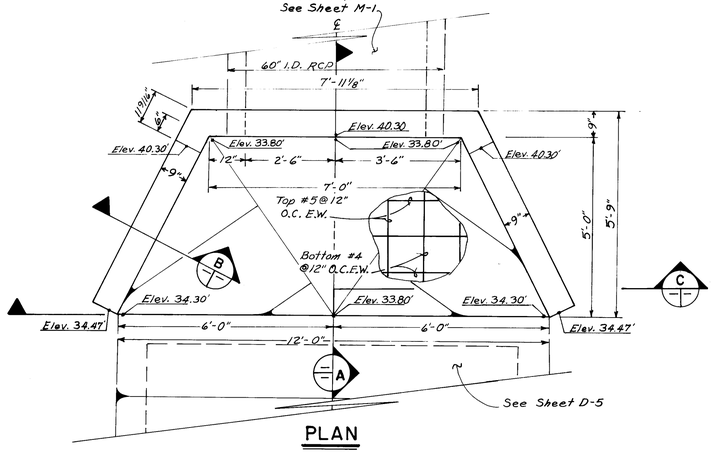
Floor of valve vault was concrete grouted to provide slope to drains.

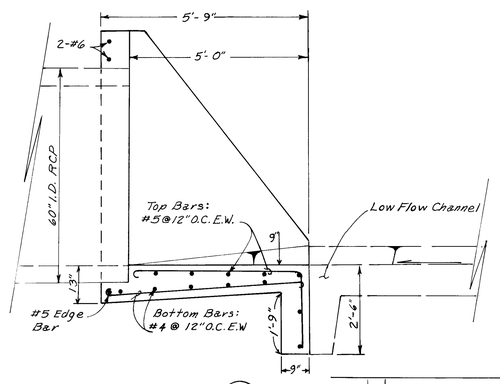
VALVE VAULT DETAILS

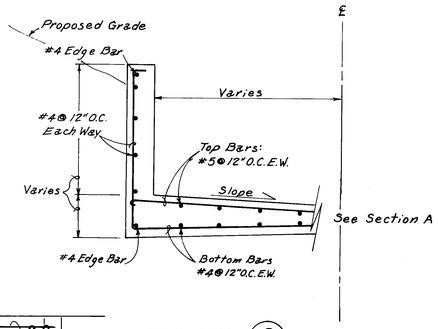
NOTES

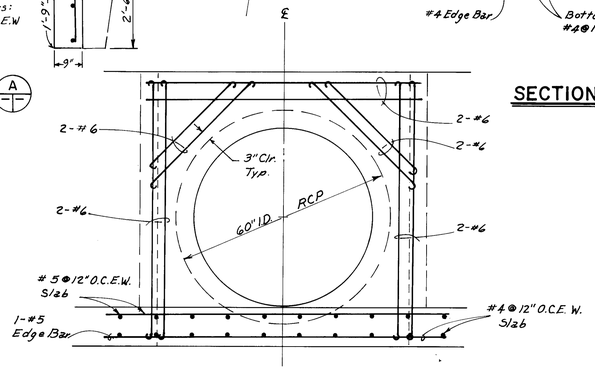
QUANTITIES AND PAYMENT

1. Valve Vault And Bar Screen Bypass Are Included In The Item Called "Pump Station Structural."
2. Payment For The "Pump Station Inlet Pipe Endwall, Complete In Place" Shall Be Made At The Lump Sum Price. All Associated Work Including, But Not Limited To, Reinforced Concrete, Joints, Structural Excavation, And Backfill And Compaction Shall Be Included In The Lump Sum. The Estimated Plan Quantity For Reinforced Concrete Is Given For The Contractor's Information Only, And Shall Not Be The Basis For Payment.
   Reinforced Concrete, 4000 psi - 6.2 Cu. Yd.









PIPE ENDWALL DETAILS

SCALE: 1/2" = 1'-0"

26 4271.9058F15

SCANNED BY MICROFILM

RECORD DRAWINGS 12/94

SURVEY INFORMATION			BENCH MARKS	AS BUILT INFORMATION
FIELD NOTES				CONTRACTOR R.M.C.I. DATE 12/94
NO.	BY	DATE		WORK STAKED BY: INSPECTOR'S ACCEPTANCE BY: FIELD VERIFICATION BY: DRAWINGS CHECKED BY: COA DATE RH DATE COA DATE RH DATE MICRO-FILM INFORMATION
1	Survey Services	8-91		RECORDED BY DATE
2	Survey Services	8-91		NO

ENGINEER'S SEAL

DENNIS D. BOARD NEW MEXICO 9781 REGISTERED PROFESSIONAL ENGINEER 8/27/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		D.D.B. DATE 4-92	
DRAWN BY		J.G.L. DATE 4-92	
CHECKED BY		D.D.B. DATE 8-92	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9110.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PUMP STATION PUMP VAULT AND PIPE ENDWALL DETAILS**

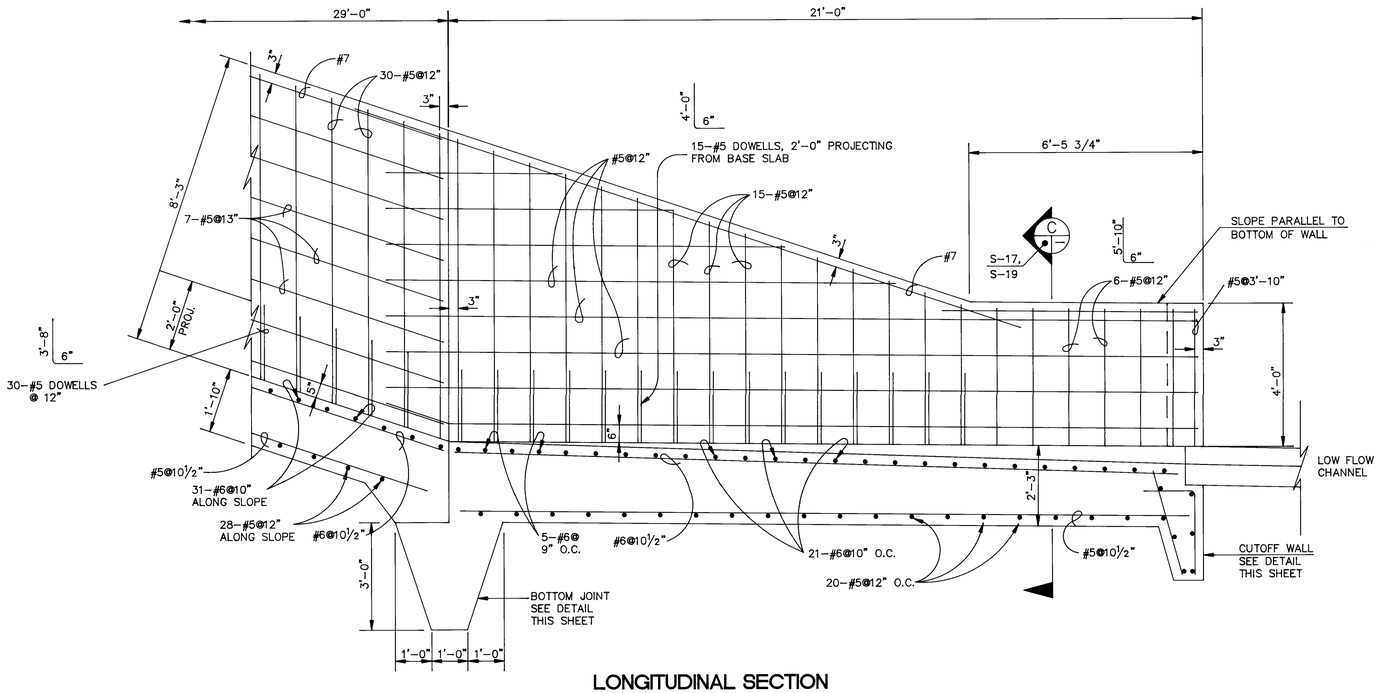
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.A. Sanchez	2-18-93	WATER	N/A	N/A
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY	Steve Boberg	1-19-93			

PROJECT NO. 4271.90 | MAP NO. G-14, 15 H-14, 15 | SHEET 5 - 16 OF

Richard Lovato

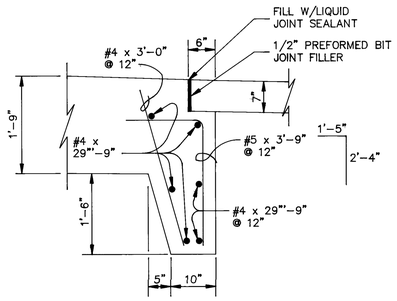
CITY-DET 18/08/91 09:08:56

148413



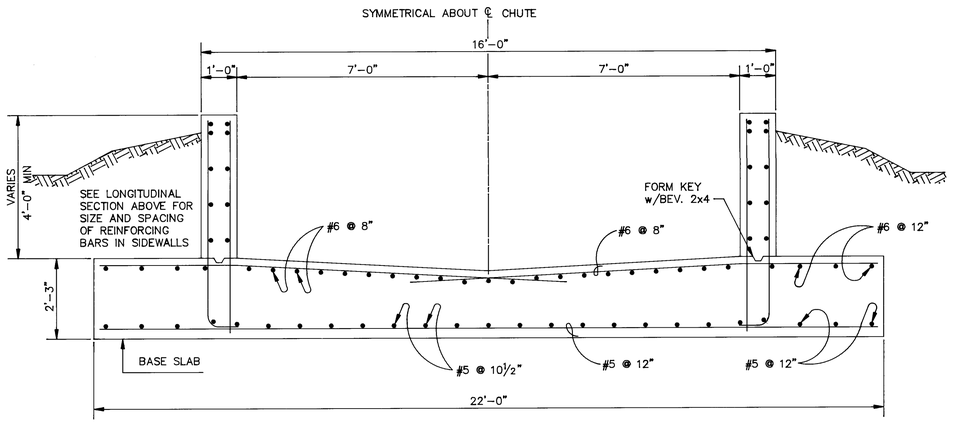
LONGITUDINAL SECTION AT BOTTOM OF CHUTE

SCALE: 1/2" = 1'-0"



CUTOFF WALL DETAIL

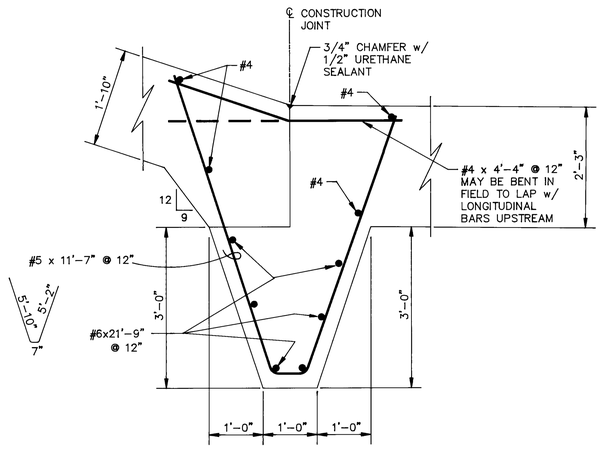
SCALE: 3/4" = 1'-0"



SECTION NEAR BOTTOM OF CHUTE

SCALE: 1/2" – 1'-0"

S-17, S-19



BOTTOM JOINT DETAIL

SCALE: 3/4" = 1'-0"

NOTES

TABLE 1 ~ MINIMUM LAP SPLICE LENGTHS		
BAR SIZE	HORIZONTAL LAP (IN.)	VERTICAL LAP (IN.)
#4	21	16
#5	21	16
#6	26	18
#7	31	24
#8	41	32
#9	52	40

WHERE REINFORCING BAR SPLICES ARE INDICATED ON THE DETAILS, LAP BARS AS SHOWN IN TABLE 1 UNLESS NOTED OTHERWISE.

CONCRETE COVER FOR REINFORCEMENT:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 through #18 bars 2 IN.
- #5 bar and smaller 1½ IN.

26 4271.906195

SCANNED BY LASON

RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR R.M.C. DATE 12/94
WORKED BY STAKED BY C.O.A.
INSPECTORS AS-CONSTRUCTED BY R.H. APP. DATE
FIELD VERIFICATION BY C.O.A. DATE
DRAWING CORRECTED BY R.H. APP. DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 7121

NO	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	H.T. DATE 4-92
			B.R.C. DATE 4-92
			H.T. DATE 8-92

DESIGNED BY
DRAWN BY
CHECKED BY

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

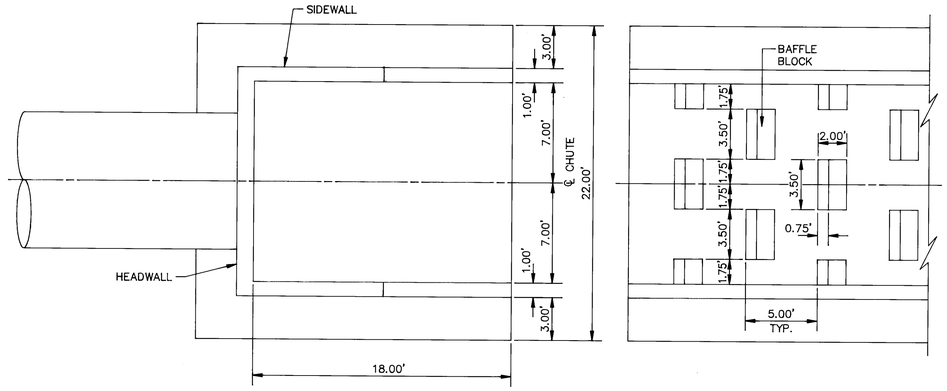
TITLE: **STRUCTURE DETAILS 2ND STREET / CLAREMONT SYSTEM ENERGY DISSIPATER**

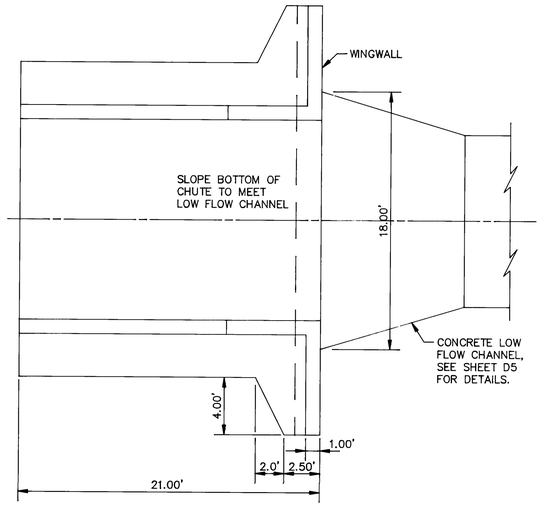
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	4-21-93
TRANSPORTATION		9.24.92	WASTE WATER		
HYDROLOGY		1.19.93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S-19

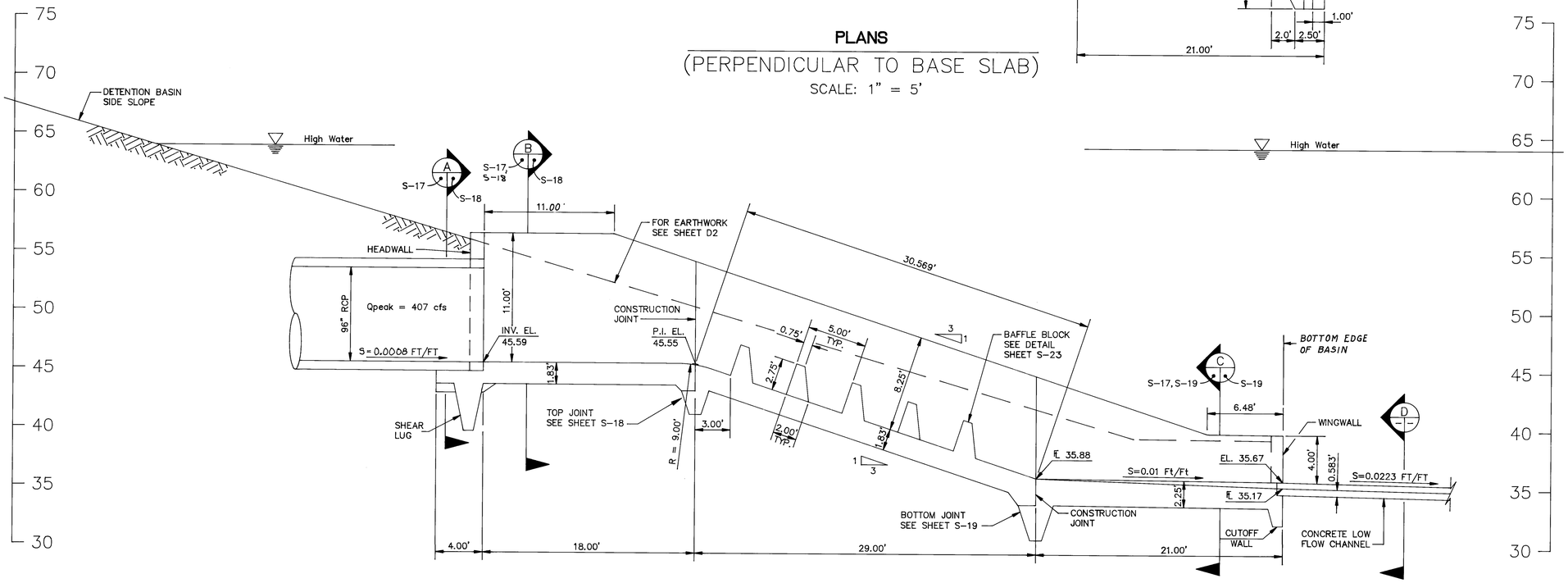
2NSTR012 08/17/92 08:42:24

148413

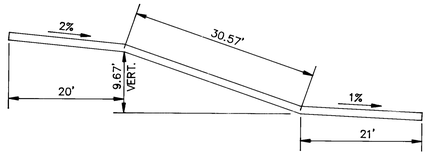




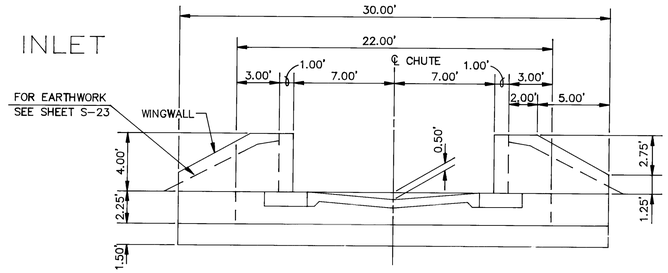
PLANS
(PERPENDICULAR TO BASE SLAB)
SCALE: 1" = 5'



BAFFLED APRON ENERGY DISSIPATER
ELEVATION AT ℄ OF CHUTE
2ND STREET / CLAREMONT SYSTEM INLET
SCALE: 1" = 5'



LAYOUT
SCHEMATIC OF DRAIN PIPE
NOT TO SCALE



SECTION
CHANNEL
SCALE: 1" = 5'

NOTES

DESIGN CRITERIA

DESIGN IS IN ACCORDANCE WITH ACI 318–89 ACI BUILDING CODE.

STRENGTH DESIGN – LFD

STRUCTURAL CONCRETE: f' = 4000 psi @ 28 DAYS
n = 8

REINFORCING STEEL: fy = 60 ksi

DEFLECTION LIMIT AND CRACK CONTROL IN ACCORD WITH ACI 350R–89, ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES:
Z = 130

WATER PRESSURE ON BAFFLE BLOCKS:

FORMULA (24) FROM "DESIGN OF SMALL DAMS" BY U.S. BUREAU OF RECLAMATION, 2ND ED. 1977, PG. 396.

SOILS DATA:

SEE GEO–TEST REPORT

SATURATED SOIL	125 pcf
MOIST SOIL	115 pcf
Ko (for Rankine's Formula)	0.30
ALLOWABLE FOOTING PRESSURE	3.0 ksf

QUANTITIES AND PAYMENT

PAYMENT FOR THE "2ND STREET/CLAREMONT ENERGY DISSIPATER, COMPLETE", SHALL BE MADE AT THE LUMP SUM PRICE. ALL ASSOCIATED WORK, INCLUDING, BUT NOT LIMITED TO REINFORCED CONCRETE, JOINTS, PERF. PIPE, STONE AND FILTER FABRIC, STRUCTURAL EXCAVATION AND BACKFILL SHALL BE INCLUDED UNDER THE LUMP SUM. THE ESTIMATED PLAN QUANTITY, FOR REINFORCED CONCRETE IS GIVEN FOR THE CONTRACTOR'S INFORMATION ONLY, AND SHALL NOT BE THE BASIS FOR PAYMENT.

REINFORCED CONCRETE, 4000 PSI
187 CU. YARDS

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTORS ACCEPTANCE BY RW RMCI DATE
VERIFICATION BY COA DATE
CONSTRUCTED BY RMCI DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47–11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47–11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
4.	SURVEY SERVICES	8-92
3.	"	8-92
2.	"	8-92

ENGINEER'S SEAL
STATE OF NEW MEXICO
PROFESSIONAL ENGINEER
6011

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
	DATE 4-92	DESIGNED BY H.T.	
	DATE 4-92	DRAWN BY B.R.C.	
	DATE 8-92	CHECKED BY H.T.	

26 4271.905995

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **STRUCTURE DETAILS**
2ND STREET / CLAREMONT SYSTEM
ENERGY DISSIPATER

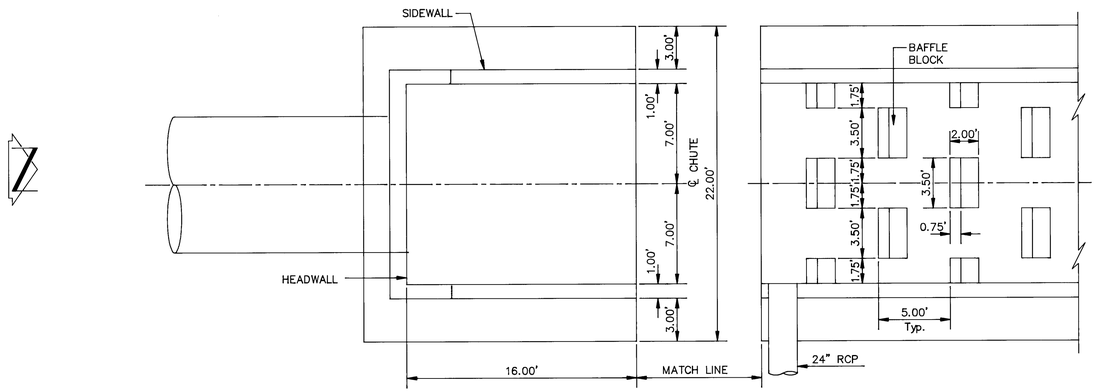
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	4-24-92
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY		1-19-93			

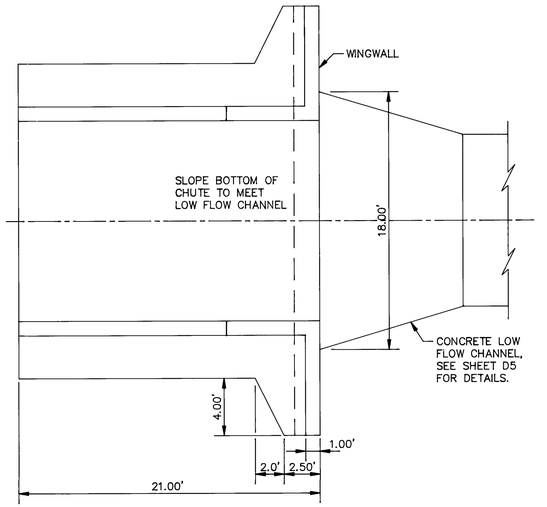
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET S-17 OF

SCANNED BY IMAGE LASER

Richard Smith
RECORD DRAWINGS 12/94

148413

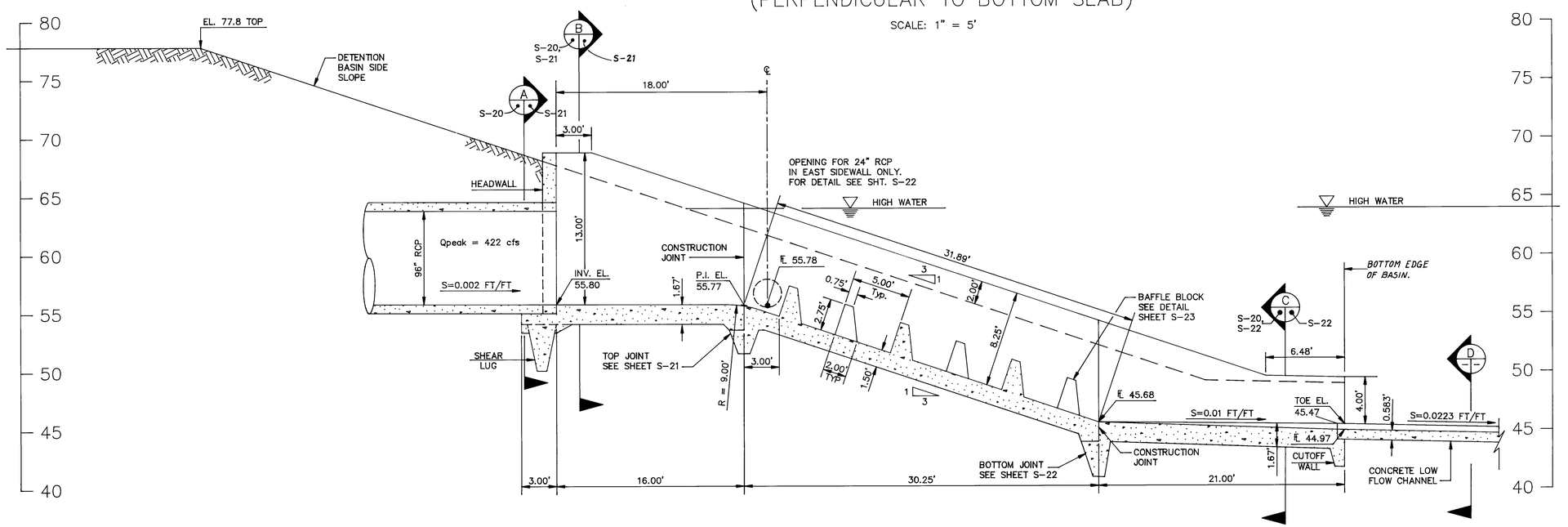




PART PLANS

(PERPENDICULAR TO BOTTOM SLAB)

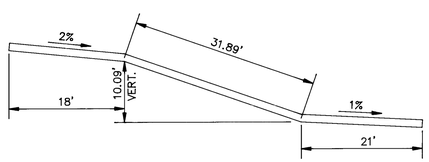
SCALE: 1" = 5'



BAFFLED APRON ENERGY DISSIPATER

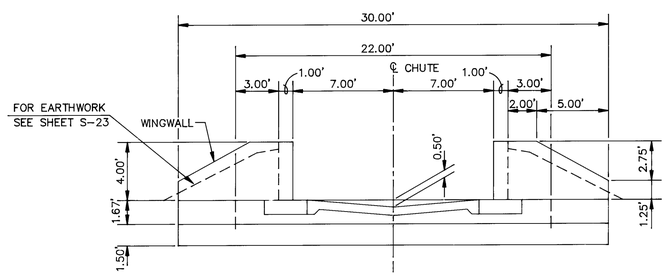
SECTION AT ℄ OF CHUTE
ODELIA SYSTEM INLET

SCALE: 1" = 5'



LAYOUT
SCHEMATIC OF DRAIN PIPE

NOT TO SCALE



SECTION D
CHANNEL

SCALE: 1" = 5'

NOTES

DESIGN CRITERIA

DESIGN IS IN ACCORDANCE WITH ACI 318-89 ACI BUILDING CODE.

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STRUCTURAL CONCRETE: f' = 4000 psi @ 28 DAYS
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SOILS DATA:

SEE GEO-TEST REPORT

SATURATED SOIL	125 pcf
MOIST SOIL	115 pcf
Ka (for Rankine's Formula)	0.30
ALLOWABLE FOOTING PRESSURE	3.0 ksf

QUANTITIES AND PAYMENT

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REINFORCED CONCRETE, 4000 PSI
173 CU. YARDS

AS BUILT INFORMATION
CONTRACTOR BTCL DATE 12/94
ACCEPTED BY COA
STAMED BY INSPECTORS DATE
ACCEPTANCE BY RH 8A-12 DATE
FIELD VERIFICATION BY COA DATE
CHANGES CORRECTED BY BAH 8A-12 DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11". SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1.	Sarvis Services	9-93
2.	" "	8-93

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
DESIGN			
DESIGNED BY	DATE 4-92	H.T.	
DRAWN BY	DATE 4-92	R.R.C.	
CHECKED BY	DATE 8-92	H.T.	

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **STRUCTURE DETAILS ODELIA SYSTEM ENERGY DISSIPATER**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION		9-24-92	WASTE WATER		
HYDROLOGY		1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S-20

26 4271.906295

SCANNED BY

RECORD DRAWINGS 12/94

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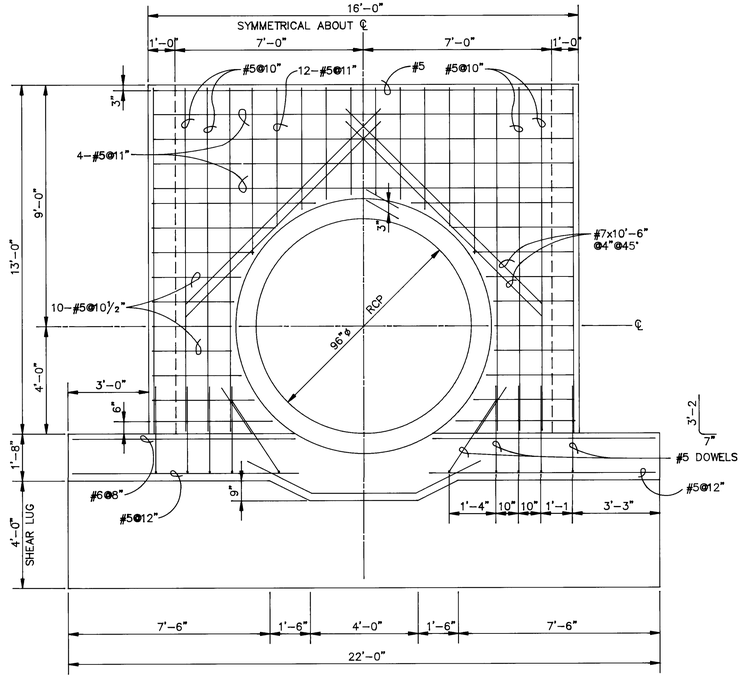


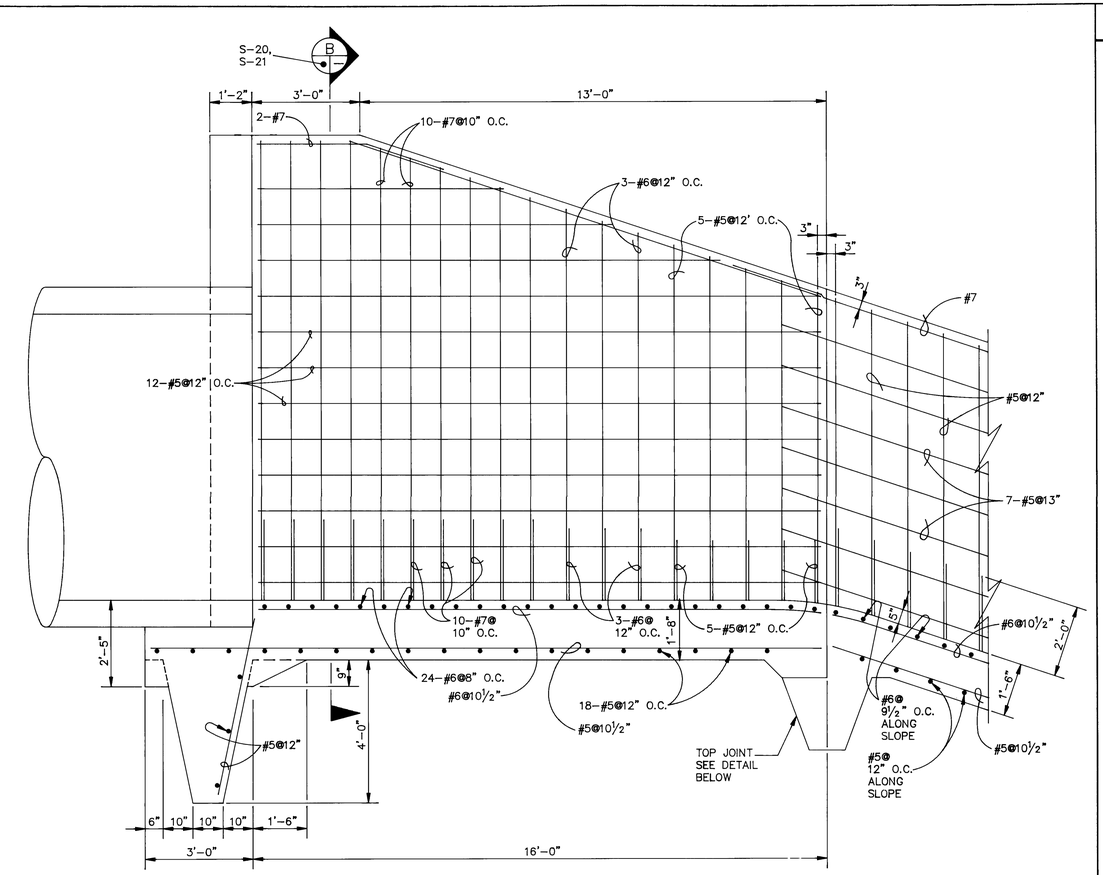
SECTION HEADWALL

A

S-21 S-20

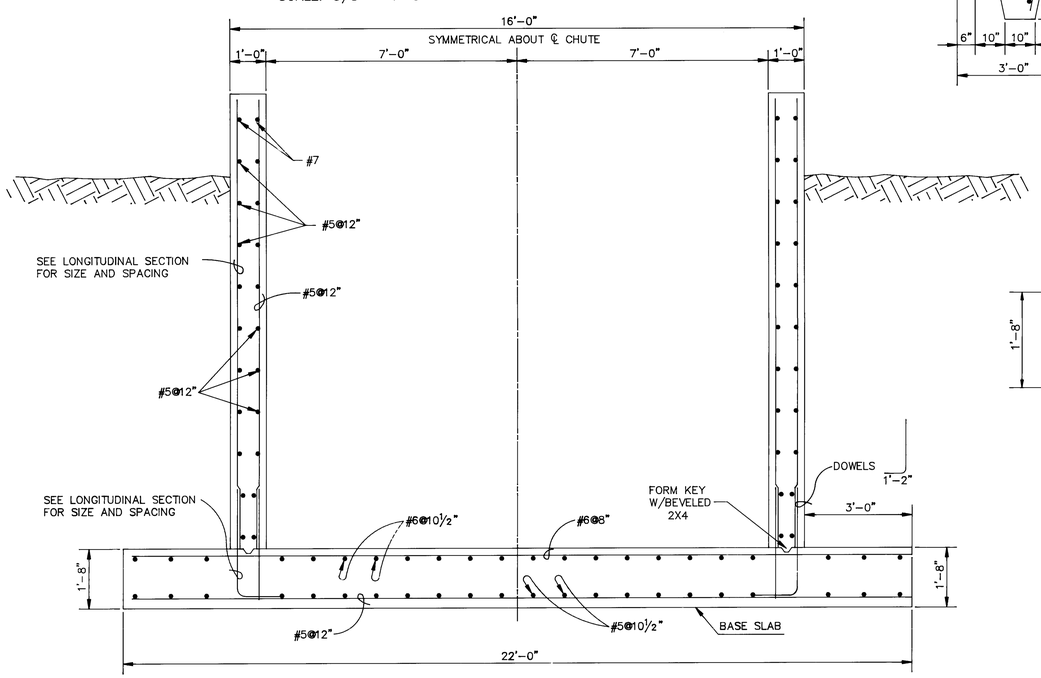
SCALE: 3/8" – 1'-0"

NOTE: PLACE SAME REINFORCING BARS NEAR SIDE AND FAR SIDE.



LONGITUDINAL SECTION AT TOP OF CHUTE

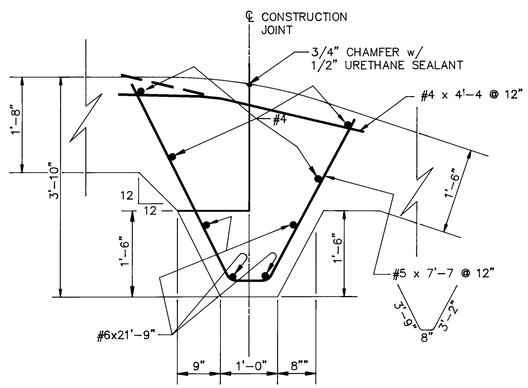
SCALE: 1/2" = 1'-0"



SECTION NEAR TOP OF CHUTE

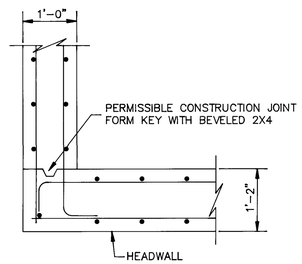
B

SCALE: 1/2" – 1'-0"



TOP JOINT DETAIL

NOT TO SCALE



HORIZONTAL SECTION NEAR TOP OF HEADWALL

SCALE: 3/4" = 1'-0"

NOTES

TABLE 1 ~ MINIMUM LAP SPLICE LENGTHS		
BAR SIZE	HORIZONTAL LAP (IN.)	VERTICAL LAP (IN.)
#4	21	16
#5	21	16
#6	26	18
#7	31	24
#8	41	32
#9	52	40

WHERE REINFORCING BAR SPLICES ARE INDICATED ON THE DETAILS, LAP BARS AS SHOWN IN TABLE 1 UNLESS NOTED OTHERWISE.

CONCRETE COVER FOR REINFORCEMENT:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 through #18 bars 2 IN.
- #5 bar and smaller 1½ IN.

AS BUILT INFORMATION
CONTRACTOR RMC/ DATE 12/94
MARKED BY COA
INSPECTORS
AS-BUILT BY R.H. AP: 12 DATE
FIELD
VERIFICATION BY COA DATE
DRAWING
CORRECTED BY R.H.A./ DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
1	4-92	DESIGN	H.T.
2	4-92		B.R.C.
3	8-92		H.T.

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

JOB No. 91106

DESIGNED BY
DRAWN BY
CHECKED BY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **STRUCTURE DETAILS ODELIA SYSTEM ENERGY DISSIPATER**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER	N/A	N/A
TRANSPORTATION	N/A	2-18-93	WASTE WATER	N/A	4-21-93
HYDROLOGY		9.24.92			
		1993			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S-21

26 4271.906395

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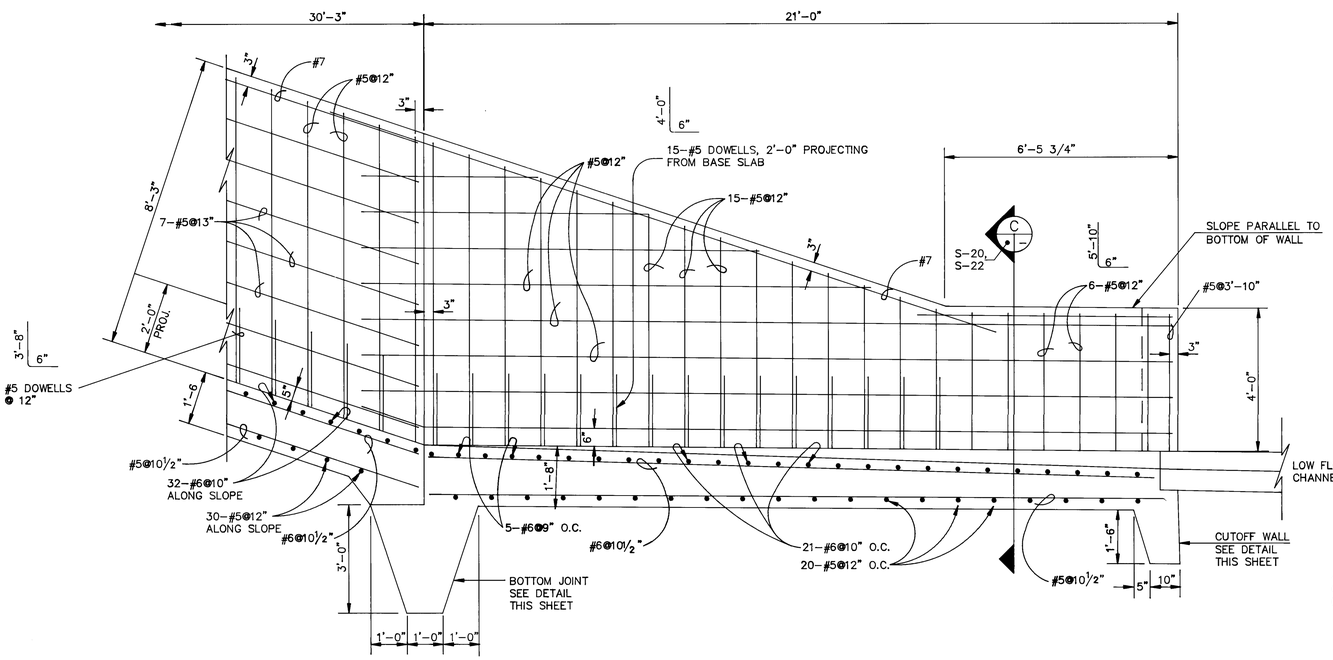
SCANNED BY LASON

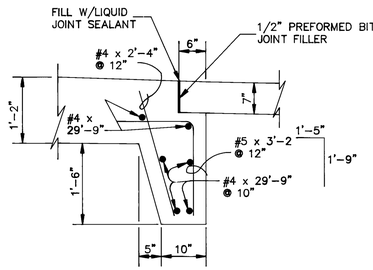
RECORD DRAWINGS 12/94

148413



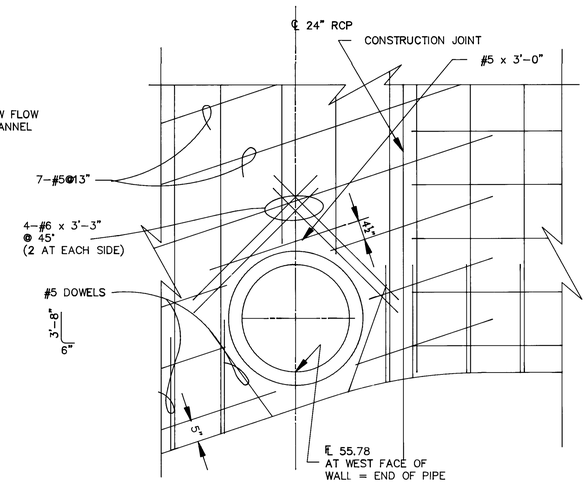
LONGITUDINAL SECTION AT BOTTOM OF CHUTE

SCALE: 1/2" = 1'-0"



CUTOFF WALL DETAIL

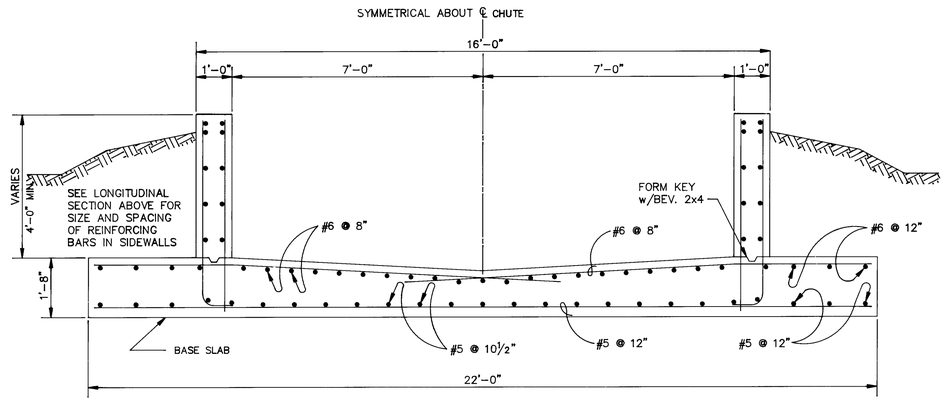
SCALE: 3/4" = 1'-0"



DETAIL OF OPENING FOR 24" RCP IN EAST SIDEWALL

(LOOKING EAST)

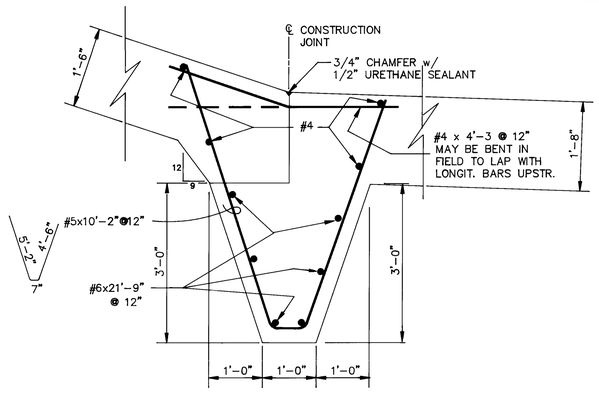
SCALE: 3/4" = 1'-0"



SECTION NEAR BOTTOM OF CHUTE

SCALE: 1/2" – 1'-0"

S-20, S-22



BOTTOM JOINT DETAIL

SCALE: 3/4" = 1'-0"

26 4271 .906495

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
ACCEPTED BY CITY ENGINEER COA DATE
INSPECTORS ACCEPTANCE BY RH, AB DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH, AB DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS
NO. DATE REMARKS BY
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **STRUCTURE DETAILS ODELIA SYSTEM ENERGY DISSIPATER**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goodwin	2-18-93	WATER	N/A	
TRANSPORTATION	N/A RHO	9.24.92	WASTE WATER	MJB	9-24-92
HYDROLOGY	Steve Lobyn	1.19.93			

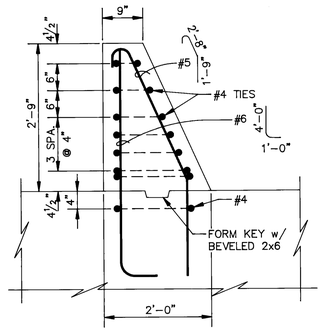
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S-22

DGSTR072 08/17/92 15:48:44

SCANNED BY MICROFILMING BY JACKSON

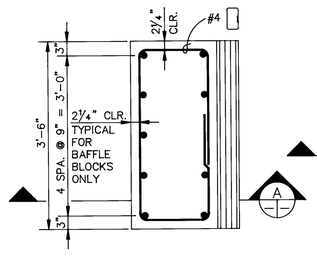
Lichey Scott
RECORD DRAWINGS 12/94

148413



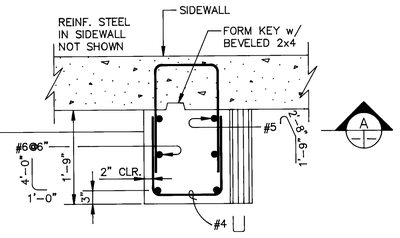
SECTION

SCALE: 3/4" = 1'-0"



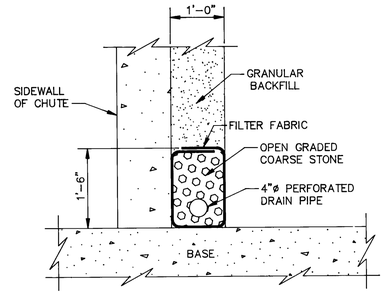
PLAN - FULL BLOCK

SCALE: 3/4" = 1'-0"



PLAN -
PARTIAL BLOCK AT SIDEWALL

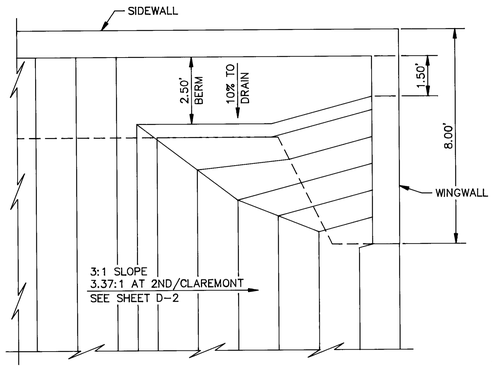
SCALE: 3/4" = 1'-0"



DRAIN DETAIL - TYPICAL

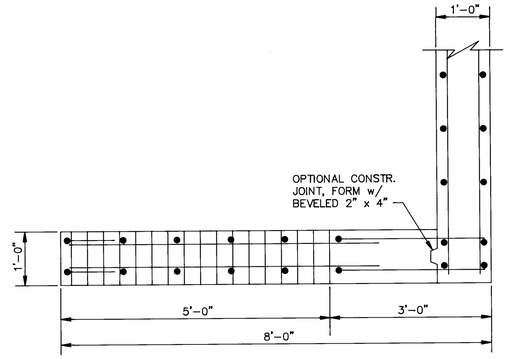
SCALE: 3/4" = 1'-0"

BAFFLE BLOCK DETAILS - TYPICAL



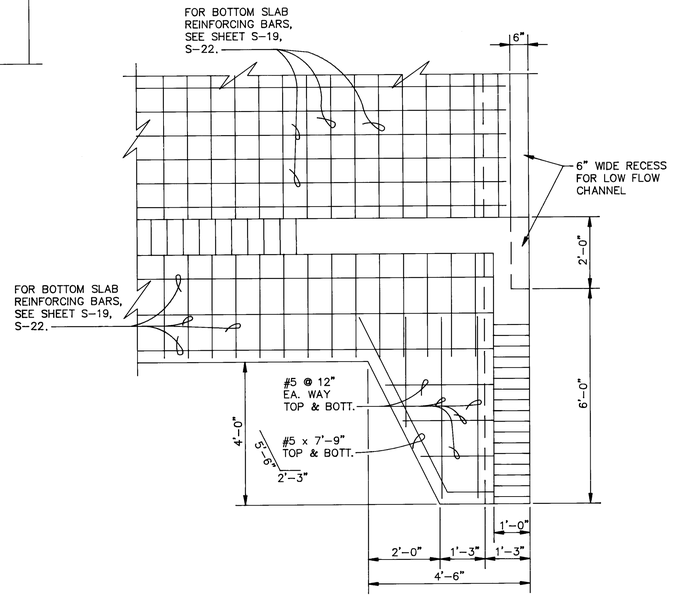
GRADING PLAN
AT WINGWALL - TYPICAL

SCALE: 3/8" = 1'-0"



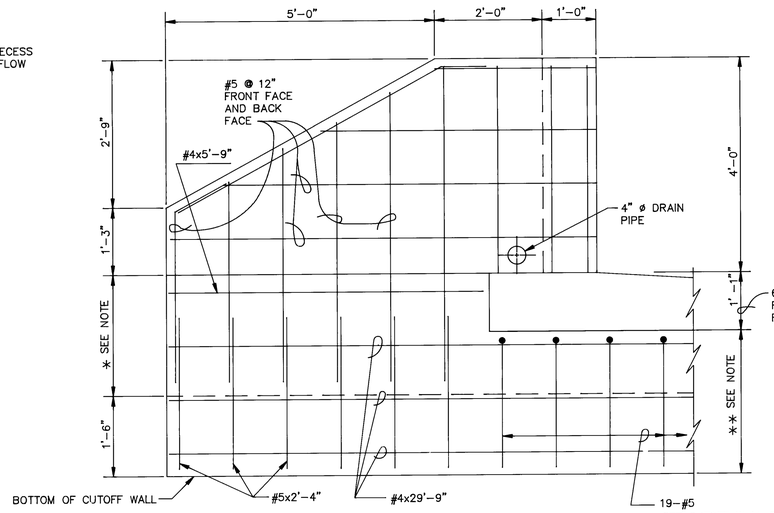
WINGWALL PLAN - TYPICAL

SCALE: 3/4" = 1'-0"



WINGWALL FOOTING PLAN - TYPICAL

SCALE: 1/2" = 1'-0"



WINGWALL ELEVATION - TYPICAL

SCALE: 3/4" = 1'-0"

* 2'-3" - FOR 2ND / CLAREMONT SYSTEM
1'-8" - FOR ODELIA SYSTEM

** 2'-8" - FOR 2ND / CLAREMONT SYSTEM
2'-1" - FOR ODELIA SYSTEM

NOTES

TABLE 1 ~ MINIMUM LAP SPLICE LENGTHS		
BAR SIZE	HORIZONTAL LAP (IN.)	VERTICAL LAP (IN.)
#4	21	16
#5	21	16
#6	26	18
#7	31	24
#8	41	32
#9	52	40

WHERE REINFORCING BAR SPLICES ARE INDICATED ON THE DETAILS, LAP BARS AS SHOWN IN TABLE 1 UNLESS NOTED OTHERWISE.

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12-94
WORK STAKED BY COA DATE
INSPECTED BY RH AAJ DATE
ACCEPTANCE BY COA DATE
FIELD LOCATION BY RH ARC DATE
DRAWINGS CORRECTED BY MICRO-FILM INFORMATION DATE
RECORDED BY
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS
NO. DATE REMARKS BY
1 4-92 D.R.C.
DESIGNED BY H.T.
DRAWN BY D.R.C.
CHECKED BY H.T.

26 4271.906595

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STRUCTURE DETAILS
ENERGY DISSIPATERS

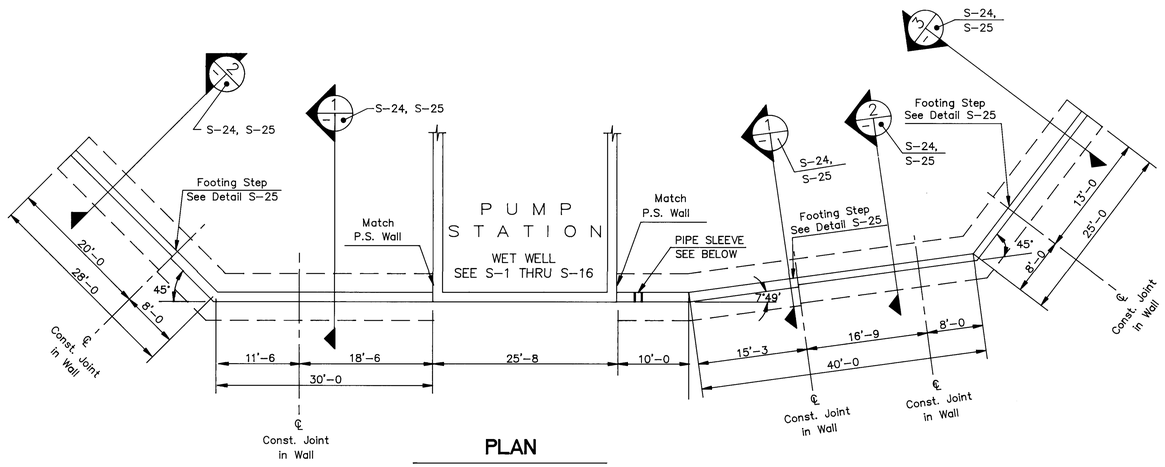
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A [signature]	4-24-92
TRANSPORTATION	N/A RHO	4.24.92	WASTE WATER		
HYDROLOGY	Steve Baczy	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET 5-23 OF

SCANNED BY BY LASON

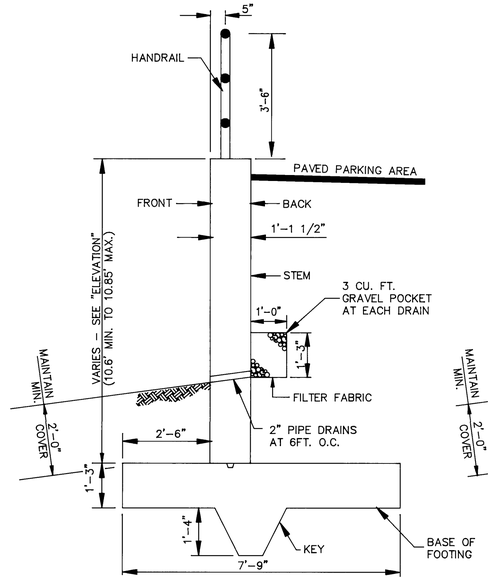
Richard Smith
RECORD DRAWINGS 12/94

BAD_DET 08/17/92 16:17:14



PLAN

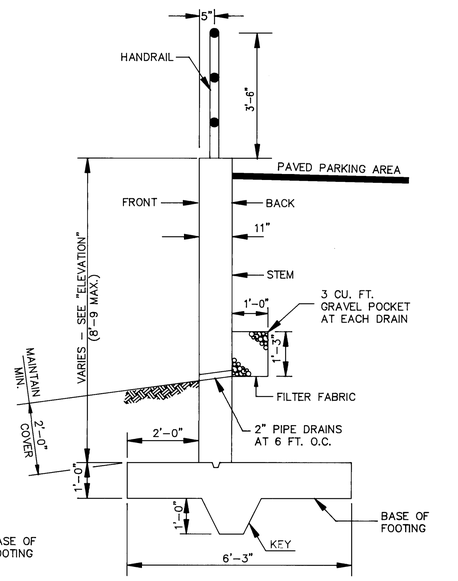
SCALE: 1" = 10'-0"



SECTION 1

SCALE: 1/2" - 1'-0"

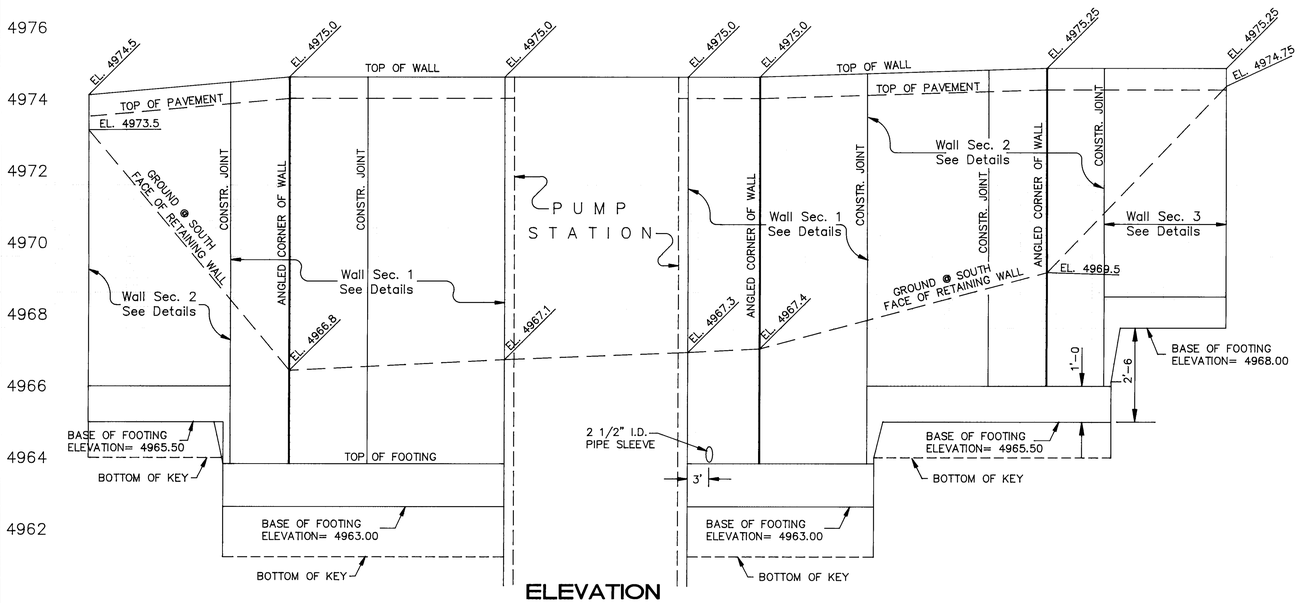
S-24 — S-24, S-25



SECTION 2

SCALE: 1/2" - 1'-0"

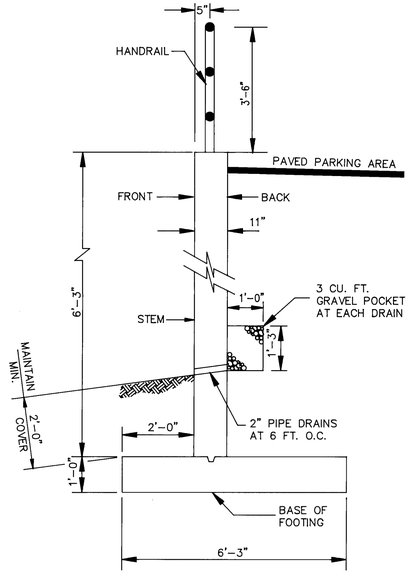
S-24 — S-24, S-25



ELEVATION

SCALE: 1" = 10'-0" HORZ.
SCALE" 1" - 2'-0" VERT.

DIMENSIONING IS ALONG
BACK OF STEM



SECTION 3

SCALE: 1/2" - 1'-0"

S-24 — S-24, S-25

QUANTITIES AND PAYMENT

Payment for the "Retaining Wall, RPCC, complete in place" shall be made at the Lump sum price. All associated work, including but not limited to reinforced concrete, pipe drains, & stone & filter fabric, structural excavation and backfill, shall be included under the Lump sum. The estimated plan quantity for reinforced concrete is given for the Contractor's information only, and shall not be the basis for payment.

Reinforced concrete, 4000 psi - 93 cu. yards

26 4271.906693

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PLAN & PROFILE RETAINING WALLS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B.G. Sudbury	2-18-93			
Trans. Dev.	N/A	9-24-92			
Utility Dev.	N/A	9-24-92			
HYDROLOGY	Steve Ewberg	1-1993			

DRAWING NO.	MAP NO.	SHEET OF
4271.90		S-24

CLAREMONT, CANDELARIA, AND 2ND STREET NORTH STORM DRAIN IMPROVEMENTS

SCANNED BY LASON

Richard Smart
RECORD DRAWINGS 12/94

AS BUILT INFORMATION
A.C.A. - R.M.C.
INSP. INIT. DATE 12/94
ALL DEVIATIONS BY C.O.A. DATE
RH 4/95
ALL CHANGES NOTED ON AS-BUILT DRAWINGS BY C.O.A. DATE
RH 4/95
MICRO FILM INFORMATION BY: INITIAL DATE

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (SLD 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES BY: Surveys & Mapping DATE: 8-93

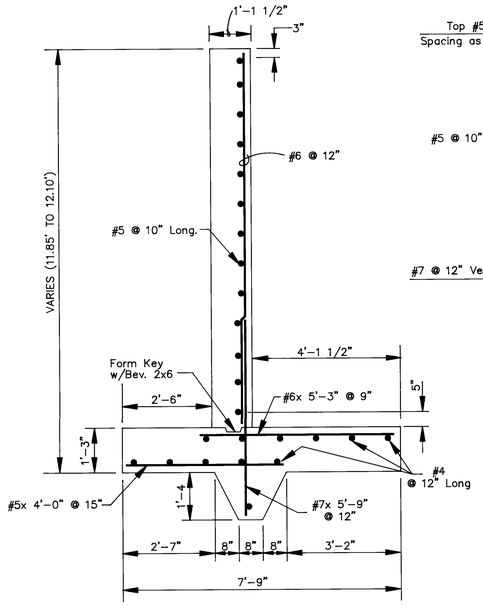
NO.	REMARKS	DATE	BY
1.	REVISIONS	4-93	H.T.
2.	DESIGN	4-93	R.R.C.
		8-93	H.T.

DESIGNED BY
DRAWN BY
CHECKED BY

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO

RETML-PP 08/18/92 09:07:34

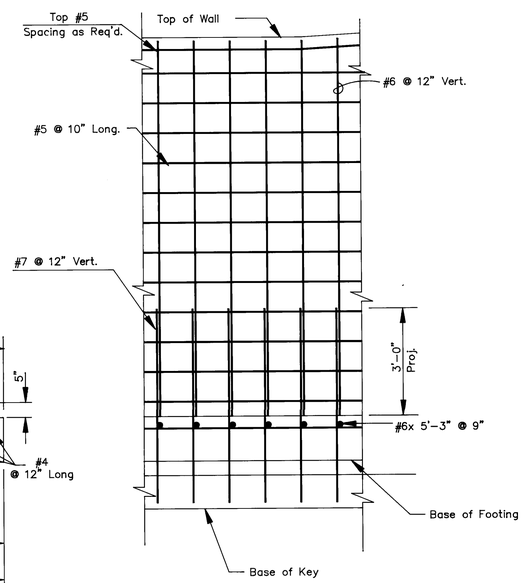
148413



SECTION

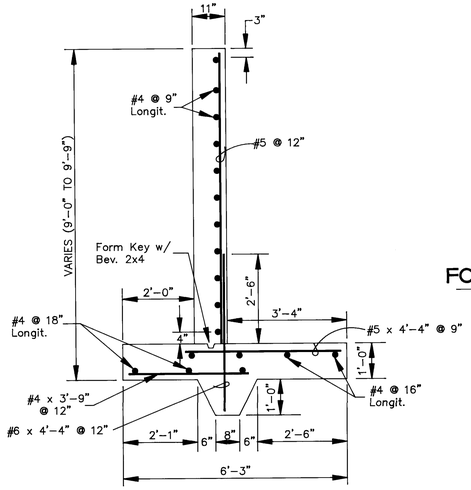
SCALE: 1/2" – 1'-0"

S-24 — 1 — S-25



ELEVATION

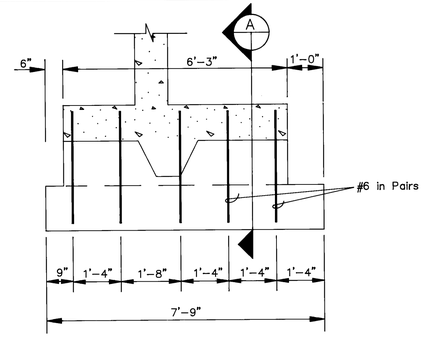
SCALE: 1/2" – 1'-0"



SECTION

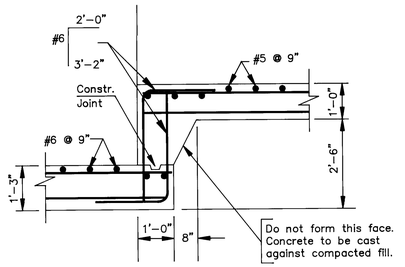
SCALE: 1/2" – 1'-0"

S-24 — 2 — S-25



FOOTING STEP SECTION (TYPICAL ALL)

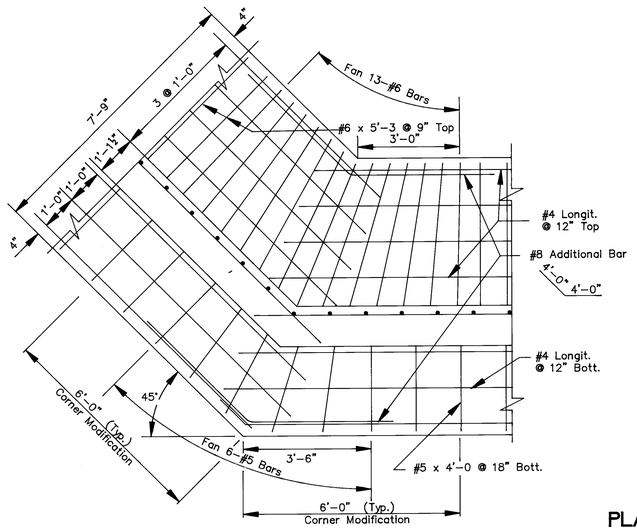
SCALE: 1/2" – 1'-0"

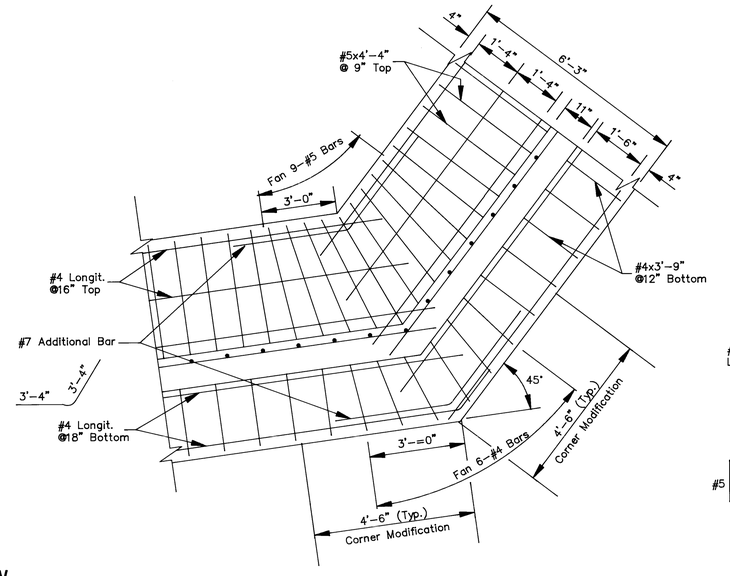


SECTION

SCALE: 1/2" – 1'-0"

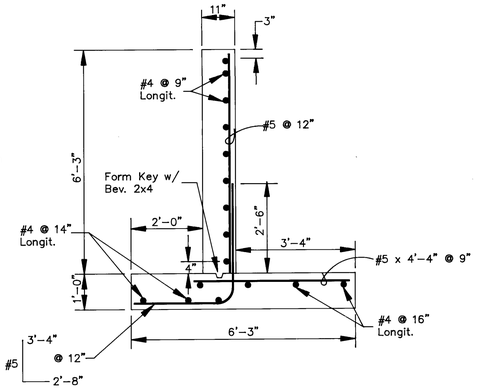
A





PLAN VIEW AT CORNERS

SCALE: 1/2" – 1'-0"



26 4271.906795

SECTION

SCALE: 1/2" – 1'-0"

3 — S-24 — S-25

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA
INSPECTED BY COA DATE
ACCEPTANCE BY RH APP DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH APP DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	H.T.
	DATE 4-92		
		DESIGNED BY	H.T.
	DATE 4-92		
		DRAWN BY	B.R.S.
	DATE 8-92		
		CHECKED BY	H.T.

PHASE I CONSTRUCTION

ALBUQUERQUE SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:

STRUCTURE DETAILS RETAINING WALLS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.G. Stoboly	2-18-93	WATER	N.A. Mgr	4-14-93
TRANSPORTATION	MA RHD	9.24.92	WASTE WATER	N.A. Mgr	9-14-93
HYDROLOGY	Steve Zelony	1.19.93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF S - 25

RTNL-DET 08/10/92 09:26:45

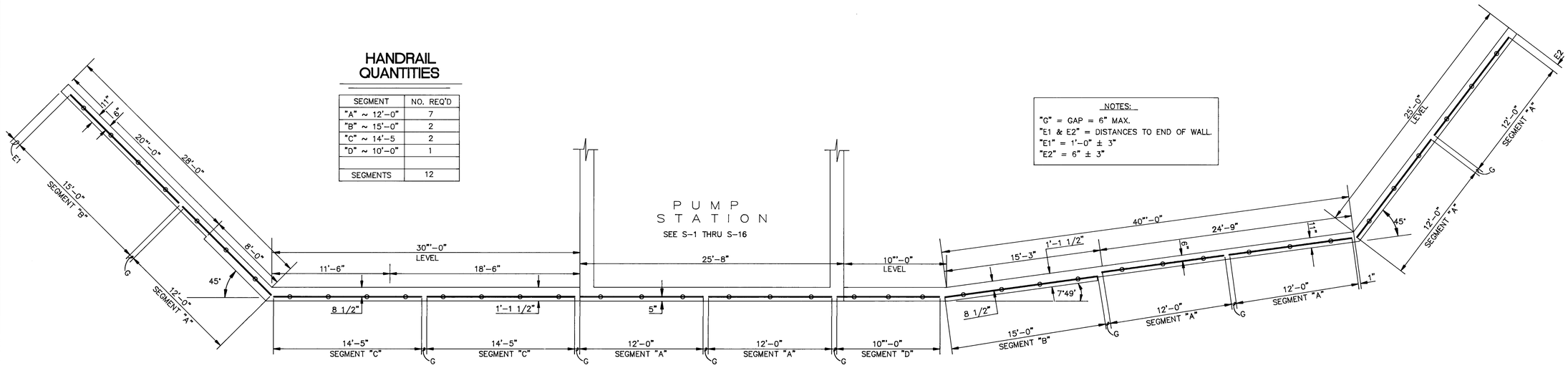
SIGNED BY JASON

Richard Smith
RECORD DRAWINGS 12/94

148413

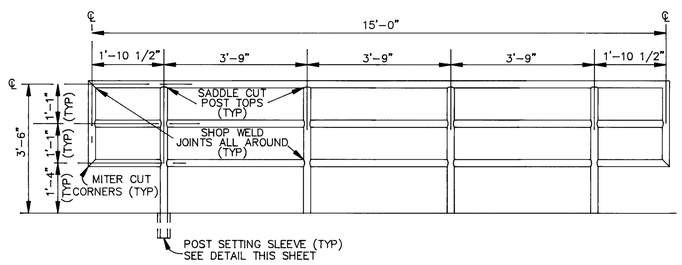
HANDRAIL QUANTITIES

SEGMENT	NO. REQ'D
"A" ~ 12'-0"	7
"B" ~ 15'-0"	2
"C" ~ 14'-5	2
"D" ~ 10'-0"	1
SEGMENTS	12

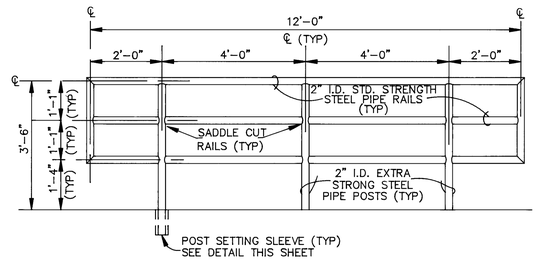


PLAN
NOT TO SCALE

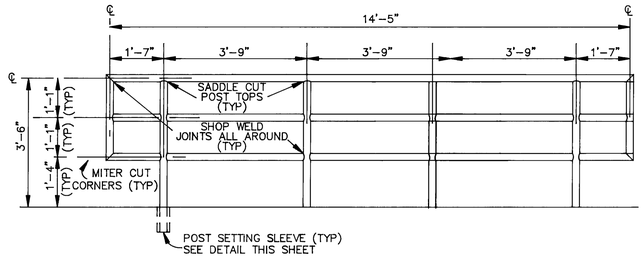
NOTES:
"G" = GAP = 6" MAX.
"E1 & E2" = DISTANCES TO END OF WALL.
"E1" = 1'-0" ± 3"
"E2" = 6" ± 3"



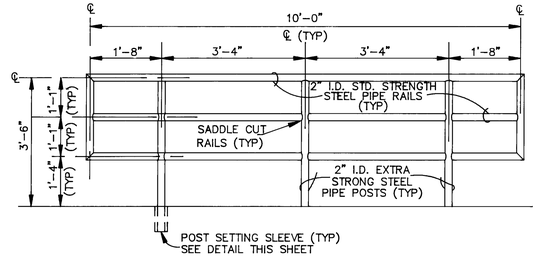
SEGMENT "B"



SEGMENT "A"

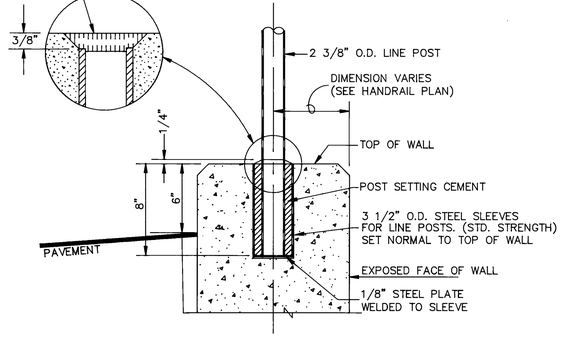


SEGMENT "C"



SEGMENT "D"

HANDRAIL DETAILS
NOT TO SCALE



POST SETTING DETAIL (TYPICAL)
NOT TO SCALE

INSTALL IN TOP OF WALLS
AT EACH HANDRAIL POST

NOTES:
1. HANDRAIL SEGMENTS SHALL BE ASTM A-120 STEEL, PAINTED IN ACCORDANCE WITH SECTIONS 157 AND 550 OF THE STANDARD SPECIFICATIONS.
2. MEASUREMENT AND PAYMENT UNITS FOR HANDRAIL SHALL BE BY THE INSTALLED SEGMENTS INCLUDING HANDRAIL, POST SETTING SLEEVES, AND CEMENT, INCLUDING PAINTING.
3. SHOP PLANS FOR HANDRAIL SHALL BE REVIEWED BY THE ENGINEER BEFORE FABRICATION IS BEGUN.

26 4271.906895

SCANNED BY
NLB BY LASON

Richard Lewis
RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR AMCI
DATE 12/94
SIGNED BY
INSPECTORS
FIELD ENGINEER BY RH, AB; DATE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY R.HAB; DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
No. 7602
RICHARD LEWIS

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	H.T.
		DESIGNED BY	H.T.
		DRAWN BY	B.R.C.
		CHECKED BY	H.T.

DATE 4-1-92
DATE 4-1-92
DATE 8-1-92

PHASE I CONSTRUCTION

ALBUQUERQUE SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

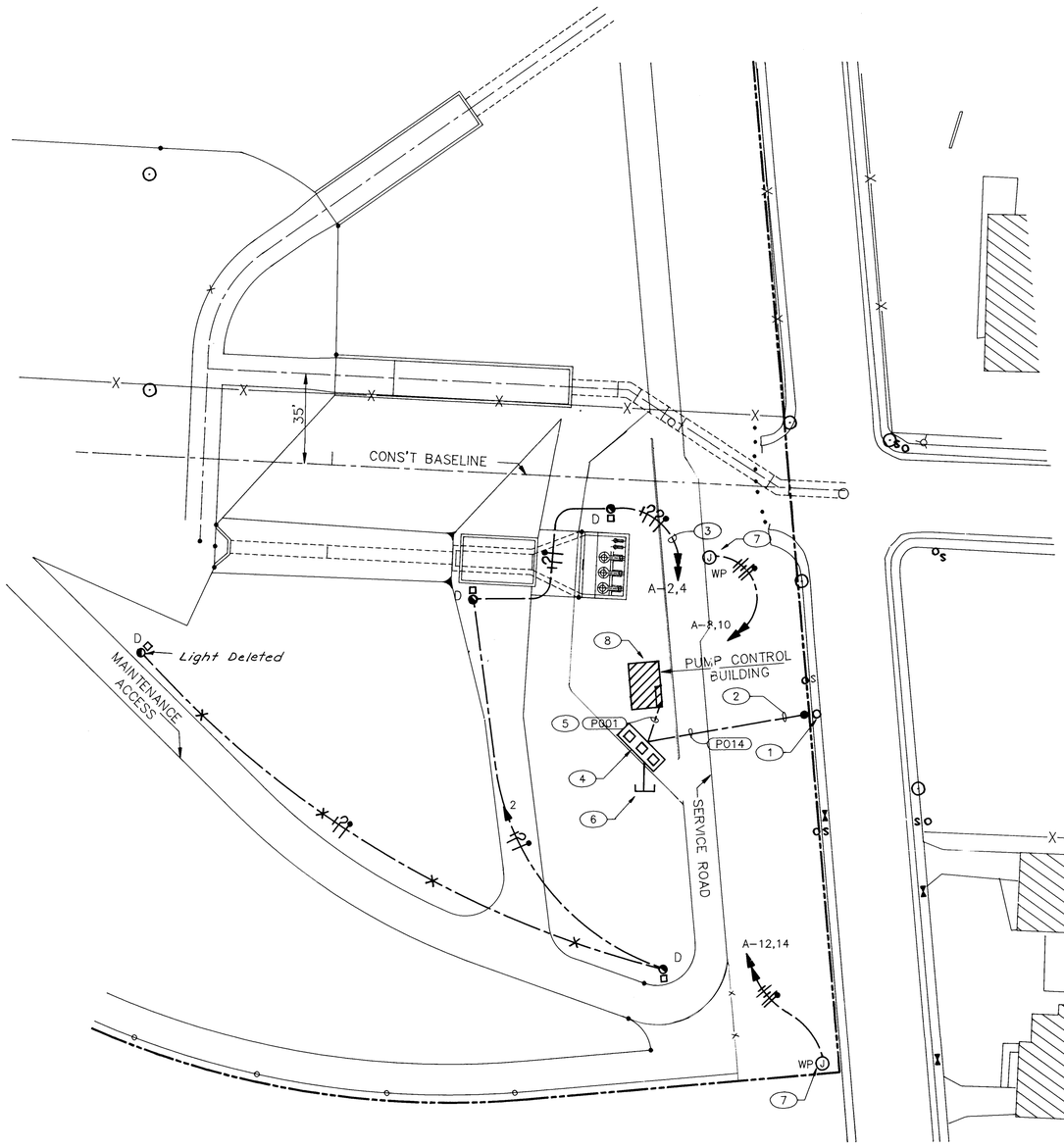
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **HANDRAIL DETAILS FOR RETAINING WALLS & PUMP STATION**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N.A. [signature]	9-24-92
TRANSPORTATION	N/A [signature]	9-24-92	WASTE WATER	N.A. [signature]	9-24-92
HYDROLOGY	[signature]	1-21-93			

PROJECT NO.	MAP NO.	SHEET	OF
4271.90		5 - 26	

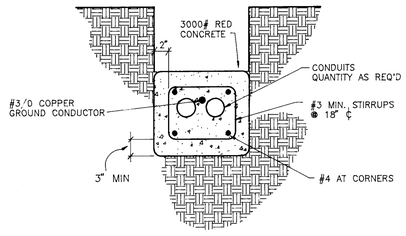
GUARDRAIL 08/17/92 08:38:06



NORTH

PARTIAL SITE PLAN - ELECTRICAL

SCALE: 1" = 30'-0"



CONCRETE ENCASED DUCT BANK DETAIL

NOT TO SCALE

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CEILING OR WALL BRACKET FIXTURE. SEE FIXTURE SCHEDULE.
	FLUORESCENT OUTLET AND FIXTURE. SEE FIXTURE SCHEDULE.
$	SINGLE POLE WALL SWITCH, UP +48". "3" INDICATES THREE-WAY.
T $	SINGLE POLE THERMAL OVERLOAD SWITCH "WP" INDICATES WEATHERPROOF ENCLOSURE.
	EXIT LIGHT FIXTURE. WALL MOUNT. SEE FIXTURE SCHEDULE
EM	DOUBLE HEAD, EMERGENCY FIXTURE. WALL MOUNT. SEE FIXTURE SCHEDULE.
PC	PHOTOCELL, TORK #2101 OR EQUAL. MOUNT 12" ABOVE ROOF. SEE DETAIL.
SD	SMOKE DETECTOR IONIZATION TYPE.
J	JUNCTION BOX FLUSH IN WALL WITH CONNECTION TO EQUIPMENT.
	DUPLEX CONVENIENCE OUTLET, UP +12" OR AS INDICATED.
	ELECTRIC PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
3	MOTOR CONNECTION WITH HP INDICATED. "F" INDICATES FRACTIONAL.
R	POWER RELAY WITH 20 AMP MOTOR RATED CONTACTS. SEE DRAWINGS FOR CHARACTERISTICS
T	JUNCTION BOX FLUSH IN WALL WITH CONNECTION TO EQUIPMENT.
AX	ALARM HORN UP +7'-6" UNLESS OTHERWISE INDICATED. SEE PLANS.
D	MAGNETIC DOOR CONTACT
	REMOTE CONTROL STATION
	EXOTHERMIC WELD CONNECTION
	CRIMP CONNECTION TO STRANDED LIGHTNING PROTECTION CONDUCTOR.
	GROUND ROD WITH EXOTHERMIC WELD CONNECTION TO GROUNDING CONDUCTOR
G	UNDERGROUND GROUND CONDUCTOR, BARE, NO-INSULATION. SEE DRAWINGS FOR SIZE. MINIMUM 18" BELOW GRADE.
	BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED. (NEUTRAL,HOT, SWITCHLEG, GROUND.) RESPECTIVELY
	BRANCH CIRCUIT IN WALLS OR UNDER FLOOR WITH CONDUCTORS INDICATED. (NEUTRAL, HOT, SWITCHLEG, GROUND.) RESPECTIVELY
A-1,3	HOME RUN TO PANEL WITH BRANCH CIRCUIT NUMBERS INDICATED.(NEUTRAL, HOT, SWITCHLEG, GROUND.) RESPECTIVELY
	EXTERIOR LUMINAIRE - POLE MOUNTED
	MAGNETIC STARTER, NUMBER INDICATES NEMA SIZE. SEE SPECIFICATIONS FOR CHARACTERISTICS AND REQUIREMENTS
4554	CONDUIT NUMBER SEE SCHEDULE

ELECTRICAL ABBREVIATIONS

A	AMPS
AC	ALTERNATING CURRENT
AI	ANALOG INPUT
BKR	BREAKER
C	CLOSE
CIR	CIRCUIT
CW	COOL WHITE
DC	DIRECT CURRENT
DI	DISCRETE INPUT
DIA	DIAMETER
DO	DISCRETE OUTPUT
EM	EMERGENCY
GEN	GENERATOR
GRND	GROUND
HP	HORSE POWER
HOA	HAND OFF AUTO
ICP	INTERFACE CONTROL PANEL
J	JUNCTION
KW	KILOWATT
KV	KILOVOLT
KVA	KILO-VOLT-AMPERE
LE	LEVEL ELEMENT
MAX	MAXIMUM
MIN	MINIMUM
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
NEC	NATIONAL ELECTRIC CODE
O	OPEN
PC	PHOTOCELL
PLC	PROGRAMMABLE CONTROLLER
RS	RAPID START
SCA	SHORT CIRCUIT AMPS
SCR	SILICON CONTROLLED RECTIFIER
SQ	SQUARE
SS	START-STOP
TEMP	TEMPERATURE
TWSP	TWISTED SHIELDED PAIR
VA	VOLT AMPS
VAC	VOLTS/ALTERNATING CURRENT
WP	WEATHERPROOF
WM	WATT MISER
XFRMR	TRANSFORMER
RMC	RIGID METAL CONDUIT
RMC-PVC	PVC COATED RIGID METAL CONDUIT
PVC	POLYVINYL CHLORIDE

KEYED NOTES

1. PNM POLE, VERIFY EXACT LOCATION IN FIELD. EXTEND 4" RIGID GALVANIZED RISER UP POLE PER PNM REQUIREMENTS.
2. 4" CONCRETE ENCASED RMC CONDUIT PER PNM REQUIREMENTS.
3. EXTEND CIRCUITS INDICATED THROUGH LIGHTING CONTACTOR IN LIGHTING CONTROL CABINET "LCC1". SEE SHEET E-2 FOR LOCATION.
4. NEW PRIMARY METER, HIGH VOLTAGE SWITCH, AND 750 KVA DISTRIBUTION TRANSFORMER. INSTALL ON REINFORCED CONCRETE PAD PER DETAIL ON SHEET E-7 AND PNM REQUIREMENTS. SEE RISER DIAGRAM AND SPECIFICATIONS.
5. 2 EACH, 3" CONDUIT WITH 3-#500 KCMIL THWN COPPER CONDUCTORS AND 1-#3/0 COPPER GROUND.
6. 4" RMC CONCRETE ENCASED CONDUIT STUBBED-OUT AND CAPPED 5'-0" BEYOND CONCRETE PAD.
7. WEATHERPROOF JUNCTION BOX FOR CONNECTION TO IRRIGATION CONTROLLER AND BACKFLOW PREVENTOR HEAT TAPE SYSTEM. SEE LANDSCAPE DRAWINGS L-2 AND L-5 FOR LOCATIONS AND REQUIREMENTS.
8. SEE CONTROL BUILDING FLOOR PLANS (E-2, E-3, E-4) FOR LOCATION OF PANELS, EQUIPMENT, ETC.

GENERAL NOTES

1. CONTRACTOR SHALL USE PVC COATED RIGID CONDUIT WHERE CONDUITS ARE INSTALLED EXPOSED OR UNDERGROUND WHEN NOT ENCASED WITH CONCRETE. INCLUDING STUB-UPS INTO TRANSFORMER PADS.
2. ALL CONCRETE ENCASED CONDUIT DUCT BANKS SHALL BE RE-INFORCED AND BONDED PER DETAIL THIS SHEET.
3. MAINTAIN REQUIRED CLEARANCES BETWEEN POWER CONDUITS AND PLC CONTROL CONDUITS.
4. USE RED DYED CONCRETE FOR CONCRETE ENCASED DUCTS AND CONDUITS.

26 4271.906-195

SCANNED BY LASON

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY CDA DATE
INSPECTORS ACCEPTANCE BY RH AA:R DATE
AS BUILTED VERIFICATION BY CDA DATE
DRAWINGS CORRECTED BY RH AA:R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
MICHAEL BRICK NEW MEXICO 6857 REGISTERED PROFESSIONAL ENGINEER
1-94

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9110.6

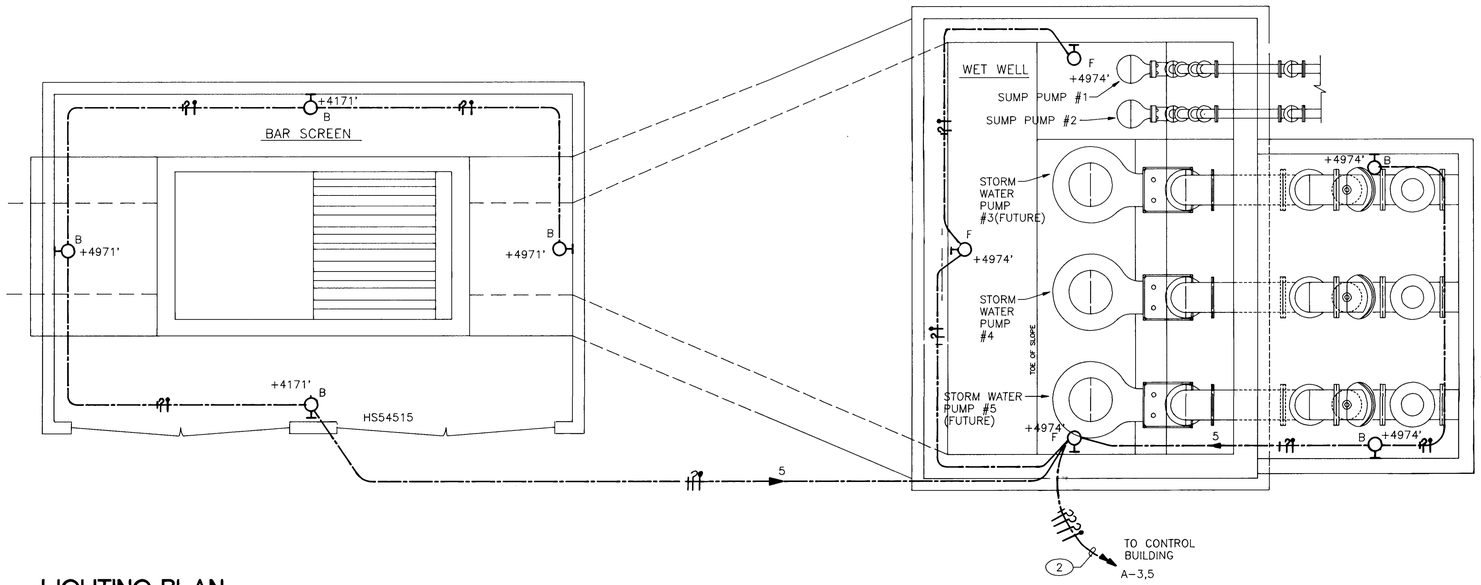
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT ELECTRICAL SITE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.A. Loveless	2-18-93	WATER	N.A. Wells	9-24-92
TRANSPORTATION	MARTHO	9-24-92	WASTE WATER	N.A. Wells	9-24-92
HYDROLOGY	Stan Belony	1-21-93			

DRAWING NO. 4271.90 | MAP NO. G-14,15 H-14,15 | SHEET E-1 OF

Richard Forest
RECORD DRAWINGS 12/94



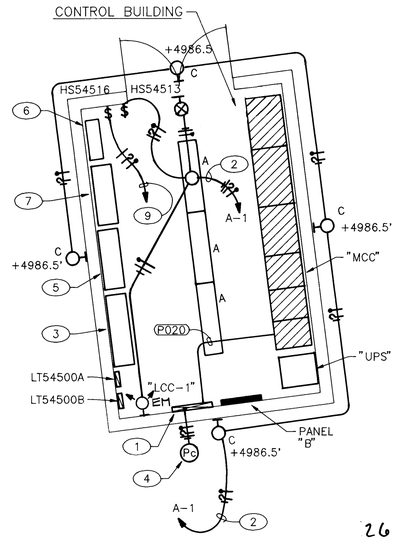
LIGHTING PLAN

SCALE: 1/4" = 1'-0"

FIXTURE SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION	VOLTAGE	CURRENT	LAMPS	MOUNTING
A	KEENE #KN240-AWGA	4' - 2 LAMP FLUORESCENT INDUSTRIAL WITH WIRE GUARD	120	.6	2/F40/CW/WM	SURFACE
B	WIDE-LITE #313300	EXTERIOR WEATHERPROOF INCANDESCENT WITH POLYCARBONITE LENS	120	1.67	1-200W/CL/RS A-23	WALL UP AS NOTED ON DRAWINGS
C	WIDE-LITE #323150LX-120-330-335	EXTERIOR WEATHERPROOF HID, WITH POLYCARBONITE LENS AND WIRE GUARD	120	1.44	1-150 WATT HIGH PRESSURE SODIUM	WALL +8'-0" OR AS NOTED ON DRAWINGS
D	WIDE-LITE #SAR403LXF W/SART M100-120V AND POLE TEXAS POLE #SB0-30-BC-BZ	POLE MOUNTED SHOE BOX FIXTURE ON 30'-0" CENTER HINGED POLE. BRONZE FINISH.	120	3.8	1-400 WATT HIGH PRESSURE SODIUM	30' POLE
F	WIDE-LITE #553400LX-120-530-535	EXTERIOR WEATHERPROOF HID, WITH POLYCARBONITE LENS AND WIRE GUARD	120	3.8	1-400 WATT HIGH PRESSURE SODIUM	WALL UP AS NOTED ON DRAWINGS
EM	DUAL-LITE #EZ-2	SELF CONTAINED, DOUBLE LAMP BATTERY BACK-UP EMERGENCY LIGHT	120	.13	FURNISHED WITH FIXTURE	WALL +8'-0"
⊗	DUAL-LITE #FLX-2-RW	SELF CONTAINED, FLUORESCENT BATTERY BACK-UP EXIT LIGHT FIXTURE	120	.18	FURNISHED WITH FIXTURE	WALL +8'-0" ABOVE DOOR

8



KEYED NOTES

1. LIGHTING CONTROL RELAY CABINET "LCC-1". SEE WIRING DIAGRAMS ON SHEETS E-9 THROUGH E-12 AND CABINET LAY-OUT DETAIL #8 ON SHEET E-8.
2. EXTEND CIRCUIT INDICATED THROUGH RELAYS IN LIGHTING CONTROL CABINET PER NOTE #1.
3. INTERFACE CONTROL PANEL. SEE CONTROL AND INTERCONNECTION DIAGRAMS ON SHEETS E-9 THROUGH E-12. SEE PANEL LAY-OUT DETAIL #1 ON SHEET E-19.
4. EXTERIOR LIGHTING PHOTOCELL - TORK #2101 OR APPROVED EQUAL. MOUNT 12" ABOVE ROOF PER DETAIL #2 ON SHEET E-8.
5. PROGRAMMABLE LOGIC CONTROL CABINET.
6. TELEMETRY CABINET.
7. BARSCREEN CONTROL CABINET.
8. FURNISH AND TURN OVER TO THE CITY OF ALBUQUERQUE, ONE (1) TEXAS POLE #TPW WINCH FOR LOWERING THE CENTER HINGED POLES.
9. EXTEND CONDUCTORS THROUGH CONTACTORS IN LIGHTING CONTROL CABINET "LCC-1" PER NOTE #1.

GENERAL NOTES

1. SEE SHEET E-1 FOR SYMBOL LEGEND.
2. ALL WIRING NOT INDICATED WITH CONDUIT SCHEDULE NUMBER, SHALL BE 3/4" MINIMUM RIGID CONDUIT WITH #12 THHN CONDUCTORS.
3. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA DATE
INSPECTED BY RH AIR DATE
ACCEPTANCE BY COA DATE
VERIFICATION BY RH AIR DATE
DRAWINGS CORRECTED BY RH AIR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	8-14-92	DESIGNED BY R. DUPUY	DATE 8-14-92
		DRAWN BY TELCON	DATE 8-14-92
		CHECKED BY F. TELCK	DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT
LIGHTING PLAN, FIXTURE SCHEDULE

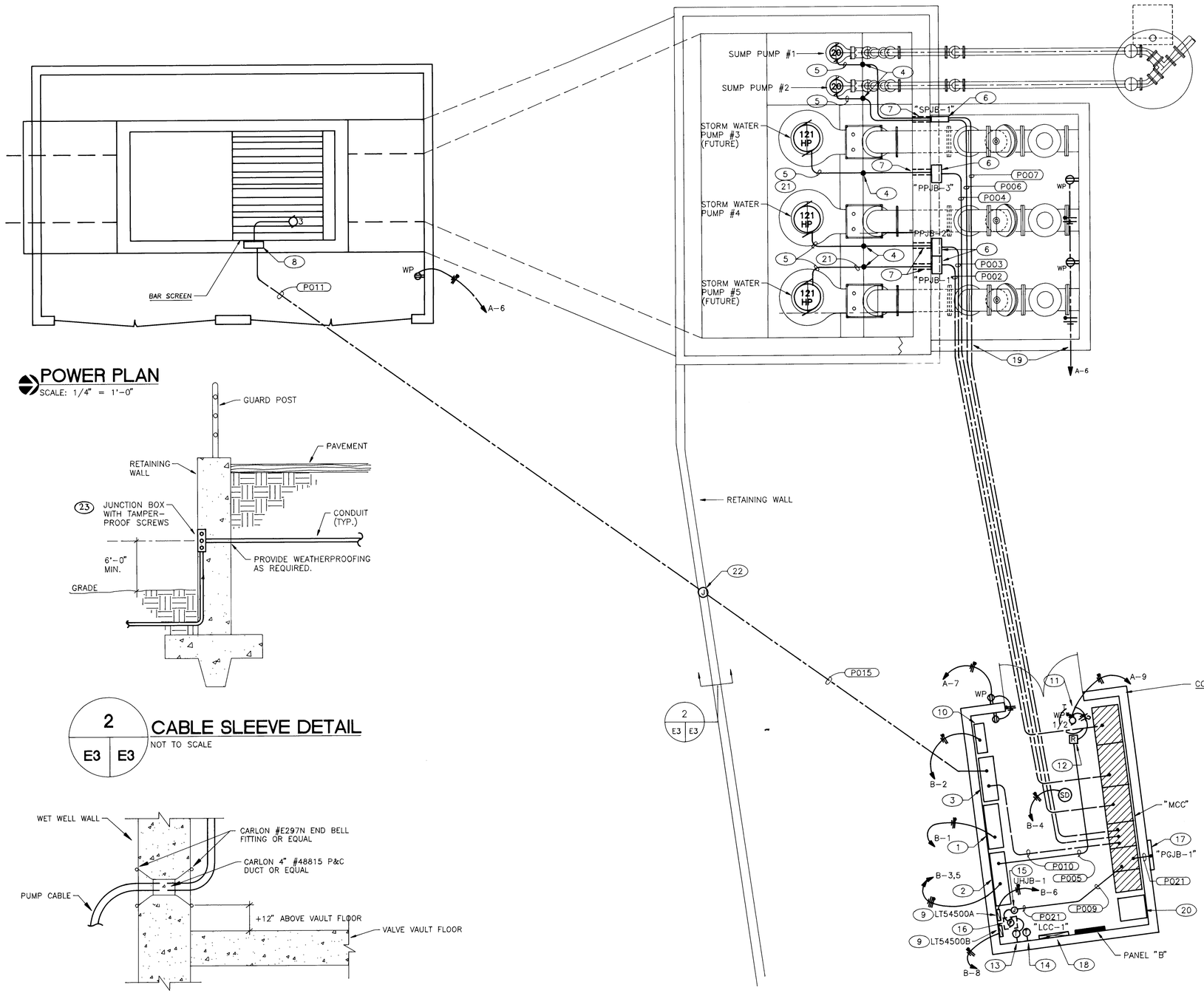
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	NA [signature]	9-24-92
TRANSPORTATION	NA [signature]	9-24-92	WASTE WATER	NA [signature]	9-24-92
HYDROLOGY	Steve Sobey	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-2 OF

26 4271.907095

SCANNED BY

Richard Lovato
RECORD DRAWINGS 12/94



POWER PLAN
SCALE: 1/4" = 1'-0"

2 CABLE SLEEVE DETAIL
E3 | E3
NOT TO SCALE

1 CABLE SLEEVE DETAIL
E3 | E3
NOT TO SCALE

KEYED NOTES (CON'D)

23. FURNISH TWO (2) TAMPER-PROOF REMOVAL TOOLS TO OWNER AT COMPLETION OF PROJECT.

KEYED NOTES

1. PROGRAMMABLE LOGIC CONTROL CABINET "PLC".
2. INTERFACE CONTROL PANEL. SEE CONTROL AND INTERCONNECTION DIAGRAM ON SHEET E-9 THROUGH E-12. SEE PANEL LAY-OUT DETAIL #1 ON SHEET E-19.
3. BARSCREEN CONTROL PANEL. FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL.
4. HUBBELL "KELLEM" CABLE SUPPORT FITTINGS (OR APPROVED EQUAL) SIZE AS REQUIRED. ATTACH TO GRATING STRUCTURAL SUPPORT SYSTEM PER DETAIL #1 ON SHEET E-8.
5. POWER SUPPLY CABLE PROVIDED WITH PUMP MOTORS. TYPICAL ONE CABLE PER PUMP.
6. 24" X 24" X 6" NEMA 3R J-BOX WITH SCREWCOVER FOR CONNECTION OF PUMP POWER CABLES. SEE DETAIL #10 ON SHEET E-8. MOUNT UP + 48" TO TOP ABOVE VALVE VAULT FLOOR.
7. 4" PVC SLEEVE THROUGH WALL FOR EXTENSION OF PUMP POWER CABLES TO TERMINATION BOX (NOTE #6). INSTALL BELL END FITTING ON EACH SIDE OF SLEEVE PER DETAIL #1 ON THIS SHEET.
8. BARSCREEN DISCONNECT SWITCH, 30 AMP, 3 POLE, NON-FUSIBLE NEMA 4X.
9. CAPACITANCE PROBE LEVEL TRANSMITTERS.
10. TELEMETRY CABINET. SEE DETAIL #4 ON SHEET E-8.
11. POWER ROOF EXHAUST FAN, 120 VOLT. SEE SHEET S-7 FOR EXACT REQUIREMENTS.
12. POWER RELAY, 120 VOLT, 2 POLE, NORMALLY OPEN, 20 AMP MOTOR RATED CONTACTS, 120 VOLT COIL, NEMA 3R ENCLOSURE.
13. 120 VOLT LINE VOLTAGE THERMOSTAT, FURNISHED BY MECHANICAL. INSTALLED BY ELECTRICAL. MOUNT UP + 5' -0" A.F.F.
14. 24 VOLT, MAKE ON TEMPERATURE RISE THERMOSTAT, HONEYWELL #2E215 OR EQUAL. MOUNT UP + 5' -0" A.F.F.
15. 4" SQUARE J-BOX ON WALL FOR CONNECTION TO UNIT HEATER.
16. ELECTRIC UNIT HEATER, 5 KW, 480 VOLT, THREE PHASE.
17. NEMA 4X J-BOX, 30" X 30" X 6" WITH POWER DISTRIBUTION BLOCKS PER DETAIL #10 ON SHEET E-8 FOR CONNECTION TO PORTABLE GENERATOR. BOX SHALL BE EQUIPPED WITH LOCKABLE HASP.
18. LIGHTING CONTROL CABINET "LCC-1".
19. CONDUIT PENETRATIONS THROUGH VALVE VAULT WALL. PROVIDE WEATHERPROOF SEAL AS REQUIRED BY APPLICABLE SECTIONS OF THE SPECIFICATIONS.
20. UNINTERRUPTIBLE POWER SUPPLY, SEE POWER RISER DIAGRAM ON SHEET E-6 FOR DESCRIPTION.
21. CABLE AND CONNECTION TO BE PROVIDED AT A FUTURE DATE.
22. INSTALL FLUSH JUNCTION BOX IN FACE OF RETAINING WALL PER DETAIL #2 ON THIS SHEET. SIZE AS REQUIRED BY NEC.

GENERAL NOTES

1. SEE SHEET E-21 FOR CONDUIT AND CABLE SCHEDULES.
2. SEE SHEET E-1 FOR SYMBOL LEGEND.
3. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA DATE
INSPECTORS ACCEPTANCE BY RH DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH DATE 12/94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
NO. DATE REMARKS BY

SURVEY INFORMATION
FIELD NOTES
NO. DATE BY

ENGINEER'S SEAL

REVISIONS
DESIGN DATE 8-14-92 DESIGNED BY R. DUPUY
DRAWN BY: DATE 8-14-92 TELCON
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT
POWER AND CONDUIT ROUTING PLAN

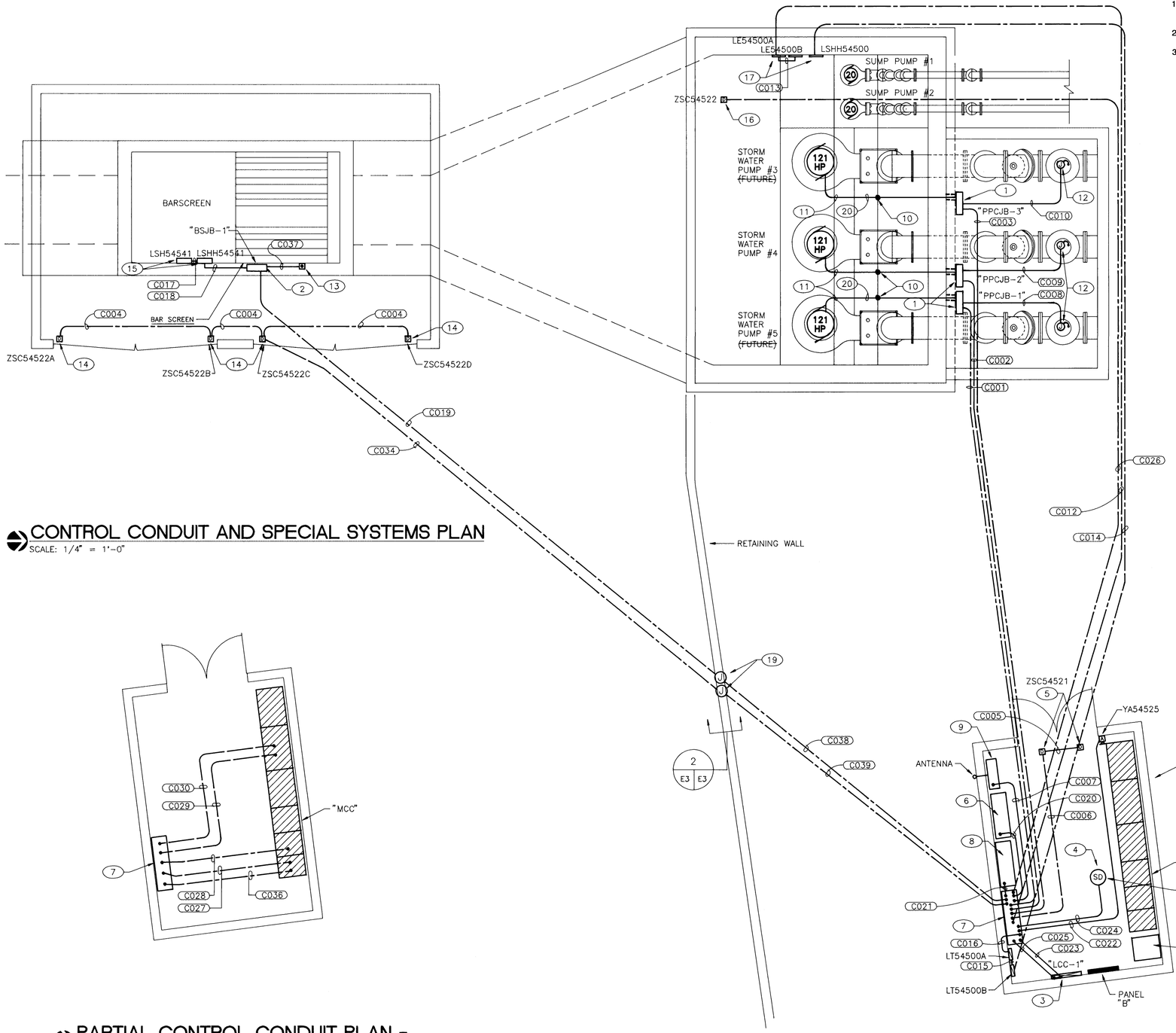
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N.A.	4-27-92
TRANSPORTATION	N/A DHO	9-24-92	WASTE WATER	[signature]	
HYDROLOGY	Steve Carberry	2-1-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-3 OF

26 4271.907195

SCANNED BY BY LASON

Richard Lovell
RECORD DRAWINGS 12/94



CONTROL CONDUIT AND SPECIAL SYSTEMS PLAN

SCALE: 1/4" = 1'-0"

PARTIAL CONTROL CONDUIT PLAN - CONTROL BUILDING

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET E-21 FOR CONDUIT AND CABLE SCHEDULES.
2. SEE SHEET E-1 FOR SYMBOL LEGEND.
3. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

KEYED NOTES

1. MOTOR CONTROL TERMINATION BOX. SEE SHEET E-17 FOR DESCRIPTION.
2. J-BOX "BSCJB-1" FOR CONNECTION TO BAR SCREEN CONTROLS, LIMIT SWITCHES, ETC.
3. LIGHTING CONTROL CABINET. SEE CONTROL AND INTERCONNECTION DIAGRAMS ON SHEET E-9 THROUGH E-12. SEE CABINET LAY-OUT DETAIL #8 ON SHEET E-8.
4. SMOKE DETECTOR. SEE SYMBOL LEGEND ON SHEET E-1.
5. DOOR SWITCH. SEE SYMBOL LEGEND ON SHEET E-1. INSTALL IN TOP OF DOOR JAMB PER DETAIL #9 ON SHEET E-8.
6. BARSCREEN CONTROLLER CABINET.
7. INTERCONNECTION CONTROL PANEL (ICP). SEE LAY-OUT DETAIL #1 ON SHEET E-19.
8. PROGRAMMABLE CONTROLLER CABINET (PLC). SEE LAY-OUT DETAIL #1 ON SHEET E-20.
9. TELEMETRY CABINET. SEE DETAIL #4 ON SHEET E-8.
10. HUBBELL "KELLEM" CABLE SUPPORT FITTING (OR APPROVED EQUAL) SIZE AS REQUIRED. ATTACH TO GRATING STRUCTURAL SUPPORT SYSTEM PER DETAIL #1 ON SHEET E-8. PROVIDE AN ADDITIONAL INTERMEDIATE SUPPORT FITTING MIDWAY BETWEEN PUMP AND GRATING AND ATTACH CABLE TO THE SAME EYE BOLT INDICATED ON THE DETAIL.
11. CONTROL CABLE FROM STORM WATER PUMP.
12. CONNECTION TO CHECK VALVE LIMIT SWITCH. PROVIDE AND INSTALL ONE, ALLEN-BRADLEY #802T-WS1 WOBBLE STICK, WIRE EXTENSION LIMIT SWITCH TO CHECKVALVE BODY. ADJUST LIMIT SWITCH SO WHEN CHECKVALVE IS IN THE CLOSED POSITION, CONTACTS IN THE LIMIT SWITCH ARE OPEN.
13. REMOTE FORWARD-OFF-REVERSE CONTROL SWITCH FOR BARSCREEN. FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL.
14. DOOR SWITCH, SEE SYMBOL LEGEND ON SHEET E-1. INSTALL ON SIDE OF DOOR JAMB, SIMILAR TO DETAIL #9 ON SHEET E-8.
15. BARSCREEN UNLET CHANNEL LEVEL SWITCHES, SEE INSTALLATION DETAIL AND MECHANICAL SECTION, DETAIL #2 ON SHEET #M-2.
16. DOOR SWITCH, SEE SYMBOL LEGEND ON SHEET E-1. INSTALL ON WET WELL ACCESS HATCH.
17. WET WELL CAPACITANCE PROBES AND LEVEL SWITCHES. SEE INSTALLATION DETAILS #6 AND #7 ON SHEET E-8. SEE MECHANICAL SECTION DETAIL #2 ON SHEET #M-2.
18. UNINTERRUPTIBLE POWER SYSTEM. SEE POWER RISER DIAGRAM ON SHEET E-6.
19. INSTALL FLUSH JUNCTION BOX IN FACE OF RETAINING WALL PER DETAIL #2 ON SHEET E-3. SIZE AS REQUIRED BY NEC.
20. CABLING AND CONNECTION SHALL BE PROVIDED AT A FUTURE DATE.

AS BUILT INFORMATION
CONTRACTOR RMDI
WORK STAKED BY COA DATE 12/94
AS-BUILTING BY RH DATE
ACCEPTANCE BY RH DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH DATE 4-12-95
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REMARKS
REVISIONS
DESIGN
NO. DATE BY
DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT
CONTROL CONDUIT AND SPECIAL SYSTEMS PLAN

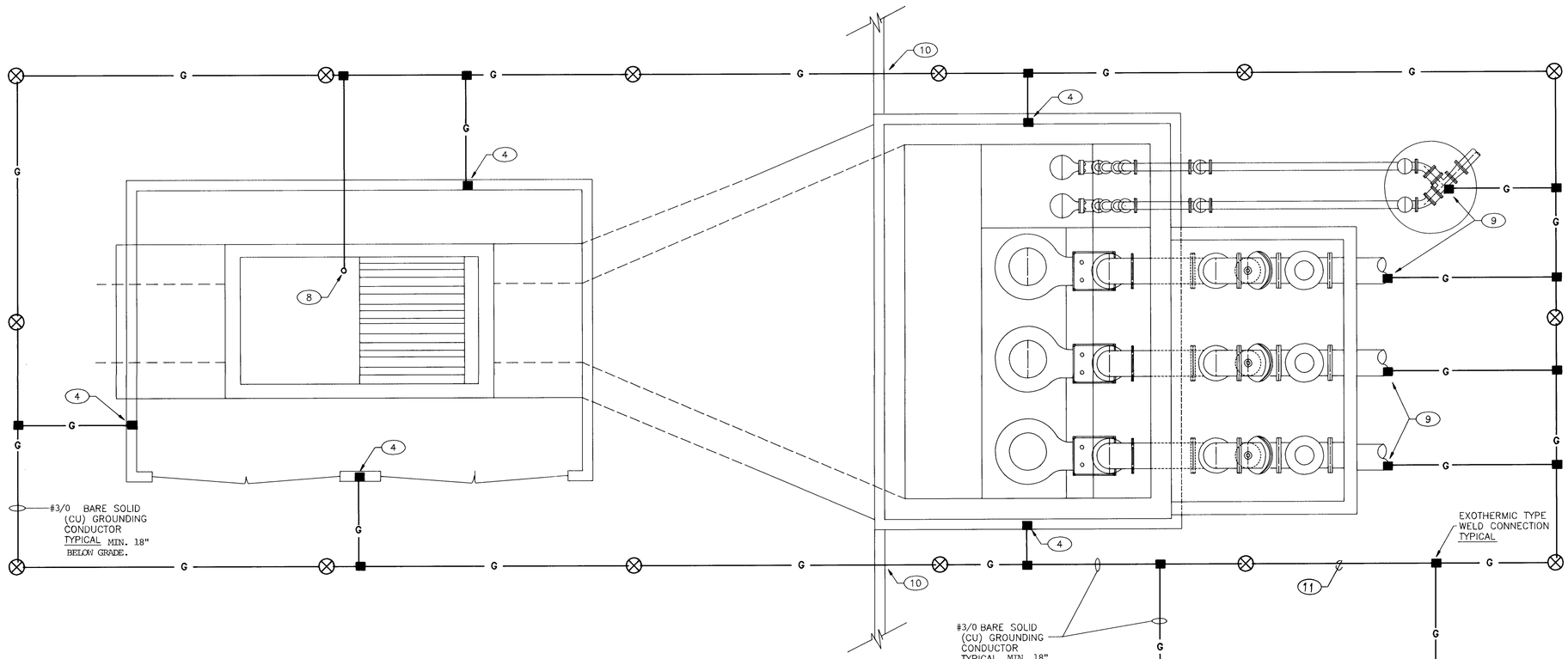
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	4-24-92
TRANSPORTATION	[signature]	9-24-92	WASTE WATER		
HYDROLOGY	[signature]	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-4 OF

26 4271.907295

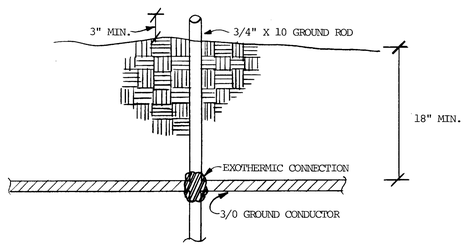
SCANNED BY BVI LASON

Richard Forth
RECORD DRAWINGS 12/94



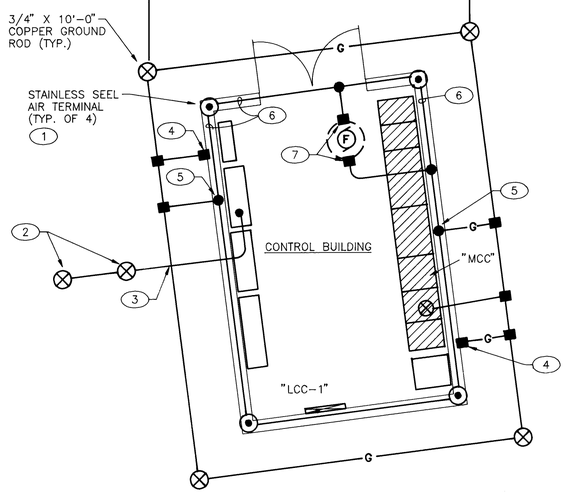
LIGHTNING PROTECTION PLAN

SCALE: 1/4" = 1'-0"



GROUND ROD DETAIL

NOT TO SCALE



KEYED NOTES

1. 1/2" X 24" STAINLESS STEEL AIR TERMINAL.
2. 3/4" X 10'-0" COPPER CLAD GROUND ROD WITH EXOTHERMIC CONNECTION TO COPPER GROUNDING CONDUCTOR. SEE DETAIL THIS SHEET.
3. GROUND CONDUCTOR FROM PLC CABINET SHALL BE INDEPENDENT OF BUILDING GROUND COUNTERPOISE SYSTEM.
4. EXOTHERMIC WELD CONNECTION TO BUILDING STEEL.
5. CRIMP TYPE CONNECTION TO PARAPET LIGHTING PROTECTION CONDUCTOR. ALL CONNECTIONS AND INSTALLATIONS PER THE LIGHTNING INSTITUTE STANDARDS.
6. LIGHTNING PROTECTION SYSTEM CONDUCTOR ROUTED ON BUILDING PARAPET.
7. CRIMP TYPE CONNECTION TO EXHAUST FAN ON ROOF.
8. GROUND CONNECTION TO BAR SCREEN.
9. EXOTHERMIC CONNECTION TO METALLIC DISCHARGE PIPING.
10. COORDINATE INSTALLATION WITH CONCRETE RETAINING WALL. SEE SHEET S-27 FOR DETAILS.
11. COORDINATE INSTALLATION WITH UNDERGROUND WATER SERVICE LINE.

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK OVERSEEN BY COA
INSPECTORS ACCEPTANCE BY RH DATE AR-R
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH DATE AR-12
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT
LIGHTNING PROTECTION AND GROUNDING PLAN

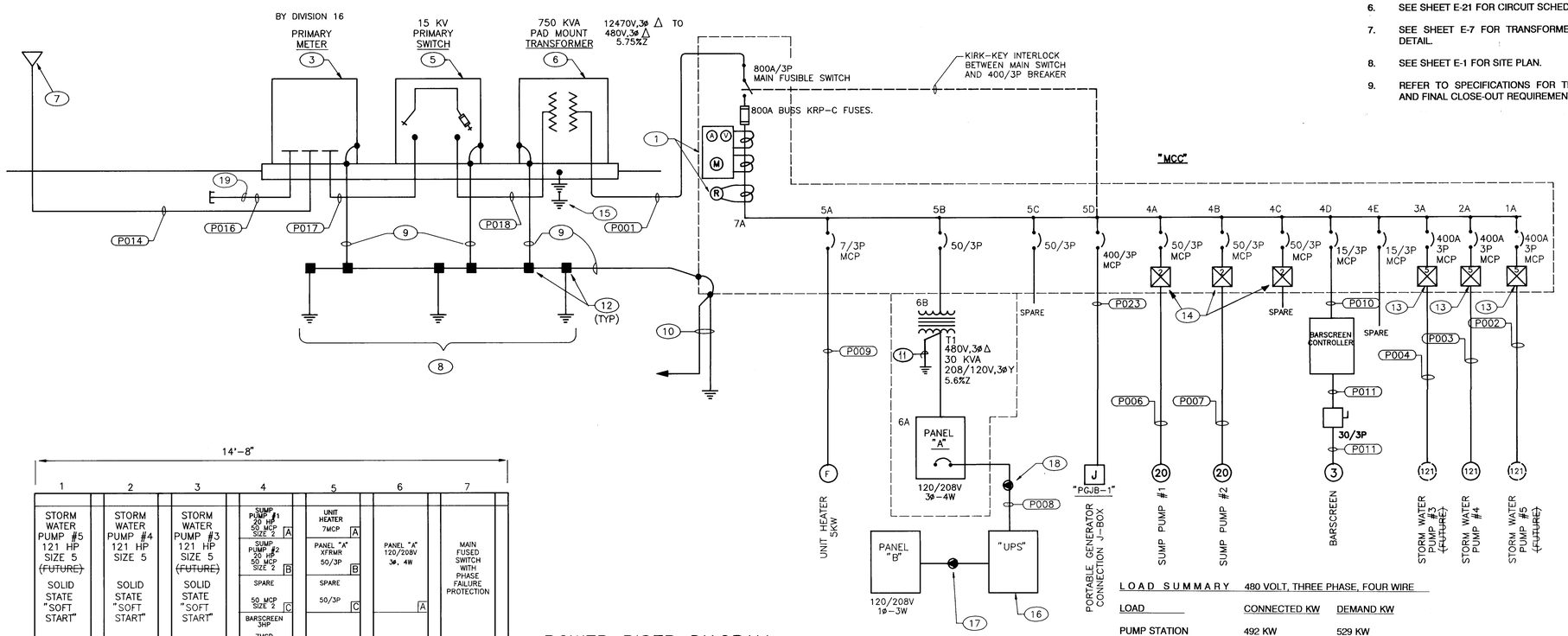
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY		1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-5 OF

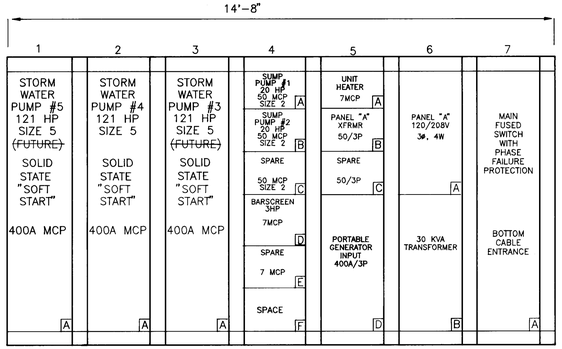
2.6 4271.907395

SCANNED BY LASON

Richard Lewis
RECORD DRAWINGS 12/94



POWER RISER DIAGRAM



MCC ELEVATION

NOT TO SCALE

CIRCUIT DESCRIPTION	BKR	CKT	ØA	ØB	ØC	CKT	BKR	CIRCUIT DESCRIPTION
LIGHTS-INTER./EXTER. CONTROL BUILDING	20/1	1	1040			2	1	LTG./EXTER. POLE LTG.
LIGHTS-WET WELL		3	920	1380		4		LTG./EXTER. POLE LTG.
LIGHTS-BARSCREEN/ PIT VALVE		5		920	1200	6	*	VALVE VAULT
CONTROL BUILDING	*	7	400		400	8	*	IRRIGATION CONTROLLER
EXH.FAN-CNTRL BLDG.		9	200	1170		10	*	HEAT TAPE BACK FLOW PROT.
SPARE		11	----	500	----	12	*	IRRIGATION CONTROLLER
		13	---		200	14	*	HEAT TAPE BACK FLOW PROT.
		15	500		----	16		SPARE
		17	----		----	18	40/	UPS
		19	----		1900	20	2	
SPACE	—	21	----	----	----	22	—	SPACE
SPACE	—	23	----	----	----	24	—	SPACE
		25				26		
		27				28		
		29				30		
		31				32		
		33				34		
		35				36		
		37				38		
		39				40		
		41				42		
TOTAL VOLT AMPS			3960	3970	3700			CONNECTED DEMAND

AMPS = TOTAL VOLT AMPS / (VOLTAGE X 3) 11630/360 = 33 34

	CONNECTED	DF	DEMAND
LIGHTS	5.5	1.25	6.9
RECEPTACLES	5.4	.75	4.0
MOTORS	1.2	1.0	1.2
			12.1

SUB FEED BREAKER
LOCATED IN PANEL
FEEDER SIZE 1"C.,3#8+1#8GRND
KW CONNECTED 11.6 KW
KW DEMAND 12.1 KW

120/208 VOLTS, 3 Ø, 4 WIRE, 100A MAINS, LUGS ONLY
100/3P MAIN BREAKER, SURFACE, FLUSH, TOP BOTTOM FEED

PANEL - "A"

PANEL "A" SCHEDULE

CIRCUIT DESCRIPTION	BKR	CKT	ØA	ØB	CKT	BKR	CIRCUIT DESCRIPTION
PLC CABINET	20/1	1	1000		2	1	TELEMETRY
ICP CABINET		3	200	500	4		SMOKE DETECTOR
ICP CABINET		5	500	200	6		LEVEL TRANSMITTER
SPARE		7	200	----	8		LEVEL TRANSMITTER
		9	----	----	10		SPARE
		11	----	---	12		
		13	---	----	14		
		15	----	----	16		
		17	----	----	18		
		19	----	----	20		
		21	----	----	22		
		23	----	----	24		
		25			26		
		27			28		
		29			30		
		31			32		
		33			34		
		35			36		
		37			38		
		39			40		
		41			42		
TOTAL VOLT AMPS			1900	900			CONNECTED DEMAND

AMPS = TOTAL VOLT AMPS / (VOLTAGE X 3) 2800/208 = 13.6 AMPS --

	CONNECTED	DF	DEMAND
LIGHTS	5.5	1.25	6.9
RECEPTACLES	4.0	.75	3.0
MOTORS	1.2	1.0	1.2
			11.1

SUB FEED BREAKER
LOCATED IN PANEL
FEEDER SIZE 1"C.,3#8+1#8GRND
KW CONNECTED 10.2 KW
KW DEMAND 11.0 KW

120/208 VOLTS, 1 Ø, 3 WIRE, 60A MAINS, LUGS ONLY
MAIN BREAKER, SURFACE, FLUSH, TOP BOTTOM FEED

PANEL - "B" UPS

PANEL "B" SCHEDULE

(*GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER)

GENERAL NOTES (CONT.)

5. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
6. SEE SHEET E-21 FOR CIRCUIT SCHEDULE.
7. SEE SHEET E-7 FOR TRANSFORMER PAD DETAIL.
8. SEE SHEET E-1 FOR SITE PLAN.
9. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

KEYED NOTES

1. VOLTMETER, AMMETER, WATTAGE TRANSDUCER AND PHASE FAILURE RELAYS. SEE SPECIFICATIONS
2. NOT USE .
3. PRIMARY METER ENCLOSURE PER PNM DRAWING #DS-19-79.0.
4. NOT USED.
5. 15 KV PRIMARY SWITCHGEAR. S & C #PMH-5. SEE SPECIFICATIONS.
6. 750 KVA PAD MOUNT DISTRIBUTION TRANSFORMER. 12470 PRIMARY TO 277/480 VOLT, THREE PHASE, SECONDARY. SEE SPECIFICATIONS.
7. 4" RIGID GALVANIZED CONDUIT UP POLE PER PNM DRAWING #DS-7-15.0.
8. GROUND COUNTERPOISE, SEE SHEET E-5.
9. #3/0 GROUND CONDUCTOR, BARE COPPER.
10. 1" CONDUIT WITH 1 #4/0 COPPER TO GROUNDING ELECTRODES AND GROUND COUNTERPOISE PER NEC.
11. 3/4" CONDUIT WITH 1 #6 TO GROUND ELECTRODE (SEPARATELY DERIVED SYSTEM) PER NEC.
12. EXOTHERMIC CONNECTIONS TO CONDUCTORS AND GROUND RODS.
13. "SOFT-START", VACUUM CONTACT STARTERS. SEE SPECIFICATIONS.
14. VACUUM CONTACT STARTERS.
15. LIGHTING ARRESTOR, METAL OXIDE VARIATOR (MOV) TYPE, 10KV RATED. JOSLYN OR EQUAL. SEE SPECIFICATIONS.
16. UNINTERRUPTED POWER SUPPLY (UPS). LIEBERT SERIES 30 OR EQUAL, 3KVA, 120/208 VOLT, SINGLE PHASE. (NOTE: SUBSTITUTE UNITS WILL BE REQUIRED TO MEET SPACE LIMITATIONS PRIOR TO ACCEPTANCE).
17. 30 AMP, 2 POLE, 4 WIRE, 250 VOLT MALE CORD CAP AND 10/3 WITH GROUND "SJ" CORD. TERMINATE CORD TO PANEL MAIN LUGS. CORD CAP SHALL MATCH "UPS" OUTPUT RECEPTACLE.
18. 50 AMP, 2 POLE, 4 WIRE, 250 VOLT, NEMA 14-50 RECEPTACLE TO MATCH CORD CAP ON "UPS".
19. 4" RMC CONCRETE ENCASED CONDUIT STUBBED OUT 5'-0" BEYOND CONCRETE METER ENCLOSURE PAD FOR FUTURE EXTENSION.

LOAD SUMMARY 480 VOLT, THREE PHASE, FOUR WIRE

LOAD	CONNECTED KW	DEMAND KW
PUMP STATION	492 KW	529 KW

SHORT CIRCUIT CALCULATION

ASSUME BUILDING TRANSFORMER = 750 KVA WITH UNLIMITED PRIMARY SHORT CIRCUIT AMPS, AND 5.75 % IMPEDANCE. MAXIMUM TRANSFORMER LET-THRU CURRENT AT SECONDARY TERMINALS OF THE TRANSFORMER = 15,716 AMPS. USING BUSSMAN 800 AMP KRP-C FUSES AT THE MAIN DISCONNECT SWITCH WILL LIMIT FAULT AT THE MCC BUSS TO LESS THAN 20,000 AMPS. FAULT AT THE NEAREST BRANCH CIRCUIT PANELBOARD WILL BE LIMITED TO LESS THAN 10,000 AMPS.

750000 VA/830.4 VOLTS = 903.2 FULL LOAD AMPS
100/5.75% IMPEDENCE = 17.4 (MULTIPLIER)
903.2 AMPS X 17.4 = 15716 SHORT CIRCUIT AMPS

480V,THREE PHASE, THREE WIRE, 800 AMP BUSSING

MCC SCHEDULE

CUBICLE NUMBER	MECH EQUIP. NO.	NAMEPLATE DESCRIPTION	HP	BKR SIZE	BKR TYPE	NEMA SIZE	CONTROL DEVICE HOA	PILOT LAMPS S/S	PILOT LAMPS R	PILOT LAMPS G	FEEDER SIZE	REMARKS
1A	---	STORM WATER PUMP #5 ~~(FUTURE)~~	121	400/3P	MCP	5	X	X	X	---	3 #250 + 1 #4 GR.	SOFT START, VACUUM CONTACTS, 0-60 SEC. TDOE, TIMING RELAY- YELLOW PILOT LAMP-SEE CONTROL DIAGRAM.
2A	---	STORM WATER PUMP #4	121	400/3P	MCP	5	X	X	X	---	3 #250 + 1 #4 GR.	SOFT START, VACUUM CONTACTS, 0-60 SEC. TDOE , TIMING RELAY- YELLOW PILOT LAMP-SEE CONTROL DIAGRAM.
3A	---	STORM WATER PUMP #3 ~~(FUTURE)~~	121	400/3P	MCP	5	X	X	X	---	3 #250 + 1 #4 GR.	SOFT START, VACUUM CONTACTS, 0-60 SEC. TDOE , TIMING RELAY- YELLOW PILOT LAMP- SEE CONTROL DIAGRAM.
4A	---	SUMP PUMP #1	20	50/3P	MCP	2	X	X	X	---	3 #8 + 1 #10 GR.	480-120V CONTROL POWER XFORMER VACUUM CONTACTS
4B	---	SUMP PUMP #2	20	50/3P	MCP	2	X	X	X	---	3 #8 + 1 #10 GR.	480-120V CONTROL POWER XFORMER VACUUM CONTACTS
4C	---	SPARE	---	50/3P	MCP	2	X	X	X	---	----------	480-120V CONTROL POWER XFORMER VACUUM CONTACTS
4D	---	BARSCREEN	3	7/3P	MCP	---	---	---	---	---	3 #10 + 1 #10 GR.	BREAKER ONLY
4E	---	SPARE	---	7/3P	MCP	---	---	---	---	---	----------	BREAKER ONLY
4P	---	SPACE	---	---	---	---	---	---	---	---	---	---
5A	---	UNIT HEATER 5KW	1/3	7/3P	MCP	---	---	---	---	---	3 #12 + 1 #12 GR.	BREAKER ONLY
5B	---	PANEL "A" XFORMER	---	50/3P	---	---	---	---	---	---	3 # 6 + 1 #8 GR.	BREAKER ONLY
5C	---	SPARE	---	50/3P	---	---	---	---	---	---	---	BREAKER ONLY
5D	---	PORTABLE GENERATOR INPUT	---	400/3P	---	---	---	---	---	---	3 #500 + 1 #2 GR.	KIRK KEY INTERLOCK W/MAIN SWT.
6A	---	PANEL "A"	---	-----	---	----	---	---	---	---	1 #2 + 1 #6 GR.	24 CCT, 120/208 VOLT PANELBOARD 16-20/1P BKRS, 8-1P SPACES.
6B	---	30KVA XFORMER	---	----	---	---	---	---	---	---	3 #6 + 1 #8 GR.	DRY TYPE, 480V DELTA TO 120/208 VOLT, THREE PHASE, FOUR WIRE, WYE
7A	---	MAIN FUSIBLE SWITCH	---	----	---	---	---	---	---	---	2 #500 PER PHASE	PHASE PROTECTION, MAIN FUSIBLE SWITCH SHUNT TRIP, 800 AMP/3P WITH 800 AMP FUSES

SCANNED BY LASON

AS BUILT INFORMATION
CONTRACTOR ACME DATE 12/94
WORK STAKED BY COA DATE
ACCEPTANCE BY RH DATE
VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH DATE 12-19-94
MICRO-FILM INFORMATION DATE
RECORDED BY
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	REMARKS	DATE	BY
	REVISIONS DESIGN	8-14-92	
		8-14-92	
		8-14-92	

DESIGNED BY R. DUPUY
DRAWN BY TELCON
CHECKED BY F. TELCK

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

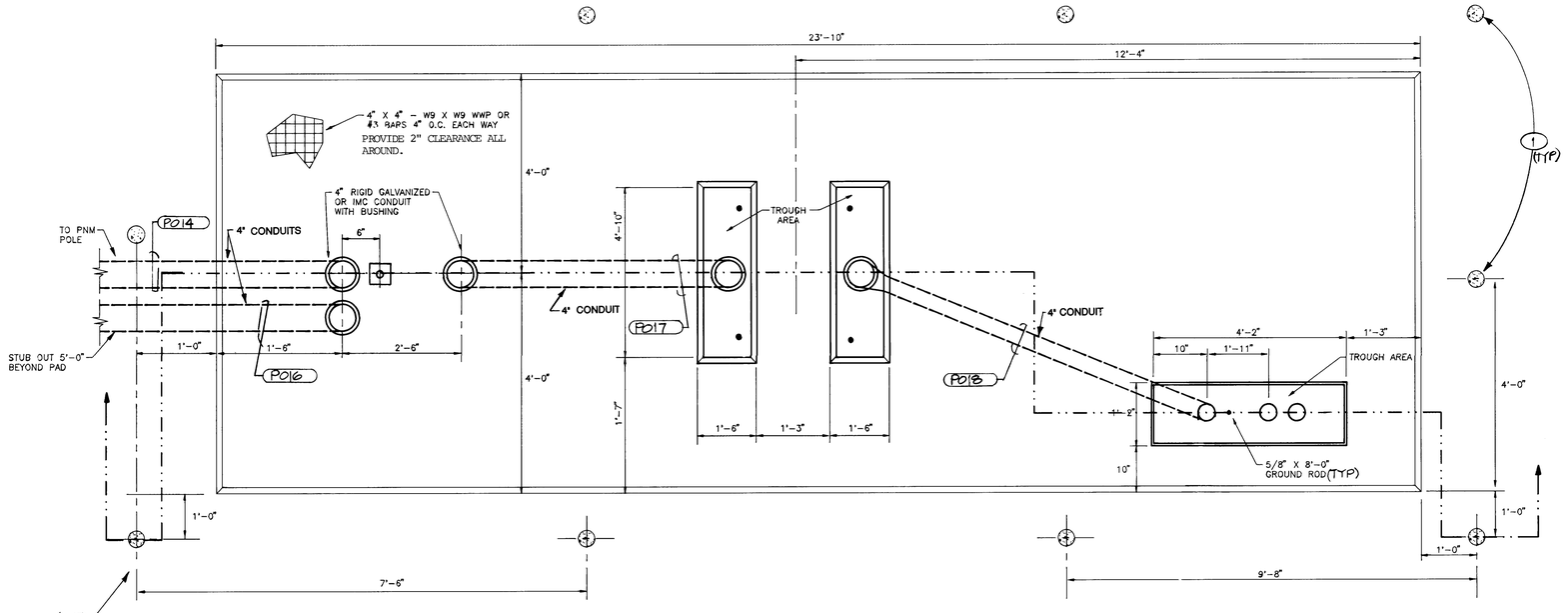
TITLE:
CLAREMONT
POWER ONE-LINE DIAGRAM, SCHED'S, DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Stockley	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY	Steve Zeberg	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-6 OF

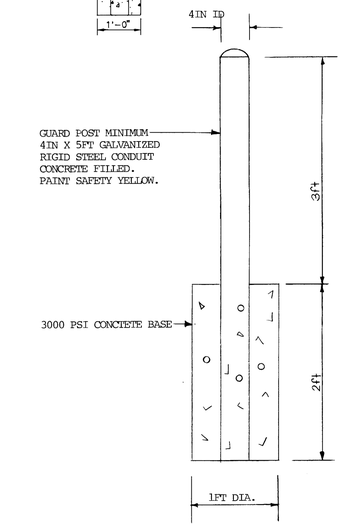
26 4271.907495

Richard Frank
RECORD DRAWINGS 12/94



1 E-6 E-7 750-1500 KVA TRANSFORMER, SWITCHGEAR AND METERING PAD DETAIL

NOT TO SCALE



PEN STANDARD GUARD POST DETAIL

NOT TO SCALE

NOTES

1. NO CONCRETE IN TROUGH AREA OR SECONDARY CONDUIT AREA. LOCATE SECONDARY CONDUITS IN SECONDARY CONDUIT AREA AS SHOWN.
2. BRING CONDUIT UP FLUSH WITH PAD.
3. GUARD POSTS ARE REQUIRED IN TRAFFIC AREA.
4. CONCRETE PAD SHALL BE 3000PSI CONCRETE. LEVEL WITHIN 1/4" IN 5' AS DETERMINED BY A 5' STRAIGHT EDGE.
5. 18" MAXIMUM SECONDARY CONDUIT AREA.
6. SECONDARY CABLES ARE RANDOM LAY IN TROUGH.
7. CONTACT PNM ENGINEER FOR CONDUIT ORIENTATION AND CONFIGURATION:
   A. FOR PNM PRIMARY CONDUIT SYSTEM, CONTRACTOR SHALL INSTALL CONCRETE ENCASED RIGID.
8. CONDUITS MUST BE STUBBED 5' BEYOND EDGE OF PAD UNLESS OTHERWISE SPECIFIED.
9. EXISTING GRADE AND BACKFILL UNDER CONCRETE PAD SHALL BE COMPACTED TO 95% IN ACCORDANCE WITH ASTM D1557.

REFERENCES

1. SEE DS-7-16.10 GUARD POST. DETAIL THIS SHEET.
2. SEE DS-7-16.12 MINIMUM WORKING SPACE AND FIRE SAFETY REQUIREMENTS FOR TRANSFORMERS.
3. SEE DS-9-17.0 WORKING SPACE REQUIRED FOR PAD MOUNTED SWITCHGEAR.
4. SEE DS-18-20.1 GROUND ASSEMBLY.

KEYED NOTES

1. GUARD POST AS REQUIRED BY PUBLIC SERVICE COMPANY OF NEW MEXICO. SEE PNM STANDARD DETAIL THIS SHEET.

GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED AND CONFORM TO PNM REQUIREMENTS.
2. SEE SHEET E-1 FOR SITE PLAN.
3. SEE SHEET E-6 FOR POWER RISER DIAGRAM.
4. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STARTED BY COA DATE 12/94
WORK COMPLETED BY COA DATE
ACCEPTANCE BY RH DATE 12-12-94
VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH DATE 12-12-94
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT
TRANSFORMER PAD DETAILS

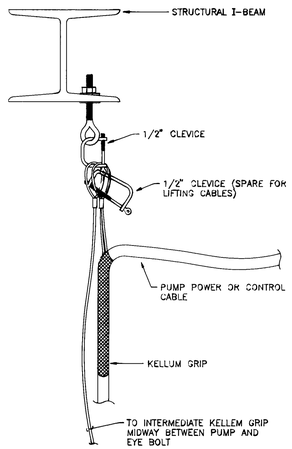
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goolsby	2-18-93	WATER		
TRANSPORTATION	[illegible]	9.24.92	WASTE WATER	N/A	2-24-93
HYDROLOGY	Steve Boberg	1.21.93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-7 OF

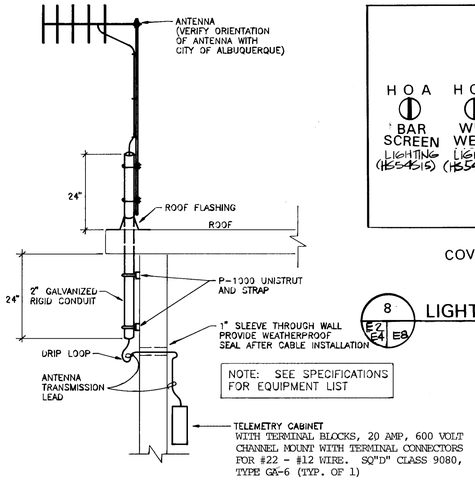
26 4271.907595

SCANNED BY LASON

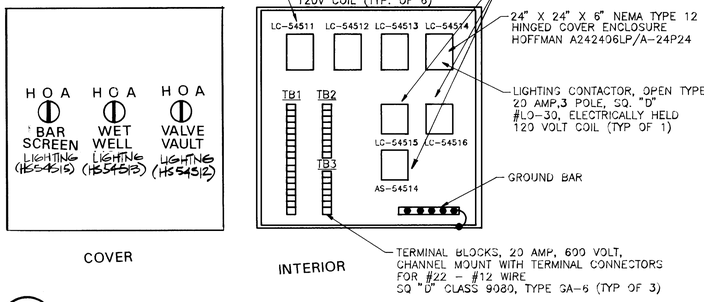
Richard Smith
RECORD DRAWINGS 12/94



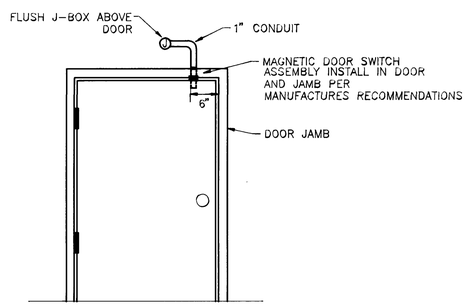
1 E-3 E-4 E-8 CABLE SUPPORT DETAIL
NOT TO SCALE



4 E-3 E-4 E-8 TELEMETRY ANTENNA MOUNTING DETAIL
NOT TO SCALE



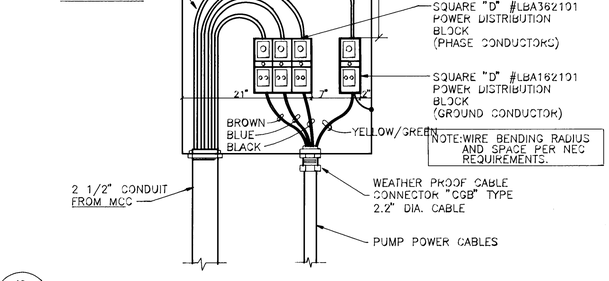
8 E-2 E-4 E-8 LIGHTING CONTROL CABINET DETAIL



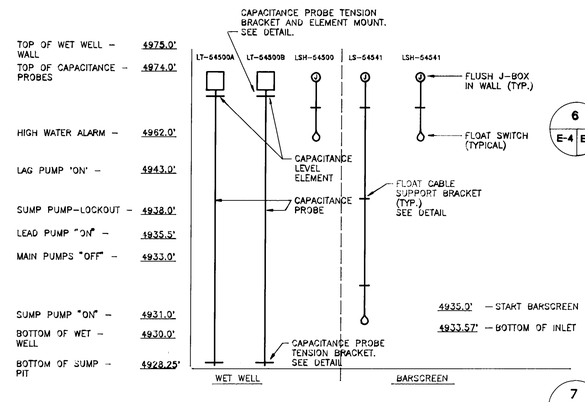
9 E-4 E-8 MAGNETIC DOOR SWITCH INSTALLATION DETAIL

2 E-2 E-8 PHOTOCELL MOUNTING DETAIL
NOT TO SCALE

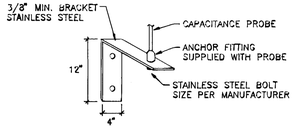
5 E-4 E-8 FLOAT SWITCH CABLE SUPPORT DETAIL
NOT TO SCALE
(PROVIDE SUPPORTS AT 5'-0" CENTERS ENTIRE LENGTH OF CABLE)



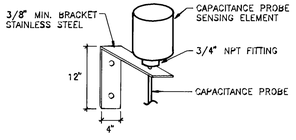
10 E-3 E-8 STORM WATER PUMP TERMINAL J-BOX PPJB-1 DETAIL
SCALE: 1/8" = 1" (PPLB-2 AND PPJB-3 SIMILAR)



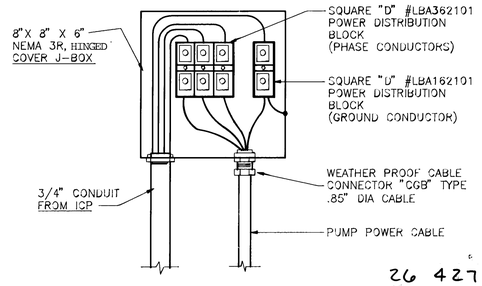
3 E-4 E-8 WELL DETAIL (SEE SHEET M-4, DETAIL #2 FOR EXACT LAYOUT.)
NOT TO SCALE



6 E-4 E-8 CAPACITANCE PROBE ANCHOR DETAIL
NOT TO SCALE



7 E-4 E-8 CAPACITANCE PROBE SENSING ELEMENT MOUNTING DETAIL
NOT TO SCALE



11 E-3 E-8 SUMP PUMP TERMINAL J-BOX SPJB-1 DETAIL
SCALE: 1/4" = 1" (SPJB-2 SIMILAR)

26 4271.907695

SCANNED BY LASON

RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA DATE
INSPECTIONS ACCEPTANCE BY RH AA's DATE
AS-BUILTS VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH AA's DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
DESIGNED BY	R. DUPUY	DATE 8-14-92	
DRAWN BY	TELCON	DATE 8-14-92	
CHECKED BY	F. TELCK	DATE 8-14-92	

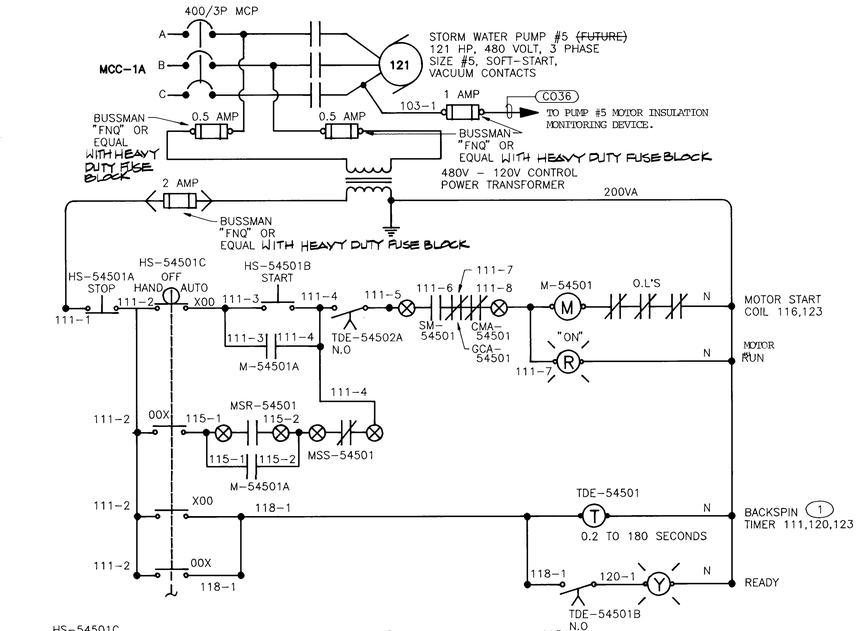
ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

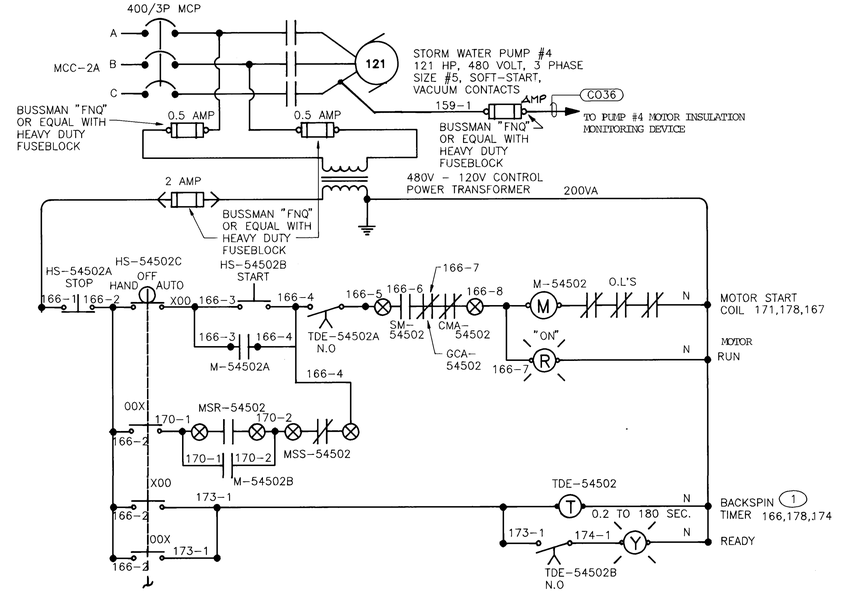
TITLE:
CLAREMONT MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.A. Lankster	2-18-93	WATER	N/A	
TRANSPORTATION	N/A CHD	9-24-92	WASTE WATER	N/A	9-24-92
HYDROLOGY	Steve Boling	1-21-93			

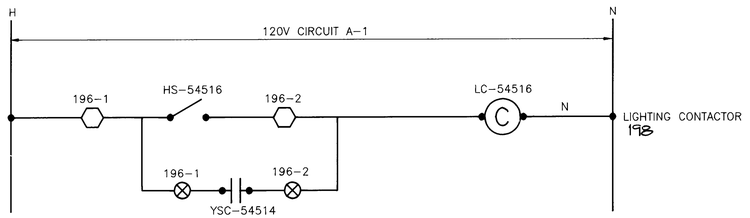
DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-8 OF



STORM WATER PUMP # 5 (FUTURE)



STORM WATER PUMP # 4



CONTROL BUILDING EXTERIOR LIGHTING CONTROL

26 4271.907795

KEYED NOTES

1. ADJUST TIMER PER FIELD CONDITIONS AND FLYGT RECOMMENDATIONS.

GENERAL NOTES

1. SEE SHEET E-1 FOR SYMBOL LEGEND.
2. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
3. SEE SHEET E-22 FOR WIRE TAG LIST.
4. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

CONTROL DIAGRAM TERMINATION LEGEND

- MOTOR CONTROL CENTER TERMINAL
- ICP TERMINAL
- PLC TERMINAL
- LIGHTING CONTROL CABINET TERMINAL
- BARSCREEN CONTROL CABINET TERMINAL

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
AS-BUILTING BY DATE
ACCEPTANCE BY RH AA:C DATE
VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH AA:C DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS
NO. BY DATE REMARKS
DESIGNED BY R. DUPUY 8-14-92
DRAWN BY TELCON 8-14-92
CHECKED BY F. TELCK 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

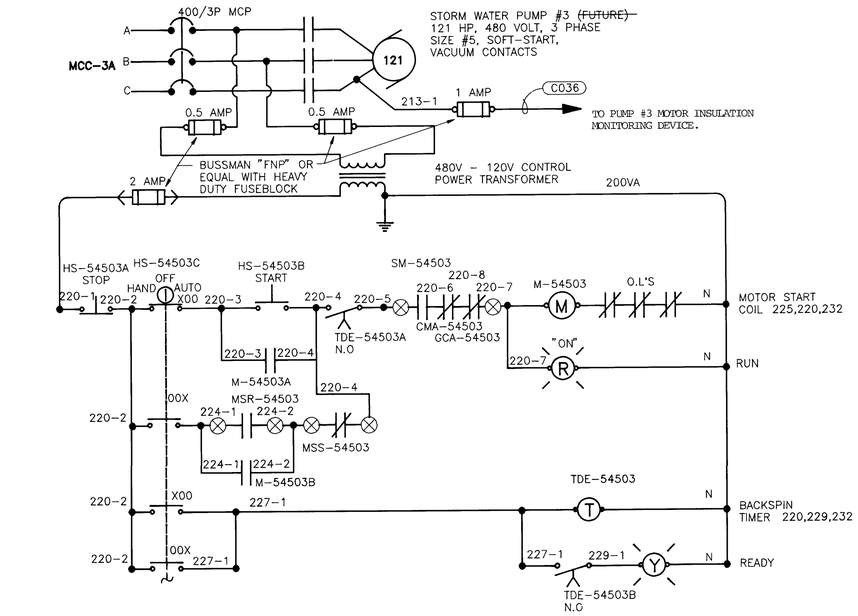
TITLE: CLAREMONT
CONTROL DIAGRAMS

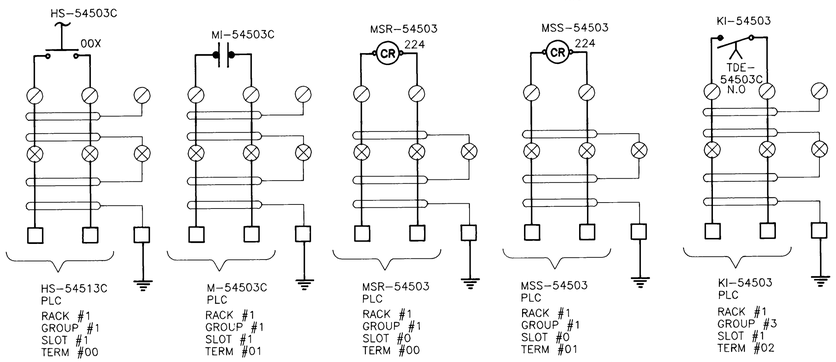
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. Scanlon	2-18-93	WATER	N/A MJD	4-24-92
TRANSPORTATION	N/A RHJ	9.29.92	WASTE WATER		
HYDROLOGY	Stan Boberg	1.21.93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-9 OF

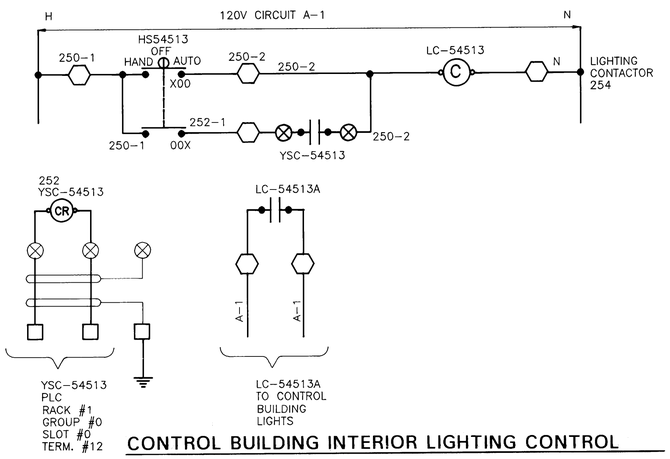
SCANNED BY LASON

Richard Smith
RECORD DRAWINGS 12/94

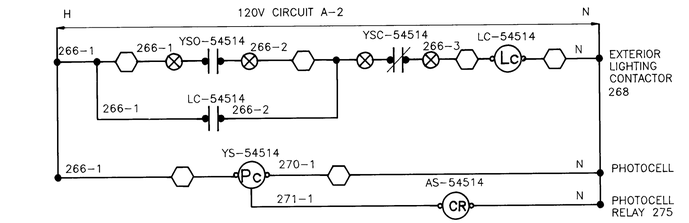


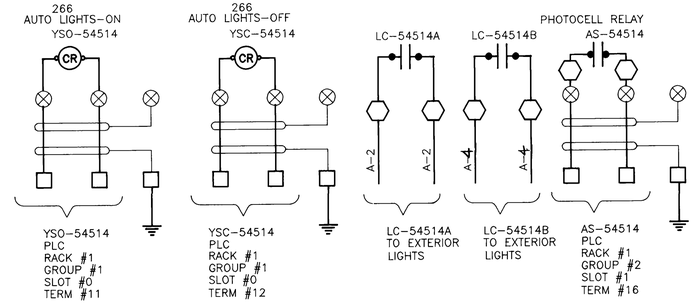


STORM WATER PUMP # 3 (FUTURE)

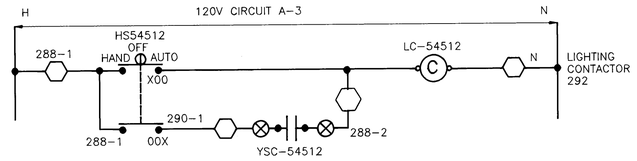


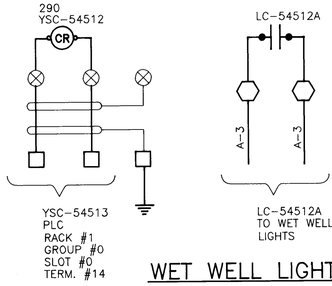
CONTROL BUILDING INTERIOR LIGHTING CONTROL



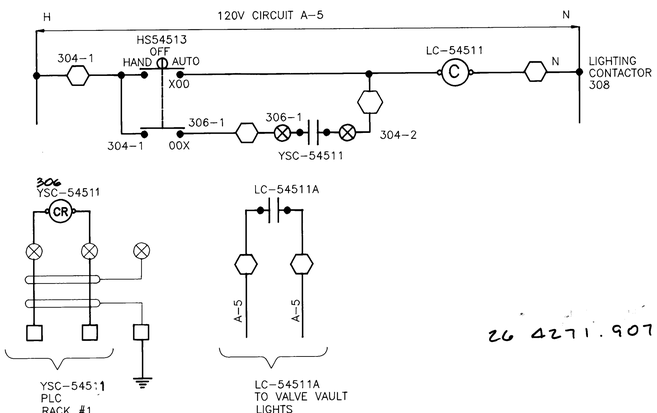


EXTERIOR LIGHTING CONTROL





WET WELL LIGHTING CONTROL



VALVE VAULT LIGHTING CONTROL

26 4271.907895

SCANNED BY
BY LASON

GENERAL NOTES

1. SEE SHEET E-1 FOR SYMBOL LEGEND.
2. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
3. SEE SHEET E-22 FOR WIRE TAG LIST.
4. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

CONTROL DIAGRAM TERMINATION LEGEND

- MOTOR CONTROL CENTER TERMINAL
- ICP TERMINAL
- PLC TERMINAL
- LIGHTING CONTROL CABINET TERMINAL
- BARSCREEN CONTROL CABINET TERMINAL

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 7/94
WORK DONE BY COA DATE
INSPECTORS ACCEPTANCE BY RH AR:R DATE
FIELD VERIFICATION BY COA DATE
COMMENTS CONCERNS BY RH AR:R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

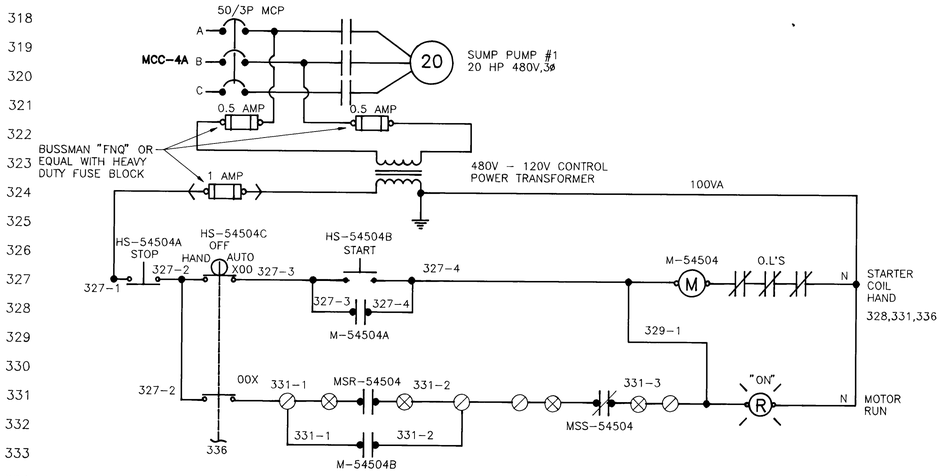
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

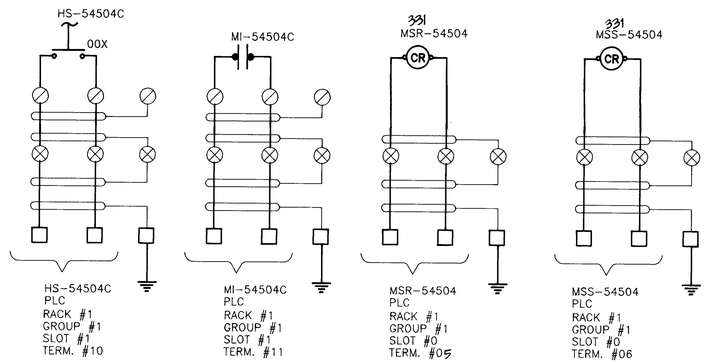
TITLE: CLAREMONT
CONTROL DIAGRAMS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION	N/A	9-24-92	WASTE WATER	N/A	9-24-92
HYDROLOGY		1-21-93			

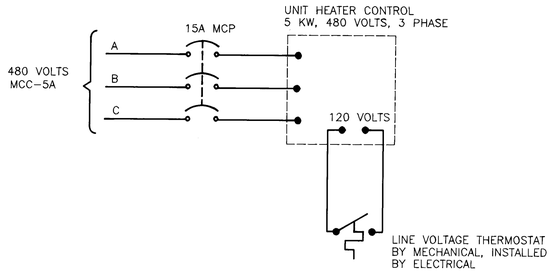
DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-10 OF

RECORD DRAWINGS 12/94

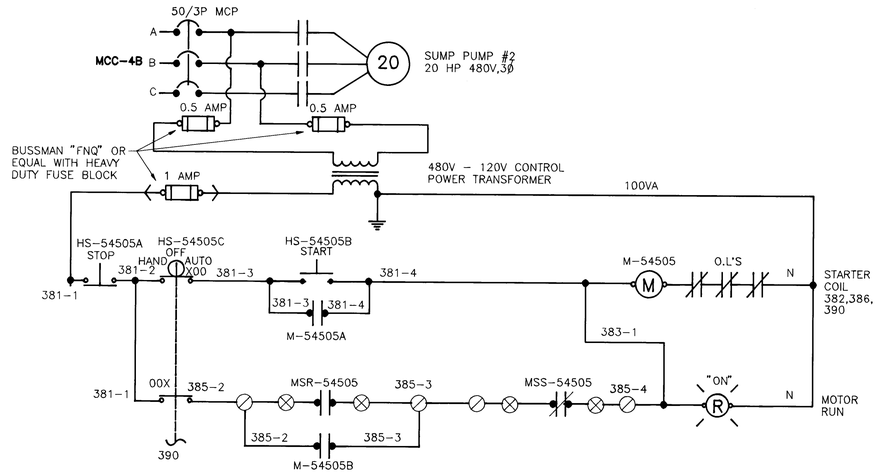


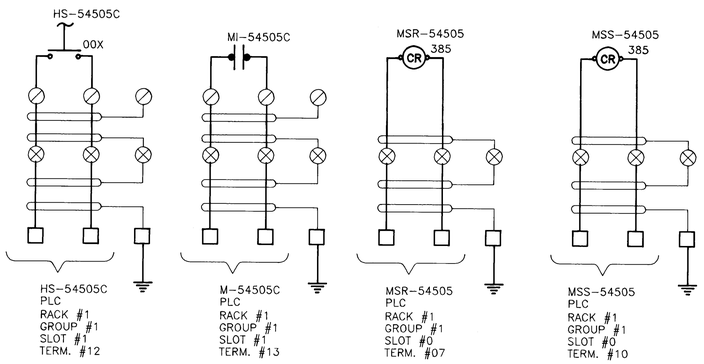


SUMP PUMP #1

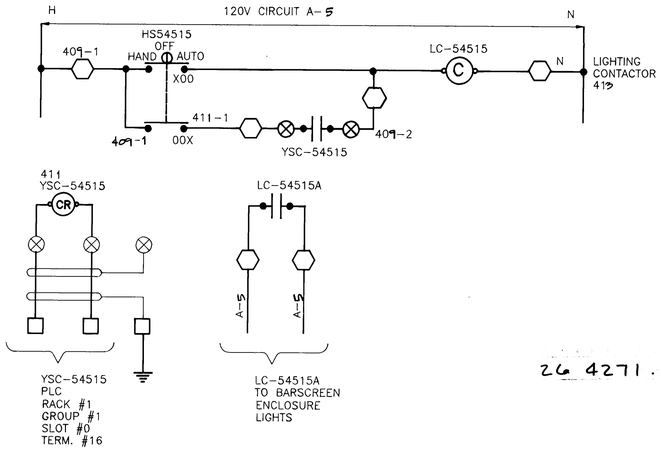


CONTROL BUILDING UNIT HEATER





SUMP PUMP #2



BARSCREEN ENCLOSURE LIGHTING CONTROL

26 4271.907995

SCANNED BY BY LASON NOV '93

GENERAL NOTES

1. SEE SHEET E-1 FOR SYMBOL LEGEND.
2. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
3. SEE SHEET E-22 FOR WIRE TAG LIST.
4. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

CONTROL DIAGRAM TERMINATION LEGEND

- MOTOR CONTROL CENTER TERMINAL
- ICP TERMINAL
- PLC TERMINAL
- LIGHTING CONTROL CABINET TERMINAL
- BARSCREEN CONTROL CABINET TERMINAL

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY KOA
INSPECTIONS PERFORMED BY RH APR 12 DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH APR 12 DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

NO.	DATE	REMARKS	BY
		DESIGN	DESIGNED BY R DUPUY DATE 8-14-92
		REVISIONS	DRAWN BY TELCON DATE 8-14-92
			CHECKED BY F. TELCK DATE 8-14-92

ENGINEER'S SEAL

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

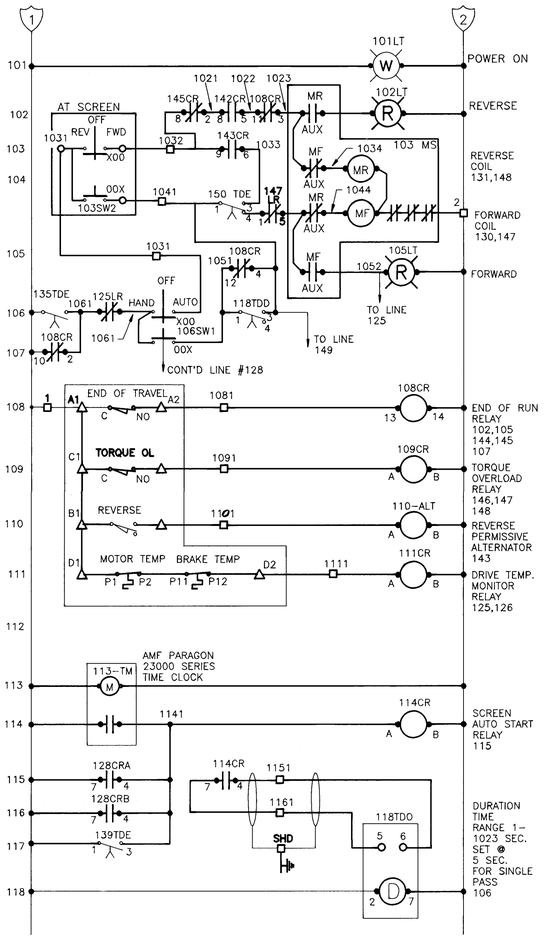
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

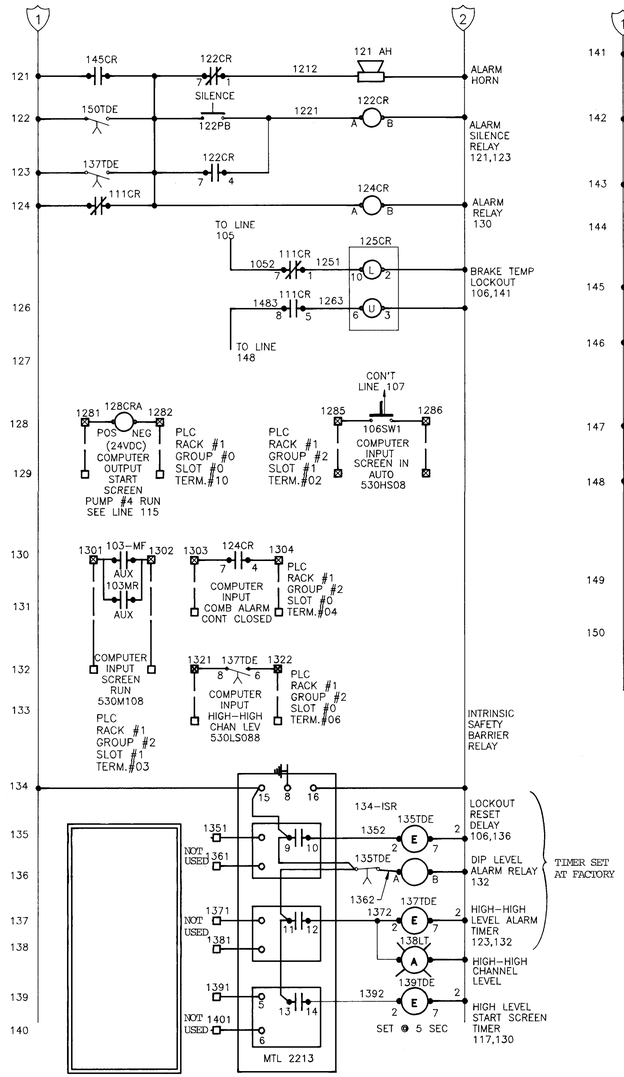
TITLE: CLAREMONT
CONTROL DIAGRAMS

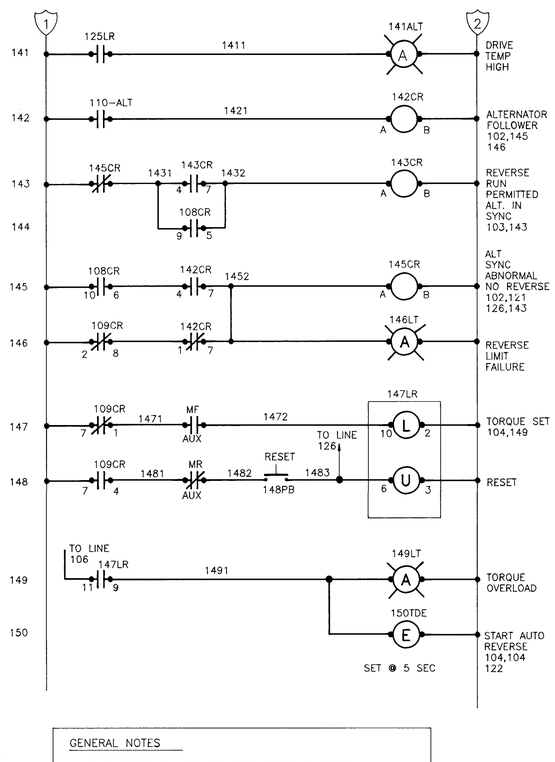
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION	N/A RHP	9-24-92	WASTE WATER	N/A RHP	9-24-92
HYDROLOGY	Steve Boling	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-11 OF

Richard Dourte
RECORD DRAWINGS 12/94

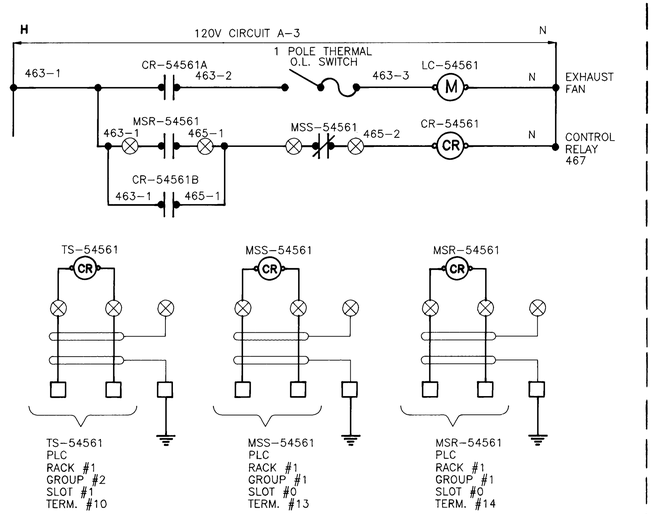






GENERAL NOTES

1. THE REVERSE LIMIT FAILURE LIGHT INDICATES THE LIMIT SWITCH HAS FAILED TO MAKE TWICE PER SCREEN CYCLE. WHEN THIS OCCURS, RELAY 145CR LOCKS OUT THE AUTO REVERSE ON TORQUE CONTROLS. THIS PREVENTS THE RAKE FROM ACCIDENTALLY RAKING OVER THE WIPER MECHANISM.
2. LIMIT SWITCHES SHOWN WITH CARRIAGE IN THE PARK POSITION (END OF TRAVEL).
3. ☒ MAIN PANEL TERMINAL BLOCKS
   ○ LOCAL STATION TERMINAL BLOCKS
   △ SCREEN MOUNTED JUNCTION BOX TERMINAL BLOCKS
   □ TERMINAL LOCATED IN CUSTOMERS PROGRAMMABLE CONTROLLER
   ⊙ TERMINAL LOCATED IN FLOAT SWITCH JUNCTION BOX SUPPLIED BY OTHERS.
4. SEE SHEET E-1 FOR SYMBOL LEGEND
5. SEE SHEET E-21 FOR CONDUIT SCHEDULE
6. SEE SHEET E-22 FOR WIRE TAG LIST
7. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.



CONTROL BUILDING EXHAUST FAN

BAR SCREEN CONTROL DIAGRAM

GENERAL NOTE:
CONTROL DIAGRAM AND LINE NUMBERING SEQUENCE INDICATED CORRESPONDS TO BARSCREEN MANUFACTURER'S LITERATURE.

CONTROL DIAGRAM TERMINATION LEGEND

- ⊘ MOTOR CONTROL CENTER TERMINAL
- ⊗ ICP TERMINAL
- □ PLC TERMINAL
- ⬡ LIGHTING CONTROL CABINET TERMINAL
- ☒ BARSCREEN CONTROL CABINET TERMINAL

AS BUILT INFORMATION
CONTRACTOR RMC
WORK STAKED BY COA DATE 12/94
WORK INSPECTED FOR ACCEPTANCE BY RH DATE 4/8/92
FIELD LOCATION BY COA DATE
DRAWINGS CORRECTED BY RH DATE 8/14/92
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
	8-14-92	REVISIONS DESIGN	
	8-14-92		
	8-14-92		

DESIGNED BY R. DUPUY
DRAWN BY TELCON
CHECKED BY F. TELCK

ALBUQUERQUE • SANTA FE
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TITLE: CLAREMONT CONTROL DIAGRAMS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	L.A. Lapolsky	2-18-93	WATER		
TRANSPORTATION	N/A CHD	4-24-92	WASTE WATER	N/A MOB	4-24-92
HYDROLOGY	Steve Sobey	1-21-93			

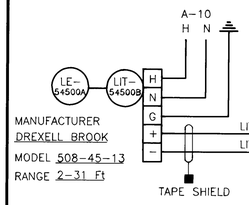
DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-12 OF

26 4271.908095

SCANNED BY BY LASON OF ANNE

Richard Funk
RECORD DRAWINGS 12/94

FIELD



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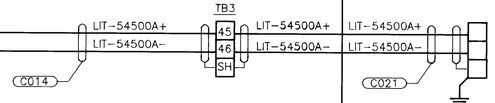

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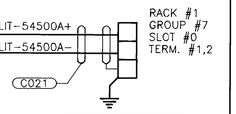
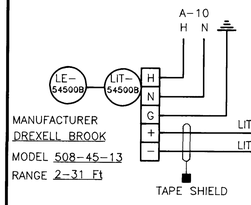


LOOP- LIT-54500A
WET WELL LEVEL CONTROL
(PRIMARY)

FIELD



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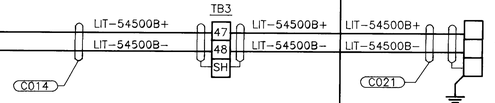
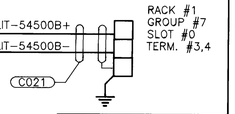
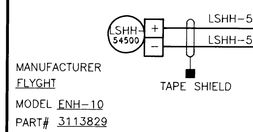


PLC



LOOP- LIT-54500B
WET WELL LEVEL CONTROL
(SECONDARY)

FIELD



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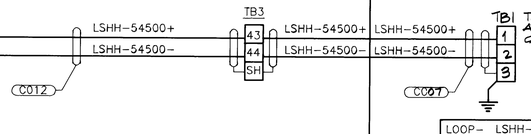
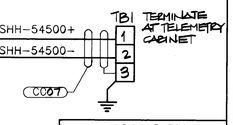
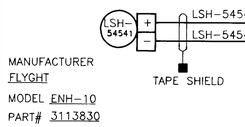


TELEMETRY



LOOP- LSHH-54500
WET WELL HIGH WATER
LEVEL ALARM

BARSCREEN CONTROL CABINET



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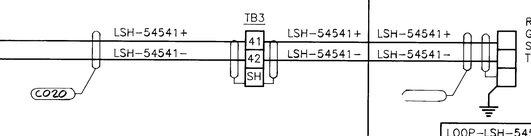
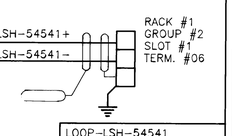
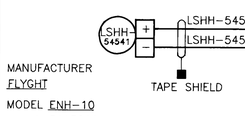


PLC



LOOP-LSH-54541
BARSCREEN INLET
START BARSCREEN

BARSCREEN CONTROL CABINET



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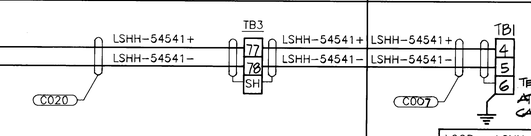

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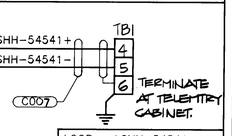
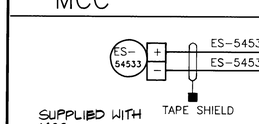


LOOP- LSHH-54541
BARSCREEN INLET HIGH
WATER LEVEL ALARM

MCC



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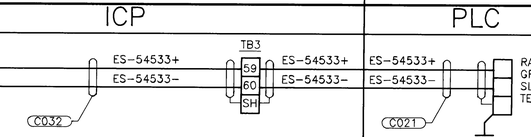
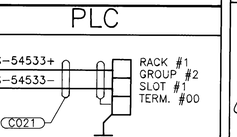
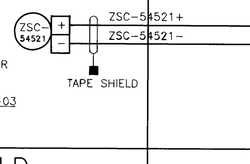


PLC



LOOP- ES-54533
POWER FAILURE

FIELD



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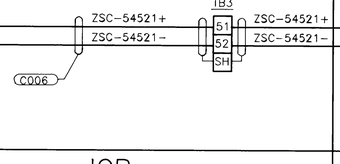

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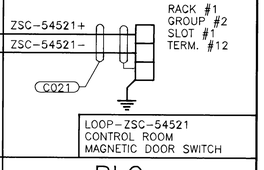
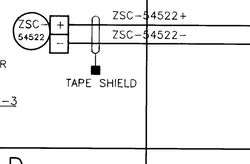


LOOP- ZSC-54521
CONTROL ROOM
MAGNETIC DOOR SWITCH

FIELD



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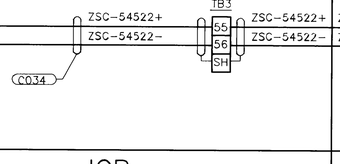

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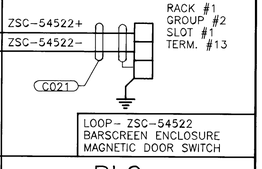
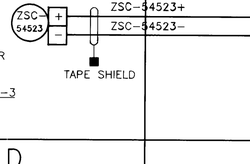


LOOP- ZSC-54522
BARSCREEN ENCLOSURE
MAGNETIC DOOR SWITCH

FIELD



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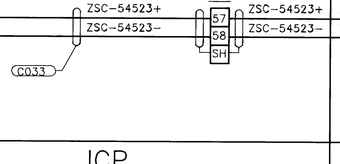

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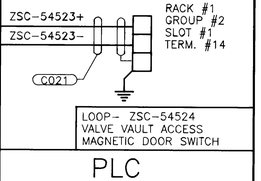
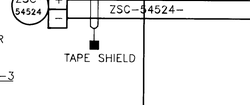


LOOP- ZSC-54524
VALVE VAULT ACCESS
MAGNETIC DOOR SWITCH

FIELD



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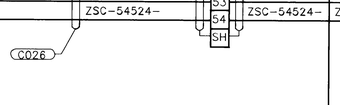

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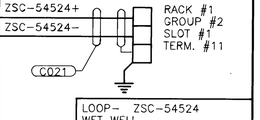
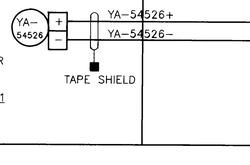


LOOP- ZSC-54524
WET WELL
MAGNETIC DOOR SWITCH

FIELD



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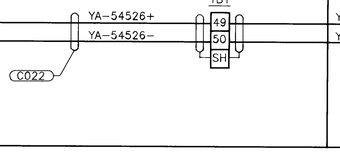

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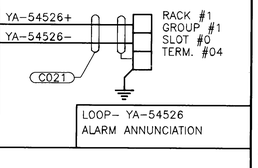
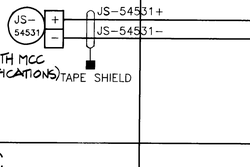


LOOP- YA-54526
ALARM ANNUNCIATION

MCC



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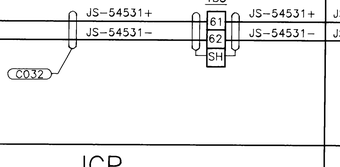

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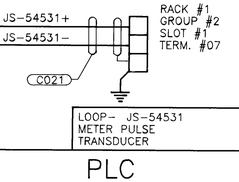
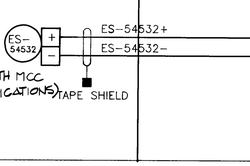


LOOP- JS-54531
METER PULSE
TRANSDUCER

MCC



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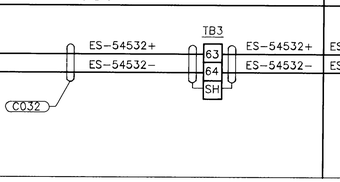

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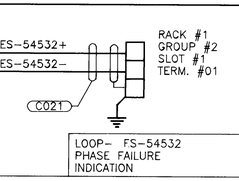


LOOP- FS-54532
PHASE FAILURE
INDICATION

AS BUILT INFORMATION
CONTRACTOR ACMCI DATE 12/94
WORK STAKED BY COA DATE
ACCEPTANCE BY RH DATE 8-24-92
FIELD LOCATION BY COA DATE
DRAWINGS CORRECTED BY RH DATE 8-14-92
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

GENERAL NOTES

1. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
2. SEE SHEET E-22 FOR WIRE TAG LIST.
3. SEE SHEET E-15 THROUGH E-18 FOR TERMINATION DETAILS.
4. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

26 4271.908195

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	R. DUPUY DATE 8-14-92
		DRAWN BY	TELCON DATE 8-14-92
		CHECKED BY	F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT
INSTRUMENTATION LOOP DIAGRAMS

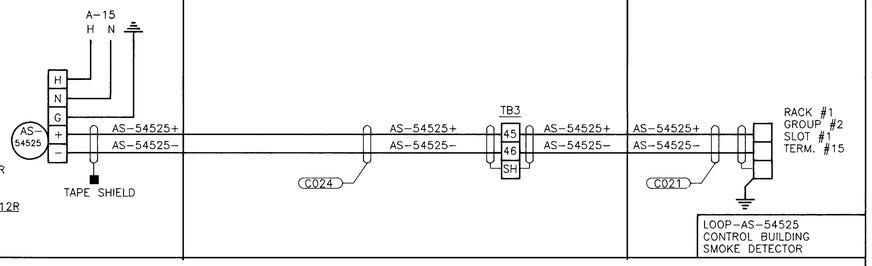
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER		
TRANSPORTATION	N/A	9-24-92	WASTE WATER	N/A	9-24-92
HYDROLOGY	[signature]	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-13 OF

SCANNED BY LASON

Richard Smith
RECORD DRAWINGS 12/94

MCC



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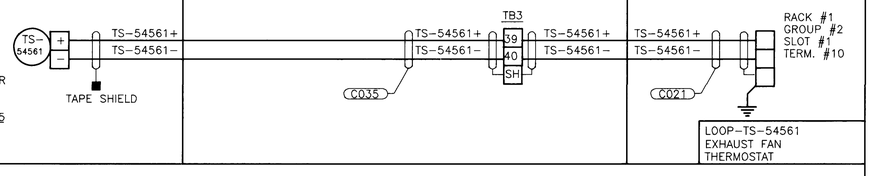

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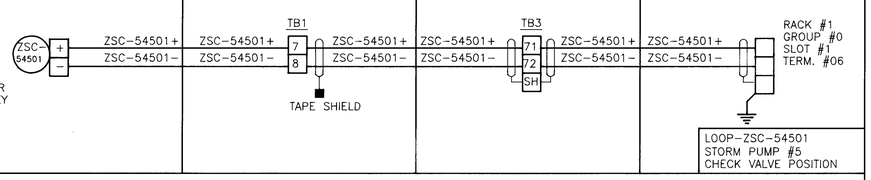

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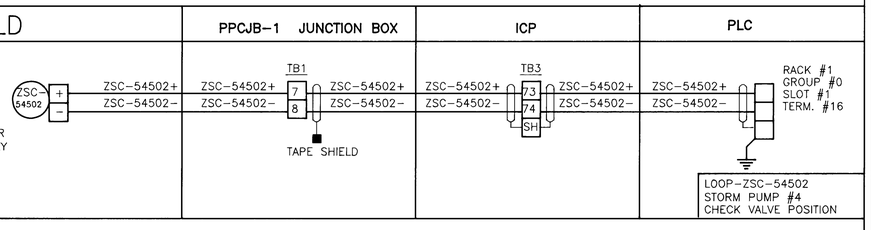
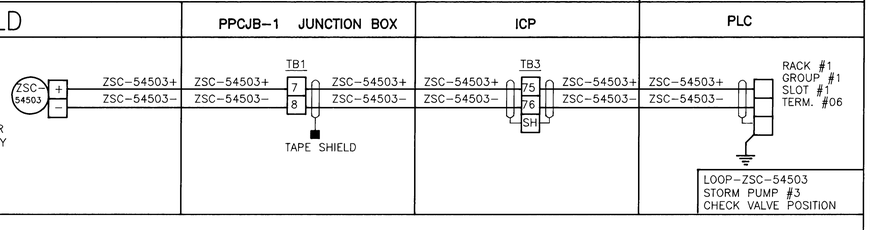


FIELD



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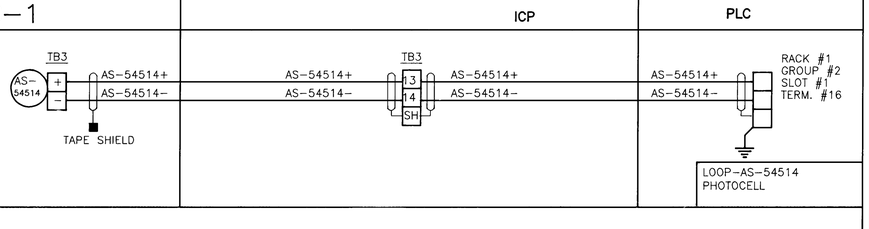


GENERAL NOTES

1. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
2. SEE SHEET E-22 FOR WIRE TAG LIST.
3. SEE SHEET E-15 THROUGH E-18 FOR TERMINATION DETAILS.
4. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY: COA DATE
INSPECTED BY: RH AH:K DATE
ACCEPTANCE BY: COA DATE
FIELD VERIFICATION BY: DATE
DRAWINGS CORRECTED BY: RH AH:K DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN		
	DESIGNED BY R. DUPUY		DATE 8-14-92
	DRAWN BY TELCON		DATE 8-14-92
	CHECKED BY F. TELCK		DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT
INSTRUMENTATION LOOP DIAGRAMS

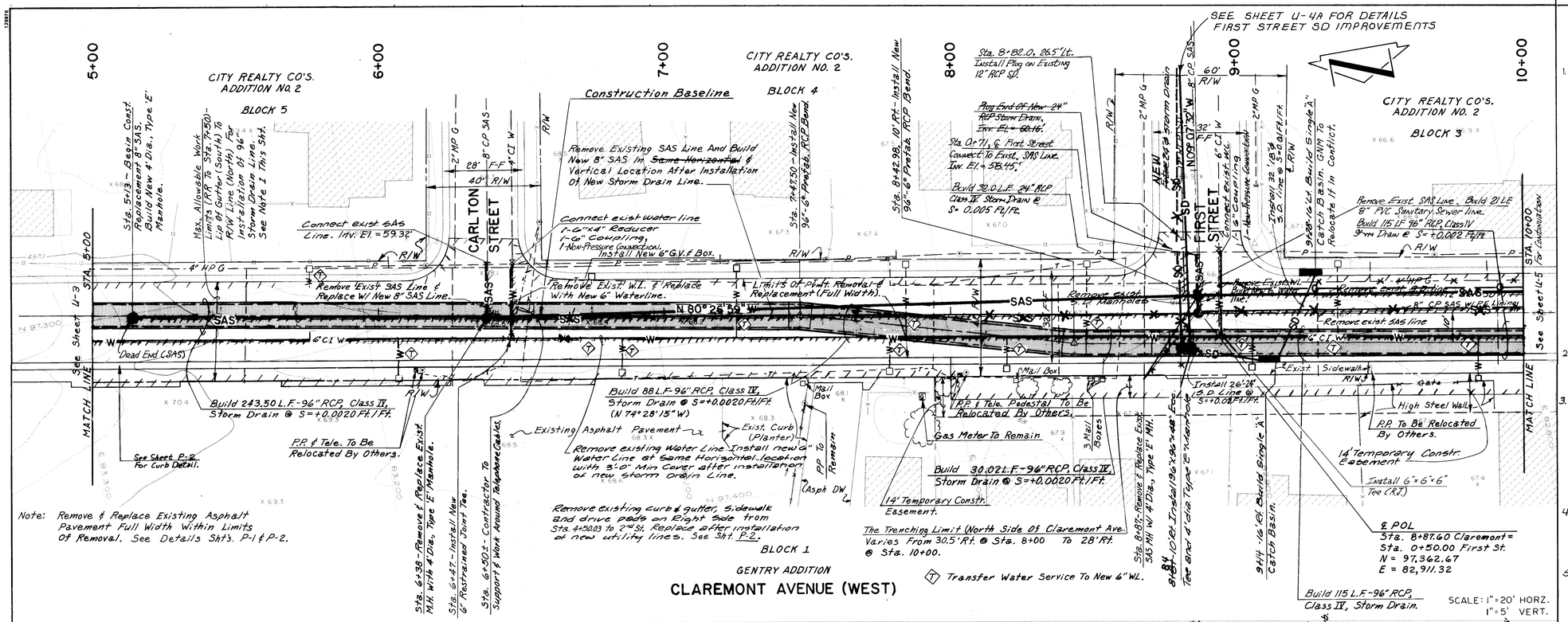
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	N/A
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY		1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-14 OF

26 4271.908295

SCANNED BY LASON

RECORD DRAWING 12/94



NOTES

1. REMOVE CURB AND GUTTER AND SIDEWALK ALONG THE NORTH SIDE OF CLAIRMONT AVE. WEST OF THE RAILROAD. THE CURB AND GUTTER AND SIDEWALK ALONG THE SOUTH SIDE OF CLAIRMONT AVE. IS NOT TO BE REMOVED. THE CONTRACTOR'S WORK AREA FOR INSTALLATION OF NEW 96" STORM DRAIN LINE IS LIMITED TO LIP OF GUTTER ON THE SOUTH AND THE R/W LINE ON THE NORTH FROM THE RAILROAD TRACKS TO STA. 8+00 AND FROM LIP OF GUTTER ON THE SOUTH SIDE TO THE TEMPORARY CONSTRUCTION EASEMENT ON THE NORTH SIDE OF CLAIRMONT AVE. FROM STA. 8+00 TO SECOND STREET. INSTALLATION OF STORM DRAIN TRUNK LINE WILL REQUIRE USE OF A TRENCH BOX AND SIDE SLOPES NO STEEPER THAN 1.5 FT. HORIZONTAL TO 1 FT. VERTICAL AND/OR SHORING IN ACCORDANCE WITH OSHA REGULATIONS. PAYMENT FOR ALL SHORINGS OR DEALING WITH THE CONSTRICTED WORK ZONE SHALL BE MADE PER ITEM J.D. NO. 170.002 CONFINED WORK ZONE REQUIREMENTS, CLAREMONT., PER LUMP SUM.
2. SEE SHEET P-2, DETAILS FOR REPLACEMENT OF CURB AND GUTTER, SIDEWALK AND PAVEMENT IN CLAIRMONT AVENUE.
3. THE CONTRACTOR SHALL MAINTAIN THE EDGE OF TRENCHING WITH SIDE SLOPES STEEPER THAN 1H:1V NO CLOSER THAN 10 FEET FROM POWER POLES. THE EDGE OF TRENCHING WITH SIDE SLOPES 1H:1V OR FLATTER SHALL BE MAINTAINED NO CLOSER THAN 5 FEET TO POWER POLES.
4. THE SAS LINE BETWEEN 2ND AND FIRST STREET WAS SHIFTED TO 7' NORTH OF LIP OF CURB.
5. THE GAS LINE BETWEEN 2ND AND FIRST STREET WAS DOG LEGGED TO 5' NORTH OF LIP OF CURB.

AS BUILT INFORMATION
CONTRACTOR ACCL DATE 12/94
WORK STAKED BY COA DATE
ACCEPTANCE BY AAJF DATE
FIELD LOCATION BY COA DATE
DRAWINGS CORRECTED BY AAJF DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
CONTROL STATION: NM47-11 ELEV. 4968.53 (S.D. 1929)
STATION MARK IS A STANDARD NMSHC BRASS TABLET, STAMPED "STA. NM47-11", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF THE MEDIAN STRIP IN THE 3200 BLOCK OF SECOND STREET, N.W. LOCATION IS 400'± SOUTH OF THE SOUTH R/W OF MILDRED AVENUE N.W.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	Survey Services	8-91
2	Survey Services	8-91

ENGINEER'S SEAL
STATE OF NEW MEXICO 9706 REGISTERED PROFESSIONAL ENGINEER
Richard A. Vermiles

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
			DATE 3-92
			DATE 3-92
			DATE 8-92

DESIGNED BY R.L.
DRAWN BY R.L.
CHECKED BY S.A.V.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 42 71 90 09 5

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

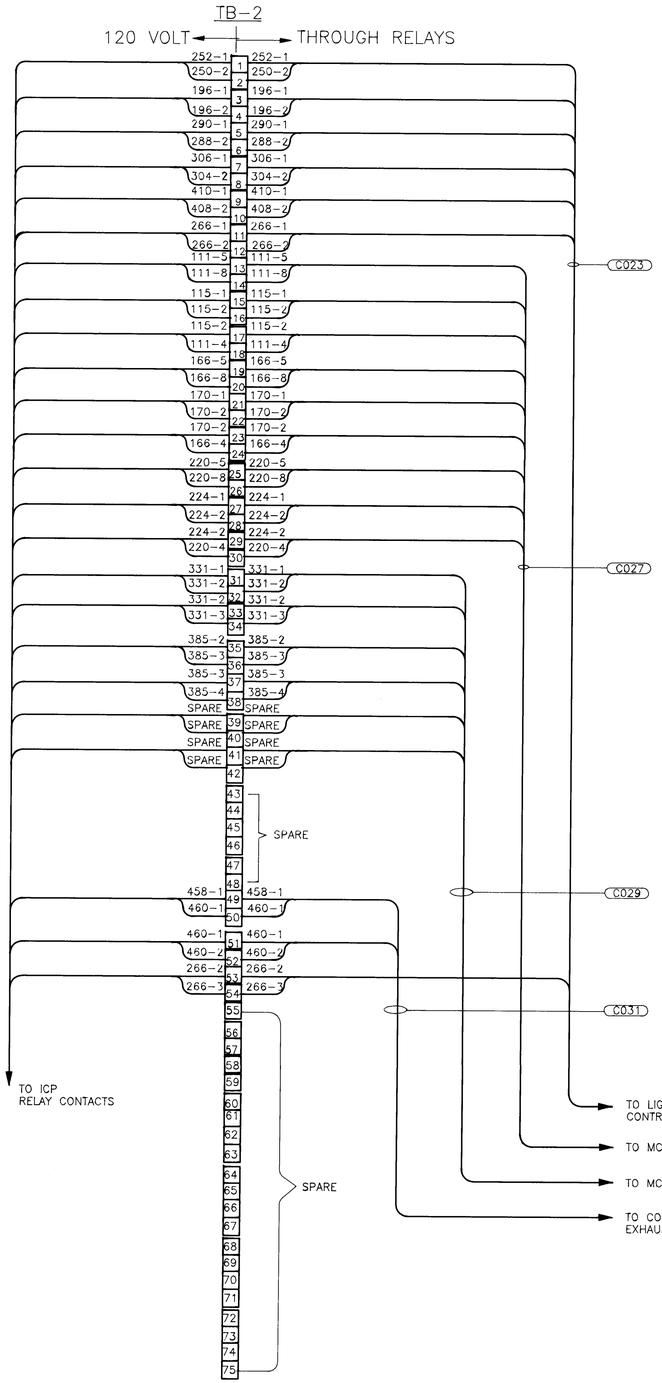
TITLE: STORM DRAIN PLAN AND PROFILE
CLAREMONT AVENUE

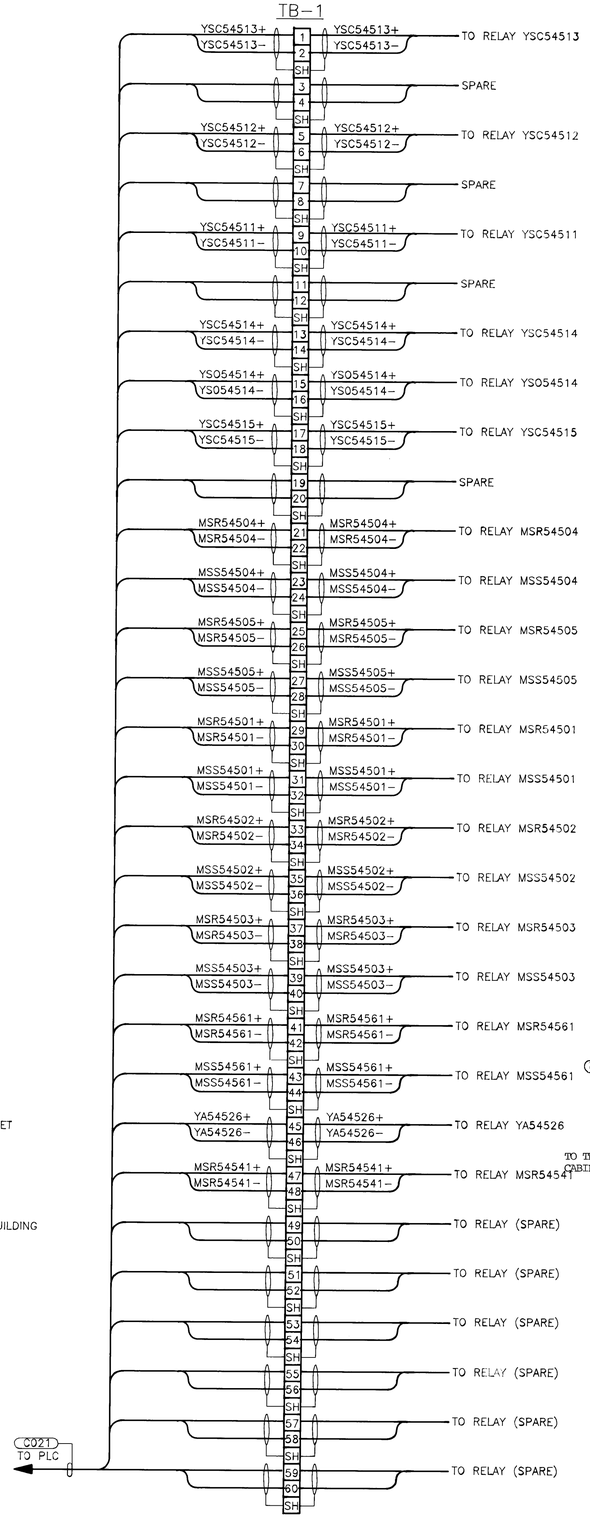
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN					
TRANSPORTATION		2-18-93			
UTILITY		9-24-92			
HYDROLOGY		9-24-92			
		1-19-93			

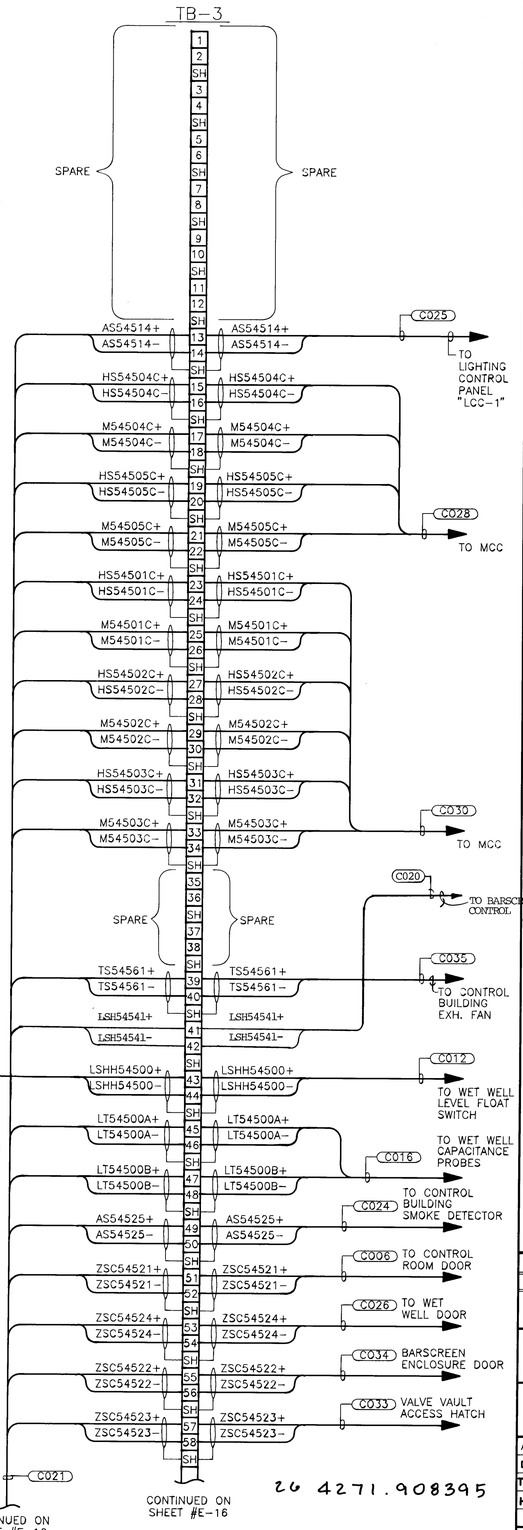
DRAWING NO. 4271.90 | MAP NO. H-14 | SHEET U-4 OF

SCANNED BY BY LASON

Richard Forsth
RECORD DRAWING 12/94







26 4271.908395

SCANNED BY LASON

AS BUILT INFORMATION
CONTRACTOR Rinol DATE
INSPECTOR 1 DATE
INSPECTORS SIGNATURE BY RH APR DATE
FIELD NOTATIONS BY DATE
DRAWINGS CORRECTED BY RH APR DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS

ENGINEER'S SEAL

GENERAL NOTES

1. SEE SHEET E-8 FOR J-BOX DETAILS.
2. SEE SHEET E-4 FOR J-BOX LOCATIONS.
3. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
4. SEE SHEET E-22 FOR WIRE TAG LIST.
5. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

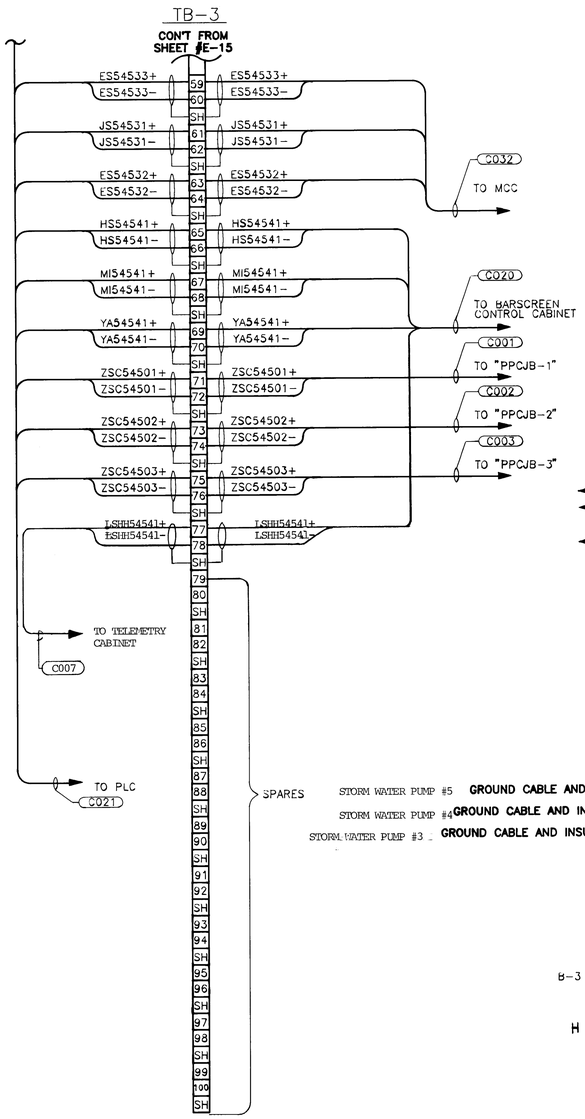
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

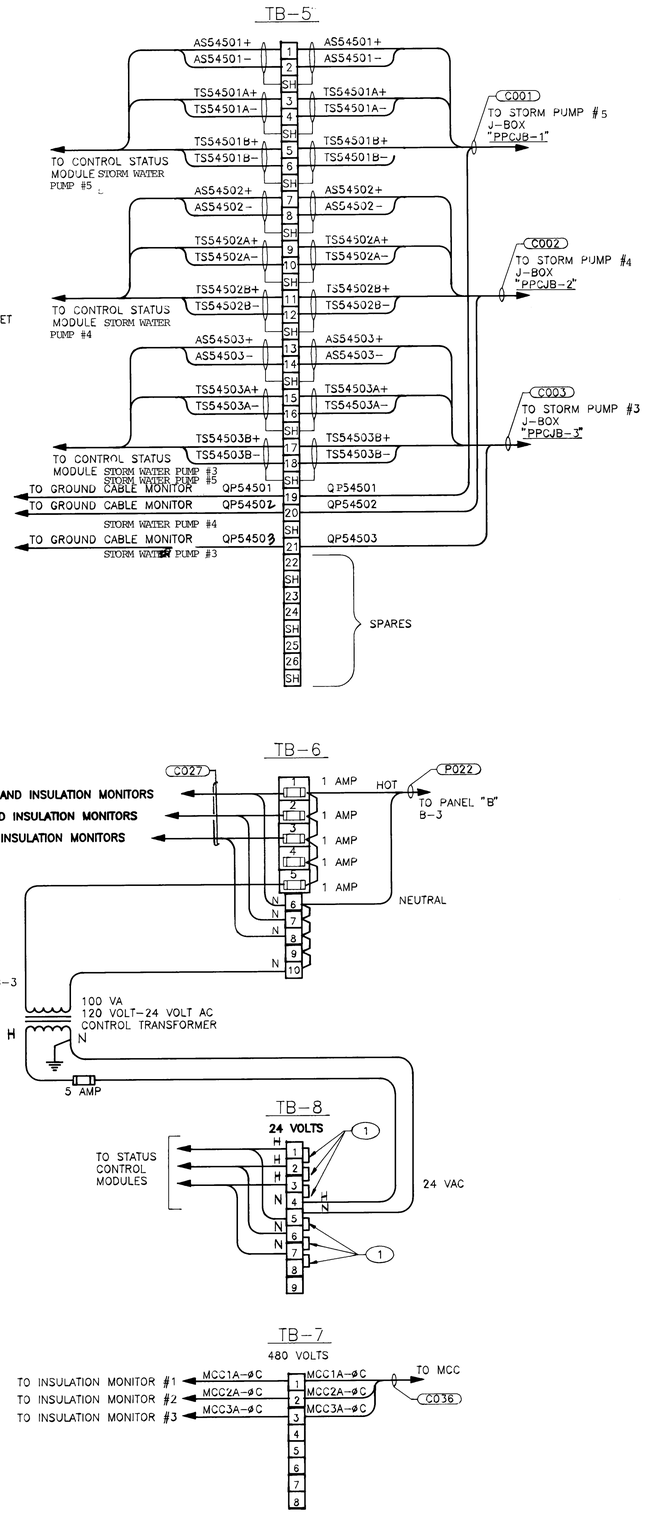
TITLE: CLAREMONT TERMINATION DETAILS

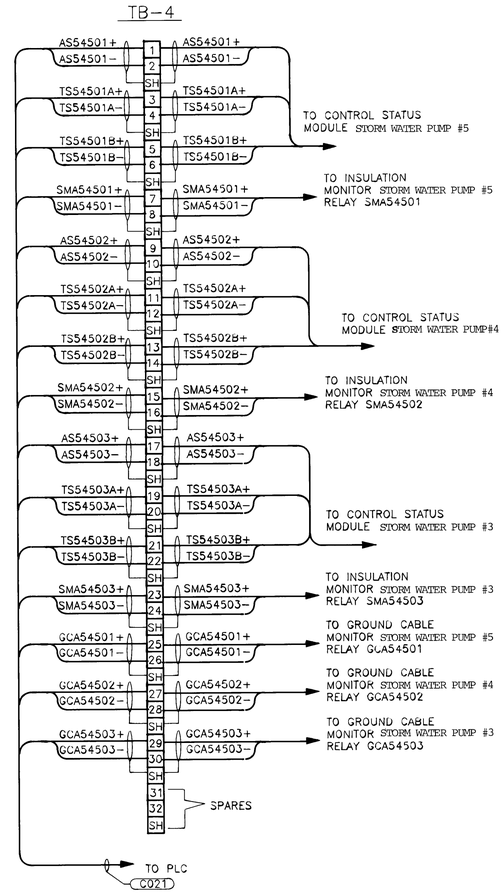
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[illegible]	2-18-93	WATER		
TRANSPORTATION	N/A	4.21.93	WASTE WATER	N/A	4-21-93
HYDROLOGY	Steve Boleg	1.21.93			

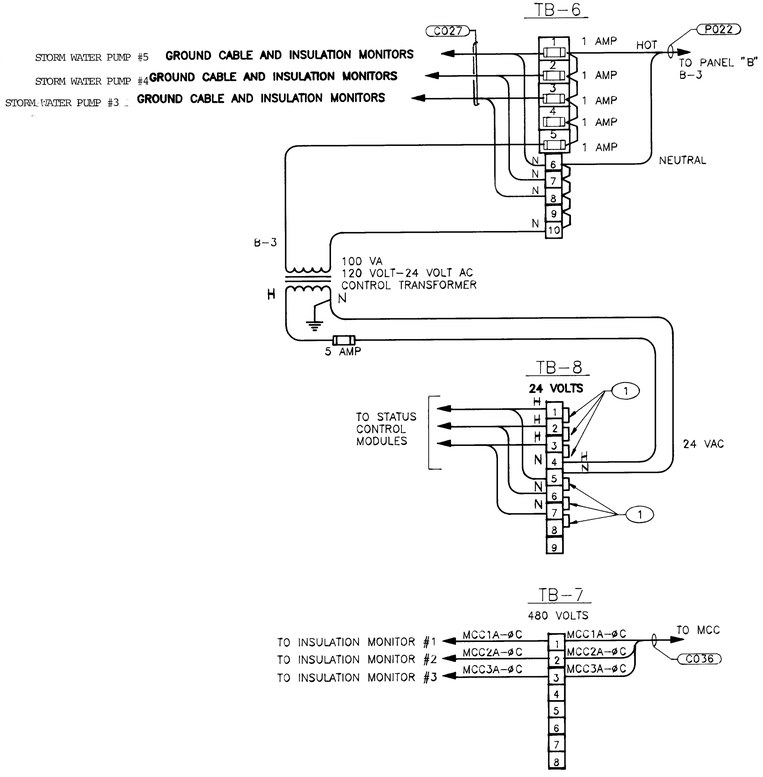
DRAWING NO. 4271.90
MAP NO. Q-14,15 H-14,15
SHEET E-15 OF

Richard Fourt
RECORD DRAWINGS 12/94









26 4271.908495

ICP PANEL

SCANNED BY LASON

AS BUILT INFORMATION

CONTRACTOR Amcl DATE 12/94
WORK STAKED BY COA
INSPECTURE BY RH DATE
ACCEPTANCE BY AA;P DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RH AA;P DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

GENERAL NOTES

1. SEE SHEET E-8 FOR J-BOX DETAILS.
2. SEE SHEET E-4 FOR J-BOX LOCATIONS.
3. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
4. SEE SHEET E-22 FOR WIRE TAG LIST.
5. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCUN DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

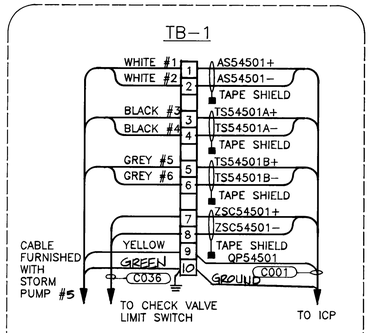
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT TERMINATION DETAILS

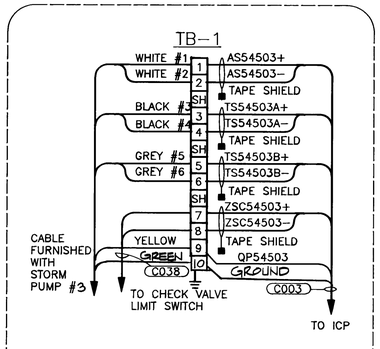
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goodloe	2:18-93	WATER		
TRANSPORTATION	N/A RHD	9.24.92	WASTE WATER	N/A MgD	9-24-92
HYDROLOGY	Steve Boberg	1.21.93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-16 OF

RECORD DRAWINGS 12/94

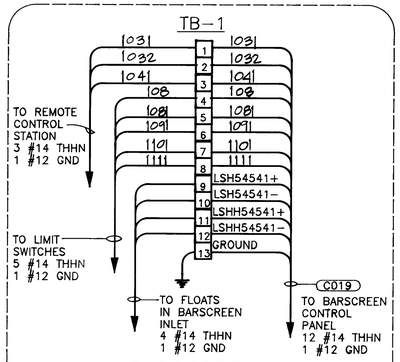


STORM WATER PUMP
CONTROL J-BOX"PPCJB-1"

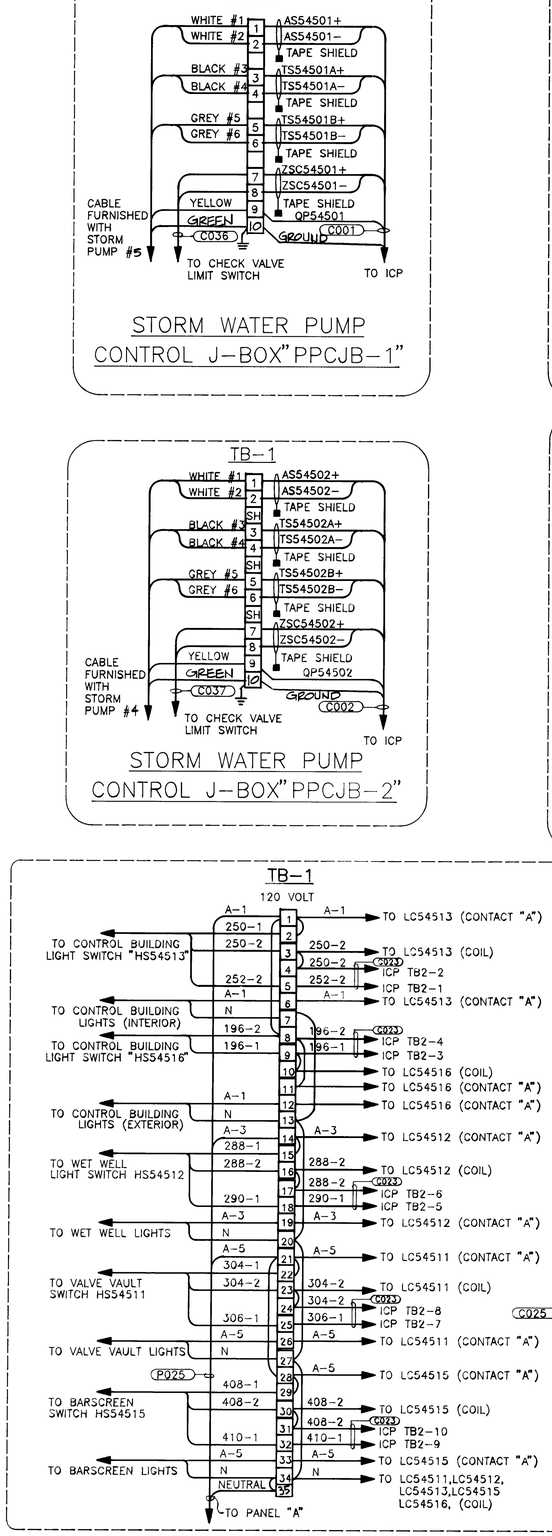


STORM WATER PUMP
CONTROL J-BOX"PPCJB-3"

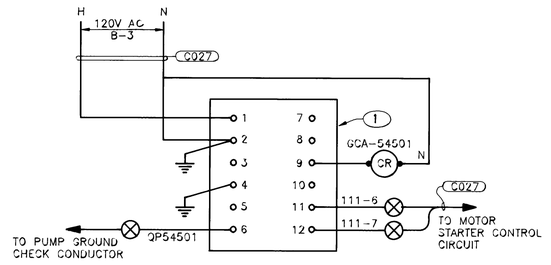
STORM WATER PUMP
CONTROL J-BOX"PPCJB-2"



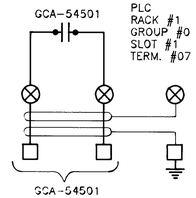
BARSCREEN
CONTROL J-BOX"BSJB-1"

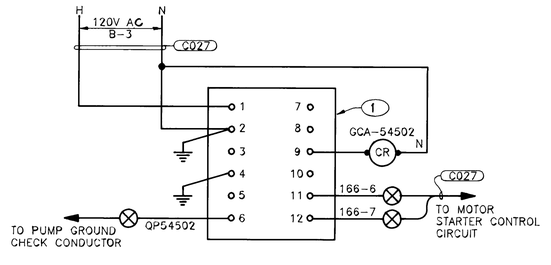


LIGHTING CONTROL CABINET
LCC-1

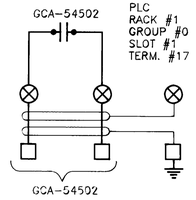


GROUND CABLE MONITOR
STORM WATER PUMP #5

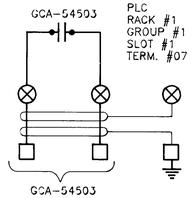




GROUND CABLE MONITOR
STORM WATER PUMP #4



GROUND CABLE MONITOR
STORM WATER PUMP #3



KEYED NOTES

1. CABLE GROUND MONITOR, FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL. INSTALL IN ICP PANEL. SEE DETAIL #1 ON SHEET E-19 FOR LAYOUT.

GENERAL NOTES

1. SEE SHEET E-8 FOR J-BOX DETAILS.
2. SEE SHEET E-4 FOR J-BOX LOCATIONS.
3. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
4. SEE SHEET E-22 FOR WIRE TAG LIST.
5. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY:
ACCEPTANCE BY:
FIELD VERIFICATION BY:
DRAWINGS CORRECTED BY:
MICRO-FILM INFORMATION
RECORDED BY
NO.
DATE 12/94

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS
NO. DATE REMARKS BY
DESIGN
DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 9106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT
TERMINATION DETAILS

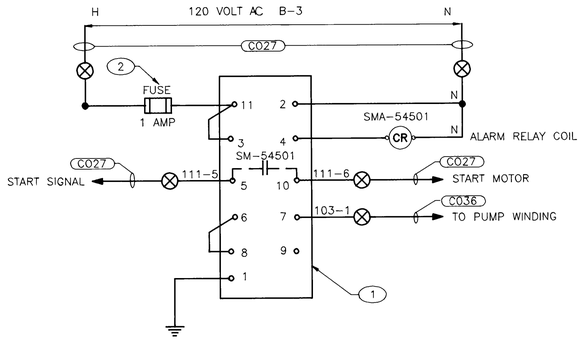
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION	N/A (AM)	9-24-92	WASTE WATER	N/A	1-21-93
HYDROLOGY		1-21-93			

DRAWING NO. 4271.90
MAP NO. Q-14,15 H-14,15
SHEET E-17 OF

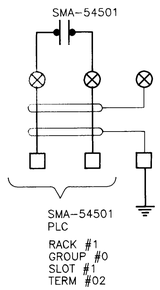
26 4271.908595

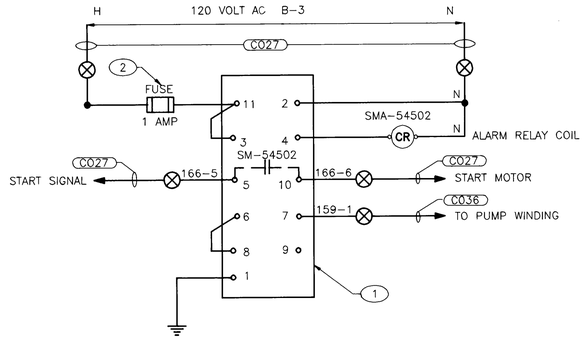
SCANNED BY
BY: JASON

Richard Frost
RECORD DRAWINGS 12/94

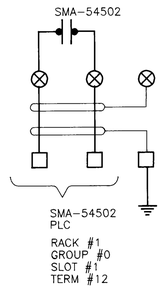


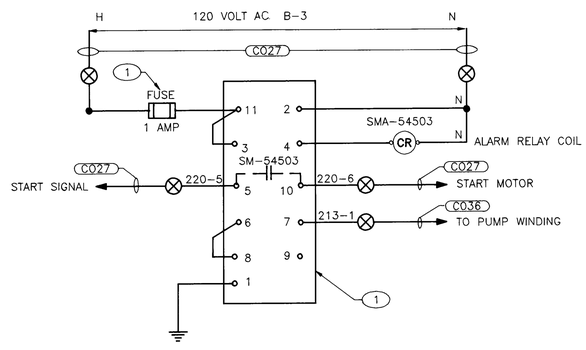
"SUB-MEG"
MOTOR INSULATION MONITORING DEVICE
STORM WATER PUMP #5



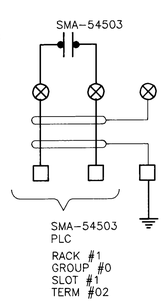


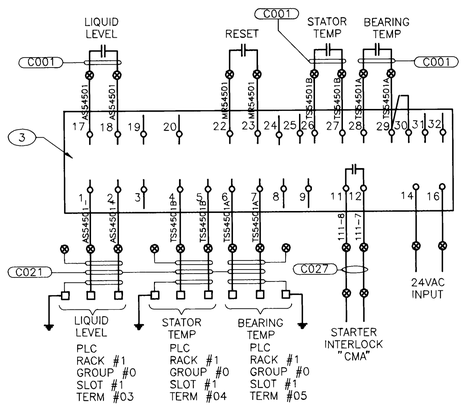
"SUB-MEG"
MOTOR INSULATION MONITORING DEVICE
STORM WATER PUMP #4



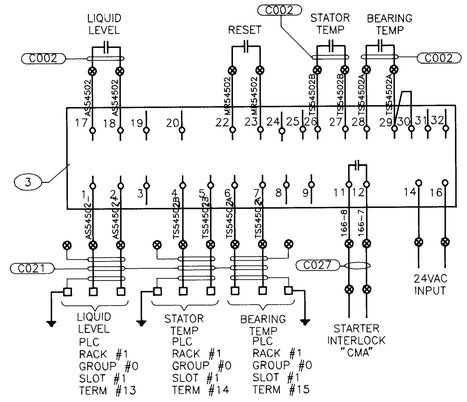


"SUB-MEG"
MOTOR INSULATION MONITORING DEVICE
STORM WATER PUMP #3

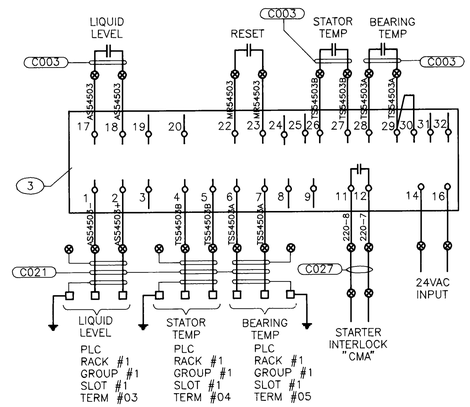




CONTROL AND STATUS MODULE
STORM WATER PUMP #5



CONTROL AND STATUS MODULE
STORM WATER PUMP #4



CONTROL AND STATUS MODULE
STORM WATER PUMP #3

GENERAL NOTES

1. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
2. SEE SHEET E-22 FOR WIRE TAG LIST.
3. SEE SHEET E-19 FOR ICP PANEL LAY-OUT.
4. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

KEYED NOTES

1. FLYGT "SUBMEG" INSULATION MONITORING SYSTEM CONTROL MODULES, FURNISHED BY MECHANICAL, INSTALLED AND CONNECTED BY ELECTRICAL. SEE INTERCONNECTION CONTROL DIAGRAMS.
2. BUSSMAN TYPE "FNQ" OR EQUAL FUSE WITH HEAVY DUTY FUSEBLOCK.
3. FLYGT "CONTROL STATUS MODULE", FURNISHED BY MECHANICAL, INSTALLED AND CONNECTED BY ELECTRICAL. SEE INTERCONNECTION CONTROL DIAGRAMS.

AS BUILT INFORMATION
CONTRACTOR — DATE 12/94
STAKED BY
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
		DESIGNED BY R.DUPUY — DATE 8-14-92
		DRAWN BY TELCON — DATE 8-14-92
		CHECKED BY F.J.TELCK — DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT
TERMINATION DETAILS

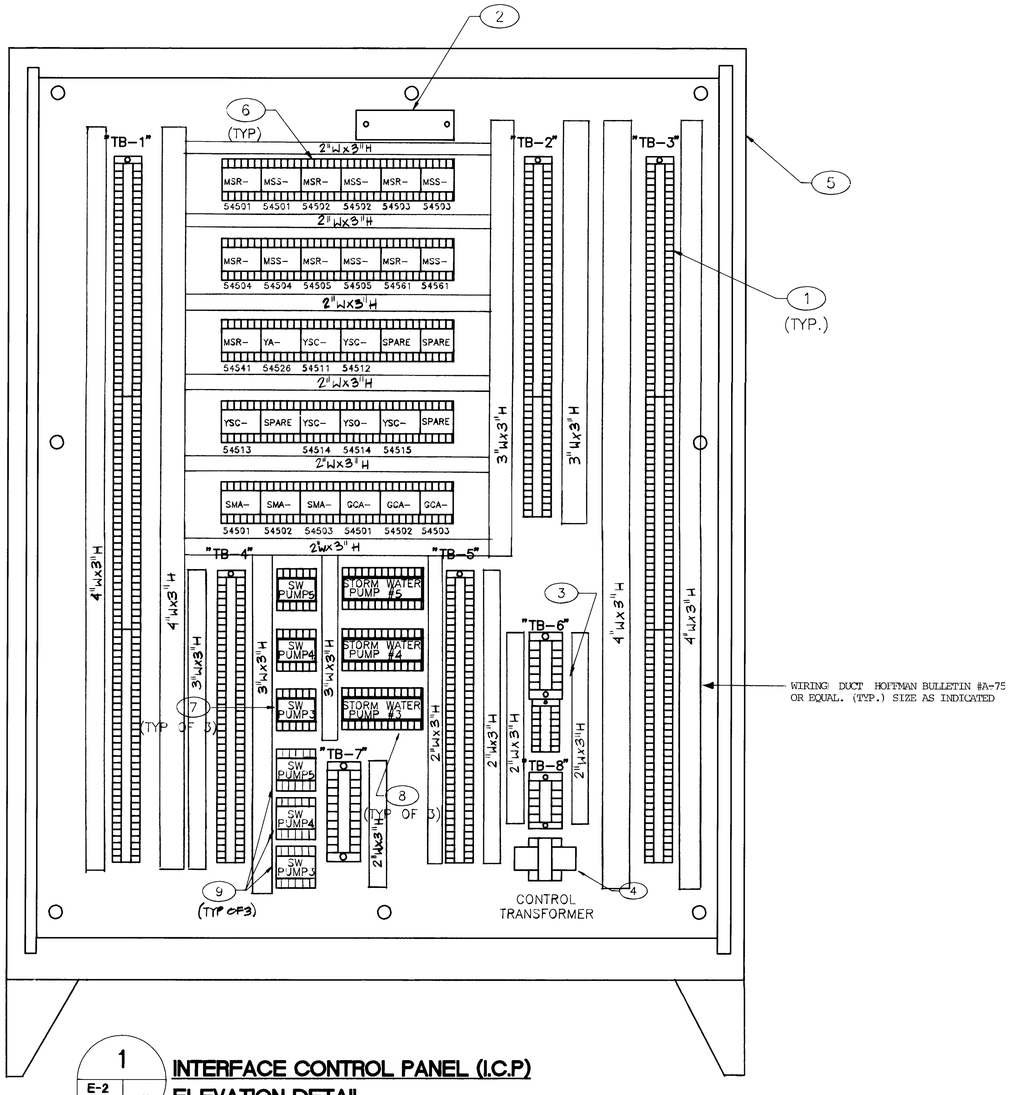
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. J. Stanley	2-18-93	WATER		
TRANSPORTATION	N/A	9.24.92	WASTE WATER	N/A MDB	9-24-92
HYDROLOGY	Steve Ecker	1.21.93			

DRAWING NO. 4271.90 | MAP NO. G-14,15 H-14,15 | SHEET E-18 OF

26 4271.908695

SCANNED BY LASON

RECORD DRAWINGS 12/94



1 / E-2, E-3, E-9 / E-18

INTERFACE CONTROL PANEL (I.C.P) ELEVATION DETAIL

NTS

KEYED NOTES

1. 20 AMP, 600 VOLT, CHANNEL MOUNT TERMINAL BLOCKS WITH FLAT TERMINAL CONNECTORS FOR #22-#10 WIRE. BUCHANAN #DP0721 OR APPROVED EQUAL.
2. ENGRAVED NAMEPLATE, 3" X 5", MICARTA, TO READ: "INTERFACE CONTROL PANEL" AND "WARNING- CONTROL POWER FED FROM MORE THAN ONE SOURCE". MOUNT ON OUTSIDE FRONT COVER.
3. 30 AMP, 600 VOLT, CHANNEL MOUNT TERMINAL FUSED TERMINAL BLOCK FOR 12/32" X 1 1/2" FERREL TYPE FUSES FOR #18-#8 WIRE. BUCHANAN #DP3011 OR APPROVED EQUAL. FUSE AT 2 AMPS.
4. 120 VOLT TO 24 VOLT CONTROL POWER TRANSFORMER, 100 VA WITH SECONDARY FUSE BLOCK.
5. 72" HIGH X 60" WIDE X 12" DEEP, TWO DOOR NEMA TYPE 12 FLOOR MOUNTED ENCLOSURE. HOFFMAN BULLETIN A-12. INSTALL ALL COMPONENTS INDICATED AND CONNECT PER INTERCONNECTION AND TERMINAL CONNECTION DIAGRAMS AND DETAILS. FURNISH WITH METALLIC MOUNTING PANEL.
6. INTERPOSING RELAYS, STRUTHERS DUNN MODEL #219ABA156, 24 VDC COIL, WITH 10 AMP, 120 VOLT RATED CONTACTS. MOUNT ON CHANNEL.
7. FLYGT "SUBMEG" INSULATION MONITORING SYSTEM CONTROL MODULES, FURNISHED BY MECHANICAL, INSTALLED AND CONNECTED BY ELECTRICAL. SEE INTERCONNECTION CONTROL DIAGRAMS.
8. FLYGT "CONTROL STATUS MODULE", FURNISHED BY MECHANICAL, INSTALLED AND CONNECTED BY ELECTRICAL. SEE INTERCONNECTION CONTROL DIAGRAMS.
9. FLYGT "GROUND CABLE MONITOR", FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL. SEE INTERCONNECTION CONTROL DIAGRAMS.

GENERAL NOTES

1. SEE SHEET E-9 THROUGH E-18 FOR CONTROL DIAGRAMS, INSTRUMENTATION DIAGRAMS AND TERMINATION STRIP DETAILS.
2. SEE SHEET E-20 FOR PLC LAYOUT DETAILS.
3. SEE SHEET E-21 FOR CONDUIT SCHEDULE.
4. SEE SHEET E-22 FOR INSTRUMENTATION TAG LIST.
5. REFER TO SPECIFICATIONS FOR TESTING AND FINAL CLOSE-OUT REQUIREMENTS.

AS BUILT INFORMATION
CONTRACTOR RMC DATE 12/94
WORK STAKED BY CDA DATE
RECORDS ACCEPTANCE BY RH DATE
FIELD VERIFICATION BY CDA DATE
DRAWINGS CORRECTED BY RH DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY R. DUPUY	DATE 8-14-92
		DRAWN BY TELCON	DATE 8-14-92
		CHECKED BY F. TELLK	DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT
INTERFACE CONTROL PANEL ELEVATION

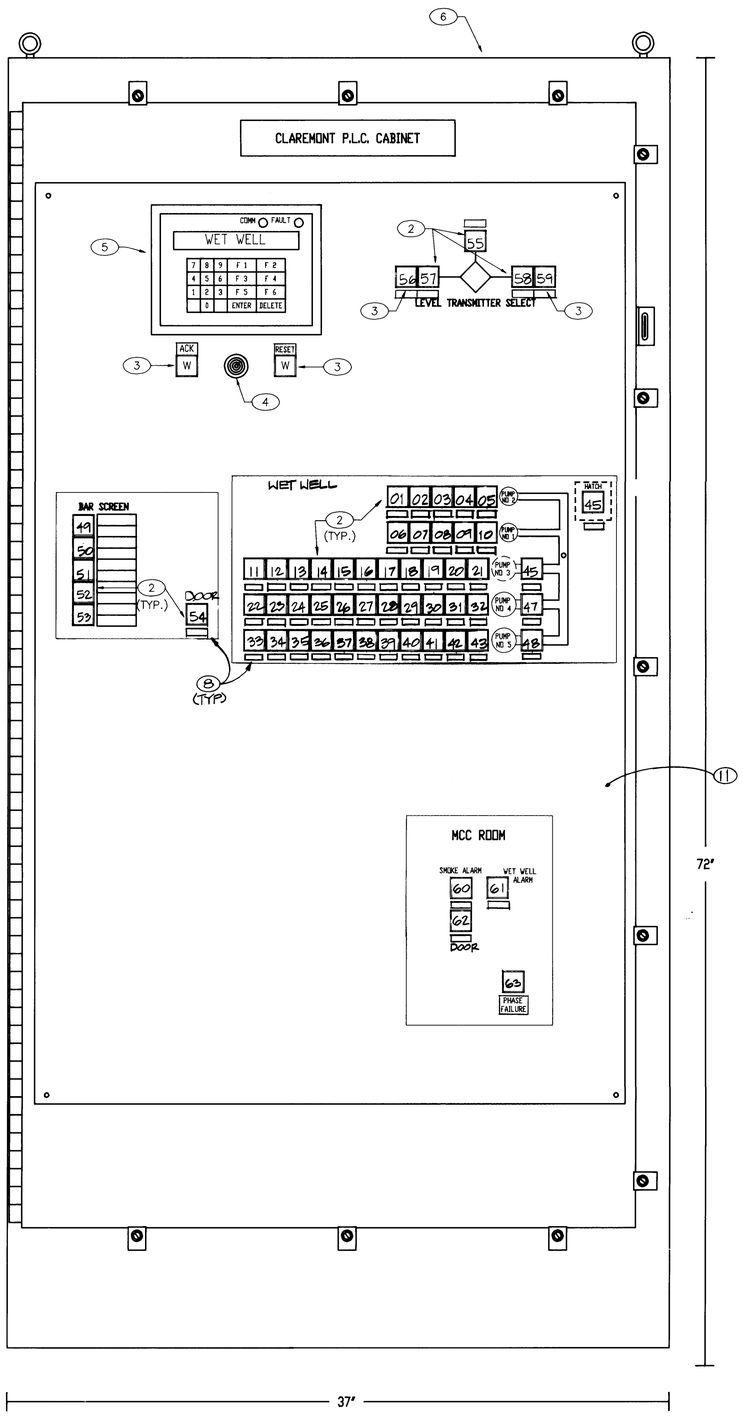
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER		
TRANSPORTATION	[signature]	9-24-92	WASTE WATER	N/A [signature]	9-24-92
HYDROLOGY	[signature]	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-19 OF

26 4271.908795

SCANNED BY LASON

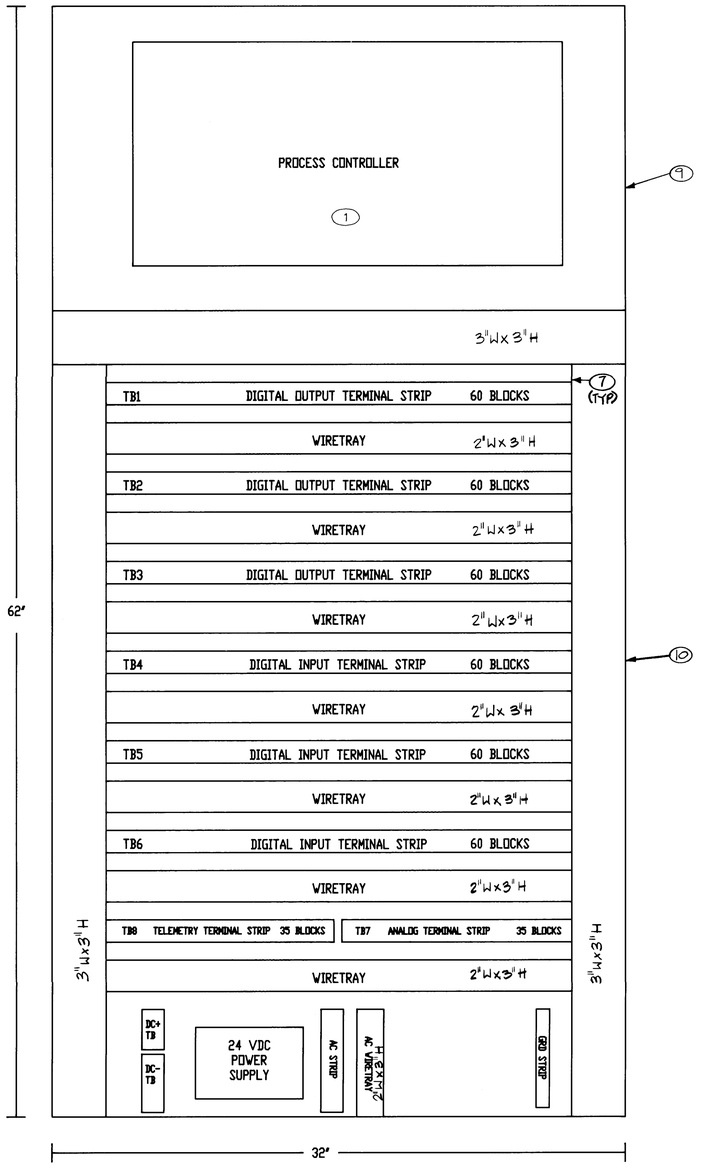
[signature]
RECORD DRAWINGS 12/94



P.L.C. LAYOUT DETAIL

N.T.S.

PILOT LIGHT COLOR LEGEND	
W	WHITE
G	GREEN
B	BLUE
R	RED



P.L.C. INTERIOR LAYOUT DETAIL

N.T.S.

KEYED NOTES

1. SEE SHEET E-22 FOR PROCESS CONTROLLER MODULE LAY-OUT DETAIL.
2. ALL DEVICES SHALL BE FULL FACE - SINGLE LAMP - PILOT LIGHTS, ALLEN-BRADLEY #800MS-CQ24 OR EQUAL (UNLESS OTHERWISE NOTED BY KEYED NOTE #3) WITH LENS COLOR AS NOTED AND PER PILOT LIGHT COLOR LEGEND THIS SHEET. EACH PILOT LIGHT SHALL BE PROVIDED WITH THE TAG NUMBER AS INDICATED IMPRINTED ON THE LENS.
3. FULL FACE - SINGLE LAMP - ILLUMINATED PUSH BUTTONS, ALLEN-BRADLEY #800MS-CQA24GA WITH LENS COLOR AS NOTED AND PER PILOT LIGHT COLOR LEGEND THIS SHEET. EACH PUSHBUTTON SHALL BE PROVIDED WITH TAG NUMBER AS INDICATED IMPRINTED ON THE LENS.
4. ALARM BUZZER, MALLORY SONALERT #SC628AN OR EQUAL.
5. "READY PANEL" ALLEN BRADLEY, NO EQUAL. SEE SPECIFICATIONS SECTION 1670.
6. NEMA 4X ENCLOSURE, 72" X 37" X 24", HOFFMAN #A72H3724FS.
7. TERMINAL STRIP, ALLEN-BRADLEY #1492F8 QUANTITY OF BLOCKS AS INDICATED.
8. ENGRAVED MICARTA LABEL WHITE ON BLACK. SEE SCHEDULE ON SHEET E-22. MINIMUM SIZE 1 1/2" WIDE X 3/4" HIGH WITH 1/8" TEXT.
9. METALLIC MOUNTING PLATE (BACK PLANE).
10. WIRING DUCT, HOFFMAN BULLETIN #A-75 OR EQUAL. SIZE AS INDICATED.
11. SILK SCREENED LEGEND AS INDICATED ATTACHED TO DOOR OF ENCLOSURE. ALL TEXT AND GRAPHICS NOT INDICATED TO BE ENGRAVED MICARTA LABELS, SHALL BE INCLUDED WITH SILK SCREEN PROCESS.

AS BUILT INFORMATION
CONTRACTOR RMCL DATE 12/94
WORK STAKED BY COA
INSPECTED BY RH FARR DATE
ACCEPTANCE BY DATE
VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY R.H. FARR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
NO. DATE

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
2-14-92

REVISIONS	BY	DATE
DESIGN	R. DUPUY	8-14-92
REMARKS	TELCON	8-14-92
	F. TELCK	8-14-92

DESIGNED BY
DRAWN BY
CHECKED BY

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT
PROGRAMABLE LOGIC CONTROL ELEVATION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	NMSHTD	9.24.92	WASTE WATER		
HYDROLOGY	Steve Boberg	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14,15 H-14,15
SHEET E-20 OF

26 4271.908895

SCANNED BY BY LASON

Richard Farrar
RECORD DRAWINGS 12/94

CONDUIT SCHEDULE

CONDUIT NUMBER	CONDUIT SIZE	CONDUIT TYPE	TO	FROM	CABLE/WIRE
POO1	2 EA-4"	RIGID	MCC	XFORMER	4-#500 MCM, 1-#3/0GR
P002	2 1/2"	RIGID	STORM WATER PUMP #5	MCC	3-#250 MCM, 1-#4GR
P003	2 1/2"	RIGID	STORM WATER PUMP #4	MCC	3-#250 MCM, 1-#4GR
P004	2 1/2"	RIGID	STORM WATER PUMP #3	MCC	3-#250 MCM, 1-#4GR
P005	3/4"	RIGID	CONTROL BLDG. EXHAUST FAN	MCC	3-#12 THHN, 1-#12GR
P006	3/4"	RIGID	SUMP PUMP #1	MCC	3-#8 THHN, 1-#10GR
P007	3/4"	RIGID	SUMP PUMP #2	MCC	3-#8 THHN, 1-#10GR
P008	3/4"	RIGID	UPS	PANEL A	3-#10 THHN, 1-#12GR
P009	3/4"	RIGID	UNIT HEATER	MCC	3-#12 THHN, 1-#12GR
P010	1"	RIGID	BARSCREEN CONTROLLER	MCC	4-#10 THHN, 1-#10GR
P011	1"	RIGID	BARSCREEN MOTOR	JUNCTION BOX	4-#10 THHN, 1-#10GR
P012	1"	RIGID	30 KVA XFORMER	MCC	4-#8 THHN, 1-#8GR
P013	1 1/2"	RIGID	PANEL "A"	30 KVA T1 XFORMER	4-#2 THHN, 1-#8GR
P014	4"	CONCRETE ENCASED RIGID	PRIMARY METER ENCLOSURE	PNM POLE	EMPTY (CABLE BY PNM)
P015	1"	RIGID	JUNCTION BOX	BARSCREEN CONTROLLER	4-#10 THHN, 1-#10GR
P016	4"	CONCRETE ENCASED RIGID	STUB-OUT FOR FUTURE	PRIMARY METER ENCLOSURE	EMPTY (CABLE BY PNM)
P017	4"	CONCRETE ENCASED RIGID	PRIMARY SWITCH-GEAR	PRIMARY METER ENCLOSURE	3-#1/0, 15 KV CABLE + 1-#1/0GR
P018	4"	CONCRETE ENCASED RIGID	750 KVA XFORMER	PRIMARY SWITCH GEAR	3-#1/0, 15 KV CABLE + 1-#1/0GR
P019	3/4"	RIGID	PANEL B	UPS	3-#10 THHN, 1-#10GR
P020	1 1/4"	RIGID	LIGHTING CONTROL CABLE	PANEL "A"	8-#12 THHN, 1-#12GR
P021	3/4"	RIGID	UNIT HEATER	HEATING THERMOSTAT	2-#12 THHN, 1-#12GR
P022	3/4"	RIGID	ICP	PANEL "A"	2-#12 THHN, 1-#12GR
P023	3"	RIGID	MCC	"PGJB-1"	3-#500MCM, 1-#2GR
C001	1"	RIGID	STORM WATER PUMP #5 J-BOX PPCJB-1	ICP	(4) -1 PAIR #16 TWSP + 1 #12 GR. 1-#12 THHN
COO2	1"	RIGID	STORM WATER PUMP #4 J-BOX PPCJB-2	ICP	(4) -1 PAIR #16 TWSP + 1 #12 GR. 1-#12 THHN
C003	1"	RIGID	STORM WATER PUMP #3 J-BOX PPCJB-3	ICP	(4) -1 PAIR #16 TWSP + 1 #12 GR. 1-#12 THHN
C004	3/4"	RIGID	BARSCREEN ENCL. DOOR SWITCH PPCJB-4	BARSCREEN ENCL. DOOR SWITCH	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C005	3/4"	RIGID	CONTROL BLDG. RIGHT DOOR SWITCH	CONTROL BLDG. LEFT DOOR	(1) -1 PAIR #16 TWSP + 1 #12 GR. SWITCH
C006	3/4"	RIGID	ICP	CONTROL BLDG. LEFT DOOR SWITCH	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C007	1"	RIGID	ICP	TELEMETRY CABINET	(7) -3/C #16 TWSP (2) -1 PAIR #16 TWSP + 1-#12 GR.
C008	3/4"	RIGID	STORM WATER PUMP #5 CHECK VALVE	STORM WATER PUMP #5 TERM. BOX	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C009	3/4"	RIGID	STORM WATER PUMP #4 CHECK VALVE	STORM WATER PUMP #4 TERM. BOX	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C010	3/4"	RIGID	STORM WATER PUMP #3 CHECK VALVE	STORM EATER PUMP #3 TERM. BOX	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C011	NOT USED				
C012	3/4"	RIGID	WET WELL HIGH LEVEL FLOAT #LSH54500	ICP	(1) -1 PAIR #16 TWSP + 1 312 GR.
C013	3/4"	RIGID	WET WELL CAPACITANCE PROBE #LE54500B	WET WELL CAPACITANCE PROBE #LE54500A	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C014	3/4"	RIGID	WET WELL CAPACITANCE PROBE #LE54500A	WET WELL TRANSMITTER #LT54500B	(2) -1 PAIR #16 TWSP + 1 #12 GR.
C015	3/4"	RIGID	WET WELL TRANSMITTER #LT54500B	WET WELL TRANSMITTER #LT54500A	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C016	3/4"	RIGID	WET WELL TRANSMITTER #LT54500A	ICP	(2) -1 PAIR #16 TWSP + 1 #12 GR.
C017	3/4"	RIGID	BARSCREEN LEVEL FLOAT #LSH54541	BARSCREEN LEVEL FLOAT #LSHH54541	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C018	3/4"	RIGID	BARSCREEN LEVEL HIGH FLOAT LSHH-54541	BARSCREEN CONTROLLER J-BOX BSJB-1	(2) -1 PAIR #16 TWSP + 1 #12 GR.
C019	1"	RIGID	RETAINING WALL JUNCTION BOX	BARSCREEN J-BOX BSJB-1	12 #14 THHN + 1 #12 GR.
C020	1 1/2"	RIGID	ICP	BARSCREEN CONTROL CABINET	(6) -1 PAIR #16 TWSP + 1 #12 GR.
C021	4"	RIGID	PLC	ICP	(100) -1 PAIR #16 TWSP + 1 #12 GR.
C022	3/4"	RIGID	ALARM HORN	ICP	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C023	1 1/4"	RIGID	ICP	LIGHTING CONTROL PANEL	15 #12 THHN + 1 #12 GR.
C024	3/4"	RIGID	ICP	SMOKE DET. SWITCH	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C025	3/4"	RIGID	ICP	PANEL LIGHTING CONTROL PANEL	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C026	3/4"	RIGID	ICP	WET WELL DOOR SWITCH	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C027	1 1/4"	RIGID	ICP	MCC	8 #14 THHN - MCC-1A 8 #14 THHN - MCC-2A 8 #14 THHN - MCC-3A 1 #12 THHN - MCC-GR. BUS
C028	1 1/4"	RIGID	ICP	MCC	(2) -1 PAIR #16 TWSP - MCC-4A (2) -1 PAIR #16 TWSP - MCC-4B (2) -1 PAIR #16 TWSP - MCC-3A 1-#12 THHN - MCC-GR. BUS
C029	1 1/4"	RIGID	ICP	MCC	4 #14 THHN - MCC-4A 4 #14 THHN - MCC-4B 4 #14 THHN - SPARE 1 #12 THHN - MCC-GR. BUS
C030	2"	RIGID	ICP	MCC	(2) -1 PAIR #16 TWSP - MCC-1A (2) -1 PAIR #16 TWSP - MCC-2A (2) -1 PAIR #16 TWSP - MCC-3A 1 #12 THHN - MCC-GR. BUS
C031	3/4"	RIGID	ICP	CONTROL BUILDING EXHAUST FAN	4 #14 THHN + 1 #12 GR.
C032	1"	RIGID	ICP	MCC POWER MONITOR EQUIPMENT	(3) -1 PAIR #16 TWSP + 1 #12 GR.
C033	3/4"	RIGID	ICP	VALVE VAULT ACCESS HATCH DOOR SWITCH	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C034	3/4"	RIGID	RETAINING WALL JUNCTION BOX	BARSCREEN ENCLOSURE DOOR SWITCH	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C035	3/4"	RIGID	ICP	CONTROL BUILDING EXHAUST FAN T-STAT.	(1) -1 PAIR #16 TWSP + 1 #12 GR.
C036	3/4"	RIGID	MCC	ICP	4 #14 THHN + 1 #12 GR.
C037	3/4"	RIGID	BARSCREEN CONTROL J-BOX "BSJBH-1"	REMOTE CONTROL STATION	3 #14 THHN 1 #12 GR.
CO38	1"	RIGID	BARSCREEN CONTROL CABINET	RETAINING WALL J-BOX	12 #14 THHN + 1 #12 GR.
CO39	3/4"	RIGID	ICP	RETAINING WALL J-BOX	(1) -1 PAIR #16 TWSP + 1 #12 GR.

CIRCUIT SCHEDULE

CIRCUIT NUMBER	CABLE/WIRE TYPE	TO	FROM	LENGTH	PURPOSE
MCC-1A	3-#25O THNN 1-#2 GR.	STORM WATER PUMP #5	MCC	--	PUMP FEEDER
MCC-2A	3-#250 THHN 1-#2 GR.	STORM WATER PUMP #4	MCC		PUMP FEEDER
MCC-3A	3-#250 THHN 1-#2 GR.	STORM WATER PUMP #3	MCC		PUMP FEEDER
MCC-4A	3-#8 THHN 1-#10 GR.	SUMP PUMP #1	MCC		SUMP PUMP FEEDER
MCC-4B	3-#8 THHN 1-#10 GR.	SUMP PUMP #2	MCC		SUMP PUMP FEEDER
MCC-4D	3-#10 THHN 1-#10 GR.	BARSCREEN	MCC		BARSCREEN FEEDER
MCC-5A	3-#12 THHN 1-#12 GR.	UNIT HEATER	MCC		UNIT HEATER FEEDER
MCC-5B	3-#6 THHN 1-#8 GR.	XFORMER T-1	MCC		XFORMER FEEDER
MCC-5D	3-#500 THHN 1-#2 GR.	PORT. GEN. INPUT	MCC		PORT. GEN. FEEDER
A-1	2-#12 THHN 1-#12 GR.	CONTROL RM. LIGHTS	PANEL A		CONTROL RM. LIGHTING BRANCH CIRCUITS
A-2	2-#12 THHN 1-#12 GR.	EXTERIOR POLE LIGHTS	PANEL A		EXTERIOR POLE LIGHTING BRANCH CIRCUITS
A-3	2-#12 THHN +1 #12 GR.	WET WELL LIGHTS	PANEL A		WET WELL LIGHTING BRANCH CIRCUITS
A-4	2-#12 THHN 1-#12 GR.	EXTERIOR POLE LIGHTS	PANEL A		EXTERIOR POLE LIGHTING BRANCH CIRCUITS
A-5	2-#12 THHN 1-#12 GR.	BARSCREEN, VALVE PIT LIGHTS	PANEL A		BARSCREEN/VALVE PIT LIGHTING BRANCH CIRCUITS
A-6	2-#12 THHN 1-#12 GR.	VALVE VAULT RECEPT.	PANEL A		VALVE VAULT RECEPT. BRANCH CIRCUITS
A-7	2-#12 THHN 1-#12 GR.	CONTROL BLDG. RECEPT.	PANEL A		CONTROL BUILDING BRANCH CIRCUITS
A-9	2-#12 THHN 1-#12 GR.	EXHAUST FAN CONTROL ROOM	PANEL A		EXHAUST FAN FEEDER
B-1	2-#12 THHN 1-#12 GR.	PLC CABINET	PANEL B		PLC CABINET BRANCH CIRCUIT
B-2	2-#12 THHN 1-#12 GR.	TELEMETRY CABINET	PANEL B		TELEMETRY CABINET BRANCH CIRCUIT
B-3	2-#12 THHN 1-#12 GR.	ICP PANEL	PANEL B		ICP PANEL BRANCH CIRCUIT
B-4	2-#12 THHN 1-#12 GR.	SMOKE DETECTOR	PANEL B		SMOKE DETECTOR POWER SUPPLY
B-5	2-#12 THHN 1-#12 GR.	ICP PANEL	PANEL B		ICP PANEL BRANCH CIRCUIT
B-6	2-#12 THHN 1-#12 GR.	LEVEL TRANSMITTER	PANEL B		LEVEL TRANSMITTER POWER SUPPLY
B-8	2-#12 THHN 1-#12 GR.	LEVEL TRANSMITTER	PANEL B		LEVEL TRANSMITTER POWER SUPPLY

26 4271.908995

SCANNED BY LASON

AS BUILT INFORMATION
CONTRACTOR RMI DATE 12/94
WORK STAKED BY: COA
INSPECTORS ACCEPTANCE BY: RH AA:K DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY: RH AA:K DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
FREDERICK J. TELCK 6/1/8 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R. DUPUY DATE 8-14-92
DRAWN BY TELCON DATE 8-14-92
CHECKED BY F. TELCK DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT
CONDUIT/CABLE SCHEDULE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J.A. Goolsby	2-10-93	WATER		
TRANSPORTATION	N/A CHO	9-24-92	WASTE WATER	N/A	9-24-92
HYDROLOGY	Steve Bobay	1-21-93			

DRAWING NO. 4271.90
MAP NO. G-14.15 H-14.15
SHEET E-21 OF

RECORD DRAWINGS 12/94

CLAREMONT PUMP STATION
TAG LIST

TAG #	DEVICE	FUNCTION	TYPE OF INPUT/OUTPUT
HS-54501	H-O-A SWT.	STORM PUMP #1 - AUTO INDICATION	DI
MI-54501	AUX. CONTACT	STORM PUMP #1 - MOTOR RUN INDICATION	DI
MSR-54501	RELAY	STORM PUMP #1 - MOTOR START - AUTO	DO
MSS-54501	RELAY	STORM PUMP #1 - MOTOR STOP - AUTO	DO
AS-54501	CONTACT	STORM PUMP #1 - MOISTURE ALARM	DI
TS-54501A	CONTACT	STORM PUMP #1 - STATOR TEMP. ALARM	DI
TS-54501B	CONTACT	STORM PUMP #1 - BEARING TEMP. ALARM	DI
MR-54501	INPUT PULSE	STORM PUMP #1 - MOTOR ALARM RESET	DO
ZSC-54501	CONTACT	STORM PUMP #1 - CHECK VALVE POSITION	DI
SMA-54501	CONTACT	STORM PUMP #1 - MEGGAR FAIL	DI
GCA-54501	CONTACT	STORM PUMP #1 - GROUND TEST FAIL	DI
KI-54501	CONTACT	STORM PUMP #1 - BACKSPIN TIMER RUN	DI
HS-54502	H-O-A SWT.	STORM PUMP #2 - AUTO INDICATION	DI
MI-54502	AUX. CONTACT	STORM PUMP #2 - MOTOR RUN INDICATION	DI
MSR-54502	RELAY	STORM PUMP #2 - MOTOR START - AUTO	DO
MSS-54502	RELAY	STORM PUMP #2 - MOTOR STOP - AUTO	DO
AS-54502	CONTACT	STORM PUMP #2 - MOISTURE ALARM	DI
TS-54502A	CONTACT	STORM PUMP #2 - STATOR TEMP. ALARM	DI
TS-54502B	CONTACT	STORM PUMP #2 - BEARING TEMP. ALARM	DI
MR-54502	INPUT PULSE	STORM PUMP #2 - MOTOR ALARM RESET	DO
ZSC-54502	CONTACT	STORM PUMP #2 - CHECK VALVE POSITION	DI
SMA-54502	CONTACT	STORM PUMP #2 - MEGGAR TEST FAIL	DI
GCA-54502	CONTACT	STORM PUMP #2 - GROUND TEST FAIL	DI
KI-54502	CONTACT	STORM PUMP #2 - BACKSPIN TIMER RUN	DI
HS-54503	H-O-A SWT.	STORM PUMP #3 - AUTO INDICATION	DI
MI-54503	AUX. CONTACT	STORM PUMP #3 - MOTOR RUN INDICATION	DI
MSR-54503	RELAY	STORM PUMP #3 - MOTOR START - AUTO	DO
MSS-54503	RELAY	STORM PUMP #3 - MOTOR STOP - AUTO	DO
AS-54503	CONTACT	STORM PUMP #3 - MOISTURE ALARM	DI
TS-54503A	CONTACT	STORM PUMP #3 - STATOR TEMP. ALARM	DI
TS-54503B	CONTACT	STORM PUMP #3 - BEARING TEMP. ALARM	DI
MR-54503	INPUT PULSE	STORM PUMP #3 - MOTOR ALARM RESET	DO
ZSC-54503	CONTACT	STORM PUMP #3 - CHECK VALVE POSITION	DI
SMA-54503	CONTACT	STORM PUMP #3 - MEGGAR TEST FAIL	DI
GCA-54503	CONTACT	STORM PUMP #3 - GROUND TEST FAIL	DI
KI-54503	CONTACT	STORM PUMP #3 - BACKSPIN TIMER RUN	DI
HS-54504	H-O-A SWT.	SUMP PUMP #1 - AUTO INDICATION	DI
MI-54504	AUX. CONTACT	SUMP PUMP #1 - MOTOR RUN INDICATION	DI
MSR-54504	RELAY	SUMP PUMP #1 - MOTOR START - AUTO	DO
MSS-54504	RELAY	SUMP PUMP #1 - MOTOR STOP - AUTO	DO

CONTINUE

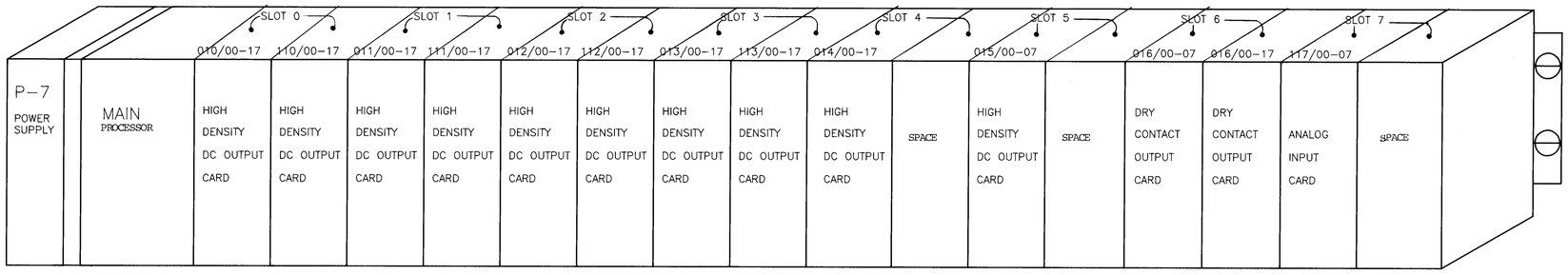
TAG #	DEVICE	FUNCTION	TYPE OF INPUT/OUTPUT
HS-54505	H-O-A SWT.	SUMP PUMP #2 - AUTO INDICATION	DI
MI-54505	AUX. CONTACT	SUMP PUMP #2 - MOTOR RUN INDICATION	DI
MSR-54505	RELAY	SUMP PUMP #2 - MOTOR START - AUTO	DO
MSS-54505	RELAY	SUMP PUMP #2 - MOTOR STOP - AUTO	DO
HS-54541	H-O-A SWT.	BARSCREEN - AUTO INDICATION	DI
MI-54541	AUX. CONTACT	BARSCREEN - MOTOR RUN INDICATION	DI
MSR-54541	RELAY	BARSCREEN - AUTO START FROM PLC	DO
YA-54541	CONTACT	BARSCREEN - ALARM INDICATION	DI
MSR-54560	RELAY	BUILDING EXHAUST - MOTOR START - AUTO	DO
MSS-54560	RELAY	BUILDING EXHAUST - MOTOR STOP - AUTO	DO
TS-54560	THERMOSTAT	BUILDING EXHAUST - SET POINT INDICATION	DI
LT-54500A	TRANSMITTER	WET WELL LEVEL - 4-20 MA SIGNAL	AI
LT-54500B	TRANSMITTER	WET WELL LEVEL - 4-20 MA SIGNAL	AI
LSHH-54500*	FLOAT SWITCH	WET WELL HIGH WATER ALARM	DI
LSH-54541	FLOAT SWITCH	BARSCREEN START	DI
LSHH-54541*	FLOAT SWITCH	BARSCREEN INLET HIGH WATER ALARM	DI
YSC-54511	RELAY	VALVE VAULT LIGHTS - ON - AUTO	DO
YSC-54512	RELAY	WET WELL LIGHTS - ON - OFF	DO
YSC-54513	RELAY	CONTROL ROOM LIGHT - ON - AUTO	DO
YSC-54514	RELAY	EXTERIOR LIGHTS - ON - AUTO	DO
YSO-54514	RELAY	EXTERIOR LIGHTS - OFF - AUTO	DO
YSC-54515	RELAY	BARSCREEN LIGHTS - ON - AUTO	DO
AS-54514	CONTACT	PHOTOCELL INDICATION	DI
ZSC-54521	CONTACT	CONTROL ROOM DOOR SWITCH	DI
ZSC-54522	CONTACT	BARSCREEN ENCLOSURE DOOR SWITCH	DI
ZSC-54523	CONTACT	VALVE VAULT DOOR SWITCH	DI
ZSC-54524	CONTACT	WET WELL ENCLOSURE DOOR SWITCH	DI
AS-54525	CONTACT	CONTROL BUILDING SMOKE DETECTOR	DI
YA-54526	RELAY	CONTROL BUILDING ALARM HORN	DO
ES-54533	CONTACT	POWER FAILURE INDICATION	DI
ES-54532	CONTACT	PHASE FAILURE INDICATION	DI
JS-54531	CONTACT	METER PULSE TRANSDUCER	DI

* INDICATES DEVICE WIRED DIRECTLY TO THE TELEMETRY UNIT.

PLC LABELING SCHEDULE

LABEL NO.	ENGRAVED INSCRIPTION	PILOT LIGHT COLOR
01	PUMP FAIL - MA54505	RED
02	PUMP IN AUTO - HS54505	GREEN
03	PUMP RUN - MI54505	GREEN
04	PUMP START - MS54505	GREEN
05	LEAD PUMP - XI54505	WHITE
06	PUMP FAIL - MA54504	RED
07	PUMP IN AUTO - HS54504	GREEN
08	PUMP RUN - MI54504	GREEN
09	PUMP START - MS54504	GREEN
10	LEAD PUMP - XI54504	WHITE
11	PUMP RESET - MR54503	WHITE
12	BEARING TEMP - TS54503A	WHITE
13	STATOR TEMP - TS54503B	WHITE
14	MOISTURE - AS54503	WHITE
15	SUB-MEG - SMA54503	WHITE
16	GROUND MONITOR - GCA54503	WHITE
17	PUMP FAIL - MA54503	RED
18	PUMP IN AUTO - HS54503	GREEN
19	PUMP RUN - MI54503	GREEN
20	PUMP START - MS54503	GREEN
21	LEAD PUMP - XI54503	WHITE
22	PUMP RESET - MR54502	WHITE
23	BEARING TEMP - TS54502A	WHITE
24	STATOR TEMP - TS54502B	WHITE
25	MOISTURE - AS54502	WHITE
26	SUB-MEG - SMA54502	WHITE
27	GROUND MONITOR - GCA54502	WHITE
28	PUMP FAIL - MA54502	RED
29	PUMP IN AUTO - HS54502	GREEN
30	PUMP RUN - MI54502	GREEN
31	PUMP START - MS54502	GREEN
32	LEAD PUMP - XI54502	WHITE
33	PUMP RESET - MR54501	WHITE
34	BEARING TEMP - TS54501A	WHITE
35	STATOR TEMP - TS54501B	WHITE
36	MOISTURE - AS54501	WHITE
37	SUB-MEG - SMA54501	WHITE
38	GROUND MONITOR - GCA54501	WHITE
39	PUMP FAIL - MA54501	RED
40	PUMP IN AUTO - HS54501	GREEN
41	PUMP RUN - MI54501	GREEN
42	PUMP START - MS54501	GREEN
43	LEAD PUMP - XI54501	WHITE
44	NOT USED	
45	HATCH OPEN - ZSC54524	BLUE
46	CHECK VALVE - ZSC54503	GREEN
47	CHECK VALVE - ZSC54502	GREEN
48	CHECK VALVE - ZSC54501	GREEN
49	BARSCREEN START - MS54511	WHITE
50	BARSCREEN RUN - MI54541	GREEN
51	BARSCREEN FAIL - MA54541	RED
52	BARSCREEN AUTO - HS54541	GREEN
53	BARSCREEN CONTROL ALARM - YA54541	WHITE
54	DOOR OPEN - ZSC54522	BLUE
55	TRANSMITTER ALARM - LA54500	RED
56	TRANSMITTER 'A' - SELECT - HS54500A	WHITE
57	TRANSMITTER 'A' - SELECTED - LT54500A	BLUE
58	TRANSMITTER 'B' - SELECT - HS54500B	WHITE
59	TRANSMITTER 'B' - SELECTED - LT54500B	BLUE
60	SMOKE ALARM - AS54525	RED
61	HIGH LEVEL ALARM - LSH54500	RED
62	DOOR OPEN - ZSC54521	BLUE
63	PHASE FAILURE - ES54532	RED
64	ACKNOWLEDGE -	WHITE
65	RESET -	WHITE

RACK # 1



PARTS REQUIRED FOR PC

PLC5-15 PROCESSOR	A/B	1785-LT 1/EACH
P-7 POWER SUPPLY	A/B	1771-P7 2/EACH 1-SPARE
H/D INPUT CARD	A/B	1771-IBD 4/EACH
H/D OUTPUT CARD	A/B	1771-OBD 6/EACH
DRY CONTACT OUT	A/B	1771-OZ 2/EACH
ANALOG INPUT CARD	A/B	1771-IFE 1/EACH
REDIPANEL	A/B	2705-K11C1 1/EACH
I/O CHASSIS	A/B	1771-A4B 1/EACH

PLC PROCESS CONTROLLER ELEVATION DETAIL

26 4271.909095

SCANNED BY BY LASON

AS BUILT INFORMATION
CONTRACTOR R.M.C.I. DATE 12/94
WORK STAKED BY: CDA
INSPECTION ACCEPTANCE BY: KDJ PA:P DATE
VERIFICATION BY: CDA DATE
DRAWINGS CORRECTED BY: KDJ PA:P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

REMARKS | BY | DATE
REVISIONS
DESIGN
DESIGNED BY R.DUPUY — DATE 8-14-92
DRAWN BY TELCON — DATE 8-14-92
CHECKED BY F.J.TELCK — DATE 8-14-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT
INSTRUMENTATION TAG LIST AND PLC LAY-OUT

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER		
TRANSPORTATION	N/A	9-7-92	WASTE WATER	N/A	9-24-92
HYDROLOGY	[signature]	2-1-93			

DRAWING NO. 4271.90 | MAP NO. G-14,15 H-14,15 | SHEET E-22 OF

RECORD DRAWINGS 12/94

eel
dging
ere
4
L-9

3' TYP.

2
L-9

4
L-9
Steel Edging

3' TYP.

Chainlink Fence
With Barbed Wire
See Note 2

For Construction Plan
of toned area see
See Sheet L-4

Steel Edging
To Here
2
L-9
4
L-9

0 20 40 80 120
SCALE: 1" = 40'-0"

CONSTRUCTION NOTES
SITE LANDSCAPE

1. LOCATION OF CHAIN LINK FENCE SHALL BE AS SHOWN ON THE ENGINEERING DRAWINGS. FOR DETAIL OF CHAIN LINK FENCE END CONDITIONS ALONG THE NORTHERN EDGE OF SITE SEE DETAIL 2/L-9
2. THE 6' CHAIN LINK FENCE SHALL COMPLY WITH CITY OF ALBUQUERQUE STANDARD DETAIL # 2252 FOR STANDARD CHAIN LINK FENCE. THE TYPICAL POST SPACING SHALL BE 10' O.C. BARBED WIRE SHALL BE INSTALLED AT THE TOP OF FENCE AS FOLLOWS:

   SINGLE EXTENSION ARMS SHALL POINT OUTWARD AT AN ANGLE OF 45° WITH 3 STRANDS OF 4 POINT BARBED WIRE SECURELY ATTACHED TO EXTENSION ARM ALONG TOP OF FENCE. TOP STRAND TO BE 1'-0" ABOVE TOP RAIL. EXTENSION ARMS TO BE 12 GAUGE PRESSED STEEL. THE BARBED WIRE SHALL BE CONTINUOUS AND SHALL EXTEND THE ENTIRE LENGTH OF FENCE. 2/L-9
3. THE STEEL EDGING SHALL RUN ALONG THE PROPERTY LINE ALONG THE EASTERN AND SOUTHERN EDGES OF THE SITE. SEE PLAN.
4. FOR ADDITIONAL LANDSCAPE CONSTRUCTION INFORMATION SEE SHEET L-4.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS TO ASSURE THAT THE INTENT OF THE DRAWINGS IS MET. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ALL MODIFICATIONS NEEDED TO MEET THE INTENT OF THE DRAWINGS AT NO ADDITIONAL EXPENSE TO OWNER.

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
CONSTRUCTION STAKED BY COA DATE
INSPECTOR'S NOTATIONS BY FH AA'S DATE
FIELD VERIFICATION BY COA DATE
AS-BUILTS CORRECTED BY FH AA'S DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
REEL

BENCH MARKS

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN DATE 8/10/92
DESIGNED BY BHM/JT DATE 8/10/92
DRAWN BY JT/RHT DATE 8/10/92
CHECKED BY ECR DATE 8/10/92

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
ELIZABETH C. BISH
REGISTERED LANDSCAPE ARCHITECT

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

26 4271.909195
MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

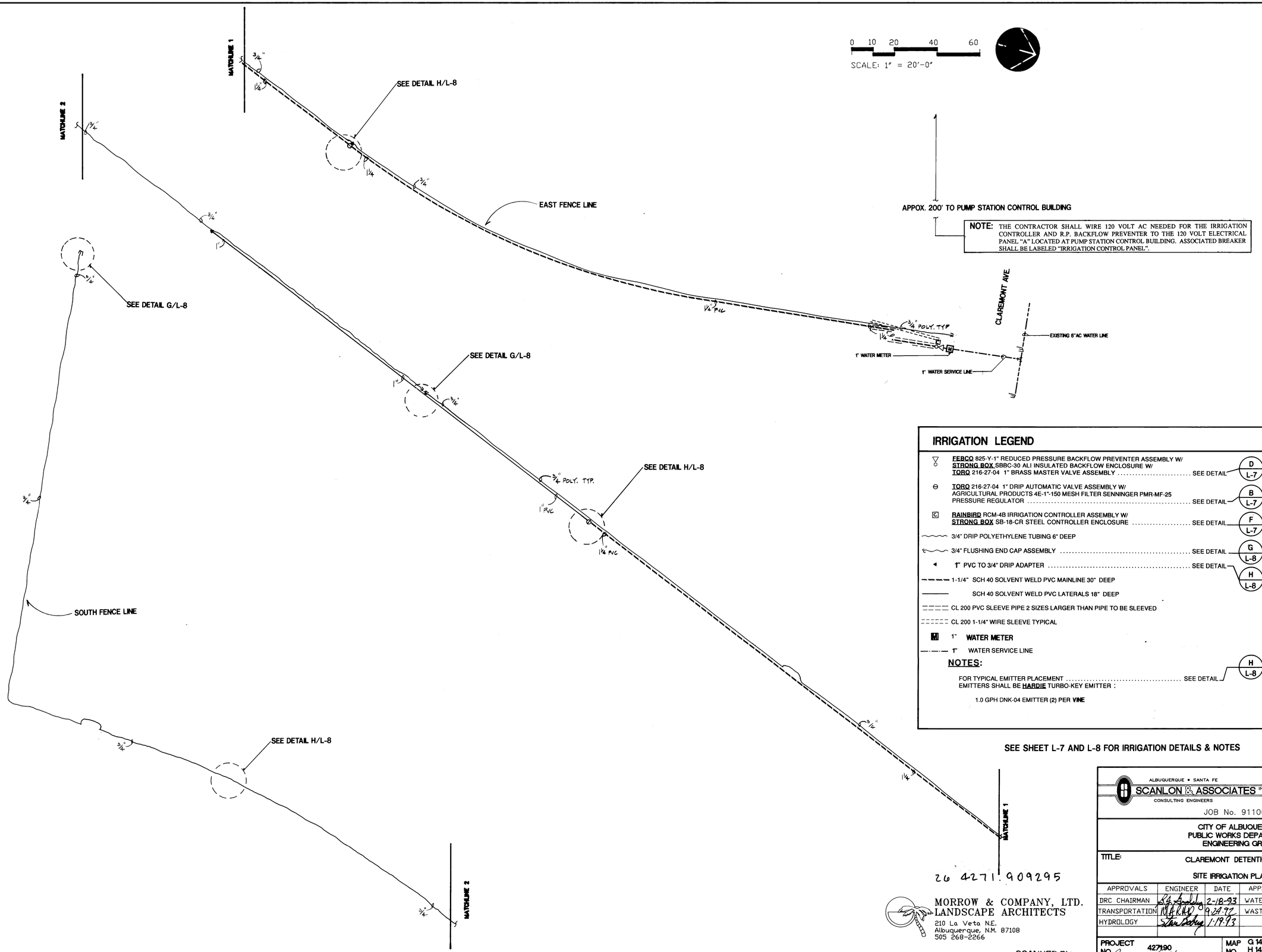
TITLE: CLAREMONT DETENTION BASIN
SITE CONSTRUCTION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER		
TRANSPORTATION	N/A	9.24.92	WASTE WATER	N/A	
HYDROLOGY	[signature]	1.19.93			

PROJECT NO. 427190
MAP NO. G 14,15 H 14,15
SHEET L-1 OF 9

SCANNED BY
BY LASON

RECORD DRAWINGS 12/94



NOTE: THE CONTRACTOR SHALL WIRE 120 VOLT AC NEEDED FOR THE IRRIGATION CONTROLLER AND R.P. BACKFLOW PREVENTER TO THE 120 VOLT ELECTRICAL PANEL "A" LOCATED AT PUMP STATION CONTROL BUILDING. ASSOCIATED BREAKER SHALL BE LABELED "IRRIGATION CONTROL PANEL".

IRRIGATION LEGEND

- **FEBCO** 825-Y-1" REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY W/ **STRONG BOX** SBBC-30 ALI INSULATED BACKFLOW ENCLOSURE W/ **TORO** 216-27-04 1" BRASS MASTER VALVE ASSEMBLY ..... SEE DETAIL D L-7
- **TORO** 216-27-04 1" DRIP AUTOMATIC VALVE ASSEMBLY W/ AGRICULTURAL PRODUCTS 4E-1"-150 MESH FILTER SENNINGER PMR-MF-25 PRESSURE REGULATOR ..... SEE DETAIL B L-7
- **RAINBIRD** RCM-4B IRRIGATION CONTROLLER ASSEMBLY W/ **STRONG BOX** SB-18-CR STEEL CONTROLLER ENCLOSURE ..... SEE DETAIL F L-7
- 3/4" DRIP POLYETHYLENE TUBING 6" DEEP
- 3/4" FLUSHING END CAP ASSEMBLY ..... SEE DETAIL G L-8
- 1" PVC TO 3/4" DRIP ADAPTER ..... SEE DETAIL H L-8
- 1-1/4" SCH 40 SOLVENT WELD PVC MAINLINE 30" DEEP
- SCH 40 SOLVENT WELD PVC LATERALS 18" DEEP
- CL 200 PVC SLEEVE PIPE 2 SIZES LARGER THAN PIPE TO BE SLEEVED
- CL 200 1-1/4" WIRE SLEEVE TYPICAL
- M 1" **WATER METER**
- 1" WATER SERVICE LINE

NOTES:

FOR TYPICAL EMITTER PLACEMENT ..... SEE DETAIL H L-8
EMITTERS SHALL BE **HARDIE** TURBO-KEY EMITTER ;

1.0 GPH DNK-04 EMITTER (2) PER **VINE**

SEE SHEET L-7 AND L-8 FOR IRRIGATION DETAILS & NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
STAKED BY COA DATE
INSPECTION & ACCEPTANCE BY AA;R DATE
FIELD VERIFICATION BY COA DATE
ANALYSIS CORRECTED BY AA;R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
ELIZABETH L. KLEIN
NO. 249
REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	KLE 8/10/92
			DATE
			DESIGNED BY
			DRAWN BY KLE/RHT 8/10/92
			CHECKED BY EOR 8/10/92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT DETENTION BASIN
SITE IRRIGATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	4-29-93
TRANSPORTATION	[signature]	9-29-92	WASTE WATER		
HYDROLOGY	[signature]	1-19-93			

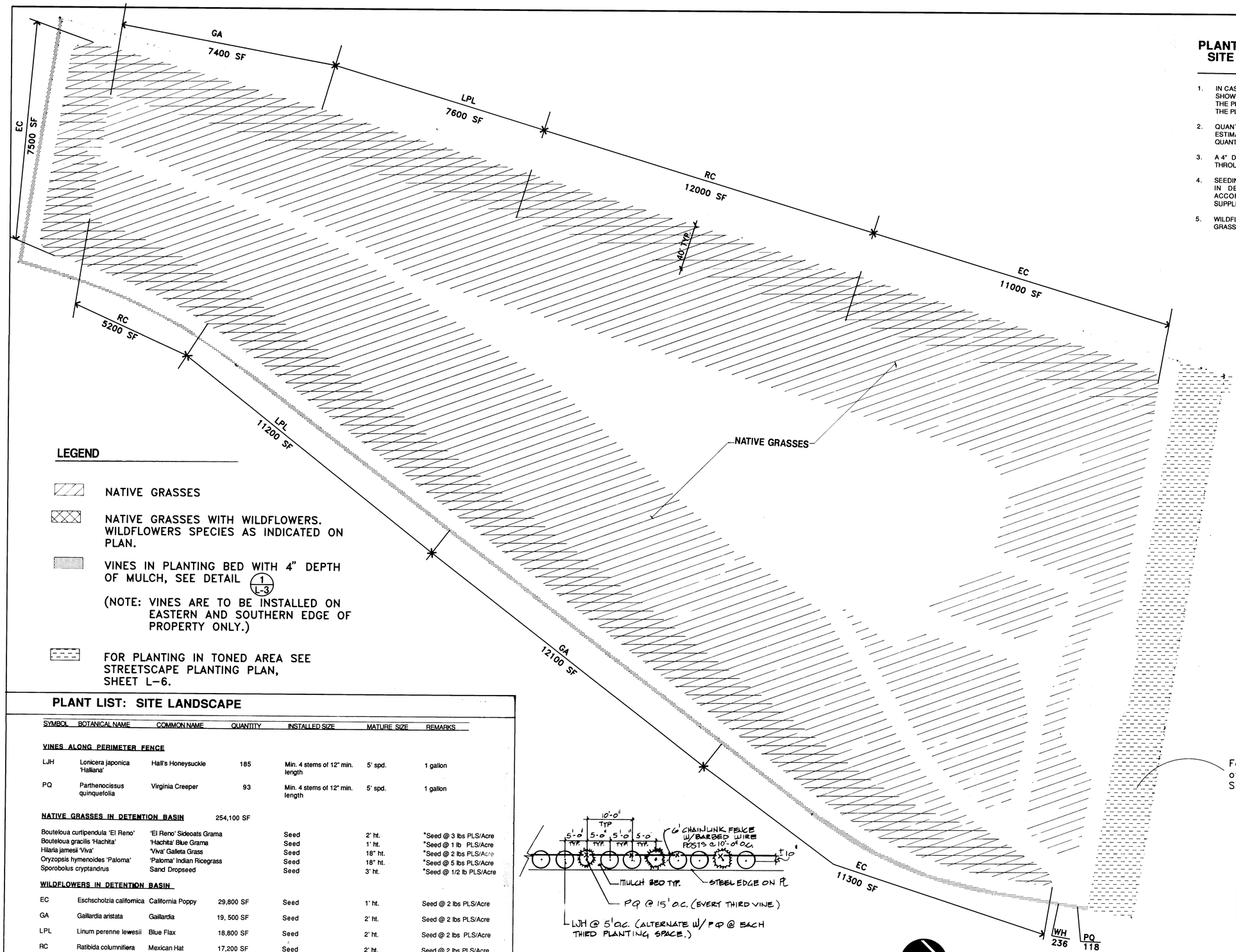
PROJECT NO. 427190 | MAP NO. G 14,15 H 14,15 | SHEET L-2 OF 9

26 4271.909295

MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

SCANNED BY: LASON

RECORD DRAWINGS 12/94



PLANTING NOTES SITE LANDSCAPE

1. IN CASE OF A DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LIST AND THOSE SHOWN ON THE PLANTING PLANS, THE QUANTITIES SHOWN ON THE PLANS SHALL GOVERN.
2. QUANTITIES SHOWN ON THE PLANT LIST ARE ESTIMATES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION.
3. A 4" DEPTH OF BARK MULCH SHALL BE INSTALLED THROUGHOUT ALL VINE BEDS.
4. SEEDING FOR NATIVE GRASSES AND WILDFLOWERS IN DETENTION BASIN SHALL BE DONE IN ACCORDANCE WITH SECTION 1012 OF THE SUPPLEMENTAL SPECIFICATIONS.
5. WILDFLOWER SEED SHALL BE MIXED WITH NATIVE GRASS SEED PRIOR TO APPLICATION.

LEGEND

- NATIVE GRASSES
- NATIVE GRASSES WITH WILDFLOWERS. WILDFLOWERS SPECIES AS INDICATED ON PLAN.
- VINES IN PLANTING BED WITH 4" DEPTH OF MULCH, SEE DETAIL (1 / L-3)

  (NOTE: VINES ARE TO BE INSTALLED ON EASTERN AND SOUTHERN EDGE OF PROPERTY ONLY.)
- FOR PLANTING IN TONED AREA SEE STREETSCAPE PLANTING PLAN, SHEET L-6.

PLANT LIST: SITE LANDSCAPE

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	REMARKS
VINES ALONG PERIMETER FENCE						
LJH	Lonicera japonica 'Halliana'	Hall's Honeysuckle	185	Min. 4 stems of 12" min. length	5' spd.	1 gallon
PQ	Parthenocissus quinquefolia	Virginia Creeper	93	Min. 4 stems of 12" min. length	5' spd.	1 gallon
NATIVE GRASSES IN DETENTION BASIN			254,100 SF			
	Bouteloua curtipendula 'El Reno'	'El Reno' Sideoats Grama		Seed	2' ht.	*Seed @ 3 lbs PLS/Acre
	Bouteloua gracilis 'Hachita'	'Hachita' Blue Grama		Seed	1' ht.	*Seed @ 1 lb PLS/Acre
	Hilaria jamesii 'Viva'	'Viva' Galleta Grass		Seed	18" ht.	*Seed @ 2 lbs PLS/Acre
	Oryzopsis hymenoides 'Paloma'	'Paloma' Indian Ricegrass		Seed	18" ht.	*Seed @ 5 lbs PLS/Acre
	Sporobolus cryptandrus	Sand Dropseed		Seed	3' ht.	*Seed @ 1/2 lb PLS/Acre
WILDFLOWERS IN DETENTION BASIN						
EC	Eschscholzia californica	California Poppy	29,800 SF	Seed	1' ht.	Seed @ 2 lbs PLS/Acre
GA	Gaillardia aristata	Gaillardia	19, 500 SF	Seed	2' ht.	Seed @ 2 lbs PLS/Acre
LPL	Linum perenne lewesii	Blue Flax	18,800 SF	Seed	2' ht.	Seed @ 2 lbs PLS/Acre
RC	Ratibida columnifiera	Mexican Hat	17,200 SF	Seed	2' ht.	Seed @ 2 lbs PLS/Acre

*PLS = PURE LIVE SEED

1 / L-3 VINE PLANTING DETAIL

NTS

For Planting Plan of toned area see Sheet L-6

0 20 40 80 120

SCALE: 1" = 40'-0"

26 4271.909395

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210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

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RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RMJ DATE 12/94
WORK STAKED BY COA DATE
SURVEYED BY COA DATE
ACCEPTANCE BY AA DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
ELIZABETH C. FISH
NO. 3912
REGISTERED
LANDSCAPE ARCHITECT
12/9/94

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	BHM/JT DATE 8/10/92
		DRAWN BY	JT/RHT DATE 8/10/92
		CHECKED BY	ECR DATE 8/10/92

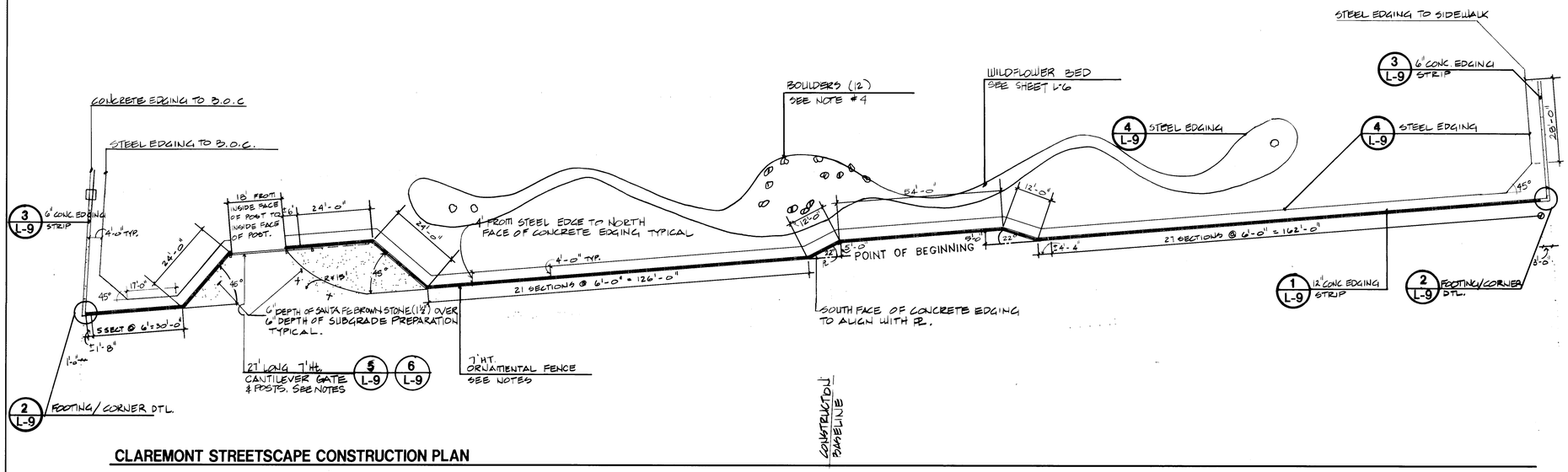
ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

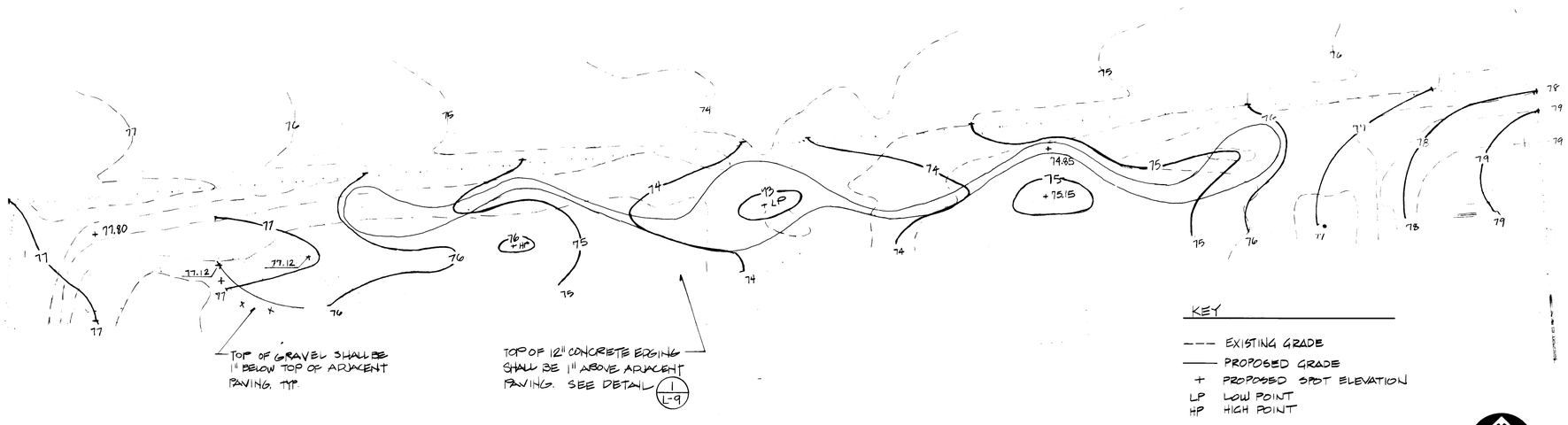
TITLE: CLAREMONT DETENTION BASIN
SITE PLANTING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION		9-24-92	WASTE WATER		
HYDROLOGY		1-19-93			

PROJECT NO. 427190 MAP NO. G 14,15 H 14,15 SHEET L-3 OF 9



CLAREMONT STREETSCAPE CONSTRUCTION PLAN



KEY

--- EXISTING GRADE
——— PROPOSED GRADE
\+ PROPOSED SPOT ELEVATION
LP LOW POINT
HP HIGH POINT

0 10 20 40 60
SCALE: 1" = 20'-0"

CLAREMONT STREETSCAPE GRADING PLAN

CONSTRUCTION NOTES STREETSCAPE

1. 7' ORNAMENTAL FENCE SHALL BE 'AMERISTAR STEEL INVINCIBLE FENCE', INDUSTRIAL STRENGTH CLASS 2B, WITH CURVED SPEAR TIP INCLUDING ALL HARDWARE AND FINISHES OR APPROVED EQUAL. COLOR: STANDARD BLACK.
2. 7' ORNAMENTAL GATE SHALL BE 'AMERISTAR TRANSPORT' ALUMINUM CANTILEVER GATE 'INVINCIBLE' STYLE WITH CURVED SPEAR TIP TO MATCH THE ORNAMENTAL FENCE INCLUDING ALL HARDWARE AND FINISHES. OR APPROVED EQUAL. COLOR: STANDARD BLACK.
3. EDGING AROUND WILDFLOWER BED SHALL BE STAKED BY CONTRACTOR PRIOR TO INSTALLATION FOR APPROVAL OR ADJUSTMENT BY LANDSCAPE ARCHITECT.
4. CONTRACTOR SHALL INSTALL MOSS ROCK BOULDERS AS DIRECTED BY LANDSCAPE ARCHITECT IN THE FIELD. 1/3 TO 1/2 OF MOSS ROCK SHALL BE BURIED BELOW FINISH GRADE. TYPICAL BOULDER SIZES SHALL BE 3 x 3 x 4, 5 x 4 x 3, and 4 x 4 x 3, EQUAL QUANTITIES OF EACH.
5. TOP OF GATE SHALL BE MAINTAINED AT A CONSTANT ELEVATION IN BOTH OPEN AND CLOSED POSITION.
6. TOP RAIL OF GATE SHALL MATCH FENCE PANEL RAIL. MINIMUM CLEARANCE AT BOTTOM OF GATE SHALL BE 2-1/4" IN BOTH OPEN AND CLOSED POSITION. MAXIMUM CLEARANCE SHALL BE 6" IN CLOSED POSITION. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER.
7. TOP OF FENCE SHALL TRANSITION GRADUALLY BETWEEN GRADES. ABRUPT CHANGES IN SLOPE OF FENCE SHALL NOT BE ACCEPTABLE.
8. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS TO ASSURE THAT THE INTENT OF THE DRAWINGS IS MET. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ALL MODIFICATIONS NEEDED TO MEET THE INTENT OF THE DRAWINGS AT NO ADDITIONAL EXPENSE TO THE OWNER.
9. DIMENSIONS FOR THE 7' ORNAMENTAL FENCE ARE FROM THE CENTER LINE OF THE POST UNLESS OTHERWISE NOTED.

GRADING NOTES STREETSCAPE

1. COORDINATE WITH GRADES ESTABLISHED ON SHEET D-2.
2. FINISH GRADE OF TURF SHALL BE 1" BELOW ADJACENT PAVING.

AS BUILT INFORMATION
CONTRACTOR Bmcl DATE 12/94
WORK INSPECTED BY COA
INSPECTOR'S ACCEPTANCE BY AA's P DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA's P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE NO.

ENGINEER'S SEAL
STATE OF NEW MEXICO
ERIC R. SMITH
NO. 28
REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 8/10/92
		DESIGNED BY BHM/JT	DATE 8/10/92
		DRAWN BY JT/RHT	DATE 8/10/92
		CHECKED BY EDR	DATE 8/10/92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT DETENTION BASIN
STREETSCAPE CONSTRUCTION AND GRADING PLANS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	8-24-92
TRANSPORTATION	N/A	9.24.92	WASTE WATER		
HYDROLOGY		1.19.93			

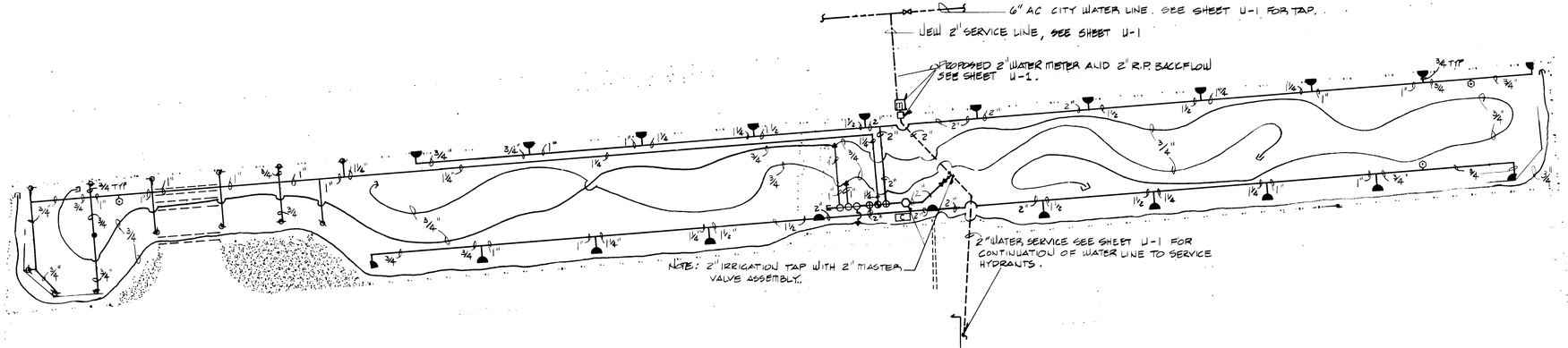
PROJECT NO. 427190
MAP NO. G 14,15 H 14,15
SHEET L-4 OF 9

26 4271.909495

MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

SCANNED BY LASON

RECORD DRAWINGS 12/94



NOTE: THE CONTRACTOR SHALL WIRE 120 VOLT AC NEEDED FOR THE IRRIGATION CONTROLLER AND R.P. BACKFLOW PREVENTER TO THE 120 VOLT ELECTRICAL PANEL "A" LOCATED AT PUMP STATION CONTROL BUILDING. ASSOCIATED BREAKER SHALL BE LABELED "IRRIGATION CONTROL PANEL".

IRRIGATION LEGEND

- **RAINBIRD** T4C-4" T-BIRD POP-UP ROTOR ASSEMBLY ..... SEE DETAIL A L-7
  - T-22 NOZZLE .65 GPM 90° 20' RADIUS
  - T-22 NOZZLE 1.3 GPM 180° 20' RADIUS
  - T-22 NOZZLE 2.5 GPM 360° 20' RADIUS
- **RAINBIRD** R-50 4" POP-UP ROTOR ASSEMBLY ..... SEE DETAIL A L-7
  - #3.0 RAIN CURTAIN NOZZLE 4.5 GPM180° 37' RADIUS
  - #2.0 RAIN CURTAIN NOZZLE 3.1 GPM 90° 37' RADIUS
- **TORO** 216-27-04 1" DRIP AUTOMATIC VALVE ASSEMBLY W/ **AGRICULTURAL PRODUCTS** 4E-1"-150 MESH FILTER W/ **SENNINGER** PMR-MF-25 PRESSURE REGULATOR ASSEMBLY ..... SEE DETAIL B L-7
- **TORO** 216-27-06 1-1/2" BRASS AUTOMATIC VALVE ASSEMBLY ..... SEE DETAIL C L-7
- **TORO** 216-27-08 2" BRASS AUTOMATIC VALVE ASSEMBLY
- **TORO** 216-27-08 2" BRASS MASTER VALVE ASSEMBLY ..... SEE DETAIL C L-7
- **RAINBIRD** RCM-12B IRRIGATION CONTROLLER W/ **STRONG BOX** SB-18CR STEEL CONTROLLER ENCLOSURE ASSEMBLY ..... SEE DETAIL F L-7
- 3/4" DRIP POLYETHYLENE TUBING 6" DEEP
- 3/4 FLUSHING END CAP ASSEMBLY ..... SEE DETAIL G L-8
- PVC TO 3/4" DRIP ADAPTER ..... SEE DETAIL H L-8
- 2" SCH 40 SOLVENT WELD PVC MAINLINE 30" DEEP
- SCH 40 SOLVENT WELD PVC LATERAL 18" DEEP
- CL 200 PVC SLEEVE PIPE 2 SIZES LARGER THAN PIPE TO BE SLEEVED
- CL 200 PVC 1-1/4" WIRE SLEEVE TYPICAL
- 3/4" MANUAL DRAIN ASSEMBLY ..... SEE DETAIL E L-7
- 2" **PEGLAR** PGL B-68-2" BRASS GATE VALVE ..... SEE DETAIL I L-8
- 2" **PROPOSED WATER METER SEE SHEET U-1**
- 2" WATER SERVICE LINE **SEE SHEET U-1**

NOTES:

FOR TYPICAL EMITTER PLACEMENT ..... SEE DETAIL H L-8

EMITTERS SHALL BE **HARDIE** TURBO-KEY EMITTER

1.0 GPH DNK-04 EMITTER (2) PER SHRUB
1.0 GPH DNK-04 EMITTER (3) PER TREE
1.0 GPH DNK-04 EMITTER (1) @ 2'O.C. FOR WILDFLOWER AREA

See Sheet L-5A For Asbuilts

SEE SHEET L-7 AND L-8 FOR IRRIGATION DETAILS & NOTES

0 10 20 40 60

SCALE: 1" = 20'-0"

26 4271.909595

MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

BENCH MARKS

AS BUILT INFORMATION

CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA DATE
INSPECTOR'S ACCEPTANCE BY AA:R DATE
FIELD VERIFICATION BY COA DATE
AS BUILT REVISIONS CORRECTED BY AA:R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL

STATE OF NEW MEXICO
ELIZABETH C. FISH
NO. 7409
REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 8/10/92
			DESIGNED BY KLE DATE 8/10/92
			DRAWN BY KLE/RHT DATE 8/10/92
			CHECKED BY ECR DATE 8/10/92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT DETENTION BASIN

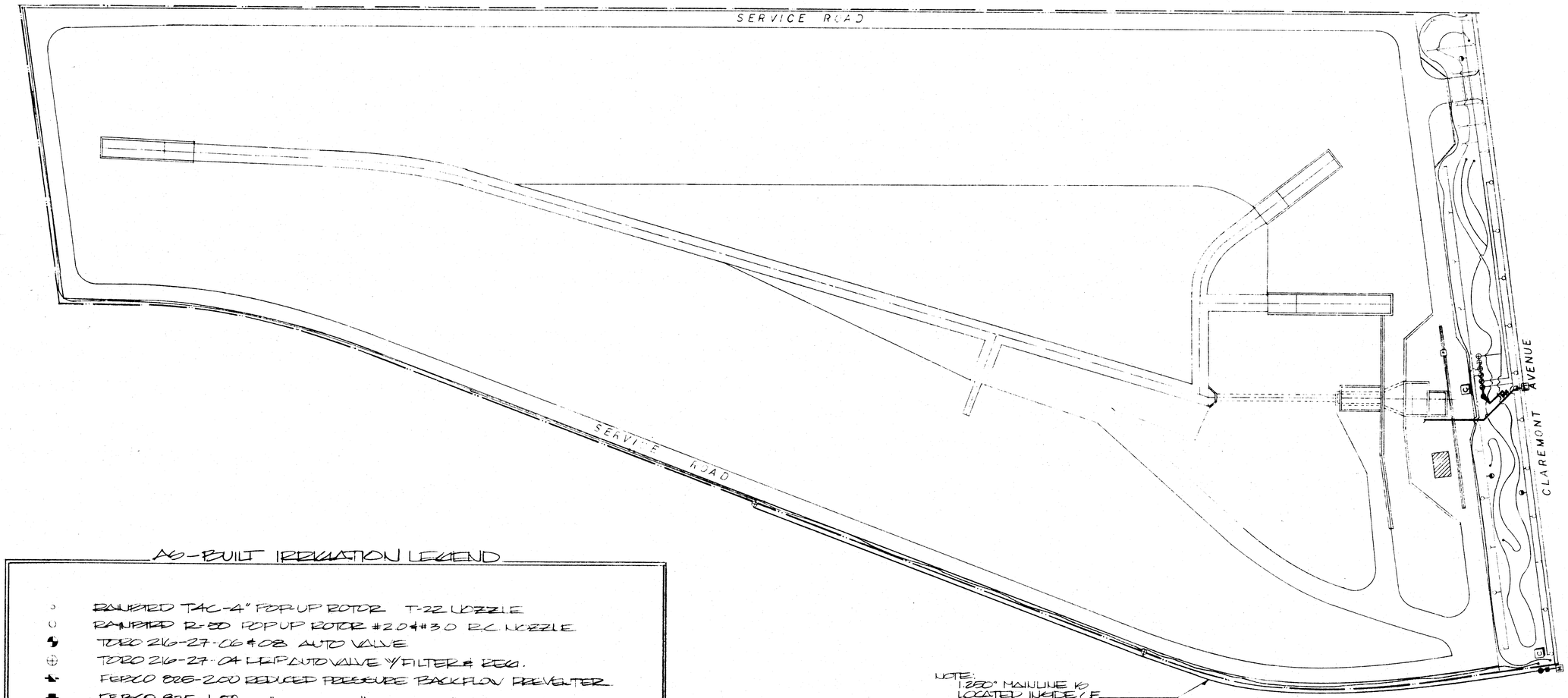
STREETSCAPE IRRIGATION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION		1.19.93	WASTE WATER	N/A	4-21-93
HYDROLOGY		1.19.93			

PROJECT NO. 427190
MAP NO. G 14,15 H 14,15
SHEET L-5 OF 9

SCANNED BY LASON

RECORD DRAWINGS 12/94



AS-BUILT IRRIGATION LEGEND

- RAINBIRD TAC-4" POP-UP ROTOR T-22 NOZZLE
- RAINBIRD R-50 POP-UP ROTOR #20 & #30 P.C. NOZZLE
- TORO 216-27-06 & 08 AUTO VALVE
- TORO 216-27-04 DRIP AUTO VALVE W/ FILTER & REG.
- FEBCO 826-2.00 REDUCED PRESSURE BACKFLOW PREVENTER
- FEBCO 825-1.00 " " " "
- TORO 216-27-04 & 08 BRASS MASTER VALVE ASSEMBLY
- 0.750 MANUAL DRAIN ASSEMBLY
- BRASS GATE VALVE
- CONTROLLER RCM-12B & RCM-4B
- CITY WATER METER
- CLASS 200 PVC LATERAL LINE
- SCH 40 PVC MAINLINE
- SLEEVE
- DRIP TUBING

26 42711.909695

Richard Smith
RECORD DRAWINGS 12/94

SCANNED BY
BY LASON

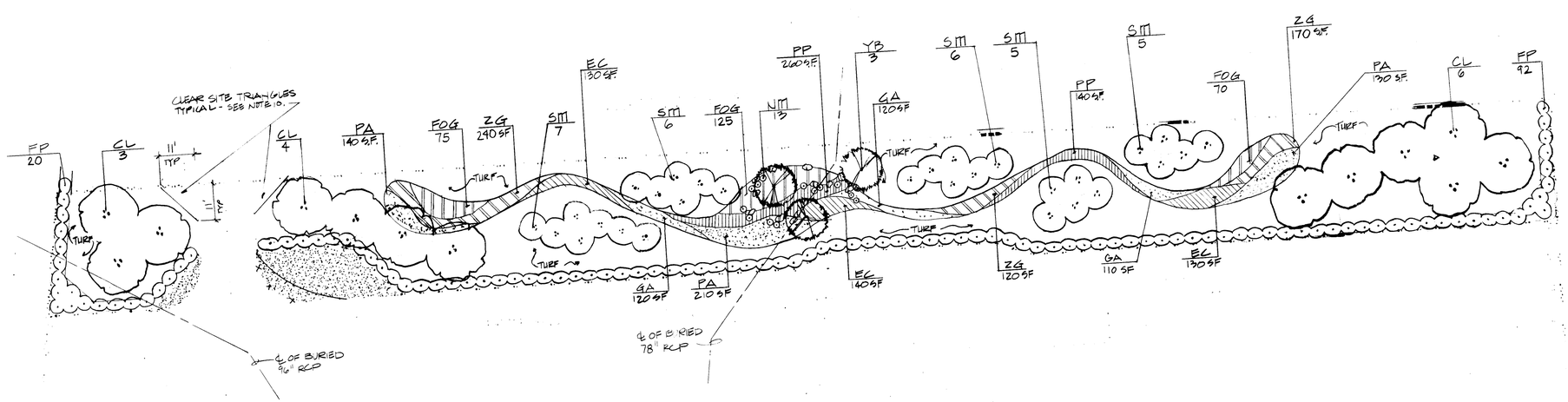
Headquarters
Landscape Contractors
7525 Second St. N.W.
Albuquerque, N.M.

scale
1"=40'-0"

date
8-15-94
revisions
8-18-94

CLAREMONT DETENTION POND
AS-BUILT

sheet
L-5A



CLAREMONT STREETSCAPE PLANTING PLAN

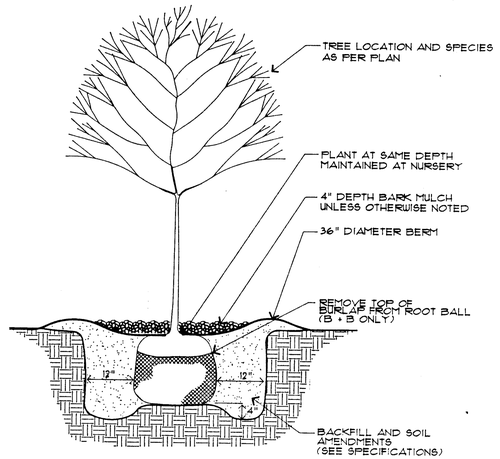
0 10 20 40 60

SCALE: 1" = 20'-0"

PLANT LIST: STREETSCAPE

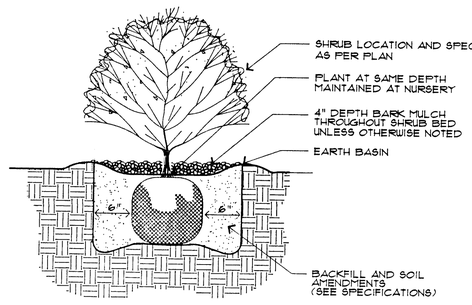
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	INSTALLED SIZE	MATURE SIZE	REMARKS
TREES						
CL	Chilopsis linearis	Desert Willow	13	2" cal., 10'-12' ht., 3' min. spd.	25' ht, 20' spd.	24" box
YB	Yucca brevifolia	Joshua Tree	3	4'-6' ht.	15' ht., 15' spd.	15 gallon
SHRUBS						
FP	Fallugia paradoxa	Apache Plume	112	2'-3' ht.	4' ht., 5' spd.	5 gallon
NM	Nolina microcarpa	Beargrass	13	12" min. ht.	3' ht., 3' spd.	5 gallon
SM	Sambucus mexicana	Mexican Elder	29	2'-3' ht., 2'-3' min. spd.	12' ht., 15' spd.	5 gallon
WILDFLOWERS IN DRY CREEK						
EC	Eschscholzia californica	California Poppy	400 SF	Seed	1' ht.	Seed @ 1 oz., *PLS per 200 SF
GA	Gaillardia aristata	Gaillardia	350 SF	Seed	2' ht.	Seed @ 1 oz. *PLS per 250 SF
PA	Penstemon ambiguus	Bush Penstemon	480 SF	Seed	2' ht., 2' spd.	Seed @ 1 oz. *PLS per 200 SF
PP	Penstemon pinifolius	Pineleaf Penstemon	400 SF	Seed	1-1/2" ht., 1-1/2" spd.	Seed @ 1 oz. *PLS per 200 SF
ZG	Zinnia grandiflora	Desert Zinnia	530 SF	Seed	8" ht.	Seed @ 1 oz. *PLS per 200 SF
TURF						
BD	Buchloe dactyloides	Buffalo Grass	12250 SF	Seed	4"-6" ht.	Seed @ 3 lbs *PLS1000 SF
GROUNDCOVER						
FOG	Festuca ovina glauca	Blue Fescue	270	4" min. ht.	10" ht.,10" spd.	4" cont., 8" o.c.

*PLS = PURE LIVE SEED



1 / L-6 **TREE PLANTING DETAIL**

N.T.S.



2 / L-6 **SHRUB PLANTING DETAIL**

N.T.S.

PLANTING NOTES STREETSCAPE

1. IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LIST AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN.
2. QUANTITIES SHOWN ON THE PLANT LIST ARE ESTIMATES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION.
3. SEE SHEET L-3 FOR SITE PLANTING PLAN.
4. A 4" DEPTH OF BARK MULCH SHALL BE INSTALLED THROUGHOUT ALL SHRUB BEDS.
5. A 36" DIAMETER RING OF 4" DEPTH BARK MULCH SHALL BE PROVIDED AT THE BASE OF ALL TREES AND SHRUBS OUTSIDE OF SHRUB BEDS.
6. THE CONTRACTOR SHALL PRUNE LOWER BRANCHES OF DECIDUOUS TREES AS DIRECTED BY LANDSCAPE ARCHITECT.
7. WHERE TREES ARE ADJACENT TO SIDEWALKS, DRIVEWAYS, OR ROADS, THE DISTANCE BETWEEN THE TREE CENTER AND THE ADJACENT HARD CONSTRUCTION SHALL BE A MINIMUM OF 7'-0", UNLESS SPECIFICALLY NOTED ON PLANS.
8. IF THERE IS A DISCREPANCY IN FIELD OR NURSERY TREES BETWEEN THE CONTAINER SIZE CALLED OUR UNDER "REMARKS" AND THE CALIPER AND HEIGHT CALLED OUT UNDER "SIZE", THE SPECIFIED TREE MUST MEET THE CALIPER AND HEIGHT REQUIREMENTS SPECIFIED UNDER "SIZE," EVEN IF A LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
9. BALLED AND BURLAPPED (B & B) TREES WILL BE AN ACCEPTABLE SUBSTITUTE FOR CONTAINER TREES. B & B TREES MUST MEET THE SIZE REQUIREMENTS SPECIFIED UNDER "REMARKS". ROOT BALL SIZES MUST MEET THE FOLLOWING SPECIFICATIONS.

CALIPER	MIN. ROOT BALL DIA.
2"	24"

10. NO TREES OR SHRUBS SHALL BE PLANTED IN THE CLEAR SITE TRIANGLE. CONTRACTOR SHALL PLANT DESERT WILLOWS 10' MINIMUM FROM EDGE OF TRIANGE.

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY CAR DATE 12/94
INSPECTOR'S NOTATIONS BY AA'R DATE
FIELD INFORMATION BY CAR DATE
MAJOR CHANGES CORRECTED BY AA'R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
KENNETH C. FISH
NO. 79
REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
1	9/21/92	ADDED CLEAR SITE TRIANGLES AND NOTE #10 RELOCATED 7 TREES	JT

REVISIONS
DESIGNED BY BHM/JT DATE 8/10/92
DRAWN BY JT/RHT DATE 8/10/92
CHECKED BY ECR DATE 8/10/92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT DETENTION BASIN
STREETSCAPE PLANTING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A	4-27-93
TRANSPORTATION	N/A PWD	9-24-92	WASTE WATER		
HYDROLOGY		1-19-93			

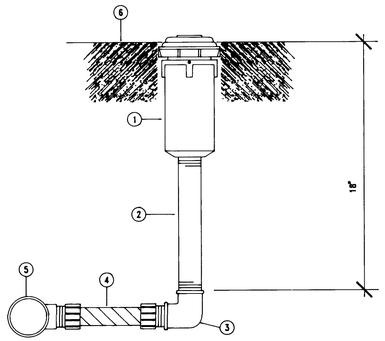
PROJECT NO. 427190
MAP NO. G 14,15 H 14,15
SHEET L-6 OF 9

26 4271.909795

MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

SCANNED BY
BY LASON

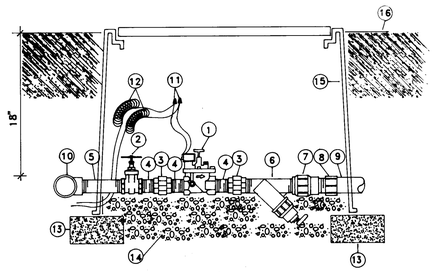
Richard Smith
RECORD DRAWINGS 12/94



1. GEAR DRIVEN ROTARY SPRINKLER (SEE PLAN)
2. 3/4" X 12" SCH 80 PVC NIPPLE
3. 3/4" SCH 40 PVC THREADED ELBOW
4. EXCALIBUR 756 MM 3/4" X 6" FLEX NIPPLE OR EQUAL
5. PVC LATERAL PIPE FITTING
6. FINISH GRADE

A / L-7 GEAR DRIVE SPRINKLER ASSEMBLY

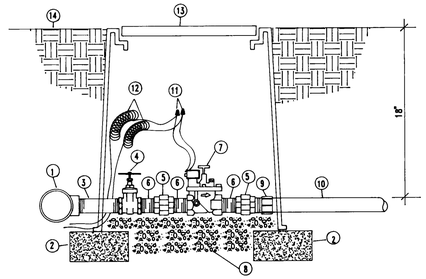
N.T.S.



1. AUTOMATIC VALVE - SEE LEGEND
2. PGL BRASS GATE VALVE
3. GALVANIZED UNION
4. GALVANIZED NIPPLE - 3" LENGTH
5. GALVANIZED NIPPLE - 12" LENGTH
6. AGRICULTURAL PRODUCTS 4E SERIES FILTER
7. SENNINGER PR-25 PRESSURE REGULATOR
8. SCH 40. PVC MALE ADAPTER
9. CLASS 200 PVC LATERAL PIPE
10. PVC MAINLINE TEE
11. 3-M SCOTCH-LOC WATER PROOF CONNECTOR
12. 36" WIRE EXPANSION LOOPS
13. CMU BLOCK (2 PER VALVE BOX)
14. PEA GRAVEL
15. BROOKS PRODUCTS, INC., 1730 PB-18 (ABS) VALVE BOX WITH 1730 BOLT DOWN COVER (ABS) AND ONE 8" EXTENSION
16. FINISH GRADE

B / L-7 AUTOMATIC DRIP VALVE AND FILTER ASSEMBLY

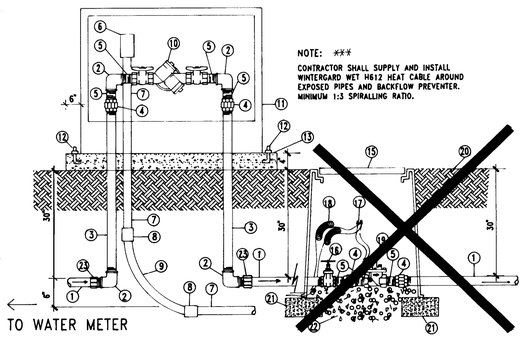
N.T.S.



1. MAINLINE FITTING
2. CMU BLOCK
3. SCH. 80 PVC NIPPLE - 18" LENGTH
4. PGL B-68 BRASS GATE VALVE
5. SPEARS SCH. 80 PVC UNION
6. SCH. 80 PVC NIPPLE - 3" LENGTH
7. AUTOMATIC VALVE (SEE LEGEND)
8. PEA GRAVEL - 3 CUBIC FEET
9. SCH. 40 PVC MALE ADAPTER
10. LATERAL PIPE (SEE LEGEND)
11. WATERPROOF WIRE CONNECTOR
12. 36" WIRE EXPANSION LOOPS
13. BROOKS PRODUCTS, INC. 1730 PB-18 BODY (ABS) VALVE BOX WITH 1730 BOLT DOWN COVER (ABS) AND ONE 8" EXTENSION
14. FINISH GRADE

C / L-7 AUTOMATIC VALVE ASSEMBLY

N.T.S.



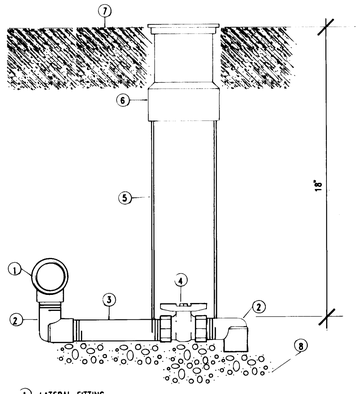
1. MAINLINE (SEE LEGEND)
2. GALVANIZED ELBOW
3. GALVANIZED NIPPLE - 42" LENGTH
4. GALVANIZED UNION
5. GALVANIZED NIPPLE- 3" LENGTH
6. JUNCTION BOX FOR HEAT TAPE
7. RIGID STEEL CONDUIT
8. WATERTIGHT CONNECTOR
9. RIGID STEEL SWEEP ELL
10. BACKFLOW PREVENTER (SEE BELOW*)
11. INSULATED ENCLOSURE (SEE BELOW**)
12. ANCHOR BOLTS
13. 3000 PSI CONCRETE PAD
14. GALVANIZED NIPPLE - 36" LENGTH
15. BROOKS 1730 PB-18 BODY (ABS) VALVE BOX WITH 1730 BOLT DOWN COVER (ABS) AND TWO 8" EXTENSION
16. PGL B-68 BRASS GATE VALVE
17. WATERPROOF WIRE CONNECTOR
18. 36" WIRE LOOPS
19. AUTOMATIC VALVE (SEE LEGEND)
20. FINISH GRADE
21. CMU BLOCK
22. PEA GRAVEL - 3 CUBIC FEET
23. SCH 40 PVC MALE ADAPTER

D / L-7 R.P. BACKFLOW PREVENTER ~~& MASTER VALVE ASSEMBLY~~

N.T.S.

NOTE: THIS DETAIL FOR CLARITY ONLY- ITEM IS TO BE BID UNDER WATER SERVICE. SEE SHEET U-1.

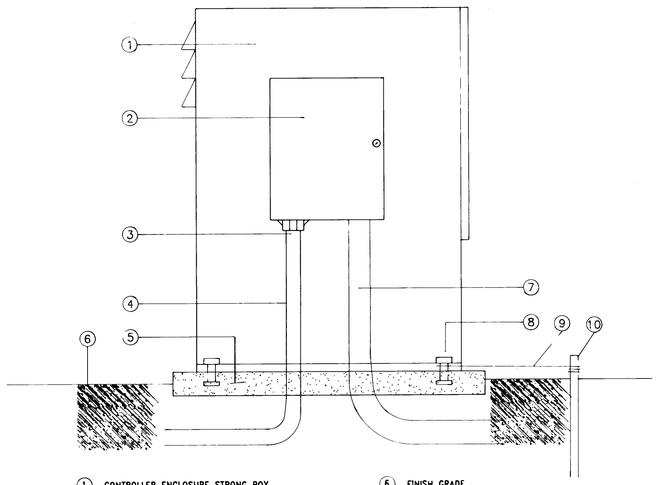
* R.P. BACKFLOW PREVENTER - FEBCO 825-Y-2".
** INSULATED ENCLOSURE - STRONG BOX SBBC-45ALI.
*** HEAT CABLE SHALL BE SELF-LIMITING.



1. LATERAL FITTING
2. SCH. 40 PVC STREET ELL
3. SCH. 80 PVC NIPPLE - 3" LENGTH
4. SPEARS PVC BALL VALVE
5. 10" PVC SLEEVE
6. CARSON 910-12 10" ROUND VALVE BOX
7. FINISH GRADE
8. 3/4" GRAVEL SUMP - 5 CUBIC FEET

E / L-7 MANUAL DRAIN ASSEMBLY

N.T.S.



1. CONTROLLER ENCLOSURE STRONG BOX (SEE LEGEND)
2. AUTOMATIC CONTROLLER (SEE LEGEND)
3. 3/4" EMT CONDUIT (120 VOLT CONDUCTORS)
4. 3/4" PVC SWEEP W/90 ELBOW
5. 3000 PSI CONC. BASE 5" MINIMUM THICKNESS. SIZE AS REQUIRED BY MANUF. INSTALLATION GUIDE
6. FINISH GRADE
7. 3" PVC SWEEP W/90 ELBOW
8. MOUNTING STUDS
9. GROUNDING WIRE
10. 5/8" X 10 FT. GROUNDING ROD

F / L-7 AUTOMATIC CONTROLLER & STEEL ENCLOSURE

N.T.S.

26 4271.909895

MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

SCANNED BY LASON

RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
STAKING MARKED BY COA DATE
INSPECTOR'S ASSISTANCE BY RA'R DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY RA'R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
ROBERT C. FISH
NO. 7890
REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY KLE DATE 8/10/92
DRAWN BY KLE/RHT DATE 8/10/92
CHECKED BY ECR DATE 8/10/92

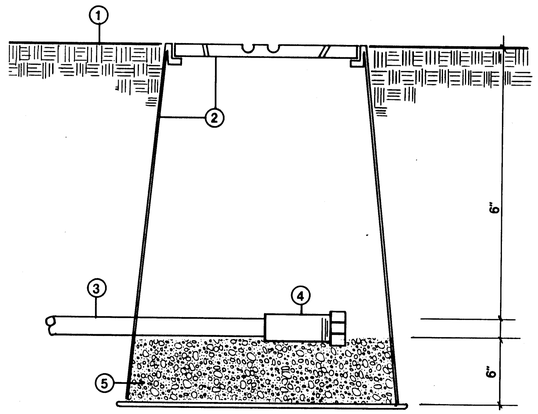
ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT DETENTION BASIN
IRRIGATION DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Lobby	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY	Stan Lobby	1-19-93			

PROJECT NO. 4271.90
MAP NO. G 14,15 H 14,15
SHEET L-7 OF 9

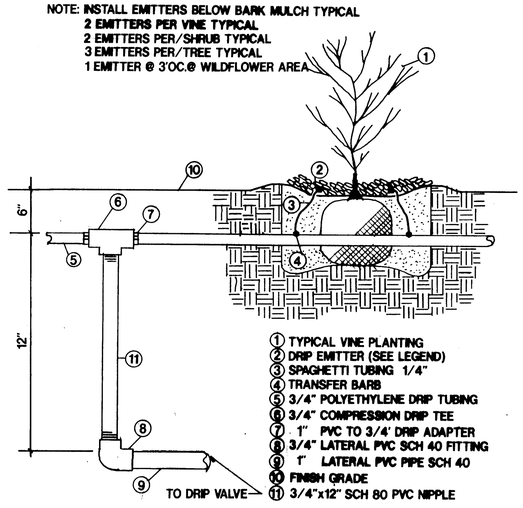


1. FINISH GRADE
2. 6" ROUND AMETEK VALVE BOX .
3. 3/4" POLYETHYLENE DRIP TUBING
4. 3/4" POLYETHYLENE FLUSHING END CAP
5. PEA GRAVEL - 3 CUBIC FEET

G / L-8 DRIP FLUSHING END CAP ASSEMBLY

NTS

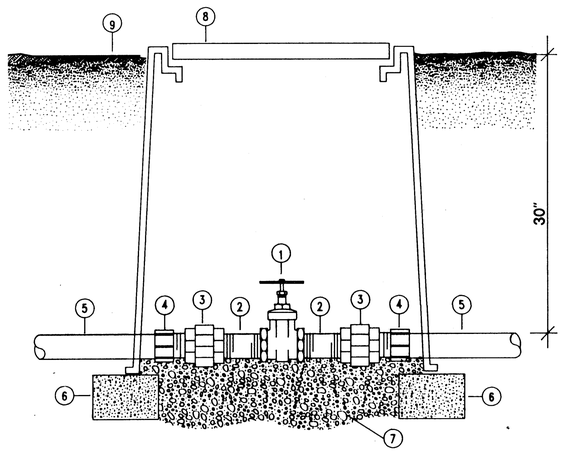
NOTE: INSTALL EMITTERS BELOW BARK MULCH TYPICAL
2 EMITTERS PER VINE TYPICAL
2 EMITTERS PER/SHRUB TYPICAL
3 EMITTERS PER/TREE TYPICAL
1 EMITTER @ 3'OC.@ WILDFLOWER AREA



1. TYPICAL VINE PLANTING
2. DRIP EMITTER (SEE LEGEND)
3. SPAGHETTI TUBING 1/4"
4. TRANSFER BARB
5. 3/4" POLYETHYLENE DRIP TUBING
6. 3/4" COMPRESSION DRIP TEE
7. 1" PVC TO 3/4' DRIP ADAPTER
8. 3/4" LATERAL PVC SCH 40 FITTING
9. 1" LATERAL PVC PIPE SCH 40
10. FINISH GRADE
11. 3/4"x12" SCH 80 PVC NIPPLE

H / L-8 EMITTER PLACEMENT & PVC TO DRIP CONNECTION DETAIL

NTS.



1. GATE VALVE (SEE LEGEND)
2. SCH. 80 PVC THREADED NIPPLE - 3" LENGTH
3. SPEARS SCH. 80 PVC THREADED UNION
4. SCH. 40 PVC MALE ADAPTER
5. MAINLINE PIPE (SEE LEGEND)
6. CMU BLOCK
7. PEA GRAVEL - 3 CUBIC FEET
8. BROOKS 1730-PB 18 VALVE BOX W/(2)8"EXT.
9. FINISH GRADE

I / L-8 GATE VALVE ASSEMBLY

N.T.S.

IRRIGATION NOTES

1. THE CONTRACTOR SHALL INSTALL MANUAL DRAINS ON LATERAL PIPING TO INSURE COMPLETE DRAINAGE OF THE PIPING. (SEE MANUAL DRAIN ASSEMBLY.) INSTALL ONE MANUAL DRAIN PER ZONE, MINIMUM. LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. DRAIN LOCATIONS SHALL BE SHOWN ON AS-BUILT DRAWINGS.
2. ALL VALVE BOXES FOR MANUAL DRAINS AND AUTOMATIC VALVES SHALL BE INSTALLED AT A MINIMUM OF 12" FROM EDGES OF TURF.
3. ALL VALVE BOXES SHALL BE SUPPORTED BY CINDER BLOCKS, (MINIMUM 2 PER VALVE BOX). INSTALL BLOCKS IN A MANNER WHICH WILL PREVENT CONTACT WITH PIPING, WIRES, VALVES, ETC.
4. MARK ALL 24-VOLT WIRE ENDS WITH 3M STD-09 WIRE MARKER TAPE AT THE VALVE BOX AND CONTROLLER LOCATIONS.
5. ALL 24-VOLT WIRE SHALL BE MARKED WITH A 4" WIDE YELLOW MARKER TAPE AND MARKED "WARNING-ELECTRICAL". LAY MARKER TAPE HORIZONTALLY 6" ABOVE WIRE.
6. 24-VOLT WIRE SHALL BE IN COMMON TRENCH WITH MAINLINE AND SHALL HAVE SEPARATE SLEEVE WHERE CROSSING ALL HARD CONSTRUCTION. ALL SLEEVE PIPING FOR 24-VOLT WIRE SHALL BE 1-1/4" CLASS 200 PVC.
7. CONTRACTOR SHALL EXTEND 120-VOLT A.C. FROM EXISTING POWER TO PROPOSED CONTROLLER AND BACKFLOW PREVENTER LOCATIONS. ALL ELECTRICAL WORK SHALL BE PER LOCAL CODES AND N.E.C. STANDARDS.
8. THE CONTRACTOR SHALL WIRE 120 VOLT AC NEEDED FOR THE IRRIGATION CONTROLLER AND R.P. BACKFLOW PREVENTER TO THE 120 VOLT ELECTRICAL PANEL "A" LOCATED AT PUMP STATION CONTROL BUILDING. ASSOCIATED BREAKER SHALL BE LABELED "IRRIGATION CONTROL PANEL".
9. WHERE PROPOSED PIPING CROSSES EXISTING ASPHALT AND/OR CONCRETE, THE CONTRACTOR SHALL SAW-CUT, REMOVE AND PROPERLY DISPOSE OF WASTE, EXCAVATE, INSTALL SLEEVE PIPING, MAINS AND LATERALS, BACKFILL AND COMPACT TO 95%. CONTRACTOR SHALL REPLACE ASPHALT AND/OR CONCRETE TO MATCH EXISTING.
10. THE CONTRACTOR SHALL ADJUST ALL VALVES, DRIP IRRIGATION, AND SPRINKLERS FOR OPTIMUM COVERAGE, AND SHALL PROVIDE AND INSTALL NOZZLES OTHER THAN THOSE SPECIFIED AS INSTRUCTED BY THE LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL INSTALL ALL EMITTERS AS SHOWN ON EMITTER PLACEMENT DETAIL. SEE SHEET L-8.
12. CONTRACTOR SHALL TAPE CLOSED ALL SLEEVE PIPE OPENINGS USING DUCT TAPE TO PREVENT DEBRIS FROM ENTERING SLEEVES.
13. ALL EXISTING DISTRIBUTION LINE LOCATIONS ARE SCHEMATIC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO POT HOLE AND FIELD CHECK TO DETERMINE ACTUAL LOCATIONS AS AN INCIDENTAL REQUISITE TO THE CONSTRUCTION CONTRACT.
14. THE PROPOSED CONTROLLER LOCATIONS INDICATED ON THE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS OF THE CONTROLLERS SHALL BE DETERMINED BY OWNER'S REPRESENTATIVE IN THE FIELD.
15. THE CONTRACTOR SHALL NOT RUN THE DRIP IRRIGATION SYSTEM FOR TREES, SHRUBS, AND WILDFLOWERS IN THE BUFFALOGRASS TURF AREA DURING THE ESTABLISHMENT PERIOD OF THE TURF. ONCE THE TURF IS ESTABLISHED, AND THE IRRIGATION IS CUT BACK, THE DRIP SYSTEM FOR TREES, SHRUBS, AND WILDFLOWERS IN THE TURF AREA WILL BE ACTIVATED.

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 12/94
INSPECTOR'S ACCEPTANCE BY A.H.P DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY A.H.P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO — NO. 21 — REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	KLE 8/10/92
			KLE/RHT 8/10/92
			ECR 8/10/92

DESIGNED BY KLE
DRAWN BY KLE/RHT
CHECKED BY ECR

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CLAREMONT DETENTION BASIN
IRRIGATION DETAILS

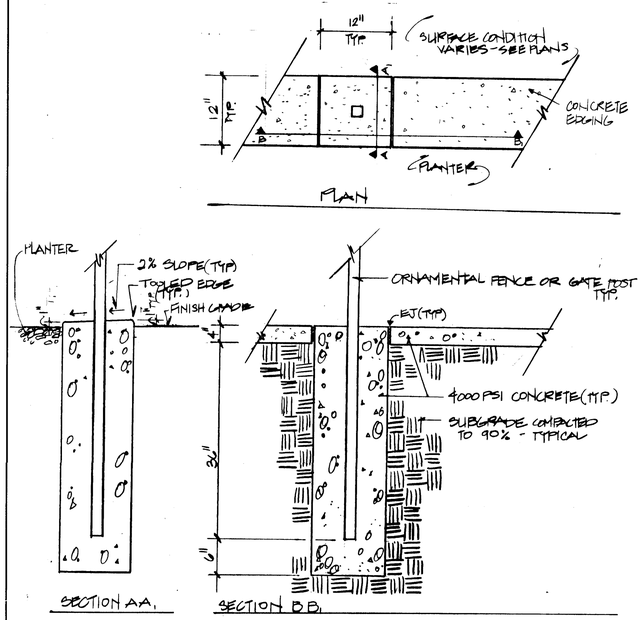
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	
TRANSPORTATION	[signature]	4-24-92	WASTE WATER	[signature]	4-24-92
HYDROLOGY	[signature]	1993			

PROJECT NO. 427190 — MAP NO. G 14,15 H 14,15 — SHEET L-8 OF 9

26 4271.909995

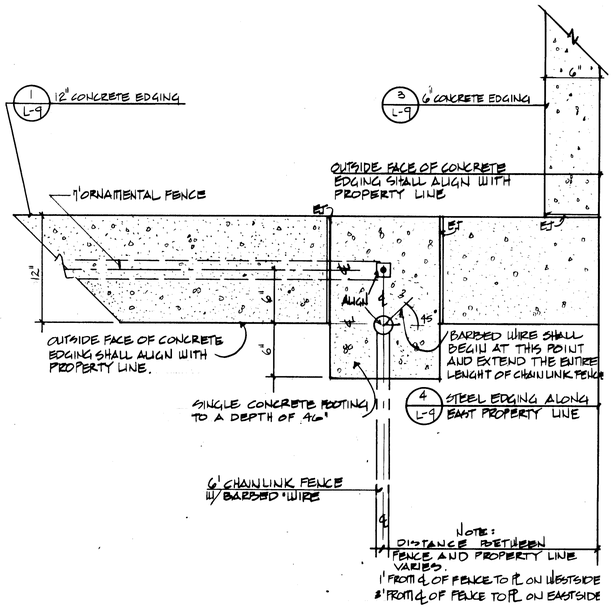
MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

SCANNED BY
RECORD DRAWINGS 12/94



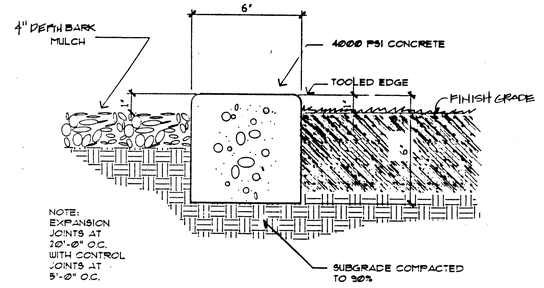
1 L-9 12" CONCRETE EDGING / ORNAMENTAL FENCE FOOTING DETAIL

SCALE 1"=1'-0"



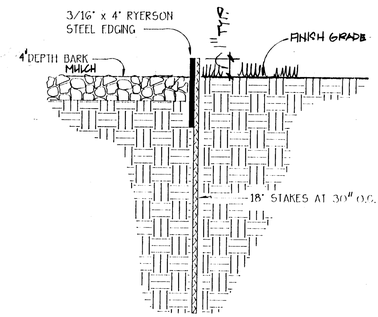
2 L-9 FOOTING / EDGING CORNER DETAIL

SCALE 1 1/2"=1'-0"



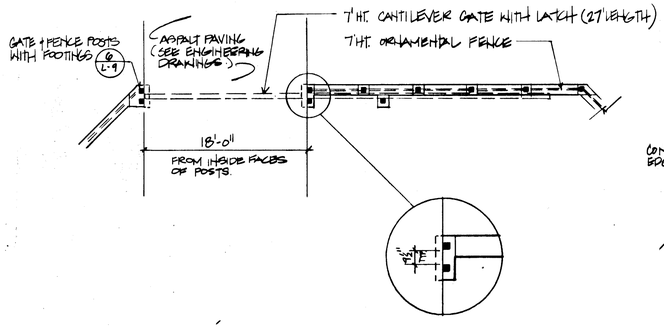
3 L-9 6" CONCRETE EDGING SECTION

SCALE 3"=1'-0"



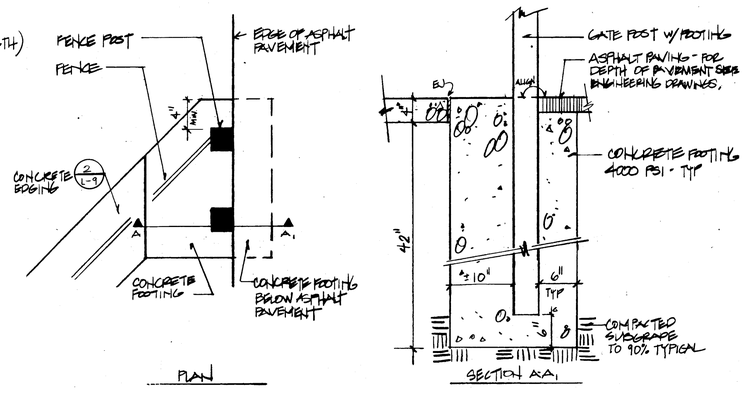
4 L-9 STEEL EDGING SECTION

NTS



5 L-9 ORNAMENTAL CANTILEVER GATE & POST DETAIL

NTS



6 L-9 ORNAMENTAL CANTILEVER GATE POST FOOTING DETAIL

SCALE:1"=1'-0"

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY CAB DATE 12/94
INSPECTORS ACCEPTANCE BY AAIR DATE
FIELD VERIFICATION BY CAB DATE
DRAWINGS CORRECTED BY AAIR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
NO. 2
REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY	
		REVISIONS		
		DESIGN	JF	8/10/92
			JT/RHT	8/10/92
			ECR	8/10/92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CLAREMONT DETENTION BASIN
LANDSCAPE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION		9-24-92	WASTE WATER		
HYDROLOGY		1-19-93			

PROJECT NO. 4271.90
MAP G 14,15 NO. H 14,15
SHEET L-9 OF 9

26 4271.9010095

MORROW & COMPANY, LTD.
LANDSCAPE ARCHITECTS
210 La Veta N.E.
Albuquerque, N.M. 87108
505 268-2266

SCANNED BY
BY LASON

RECORD DRAWINGS 12/94

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

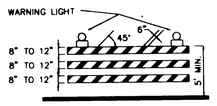
PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR SHALL KEEP TRACK OF LOCATION AND TYPE OF EXISTING PERMANENT STRIPING REMOVED WITH PAVEMENT FOR INSTALLATION OF STORMDRAIN IMPROVEMENTS AND SHALL REPLACE PERMANENT STRIPING IN SAME LOCATION AFTER STREET AREA IS REPAVED. THIS WORK IS CONSIDERED INCIDENTAL AND THERE WILL BE NO DIRECT PAYMENT THEREFOR.

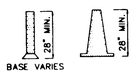
2. CONSTRUCTION TRAFFIC CONTROL REQUIRED FOR CONVERSION OF STORM DRAIN OUTFALL ON SECOND STREET TO BE ACCOMPLISHED USING TYPICAL DETAILS SHOWN ON SHEETS T-1 AND T-2. PAYMENT FOR THIS WORK WILL BE INCLUDED IN PRICE BID FOR BID ITEM NO. 3 CONSTRUCTION TRAFEIC CONTROL AND BARRICADING.

3. CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ACCESS SIGNS FOR BUSINESSES IN ACCORDANCE WITH GENERAL NOTE NO. 17 ON THIS SHEET. PRICE FOR THIS WORK TO BE INCLUDED IN PRICE BID FOR BID ITEM NO. 3 CONSTRUCTION TRAFFIC CONTROL AND BARRICADING.

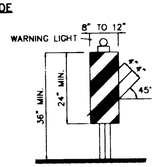
4. MINOR MODIFICATIONS MAY BE MADE TO CONSTRUCTION PLANS TO BETTER FIT FIELD CONDITIONS DURING CONSTRUCTION AND MAY REQUIRE ADJUSTMENT OF TRAFFIC CONTROL PLANS. NO ADDITIONAL PAYMENT WILL BE MADE FOR MINOR DEVIATIONS FROM TRAFFIC CONTROL PLANS CAUSED BY SUCH MODIFICATION OF CONSTRUCTION PLANS DURING CONSTRUCTION.



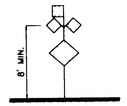
TYPE III BARRICADE



CONES



VERTICAL PANEL

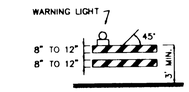


HIGH LEVEL WARNING DEVICE

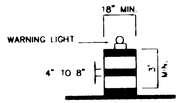
LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH - SEE CHART BELOW

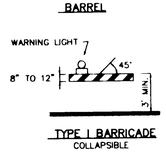
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



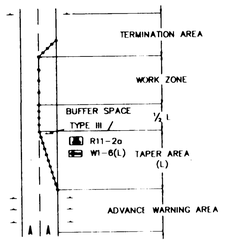
TYPE II BARRICADE
COLLAPSIBLE



BARREL



TYPE I BARRICADE
COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

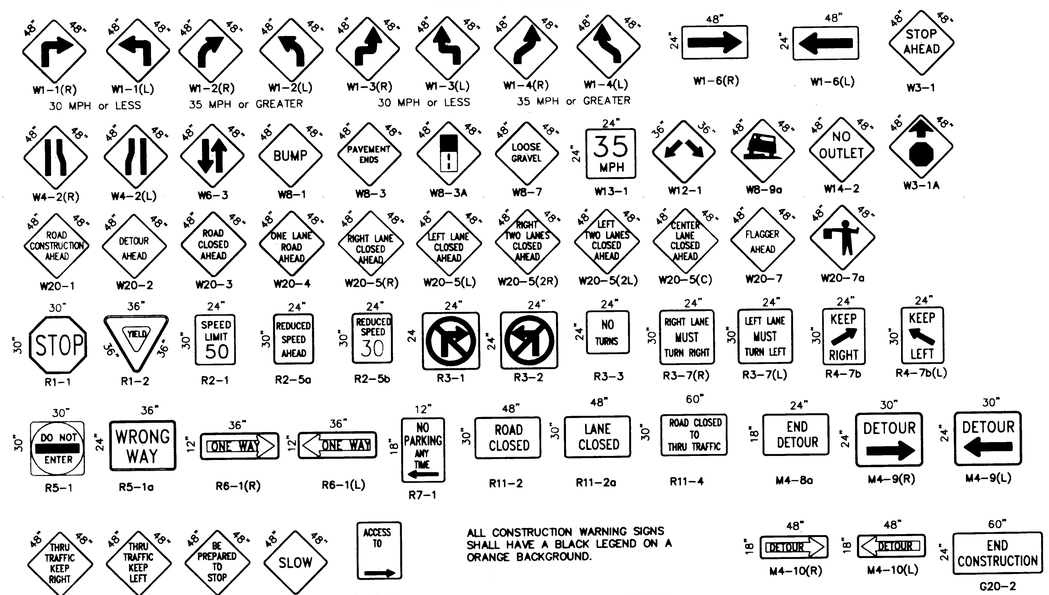
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	½ L MINIMUM
SHOULDER TAPER	⅓ L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

AS BUILT INFORMATION
CONTRACTOR R2001 DATE 4/94
WORK STAKED BY: DOA DATE
AS-BUILT BY: RR/P DATE
ACCEPTANCE BY: DOA DATE
FIELD VERIFICATION BY: RR'P DATE
DRAWINGS CORRECTED BY: RR'P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
RICARDO ROYBAL
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS
		REVISIONS
		DESIGN

DESIGNED BY RICARDO ROYBAL, P.E. DATE AUG. 1992
DRAWN BY CADD - A.F.V. DATE AUG. 1992
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		1-25-93
TRANSPORTATION			WASTE WATER		
HYDROLOGY		1/1993			

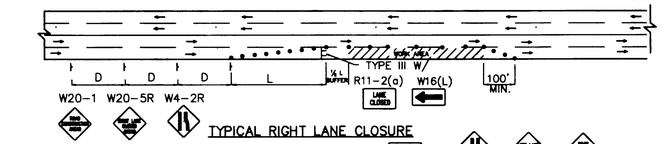
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF T-1

26 4271.9010195

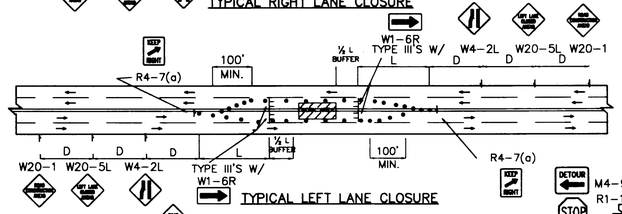
SCANNED BY LASON

Richard Smith
RECORD DRAWINGS 12/94

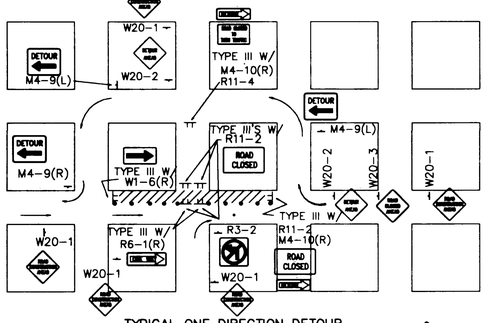
08-11-92
CTCSTD1.DWG (1=1')



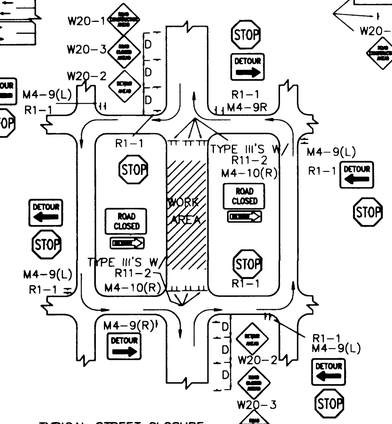
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE

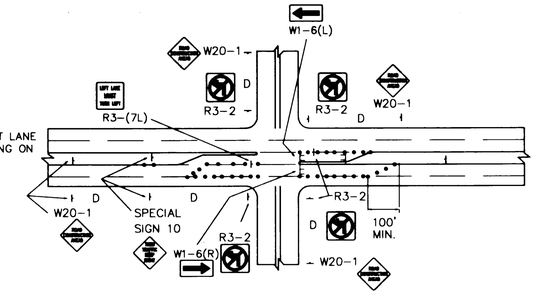


TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

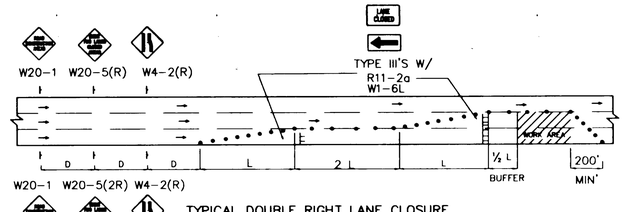
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



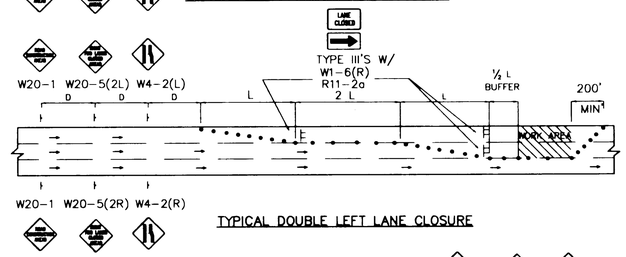
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

TYPICAL LANE CLOSURE AT INTERSECTION

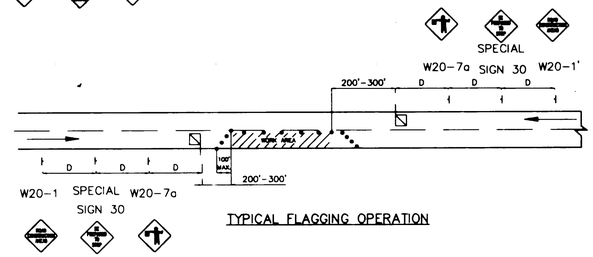
NOTE: DEPENDING ON WORK ZONE LOCATION



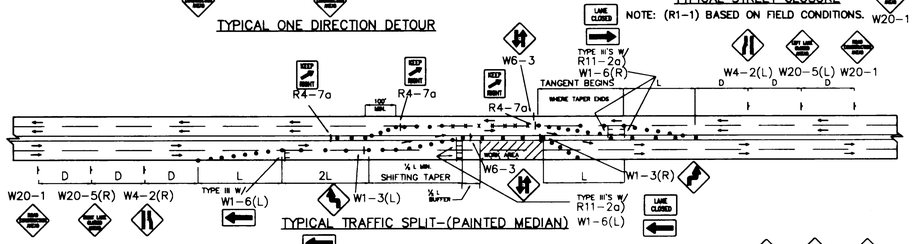
TYPICAL DOUBLE RIGHT LANE CLOSURE



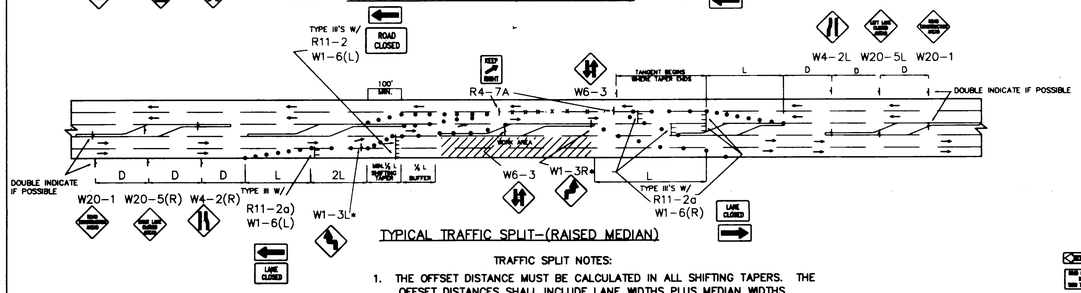
TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



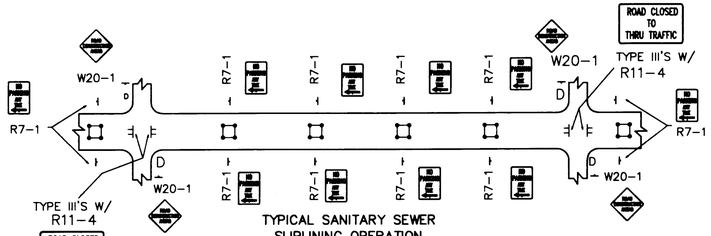
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

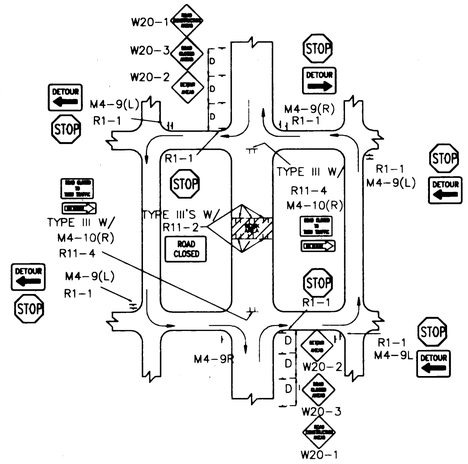
TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. ½ L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF ½ L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. • USE 1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



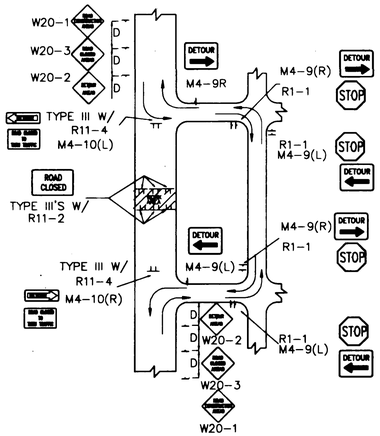
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.



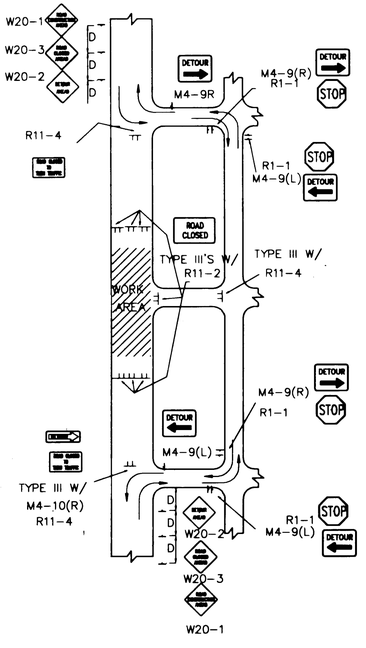
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



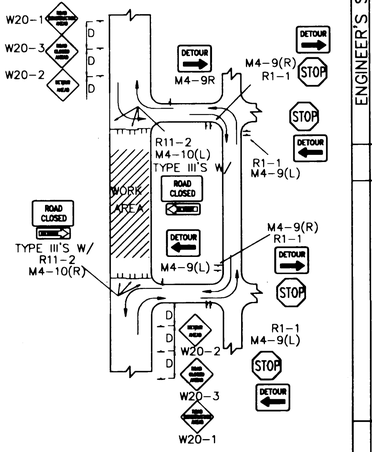
TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

AS BUILT INFORMATION
CONTRACTOR: RMCI DATE 12/94
WORK INSPECTOR'S: COA DATE
ACCEPTANCE BY: AA:R DATE
VERIFICATION BY: COA DATE
CONTRACTOR'S CERTIFICATION BY: AA:R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL
RICARDO B. ROYBAL NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY RICARDO ROYBAL, P.E.	DATE NOV. 1991
		DRAWN BY C.A.D.D./M.L.B./A.F.V.	DATE NOV. 1991
		CHECKED BY	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. Roybal	2-18-93	WATER	N/A	1-25-93
TRANSPORTATION			WASTE WATER		
HYDROLOGY	Steve Sobey	1-19-93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF T-2

26 4271.9010295

SCANNED BY LASON

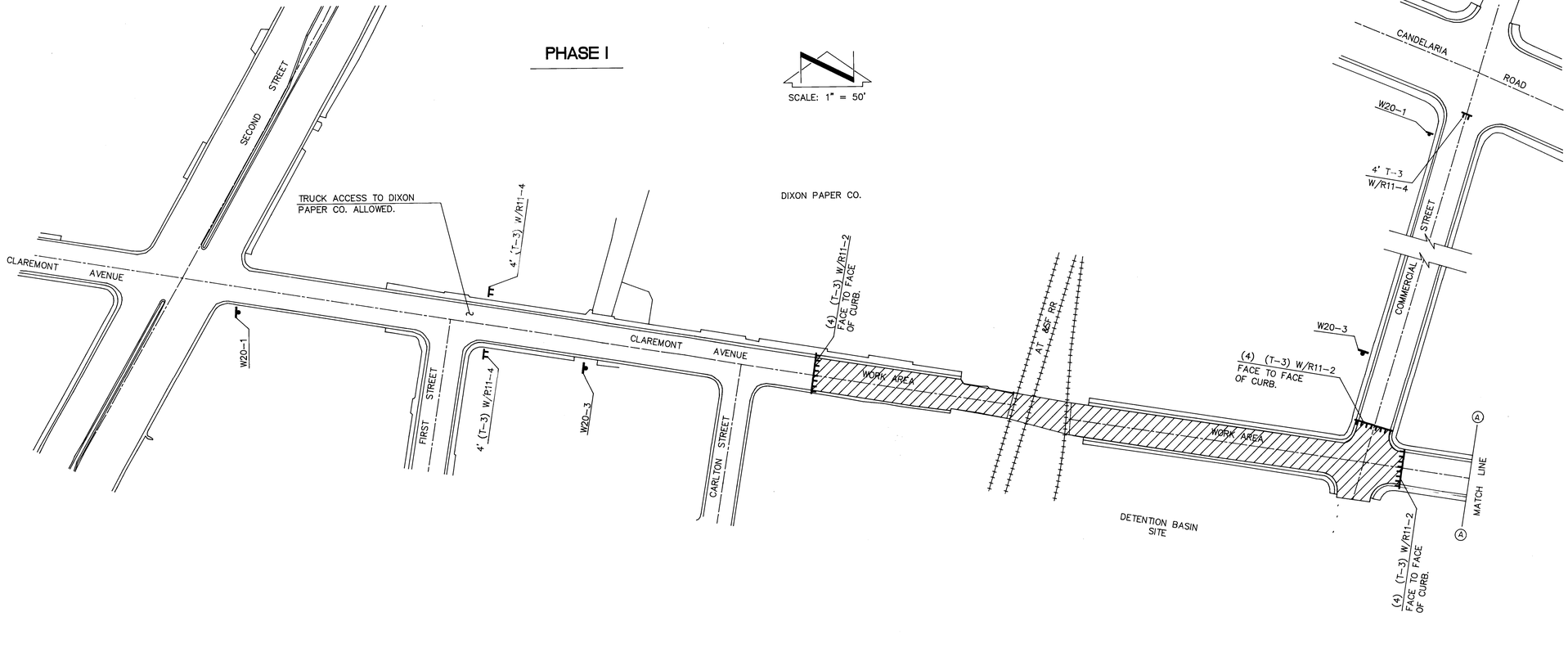
Richard Frost
RECORD DRAWINGS 12/94

05-13-92
CTCS702.DWG

148413

PHASE I

SCALE: 1" = 50'



PHASE I
TRAFFIC CONTROL NOTES

1. Claremont Ave. shall be closed between Commercial St. and east of Carlton St. Access to Dixon Paper Company shall be maintained at all times from Second Street and the two westernly driveways on Claremont St. serving Dixon Paper Company shall remain open in this phase.

2. The two Force Mains on Commercial St. crossing Claremont Ave. shall be constructed in this phase. Work going across Claremont Ave. must be completed before next phase, Force Main work on Commercial St. can continue North toward completion. Force Main work on Commercial St. to be accomplished allowing one lane of traffic for access to properties on Commercial St.

3. All trench work shall be barricaded with barrels at 15' intervals with flagline and flashing lights parallel to trench. Any additional barricading and/or adjustments shall be made under supervision of the City of Albuquerque's Construction Coordination Division.

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STARTED ON DATE 12/94
INSPECTED BY COA
ACCEPTANCE BY PW DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY P.P.C. DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

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

REVISIONS

NO.	DATE	REMARKS	BY
DESIGNED BY		DESIGN	R.L. DATE 8-92
DRAWN BY			J.G.L. DATE 8-92
CHECKED BY			R.L. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE I**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A	3/30/94
TRANSPORTATION	N/A	9.24.92	WASTE WATER		
HYDROLOGY	[signature]	1.19.93			
CC	[signature]	1/4/93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF T - 3

PHASE - 08/21/91 16:29:46

26 4271.901039.5

SCANNED BY JASON

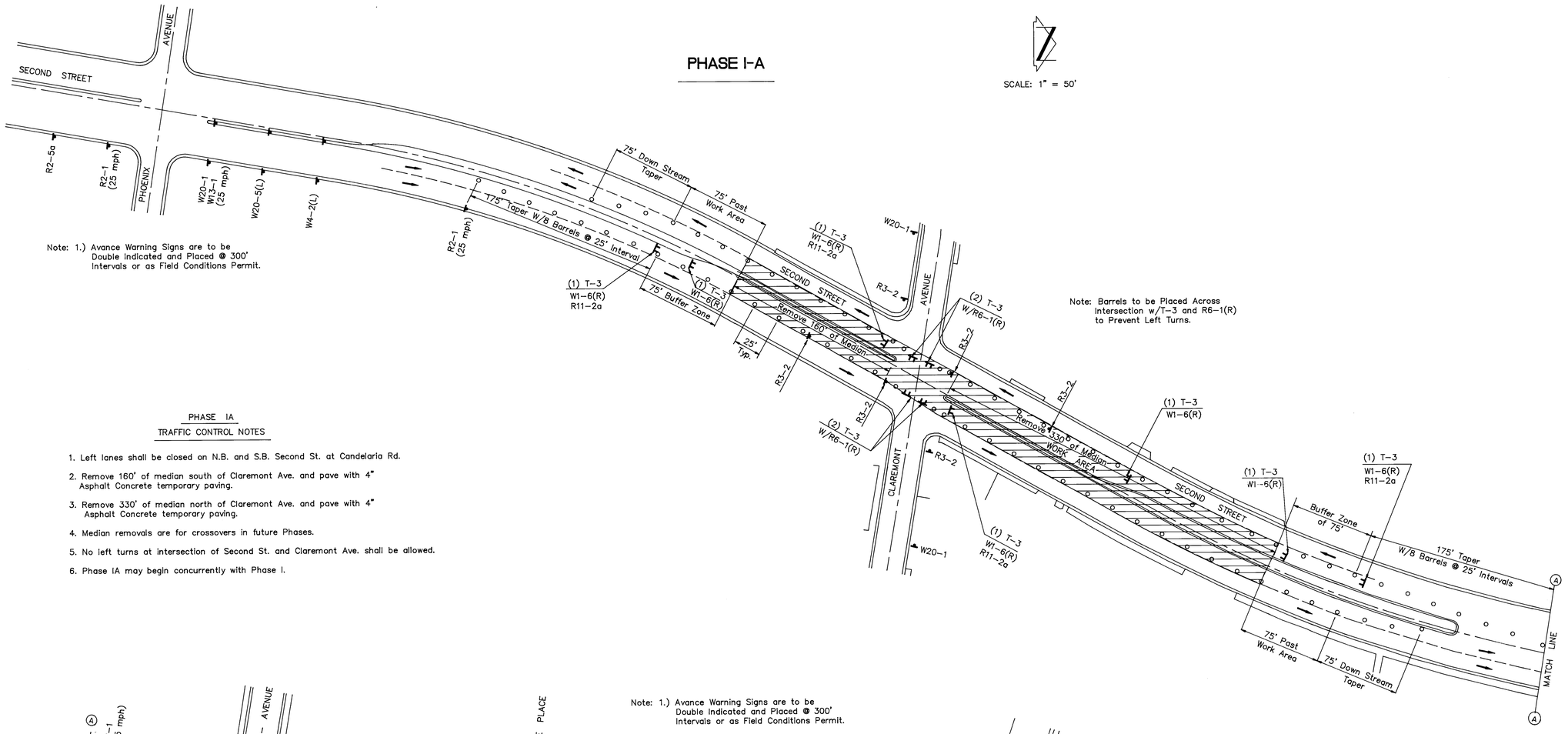
Richard Ivers
RECORD DRAWINGS 12/94

148413

NOTES

PHASE I-A

SCALE: 1" = 50'

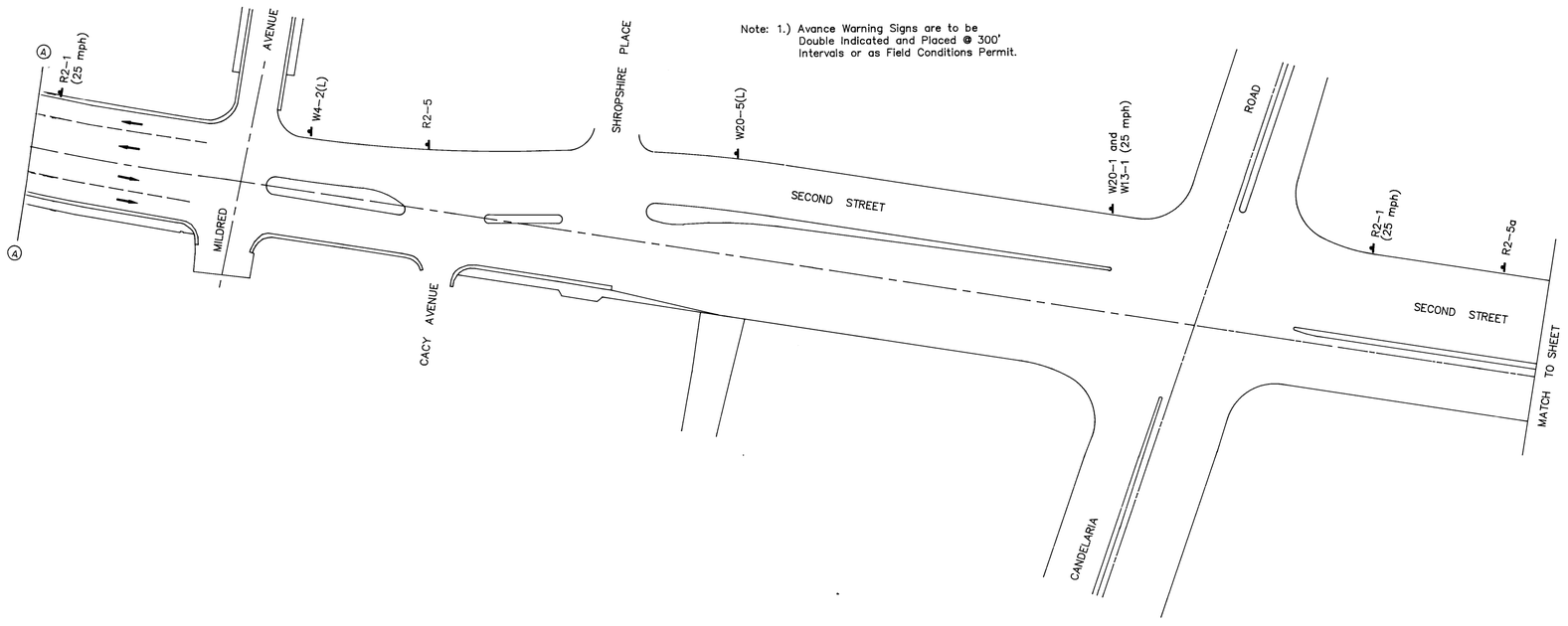


Note: 1.) Avance Warning Signs are to be Double Indicated and Placed @ 300' Intervals or as Field Conditions Permit.

Note: Barrels to be Placed Across Intersection w/T-3 and R6-1(R) to Prevent Left Turns.

PHASE IA
TRAFFIC CONTROL NOTES

1. Left lanes shall be closed on N.B. and S.B. Second St. at Candelaria Rd.
2. Remove 160' of median south of Claremont Ave. and pave with 4" Asphalt Concrete temporary paving.
3. Remove 330' of median north of Claremont Ave. and pave with 4" Asphalt Concrete temporary paving.
4. Median removals are for crossovers in future Phases.
5. No left turns at intersection of Second St. and Claremont Ave. shall be allowed.
6. Phase IA may begin concurrently with Phase I.



Note: 1.) Avance Warning Signs are to be Double Indicated and Placed @ 300' Intervals or as Field Conditions Permit.

26 4271.9010495

SCANNED BY BY LASON

Richard Smith
RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA
INSPECTED BY AAR DATE
MATERIALS TESTED BY
FIELD VERIFICATION BY COA DATE
AS-BUILT DRAWINGS CORRECTED BY AAR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERMEER NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER 12/94

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY R.L. DATE 8-92
DRAWN BY J.G.L. DATE 8-92
CHECKED BY R.L. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE I-A**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION		2-18-93	WASTE WATER	N/A	9-24-92
HYDROLOGY		9-24-92			
CC		1-19-93			
		1/4/93			

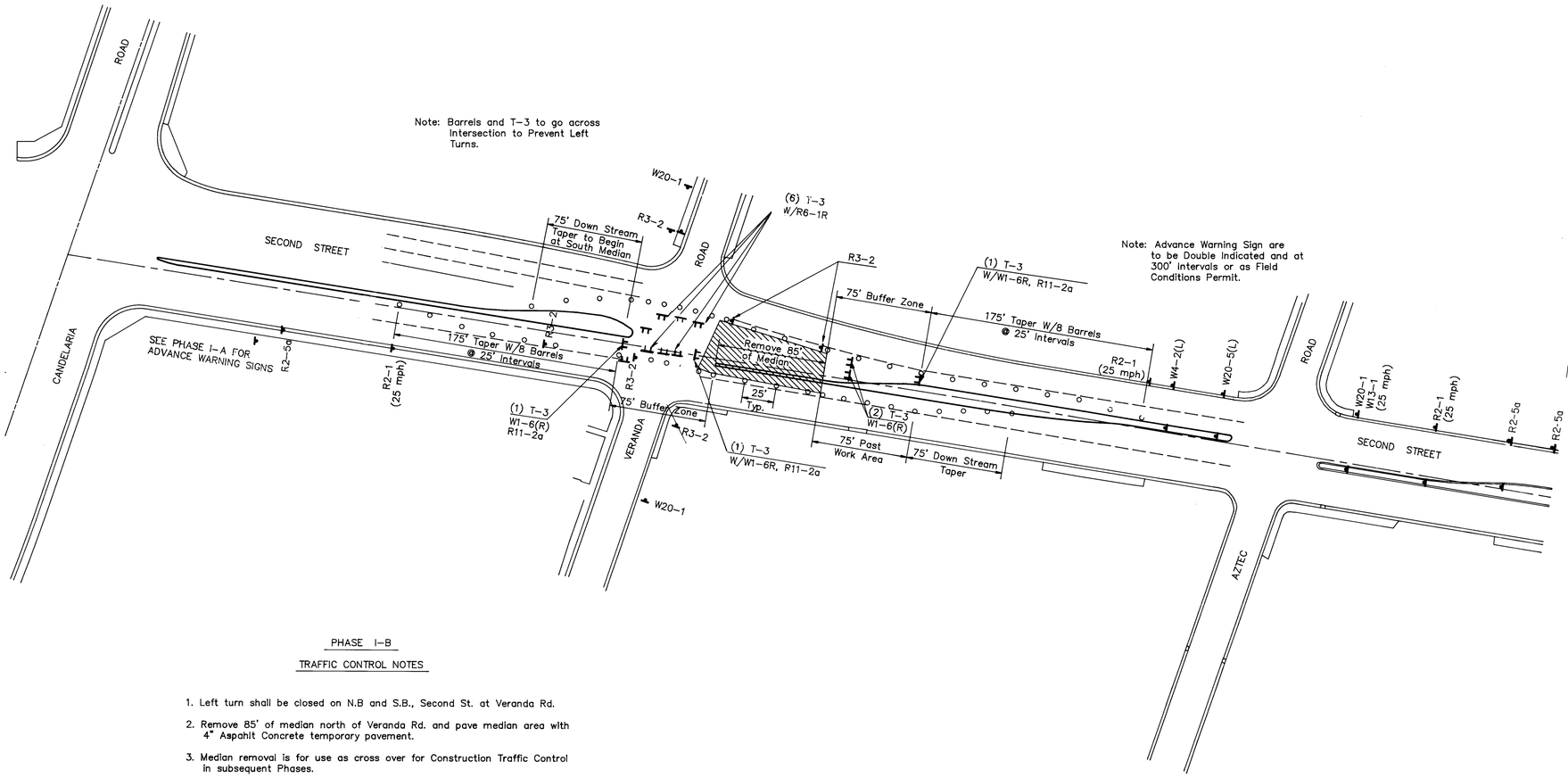
PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET T - 4 OF

PHASE-IA 08/26/92 02:17:57

148413

PHASE I - B

SCALE: 1' = 50'



PHASE I-B

TRAFFIC CONTROL NOTES

1. Left turn shall be closed on N.B and S.B., Second St. at Veranda Rd.
2. Remove 85' of median north of Veranda Rd. and pave median area with 4" Aspahit Concrete temporary pavement.
3. Median removal is for use as cross over for Construction Traffic Control in subsequent Phases.
4. No left turns at intersection of Second St. and Veranda Rd. shall be allowed.
5. Phase I-B may begin concurrently with Phase I.

26 4271.9010595

SCANNED BY LASON

Richard Frost
RECORD DRAWINGS 12/94

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STARTED BY COA DATE
INSPECTOR'S ACCEPTANCE BY AA-R DATE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY AA-R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VENNINES NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER 8/26/92

NO.	REMARKS	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
	REVISIONS		R.L. 8-92	J.G.L. 8-92	R.L. 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE I-B**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goolsby	2-18-93	WATER	N/A	9-24-92
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY	Steve Berg	1-19-93			
Cc	Frank Blegen	1/4/93			

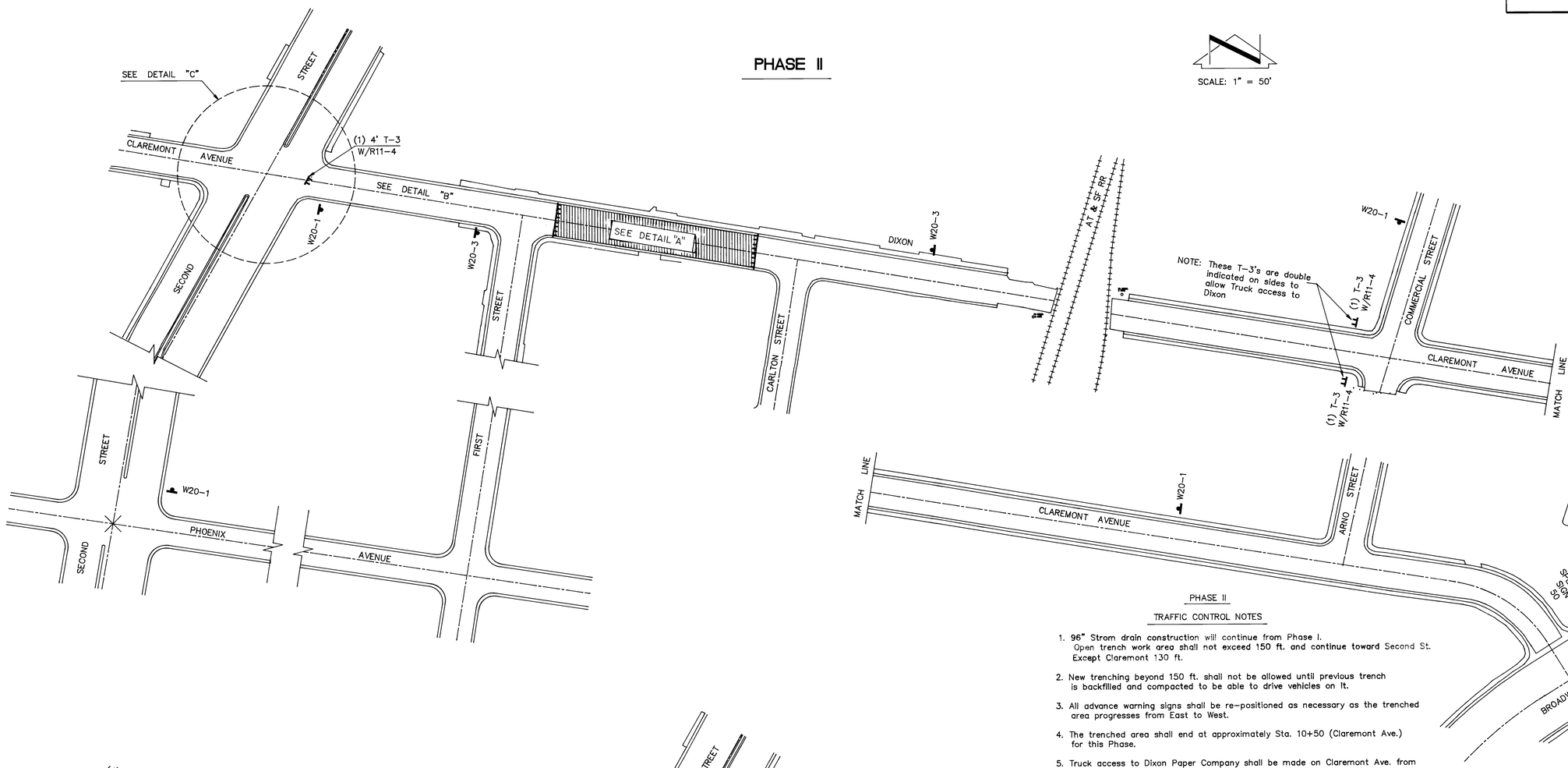
PROJECT NO. 4271.90 | MAP NO. G-14, 15 / H-14, 15 | SHEET NO. T - 5 OF

PHASE-B 08/26/92 07:42:43

148413

PHASE II

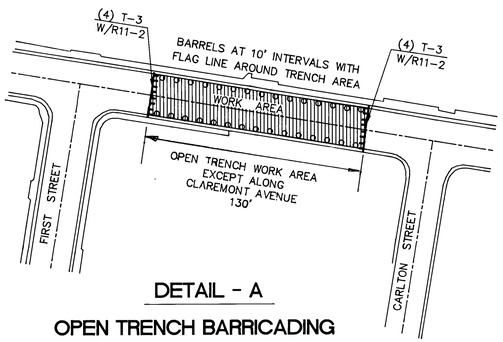
SCALE: 1" = 50'



PHASE II

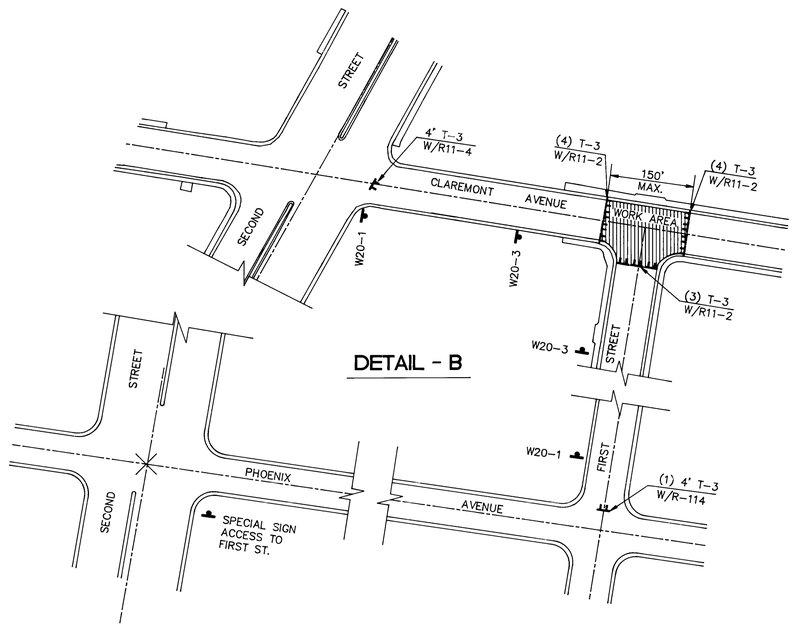
TRAFFIC CONTROL NOTES

1. 96" Strom drain construction will continue from Phase I.
   Open trench work area shall not exceed 150 ft. and continue toward Second St. Except Claremont 130 ft.
2. New trenching beyond 150 ft. shall not be allowed until previous trench is backfilled and compacted to be able to drive vehicles on It.
3. All advance warning signs shall be re-positioned as necessary as the trenched area progresses from East to West.
4. The trenched area shall end at approximately Sta. 10+50 (Claremont Ave.) for this Phase.
5. Truck access to Dixon Paper Company shall be made on Claremont Ave. from Broadway Blvd. during this Phase.
6. When trenched area reaches intersection of First St., First St. shall be closed at Claremont Ave. Access to First St. shall be made via Phoenix St. (See Detail "B")
7. Access to Carlton St. shall be made via alley located South of Claremont Ave. between First St. and Carlton St. Contractor shall blade and otherwise maintain alley during use as access to Carlton Street. Cost of this work to be included in price bid for Construction Traffic Control.

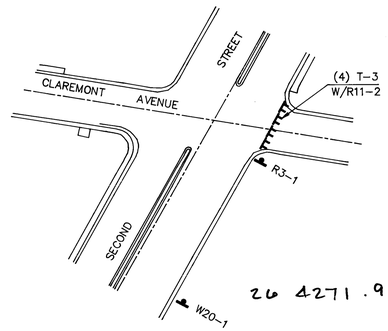


DETAIL - A

OPEN TRENCH BARRICADING



DETAIL - B



DETAIL - C

26 4271.9010695

SCANNED BY
BY LASON

Richard Frost
RECORD DRAWINGS 12/94

NOTES

AS BUILT INFORMATION
CONTRACTOR RDO DATE 12/94
WORK STAKED BY COA DATE
INSPECTIONS BY AA & R DATE
ACCEPTANCE
FIELD VERIFICATION BY COA DATE
DRAWING CORRECTED BY AA & R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. KEMMING NEW MEXICO 9764 REGISTERED PROFESSIONAL ENGINEER
8/20/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY R.L. DATE 8-92	
		DRAWN BY J.G.L. DATE 8-92	
		CHECKED BY R.L. DATE 8-92	

PHASE I CONSTRUCTION

SCANLON & ASSOCIATES INC
ALBUQUERQUE • SANTA FE
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE II**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.A. Kemming	2-18-93	WATER	N/A	
TRANSPORTATION	MA Chu	9.29.92	WASTE WATER	N/A	4-21-93
HYDROLOGY	Steve Lobeng	1.19.93			
CC	Richard Frost	1/4/93			

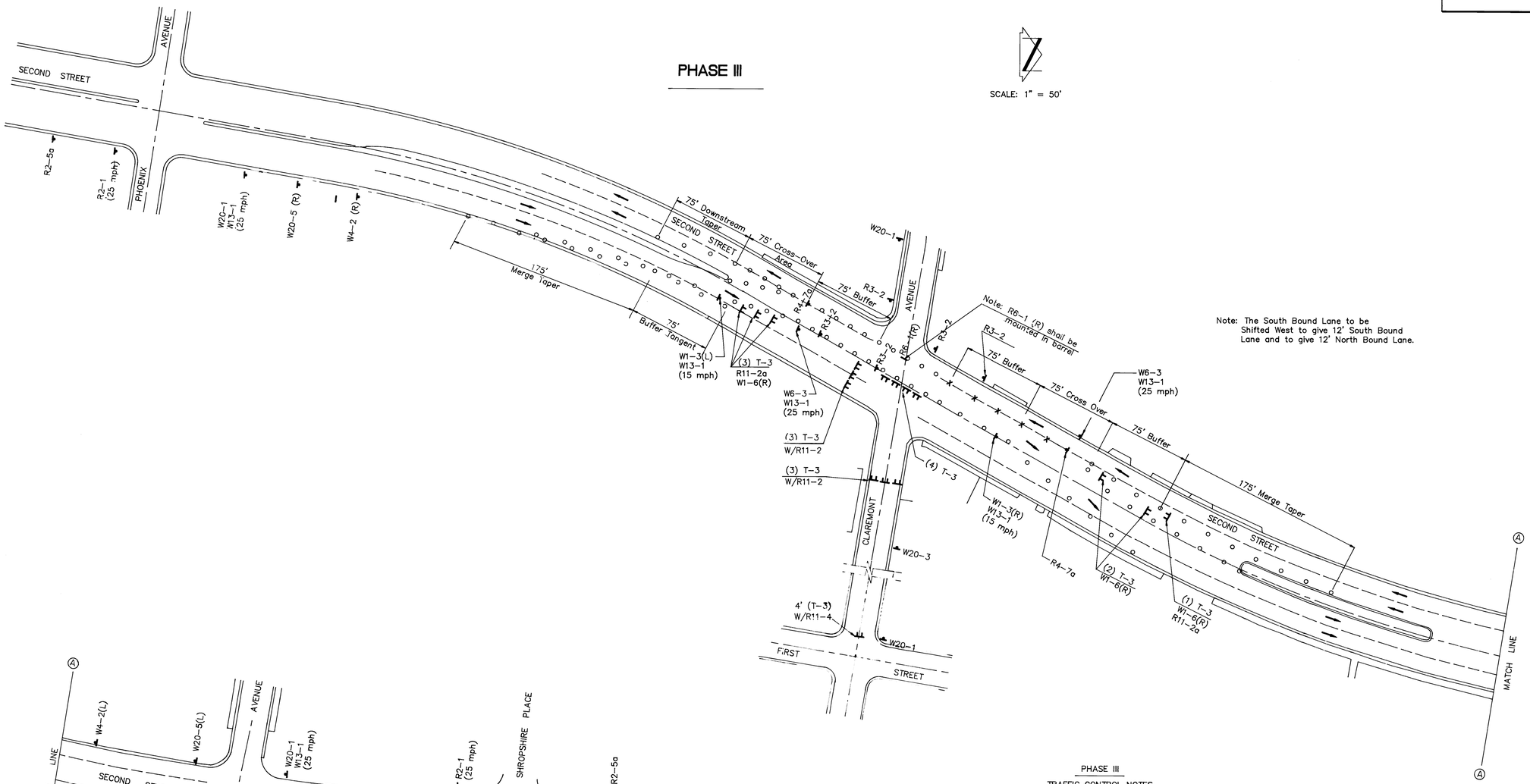
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF T - 6

PHASE-II 08/20/92 15:06:40

148413

PHASE III

SCALE: 1" = 50'



PHASE III
TRAFFIC CONTROL NOTES

1. One lane NB and SB at Claremont Ave.
2. NB traffic shall be shifted into left SB lane (West side of Second St.) South of Claremont Ave. and shifted back into NB lane (East side of Second St.) North of Claremont Ave.
3. No left turns shall be allowed at intersection of Second St. and Claremone Ave.
4. Construction on 84" Storm Drain heading NW shall stop at approximately Sta. 1+00 (Second St.)
5. Advance warning signs shall be double indicated when possible and placed at 300 ft. intervals or as field conditions permit.

NOTES

AS BUILT INFORMATION
CONTRACTOR RMC
WORK STARTED BY COA DATE 12/94
INSPECTOR'S DATE
ACCEPTANCE BY PAA:P DATE
FIELD DATE
VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA:P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERMINES NEW MEXICO 8780 REGISTERED PROFESSIONAL ENGINEER 8/18/92

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	R.L. 8-92
			J.G.L. 8-92
			R.L. 8-92

DESIGNED BY
DRAWN BY
CHECKED BY

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
PHASE III
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.P. Sparks	2-18-93	WATER	N/A	N/A
TRANSPORTATION	N/A	9-24-92	WASTE WATER		
HYDROLOGY	Stan Boberg	1-19-93			
CC	Rene Horvath	1/4/93			

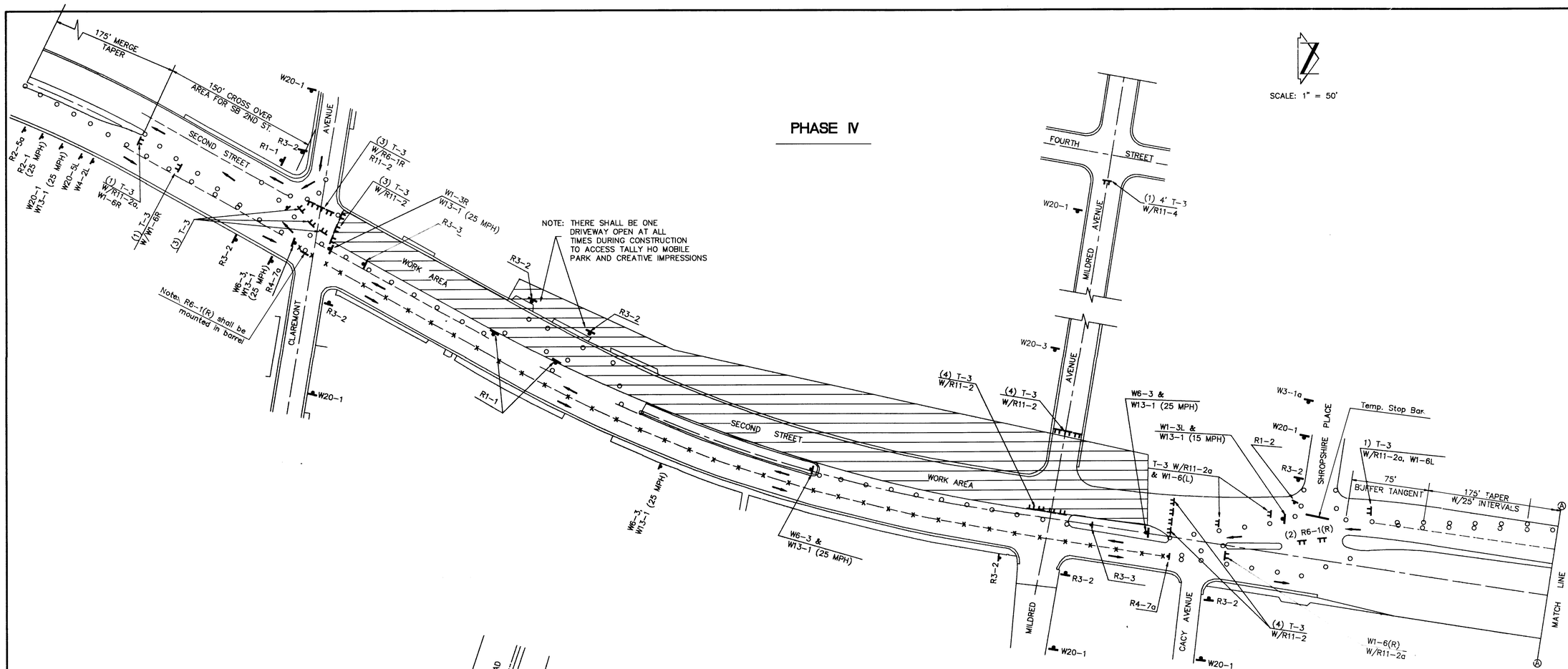
PROJECT NO. 4271.90
MAP NO. G-14, 15 / H-14, 15
SHEET OF T - 7

PHASE3 09/28/92 09:35:38

26 4271.9010795

SCANNED BY LASON

Richard Lovato
RECORD DRAWINGS 12/94



PHASE IV

TRAFFIC CONTROL NOTES

1. One lane NB and SB.
2. South bound Second St. traffic to be shifted to NB, left lane on east side of Second St. at Cacy Ave. and shifted back to west side of Second St. at median opening northside of Claremont Ave. intersection.
3. Mildred Ave. shall be closed at Second St.
4. One driveway to Tally Ho Mobile Park and Creative Impressions shall remain open during construction.
5. No left turns shall be allowed at the following intersections:
   Claremont Ave. and Second St.
   Mildred Ave. and Second St.
   Cacy Ave. and Second St.
   Shropshire Place and Second St.
6. A temporary stop bar shall be place on Shropshire Place at Second St.

PHASE I CONSTRUCTION

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 2/94
WORK STAKED BY COA DATE
INSPECTOR'S NOTES RECORDED BY AA:P DATE
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA:P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT L. YENNIES NEW MEXICO 6704 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN	R.L.	DATE 8-92
DRAWN BY	J.G.L.	DATE 8-92
CHECKED BY	R.L.	DATE 8-92

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE IV**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER		
TRANSPORTATION		9.24.97	WASTE WATER		
HYDROLOGY		1-19-93			
CC		1/19/93			

PROJECT NO. 4271.90 | MAP NO. G-14, 15 H-14, 15 | SHEET T - 8 OF

26 4271.9010895

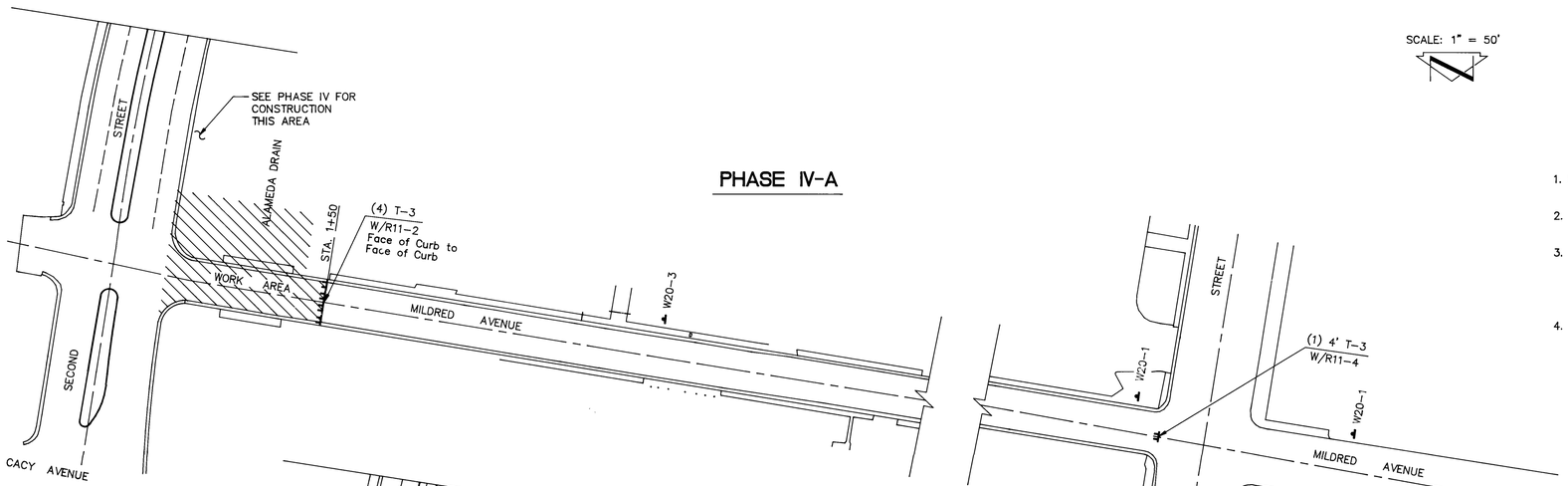
SCANNED BY BY LASON

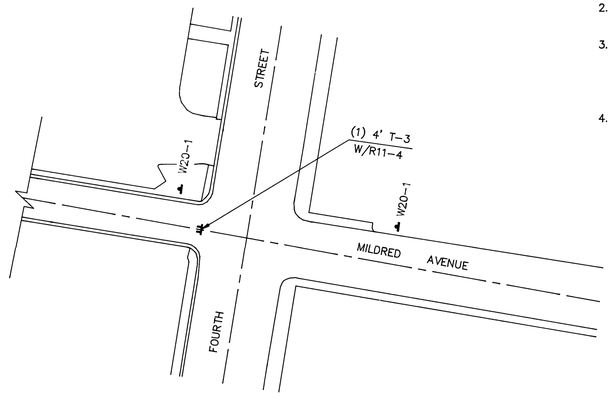
RECORD DRAWINGS 12/94

148413

SCALE: 1" = 50'

PHASE IV-A



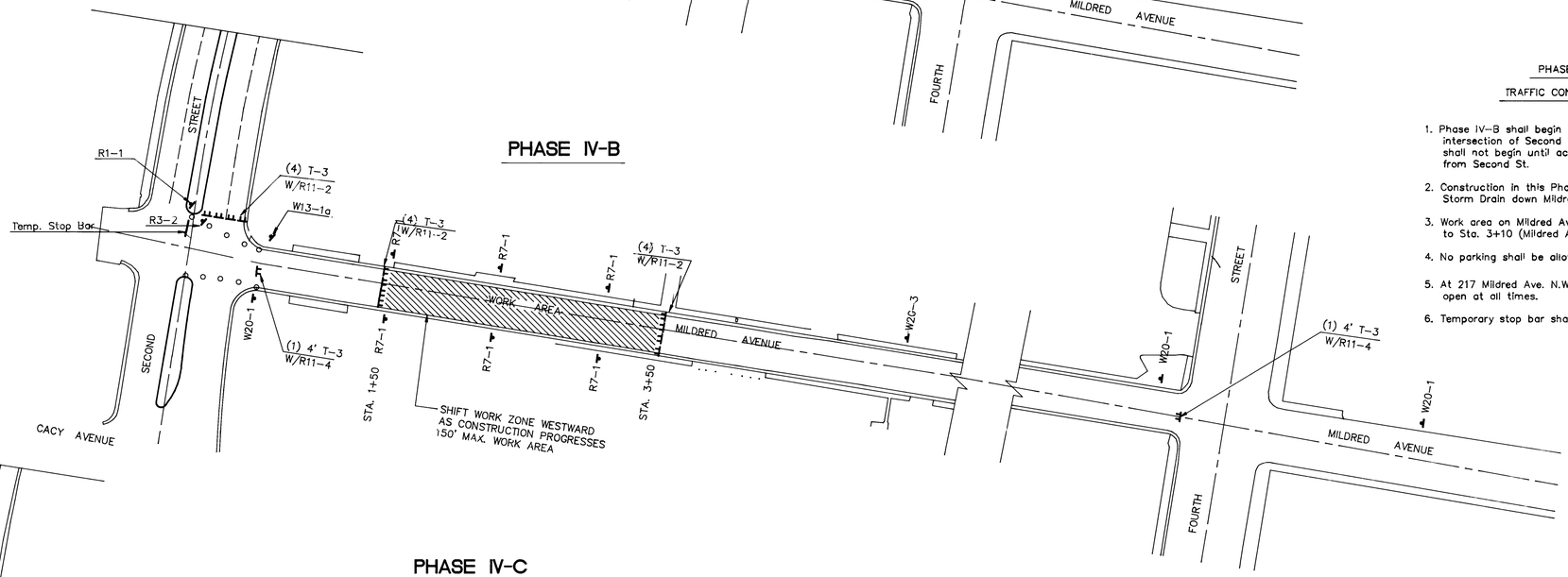


PHASE IV-A

TRAFFIC CONTROL NOTES

1. Phase IV A shall begin when Phase IV reaches the intersection of Second St. and Mildred Ave.
2. Phase IV A shall begin when Mildred Ave. is closed and the work area shall extend to Sta. 1+50 (Mildred Ave.)
3. Construction in this Phase shall include:
   2 manholes at 1+24.92 – 52.88' Lt. and at 1+40.00 – 2' Lt.
   72.84' and 49.07' of Storm Drain
   Concrete encasement at Sta. 0+85.00 – 52.88' Lt.
4. Access to residence at 201 Mildred Ave. N.W. shall be maintained at all times in this Phase.

PHASE IV-B

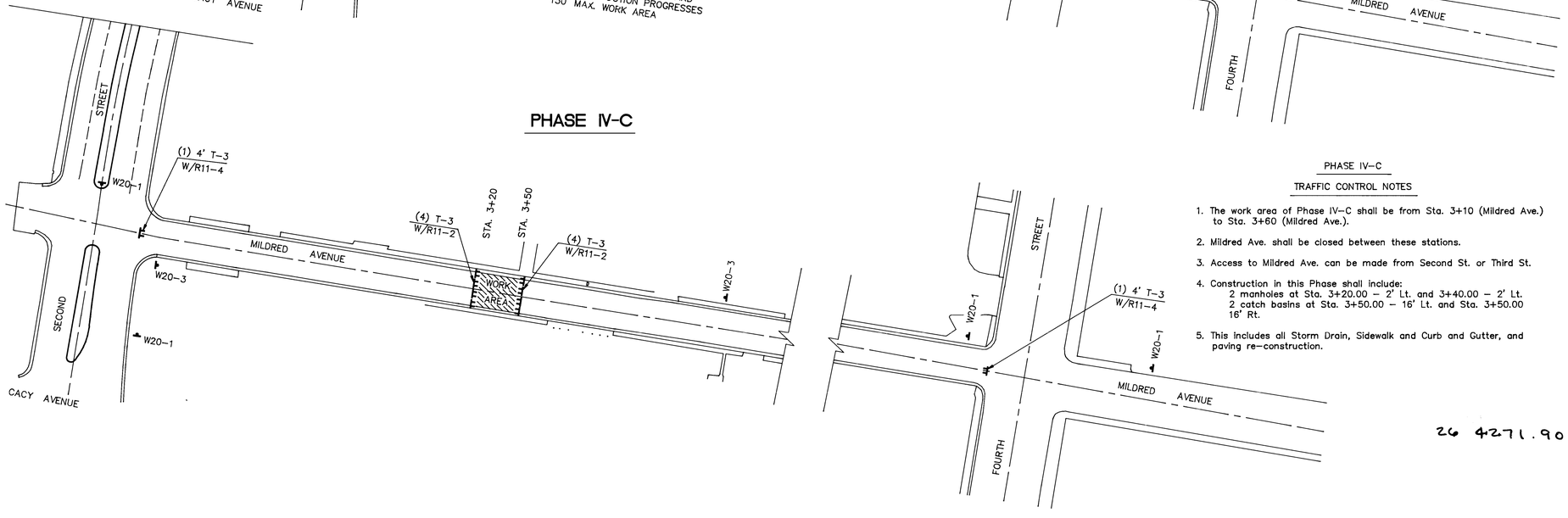


PHASE IV-B

TRAFFIC CONTROL NOTES

1. Phase IV–B shall begin only when Phase IV is past the intersection of Second St. and Mildred Ave. This Phase shall not begin until access to Mildred Ave. is possible from Second St.
2. Construction in this Phase shall consist of 166' of 30' Storm Drain down Mildred Ave. (2' Lt.).
3. Work area on Mildred Ave. shall be from Sta. 1+40 (Mildred Ave.) to Sta. 3+10 (Mildred Ave.).
4. No parking shall be allowed on Mildred Ave., in work area.
5. At 217 Mildred Ave. N.W., one driveway to residence shall remain open at all times.
6. Temporary stop bar shall be placed at Mildred Ave. and Second St.

PHASE IV-C



PHASE IV-C

TRAFFIC CONTROL NOTES

1. The work area of Phase IV–C shall be from Sta. 3+10 (Mildred Ave.) to Sta. 3+60 (Mildred Ave.).
2. Mildred Ave. shall be closed between these stations.
3. Access to Mildred Ave. can be made from Second St. or Third St.
4. Construction in this Phase shall include:
   2 manholes at Sta. 3+20.00 – 2' Lt. and 3+40.00 – 2' Lt.
   2 catch basins at Sta. 3+50.00 – 16' Lt. and Sta. 3+50.00 16' Rt.
5. This includes all Storm Drain, Sidewalk and Curb and Gutter, and paving re–construction.

26 4271.9010995

SCANNED BY BY LASON

NOTES

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STARTED BY CDA DATE 12-94
INSPECTORS DAILY REPORTS BY RAJR DATE
FIELD FENCE BY CDA DATE
VERIFICATION BY RAJR DATE
DRAWING CORRECTED BY RAJR DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERGHESE NEW MEXICO 8705 REGISTERED PROFESSIONAL ENGINEER

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN		
	DESIGNED BY	P.L.	8-92
	DRAWN BY	J.G.L.	8-92
	CHECKED BY	R.L.	8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE IV-A, B, and C**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.A. Goolsby	2-18-93	WATER	N/A MDB	9-24-92
TRANSPORTATION	N/A CHD	9-24-92	WASTE WATER		
HYDROLOGY	Stan Berry	1-19-93			
CC	Ricardo B Rojas	1-4-93			

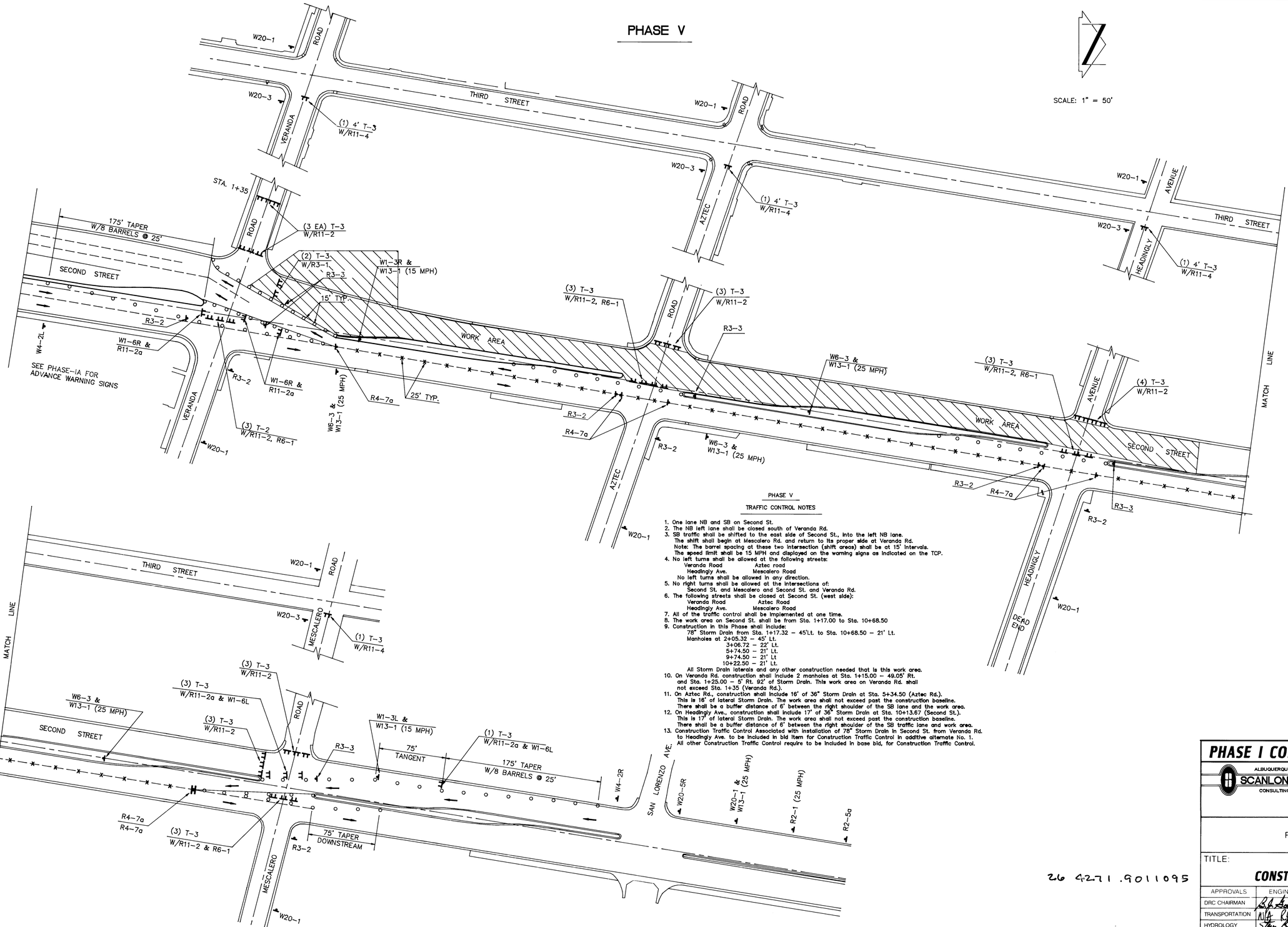
PROJECT NO. 4271.90
MAP NO. G-14, 15 / H-14, 15
SHEET T - 9 OF

PW\I-ABC 08/20/92 19:14:18

Richard Lovato
RECORD DRAWINGS 12/94

148413

PHASE V



PHASE V
TRAFFIC CONTROL NOTES

1. One lane NB and SB on Second St.
2. The NB left lane shall be closed south of Veranda Rd.
3. SB traffic shall be shifted to the east side of Second St., into the left NB lane.
   The shift shall begin at Mescalero Rd. and return to its proper side at Veranda Rd.
   Note: The barrel spacing at these two intersection (shift areas) shall be at 15' intervals.
   The speed limit shall be 15 MPH and displayed on the warning signs as indicated on the TCP.
4. No left turns shall be allowed at the following streets:
   Veranda Road — Aztec road
   Headingly Ave. — Mescalero Road
   No left turns shall be allowed in any direction.
5. No right turns shall be allowed at the intersections of:
   Second St. and Mescalero and Second St. and Veranda Rd.
6. The following streets shall be closed at Second St. (west side):
   Veranda Road — Aztec Road
   Headingly Ave. — Mescalero Road
7. All of the traffic control shall be implemented at one time.
8. The work area on Second St. shall be from Sta. 1+17.00 to Sta. 10+68.50
9. Construction in this Phase shall include:
   78" Storm Drain from Sta. 1+17.32 — 45'Lt. to Sta. 10+68.50 — 21' Lt.
   Manholes at 2+05.32 — 45' Lt.
   3+06.72 — 22' Lt.
   5+74.50 — 21' Lt.
   9+74.50 — 21' Lt
   10+22.50 — 21' Lt.
   All Storm Drain laterals and any other construction needed that is this work area.
10. On Veranda Rd. construction shall include 2 manholes at Sta. 1+15.00 — 49.05' Rt. and Sta. 1+25.00 — 5' Rt. 92' of Storm Drain. This work area on Veranda Rd. shall not exceed Sta. 1+35 (Veranda Rd.).
11. On Aztec Rd., construction shall include 16' of 36" Storm Drain at Sta. 5+34.50 (Aztec Rd.). This is 16' of lateral Storm Drain. The work area shall not exceed past the construction baseline. There shall be a buffer distance of 6' between the right shoulder of the SB lane and the work area.
12. On Headingly Ave., construction shall include 17' of 36" Storm Drain at Sta. 10+13.67 (Second St.). This is 17' of lateral Storm Drain. The work area shall not exceed past the construction baseline. There shall be a buffer distance of 6' between the right shoulder of the SB traffic lane and work area.
13. Construction Traffic Control Associated with installation of 78" Storm Drain in Second St. from Veranda Rd. to Headingly Ave. to be included in bid item for Construction Traffic Control in additive alternate No. 1. All other Construction Traffic Control require to be included in base bid, for Construction Traffic Control.

26 4271.9011095

SCANNED BY BY LASON

Richard Swatt
RECORD DRAWINGS 12/94

NOTES

AS BUILT INFORMATION
CONTRACTOR RMA DATE 12/94
WORK STAKED BY COA DATE
INSPECTORS FIELD COMPLIANCE BY AA:P DATE
FIELD VERIFICATION BY COA DATE
AS-BUILTS CORRECTED BY AA:P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

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

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 8-92	R.L.	DESIGNED BY
	DATE 8-92	J.G.L.	DRAWN BY
	DATE 8-92	R.L.	CHECKED BY

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE V**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION	N/A CHO	9-24-92	WASTE WATER	N/A BOB	9-24-92
HYDROLOGY	Stan Lyons	1-19-93			
cc	Ruenda Taylor	1/4/93			

PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET OF T - 10

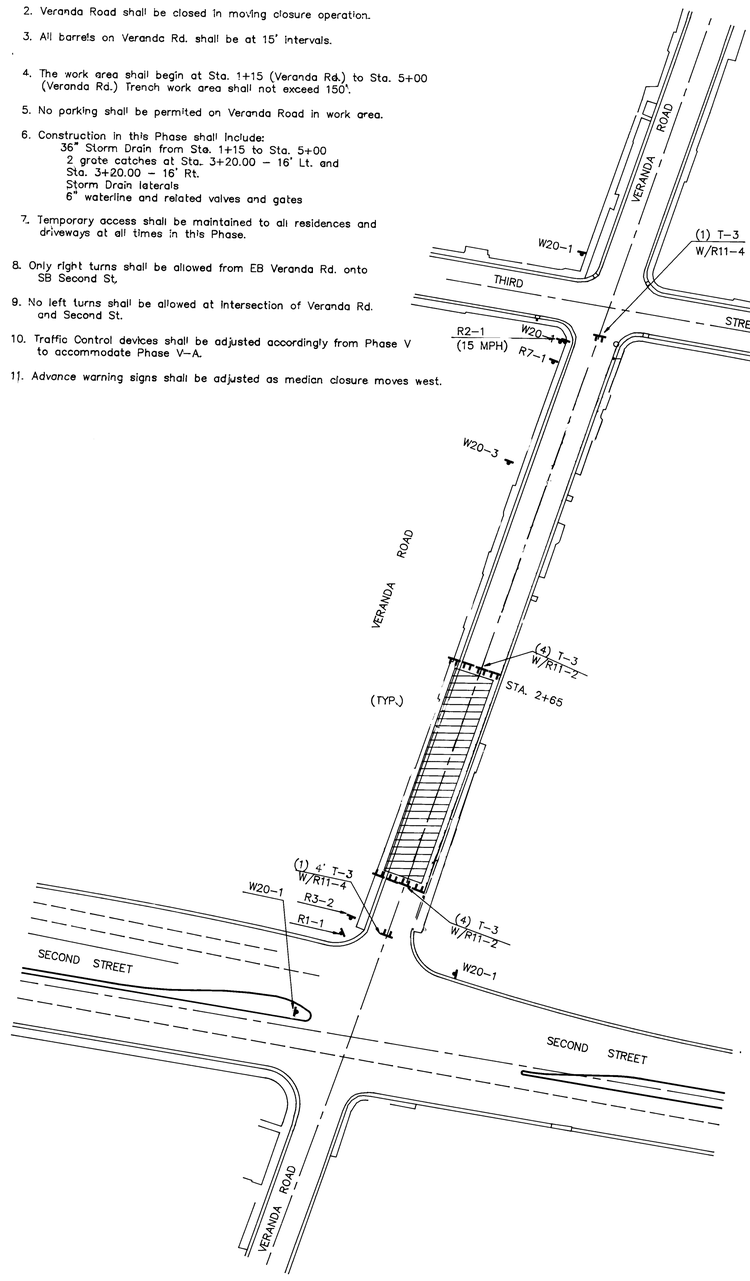
PHASE-V 08/21/92 13:49:24

148413

PHASE V–A

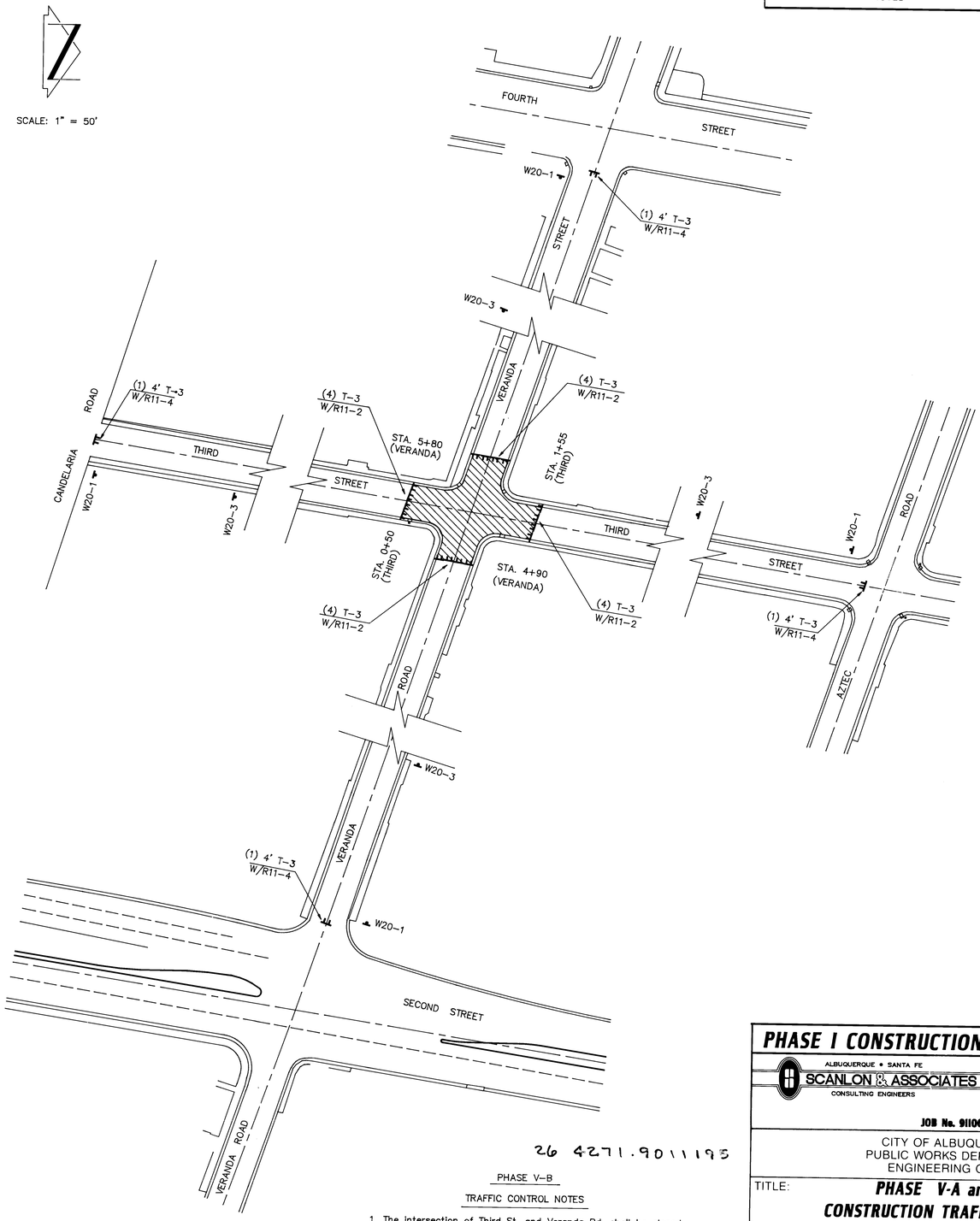
TRAFFIC CONTROL NOTES

1. No work in Veranda Rd. shall begin until Phase V is north of Veranda Rd. and access is open to Veranda Rd. from Second St.
2. Veranda Road shall be closed in moving closure operation.
3. All barrels on Veranda Rd. shall be at 15' intervals.
4. The work area shall begin at Sta. 1+15 (Veranda Rd.) to Sta. 5+00 (Veranda Rd.) Trench work area shall not exceed 150'.
5. No parking shall be permited on Veranda Road in work area.
6. Construction in this Phase shall include:
   36" Storm Drain from Sta. 1+15 to Sta. 5+00
   2 grate catches at Sta. 3+20.00 – 16' Lt. and Sta. 3+20.00 – 16' Rt.
   Storm Drain laterals
   6" waterline and related valves and gates
7. Temporary access shall be maintained to all residences and driveways at all times in this Phase.
8. Only right turns shall be allowed from EB Veranda Rd. onto SB Second St.
9. No left turns shall be allowed at intersection of Veranda Rd. and Second St.
10. Traffic Control devices shall be adjusted accordingly from Phase V to accommodate Phase V–A.
11. Advance warning signs shall be adjusted as median closure moves west.



PHASE V–A

SCALE: 1" = 50'



PHASE V–B

PHASE V–B

TRAFFIC CONTROL NOTES

1. The intersection of Third St. and Veranda Rd. shall be closed.
2. The work and closed areas shall be from Sta. 0+50 (Third St.) to Sta. 1+55 (Third St.) on Third St. Sta. 4+90 (Veranda Rd.) to Sta. 5+80 (Veranda Rd.) on Veranda Rd.
3. All construction within these limits shall be completed in this Phase.

26 4271.90 11195

SCANNED BY BY LASON

NOTES

AS BUILT INFORMATION
CONTRACTOR RMA
WORK STAKED BY
INSPECTED BY
ACCEPTANCE BY AAP DATE 12/94
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AAP DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VERMEES 8706 REGISTERED PROFESSIONAL ENGINEER 8-28-92

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN	R.L.	8-92
	DESIGNED BY		DATE
	DRAWN BY	J.G.L.	8-92
	CHECKED BY	R.L.	8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE V-A and V-B CONSTRUCTION TRAFFIC CONTROL**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		2-18-93	WATER	N/A MOB 1-24-93	
TRANSPORTATION	N/A RHD	9-24-92	WASTE WATER		
HYDROLOGY		1-19-93			
CC		1/4/93			

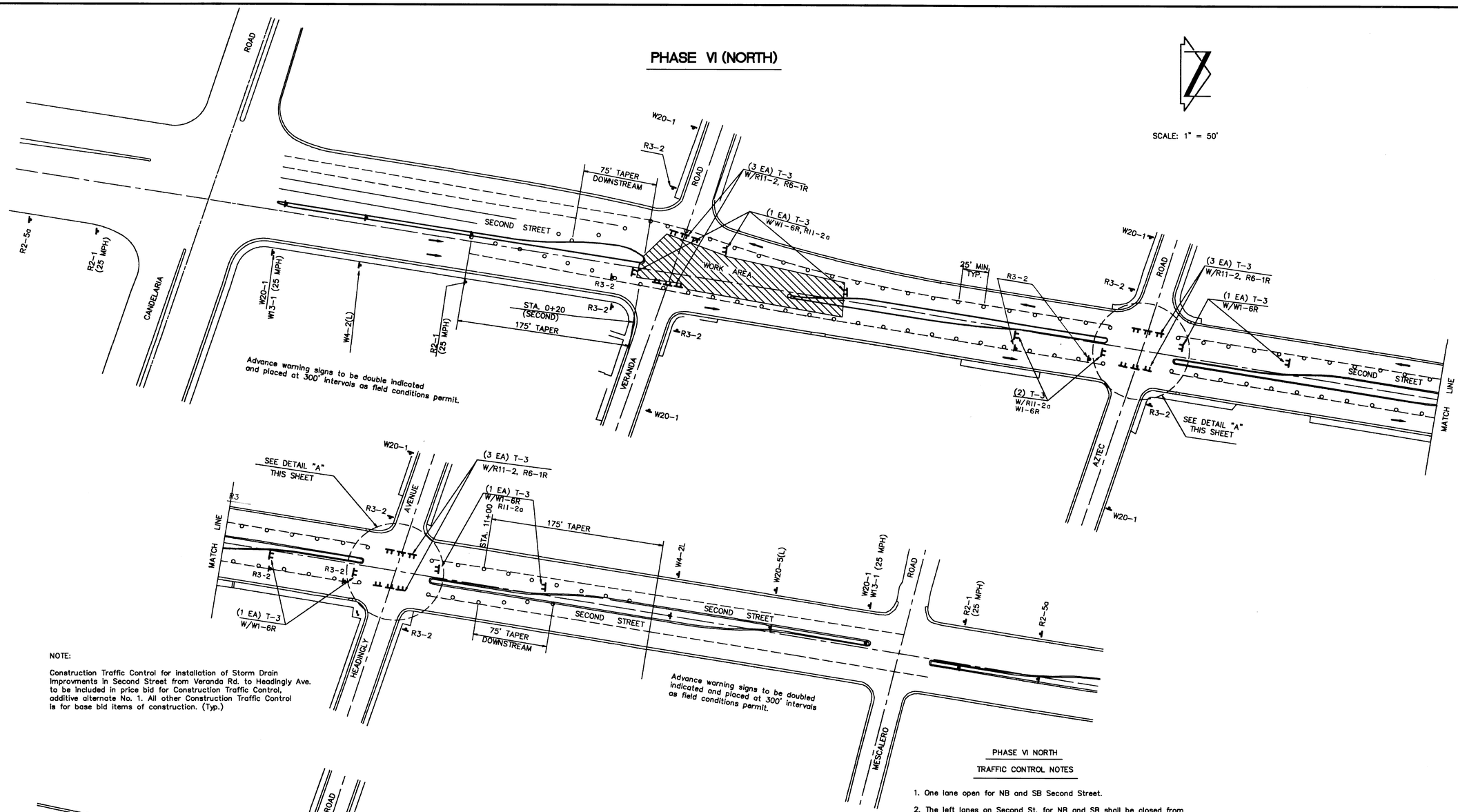
PROJECT NO. 4271.90
MAP NO. H-14, 15
SHEET OF T - 11

PH-V-AB 08/24/92 07:27:09

Richard Lewis
RECORD DRAWINGS 12/94

PHASE VI (NORTH)

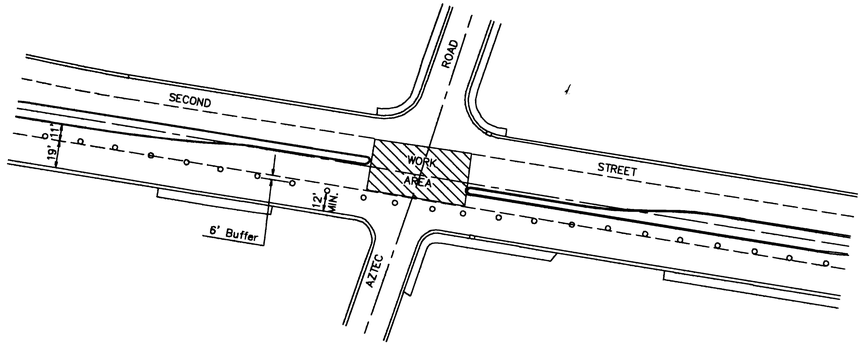
SCALE: 1" = 50'



Advance warning signs to be double indicated and placed at 300' intervals as field conditions permit.

NOTE:

Construction Traffic Control for installation of Storm Drain Improvments in Second Street from Veranda Rd. to Headingly Ave. to be included in price bid for Construction Traffic Control, additive alternate No. 1. All other Construction Traffic Control is for base bid items of construction. (Typ.)



DETAIL "A"

PHASE VI NORTH

TRAFFIC CONTROL NOTES

1. One lane open for NB and SB Second Street.
2. The left lanes on Second St. for NB and SB shall be closed from Sta. 0+20 (Second St.) to Sta. 11+00 (Second St.).
3. No left turns shall be allowed in any direction at Veranda Rd., Aztec Rd. or at Headingly Ave.
4. The re-construction of median at Veranda Rd. shall be done in this Phase. On Aztec Rd., continuation of work on 30" Storm Drain at Sta. 5+34 (Second St.), this work area shall not proceed past the construction baseline. The NB traffic lane shall be shifted east to make a 12' lane at Aztec Rd., (See detail VI-A North). The manhole at Sta. 5+34.50 – 9.02' Rt. (Second St.) shall also be constructed in this Phase.
   On Headingly Ave., continuation of work on 36" Storm Drain at Sta. 10+14 (Second St.). This work area shall not proceed past the construction baseline. The NB traffic lane shall be shifted east to make a 12' lane at Headingly Ave. (See detail VI-A North)
5. There shall be a 6' buffer zone between the left shoulder of the NB traffic lane and the work areas at Aztec Rd. and Headingly Ave.

26 4271.90 11295

SCANNED BY
BY LASON

Richard Smith
RECORD DRAWINGS 12/94

AS BUILT INFORMATION
CONTRACTOR RMCI
STAKED BY CDA DATE 12-94
INSPECTOR'S FIELD MAKE BY AA'S DATE
VERIFICATION BY CDA DATE
DRAWINGS BY AA'S DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. YEMMINGS NEW MEXICO 8706 REGISTERED PROFESSIONAL ENGINEER 12/29/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DESIGNED BY DATE
			DRAWN BY DATE
			CHECKED BY DATE

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
PHASE VI (NORTH)
CONSTRUCTION TRAFFIC CONTROL

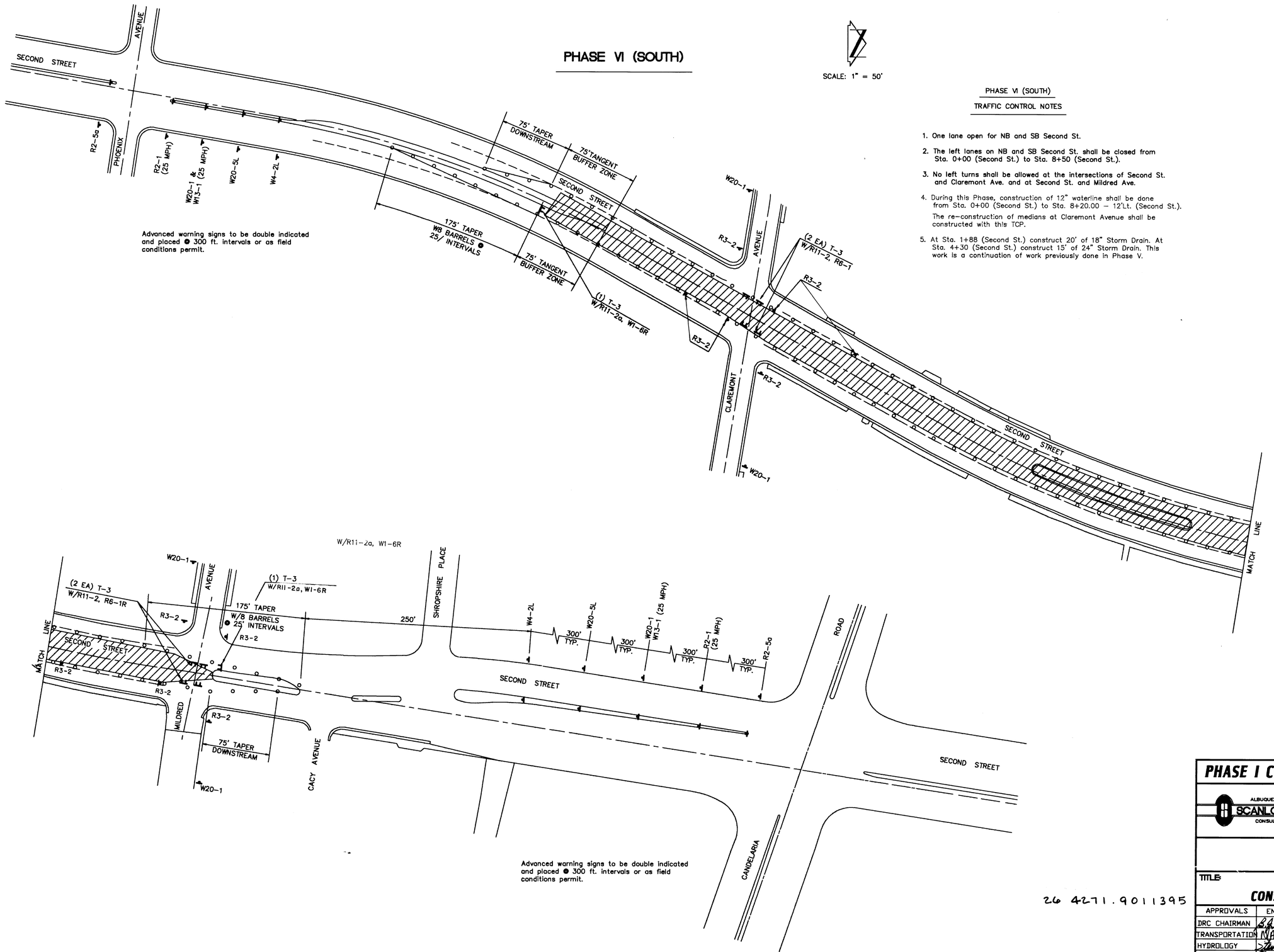
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	[signature]	2-24-93
TRANSPORTATION	[signature]	9.24.92	WASTE WATER		
HYDROLOGY	[signature]	1/19/93			
CC	[signature]	1/4/93			

PROJECT NO.	MAP NO.	SHEET	OF
4271.90	G-14, 15 H-14, 15	T - 12	

A-1-40 08/02 13:15:58

PHASE VI (SOUTH)

SCALE: 1" = 50'



Advanced warning signs to be double indicated and placed @ 300 ft. intervals or as field conditions permit.

Advanced warning signs to be double indicated and placed @ 300 ft. intervals or as field conditions permit.

PHASE VI (SOUTH)

TRAFFIC CONTROL NOTES

1. One lane open for NB and SB Second St.
2. The left lanes on NB and SB Second St. shall be closed from Sta. 0+00 (Second St.) to Sta. 8+50 (Second St.).
3. No left turns shall be allowed at the intersections of Second St. and Claremont Ave. and at Second St. and Mildred Ave.
4. During this Phase, construction of 12" waterline shall be done from Sta. 0+00 (Second St.) to Sta. 8+20.00 – 12'Lt. (Second St.). The re-construction of medians at Claremont Avenue shall be constructed with this TCP.
5. At Sta. 1+88 (Second St.) construct 20' of 18" Storm Drain. At Sta. 4+30 (Second St.) construct 15' of 24" Storm Drain. This work is a continuation of work previously done in Phase V.

AS BUILT INFORMATION
CONTRACTOR Rino DATE 12/94
WORK STAKED BY COA
INSPECTED BY AA-R DATE
INSPECTOR'S ASSISTANCE BY
FIELD VERIFICATION BY COA DATE
DRAWINGS CORRECTED BY AA-R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. VENNING'S NEW MEXICO 9706 REGISTERED PROFESSIONAL ENGINEER 6/30/92

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE
			DESIGNED BY
			DRAWN BY
			CHECKED BY

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB No. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE VI (SOUTH)**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A [signature]	
TRANSPORTATION	N/A [signature]	9.24.92	WASTE WATER	N/A [signature]	
HYDROLOGY	[signature]	1-19-93			
CC	[signature]	1/4/93			

PROJECT NO. 4271.90 | MAP NO. G-14, 15 H-14, 15 | SHEET T - 13 OF

26 4271.9011395

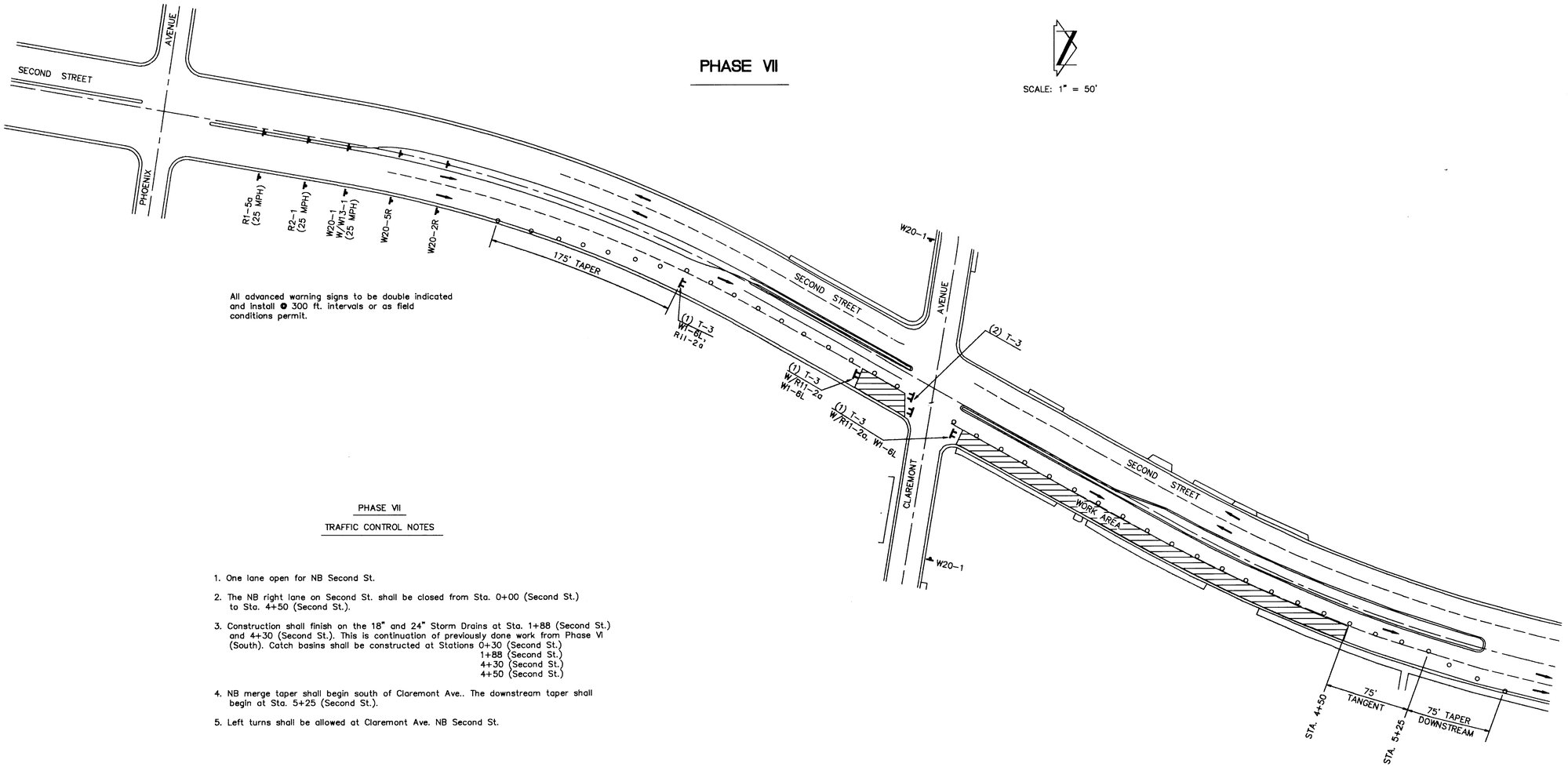
SCANNED BY
~~BY LASON~~

Richard Smith
RECORD DRAWINGS 12/94

PH-II-SD 08/27/92 04:37:16

PHASE VII

SCALE: 1" = 50'



PHASE VII

TRAFFIC CONTROL NOTES

1. One lane open for NB Second St.
2. The NB right lane on Second St. shall be closed from Sta. 0+00 (Second St.) to Sta. 4+50 (Second St.).
3. Construction shall finish on the 18" and 24" Storm Drains at Sta. 1+88 (Second St.) and 4+30 (Second St.). This is continuation of previously done work from Phase VI (South). Catch basins shall be constructed at Stations 0+30 (Second St.)
   1+88 (Second St.)
   4+30 (Second St.)
   4+50 (Second St.)
4. NB merge taper shall begin south of Claremont Ave.. The downstream taper shall begin at Sta. 5+25 (Second St.).
5. Left turns shall be allowed at Claremont Ave. NB Second St.

AS BUILT INFORMATION
CONTRACTOR RMCI
WORK STAKED BY COA DATE 3/94
INSPECTIONS PERFORMED BY AA:P DATE
FIELD VERIFICATION BY COA DATE
MARKINGS CORRECTED BY AA:P DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
SCOTT A. WEHMEYER NEW MEXICO 9078 REGISTERED PROFESSIONAL ENGINEER 6/29/92

NO.	DATE	REMARKS
		REVISIONS
		DESIGN

DESIGNED BY R.L. DATE 8-92
DRAWN BY J.G.L. DATE 8-92
CHECKED BY R.L. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE VII**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	S.S. Scanlon	2-18-93	WATER		
TRANSPORTATION	S.A. Otto	9.24.92	WASTE WATER		
HYDROLOGY	Steve Gabay	1.19.93			
CC	Ricardo Reyes	1/A/93			

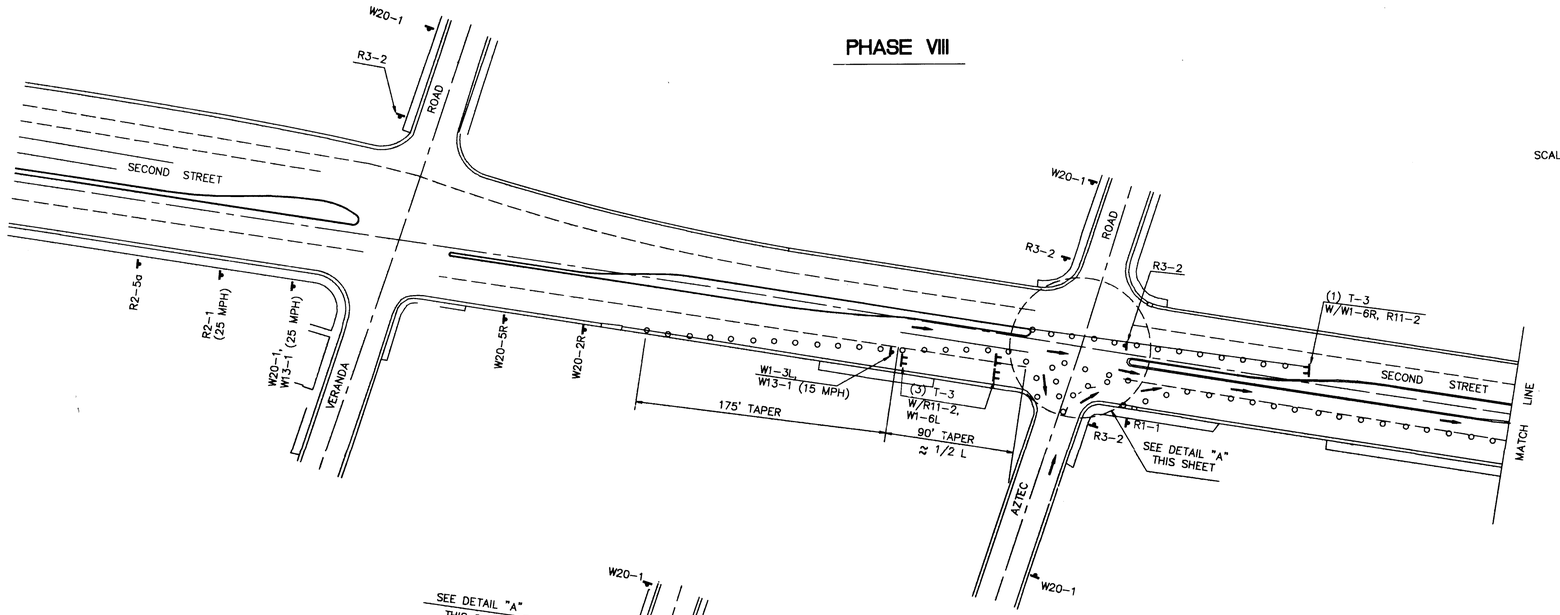
PROJECT NO. 4271.90
MAP NO. G-14, 15 H-14, 15
SHEET T - 14 OF

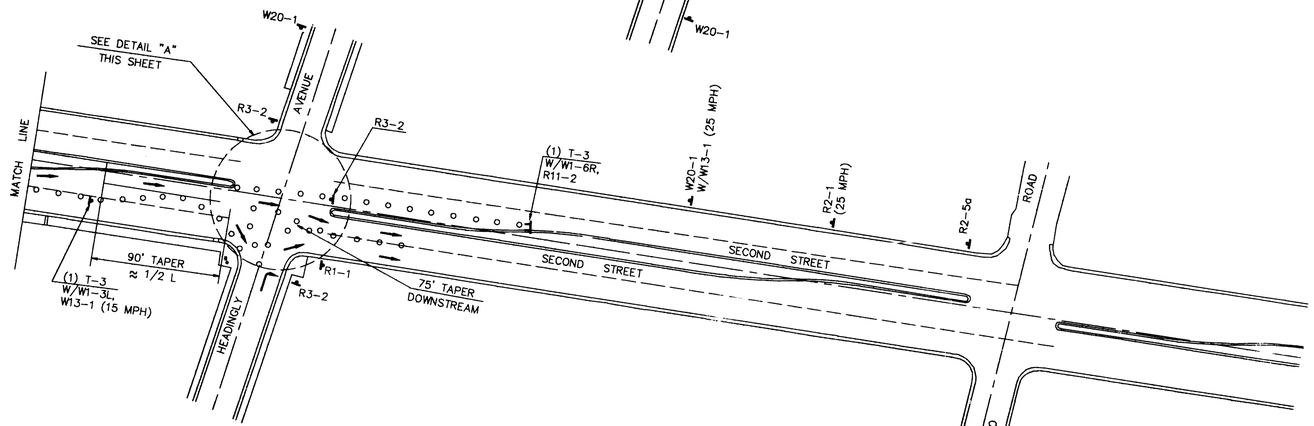
26 4271.9011495

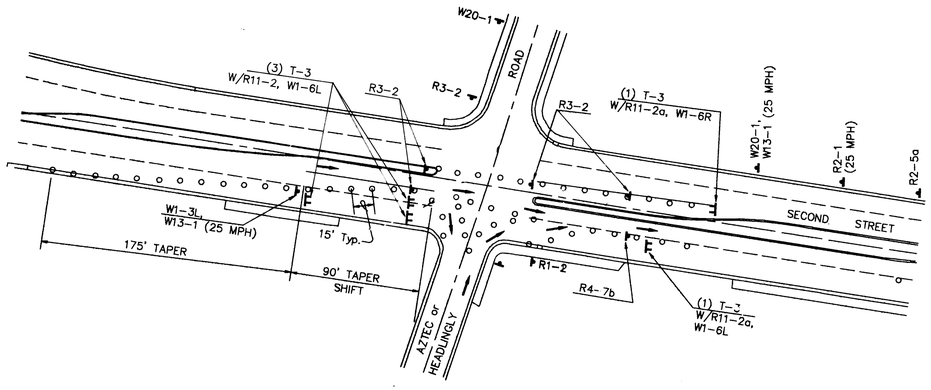
SCANNED BY BY LASON

Richard Lovato
RECORD DRAWINGS 12/94

PHASE VIII







DETAIL "A"

NOTE: Construction Traffic Control for installation of Storm Drain Improvements in Second St. from Veranda Rd. to Headingly Ave. to be included in price bid for Construction Traffic Control additive alternate No. 1.

SCALE: 1" = 50'

PHASE VIII

TRAFFIC CONTROL NOTES

1. The right lane on NB Second St. shall be closed from south of Aztec Rd. to north of Headingly Ave.
2. No left turns shall be allowed in any direction at the intersections of Second St. and Aztec Rd. and Second St. and Headingly Ave.
3. The left turnbays for SB Second St. at Aztec Rd. and Headingly Ave. shall be closed.
4. The NB traffic lane shall shift into NB left turnbays and meander around work areas and shift back into NB left lane when past work areas, see Detail VIII-A. This shift shall take place at Aztec Rd. and at Headingly Ave. The speed limit in these shifting areas shall be reduced to 15 MPH and indicated on the warning signs. The barrel spacing shall be at 15' intervals in the two shifting areas.
5. Access to Aztec Rd. and Headingly Ave. shall remain open at all times in this Phase. Traffic control will be adjusted in the field accordingly in order to accomplish this.
6. On Aztec Rd., completion of work on 30" Storm Drain and catch basin at Sta. 5+57 (Second St.).
7. On Headingly Ave., completion of 36" Storm Drain and 18" Storm Drain. Complection of work on manhole at Sta. 10+14.50 – 25.88' Rt. (Second St.).

Zia# 4271.90.11595

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

AS BUILT INFORMATION
CONTRACTOR RMCI DATE 12/94
WORK STAKED BY COA DATE
INSPECTIONS MADE BY AA; R DATE
FIELD REVISIONS BY COA DATE
DRAWINGS CORRECTED BY AA; R DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

ENGINEER'S SEAL
SCOTT A. HENNINGS
NEW MEXICO
8/29/12

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY A.L. DATE 8-92
DRAWN BY J.G.L. DATE 8-92
CHECKED BY R.L. DATE 8-92

PHASE I CONSTRUCTION

ALBUQUERQUE • SANTA FE
SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS
JOB NO. 91106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PHASE VIII**
CONSTRUCTION TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[signature]	2-18-93	WATER	N/A [signature]	9-24-92
TRANSPORTATION	N/A [signature]	9-24-92	WASTE WATER		
HYDROLOGY	[signature]	1-9-93			
CC	[signature]	1/4/93			

PROJECT NO. 4271.90 | MAP NO. G-14, 15 H-14, 15 | SHEET T - 15 OF

SCANNED BY BY LASON

RECORD DRAWINGS 12/94