HIGHLAND DETENTION BASIN SYSTEM PHASE I

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HIGHLAND 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, COUNTY OF BERNALILLO, STATE OF NEW MEXICO, HAS CAUSED TO BE LOCATED BY A QUALIFIED REGISTERED ENGINEER THE HIGHLAND DETENTION BASIN AS HEREINAFTER DESCRIBED AND INDICATED, HEREBY MAKES THESE SEVERAL STATEMENTS RELATIVE THERE 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/OUTLET STRUCTURE IS SITUATED WITHIN THE SW 1/4, SE 1/4 OF SECTION 23, T 10 N, R 3 E, N.M.P.M., ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AND BEARS NEW MEXICO STATE PLANE COORDINATES, CENTRAL ZONE OF X = 397,572, Y = 1,483,054.

STATE OF NEW MEXICO)
:ss
COUNTY OF BERNALILLO)

I, C. DWAYNE SHEPPARD, ON BEHALF OF THE CITY OF ALBUQUERQUE, BEING FIRST DULY SWORN, UPON MY OATH, STATE THAT I HAVE READ AND EXAMINED THE ACCOMPANYING MAPS AND STATEMENTS (MAPS AND STATEMENTS CONSISTING OF 27 SHEETS) AND KNOW THE CONTENTS THEREOF AND REPRESENTATIONS THEREON, AND STATE THAT THE SAME ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

OFFICIAL SEAL
KAREN M. ACEVES
NOTARY PUBLIC - STATE OF NEW MEXICO
My Commission Expires _____

C. D. Sheppard
AUTHORITY CLAIMANT

SUBSCRIBED AND SWORN TO BEFORE ME THIS 14th DAY OF March, 1985.

Karen M. Aceves
NOTARY PUBLIC

MY COMMISSION EXPIRES:
February 24, 1989

STATE OF NEW MEXICO)
:ss
COUNTY OF BERNALILLO)

I, CLINTON DODGE, STATE THAT I AM A REGISTERED PROFESSIONAL ENGINEER, NO. 6410, QUALIFIED IN CIVIL ENGINEERING AND THAT THE ACCOMPANYING PLANS WERE PREPARED BY ME OR UNDER MY SUPERVISION AND ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CLINTON DODGE
NEW MEXICO REGISTERED
PROFESSIONAL ENGINEER
NO. 6410

SUBSCRIBED AND SWORN TO BEFORE ME THIS 25th DAY OF February, 19 85.

NOTARY PUBLIC

MY COMMISSION EXPIRES:
January 31, 1989

STATE OF NEW MEXICO)
:ss
COUNTY OF BERNALILLO)

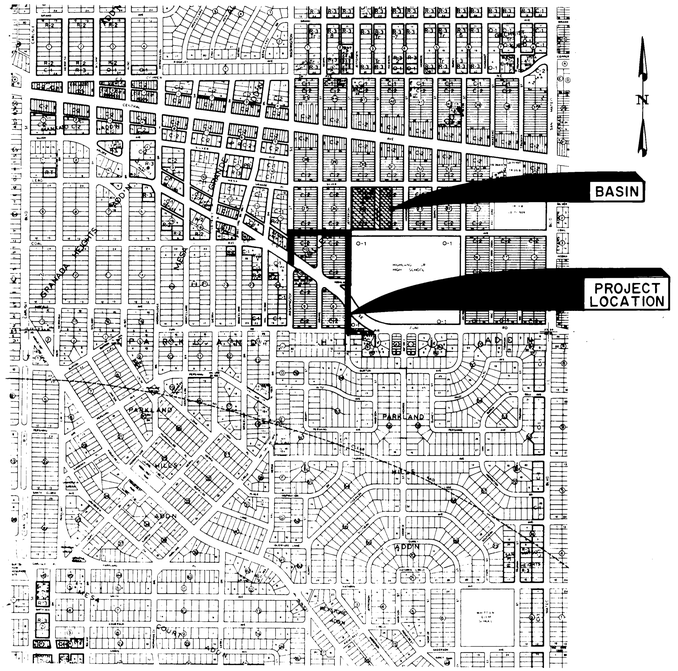
I HEREBY CERTIFY THAT THE ACCOMPANYING PLANS AND SPECIFICATIONS HAVE BEEN DULY EXAMINED BY ME AND APPROVED AS TO FORM AND CONTENT, AND WERE DULY ACCEPTED FOR FILING ON THE ____ DAY OF _____, 19__.

STATE ENGINEER

W. J. McNamara
12-23-85

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed

L-H PROJECT NO. 1871.21



VICINITY MAP
SCALE: 1" = 800' (APPOXIMATE)

DETENTION BASIN PROPERTIES

Drainage Area Size (100 year)	2.0 sq.mi.
Drainage Area Size (PMF)	2.1 sq.mi.
100 Year Design Rainfall	2.4" in 6 hrs.
100 Year Peak Inflow	413 cfs
PMP Design Rainfall	11.5" in 1 hr.
PMF Peak Inflow	6863 cfs
Hazard Classification	C
Maximum Height of Fill Above Natural Ground	none
Length of Retaining Wall	1250 Ft.
Top of Wall Elevation	5243.5
Location of Emergency Spillway (Weir)	West & North Sides of Basin
Length of Spillway Crest	817 Ft.
Top of Weir Width	10 ft.
Slope of upstream Face	Varies, 4:1 min.
Slope of downstream face	Horizontal (approx. 2%)
Top of Spillway Elevation	5241.0
Cross Sectional Area of Spillway @ Max.Flow	1722.5 Sq.Ft.
Discharge Capacity of Emergency Spillway	6950 cfs
Outlet Conduit Size	78" RCP with 42" RCP control*
Outlet Invert Elevation	5221.05 (42" control elevation)
Slope of Outlet Pipe	0.0024
Maximum Outlet Discharge Capacity	96 cfs
Time to Empty Detention Reservoir	4.3 hrs.
Surface Area @ Max. WS Elev. in Basin	3.4 AC.
Storage Capacity	23 AF

* The 42" RCP discharges into the existing Campus Wash Storm Drain. The entire discharge system is in hydraulic balance with the Campus Wash System.

1759-0185

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE

APPROVAL OF REVISIONS

LEEDSHILL-HERKENHOFF, INC.
Copper Square, 500 Copper Ave. N.W.
P.O. Box 1217
Albuquerque, New Mexico 87103
(505) 247-0294

FILING MAP, COVER SHEET AND MISCELLANEOUS DATA

APPROVED FOR CONSTRUCTION

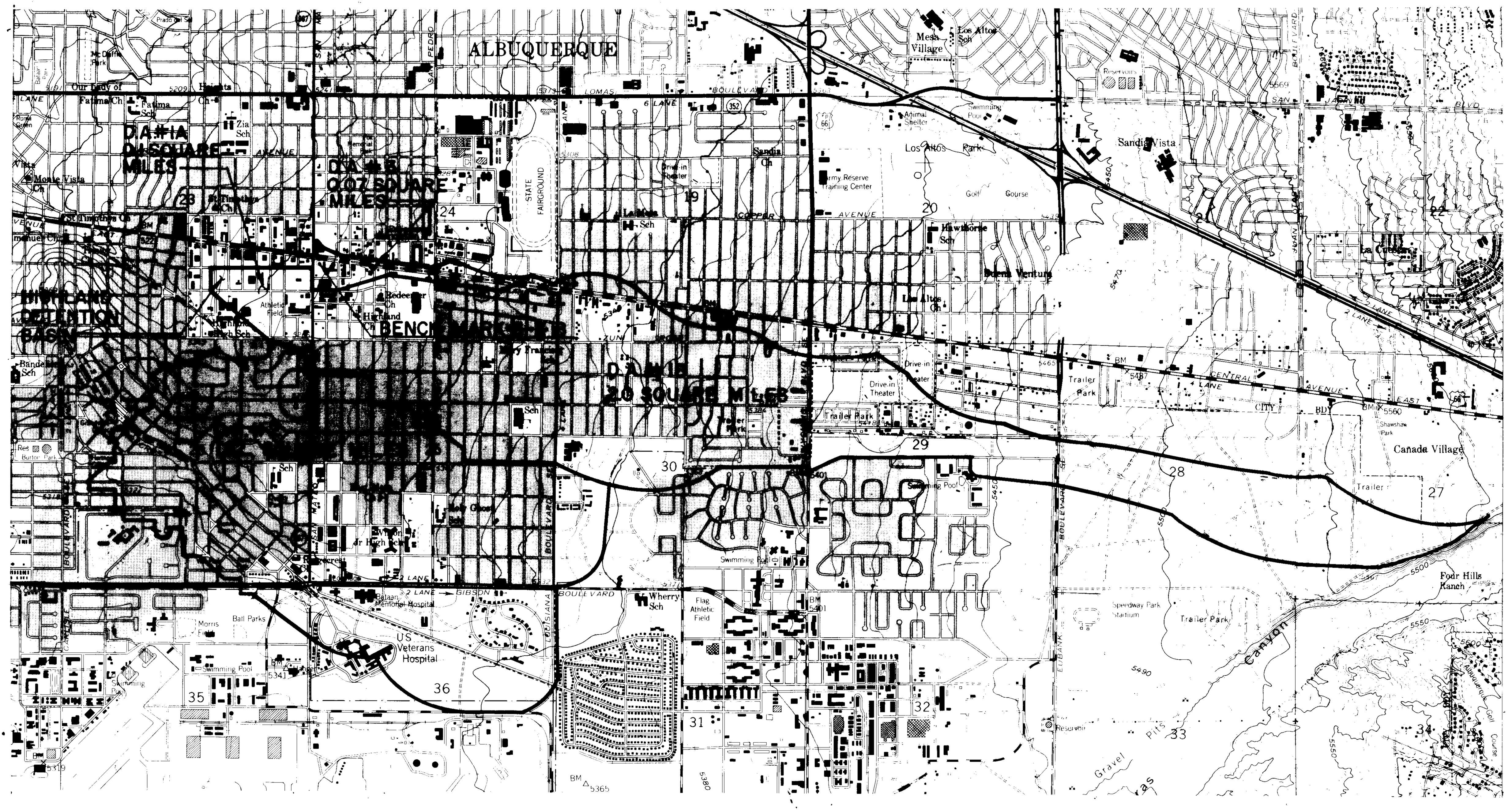
C. D. Sheppard C.E.

PROJECT NO. MDD PROJECT 1759

SHEET 1 OF 27

AF 22440A

83596



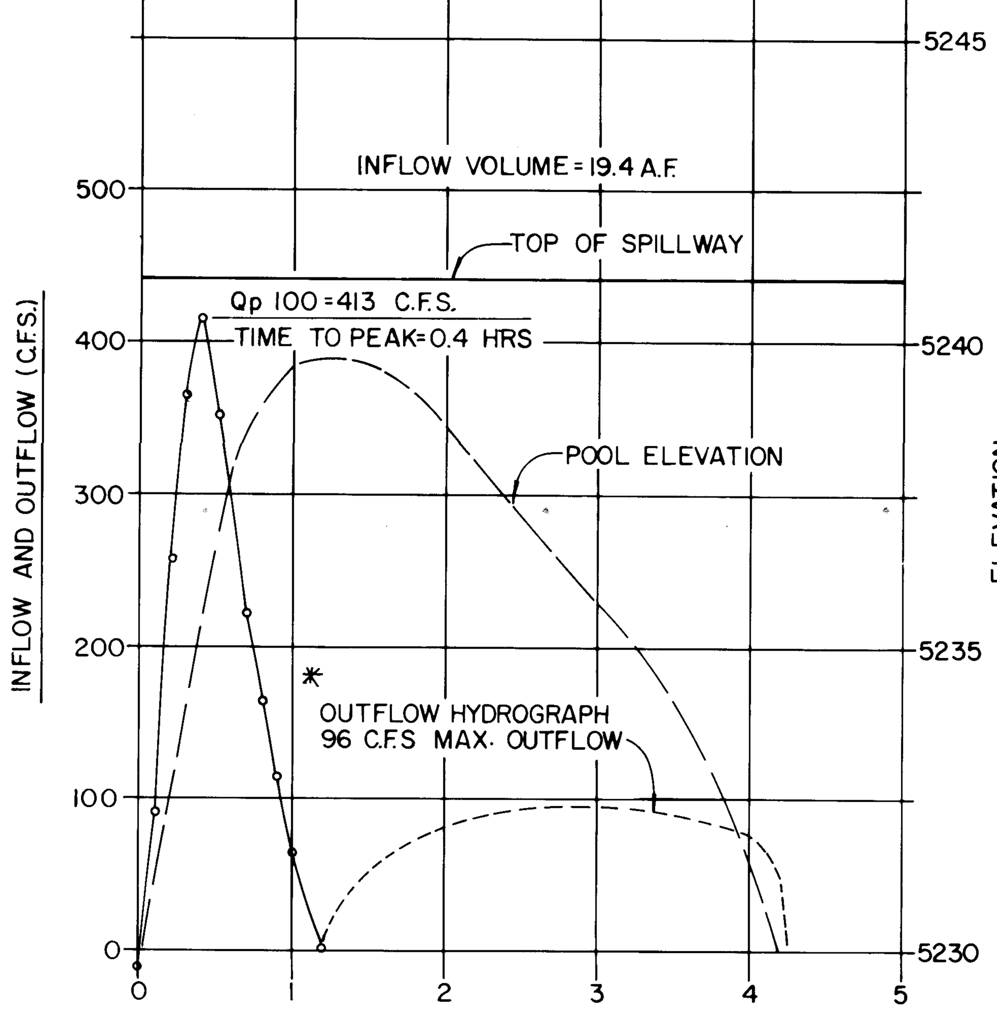
DRAINAGE MAP

SCALE: 1" = 2000'

NOTE:
100 YEAR STORM: 2.0 SQUARE MILE DRAINAGE AREA (D.A. #1A, #2 & #3)
PMF: 2.1 SQUARE MILE DRAINAGE AREA (D.A. #1A & #1B) AND 170 CFS IN STORM DRAIN FROM D.A. # 2.

PERMANENT BENCH MARK - 6 - K18
CITY OF ALBUQUERQUE CONTROL STATION
LOCATED 25.7' SOUTH FROM CENTERLINE OF WEST BOUND LANES OF CENTRAL AVE. AND 233.5' EAST FROM THE CENTERLINE OF SAN MATEO BLVD. BRASS CAP FLUSH IN CONCRETE ON THE MEDIAN STAMPED "6-K18ACS"
ELEV. 5259.774
X = 399, 806.19
Y = 1,483,672.91
GROUND TO GRID FACTOR 0.99965992

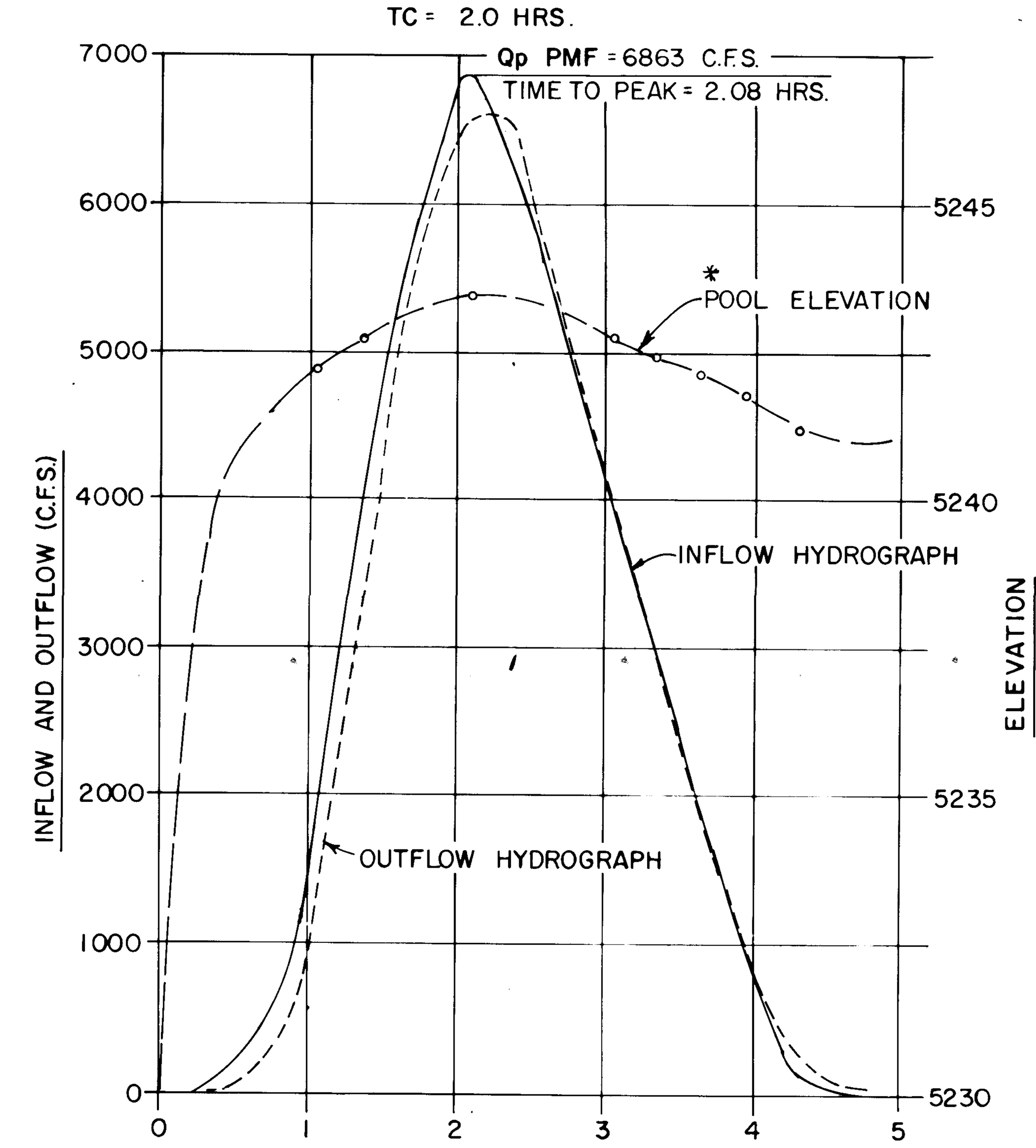
NOTE PRIMARY INFLOW AND OUTFLOW ARE THROUGH THE SAME STRUCTURE. DISCHARGE IS CONTROLLED BY BOTH UPSTREAM AND DOWNSTREAM HYDRAULICS. SEE HIGHLAND DETENTION BASIN SYSTEM PRELIMINARY DESIGN ANALYSIS — MARCH 1984



* THE VOLUME OF WATER CONTAINED IN THE FINAL PART OF THE OUTFLOW HYDROGRAPH IS CONTAINED IN THE OUTLET STRUCTURE BELOW THE BASIN BOTTOM ELEVATION OF 5230

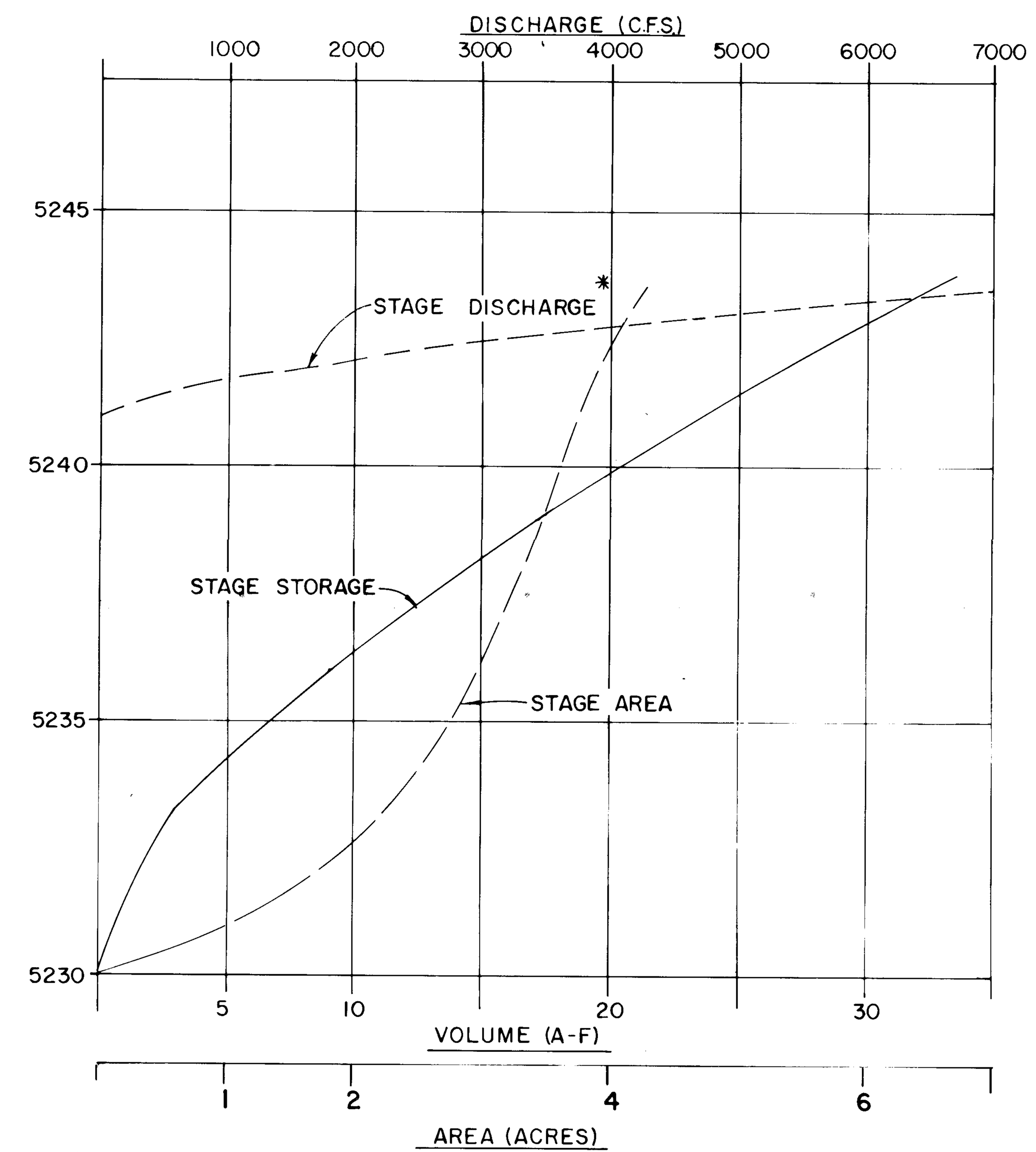
100 YEAR INFLOW AND OUTFLOW

11.5" ONE HOUR THUNDERSTORM
2.1 SQUARE MILE DRAINAGE AREA
CN = 86.5
TC = 2.0 HRS.



* IN THE PMF, IT IS ASSUMED THAT THE ONLY OUTFLOW IS OVER THE EMERGENCY SPILLWAY. THE PRIMARY OUTLET WILL DRAIN THE BASIN AS IN THE ONE HUNDRED YEAR STORM ONCE THE DOWNSTREAM SYSTEM IS UNLOADED.

PMF INFLOW AND OUTFLOW



* THE STAGE DISCHARGE REPRESENTS OUTFLOW OVER THE EMERGENCY SPILLWAY.

RATING CURVES

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

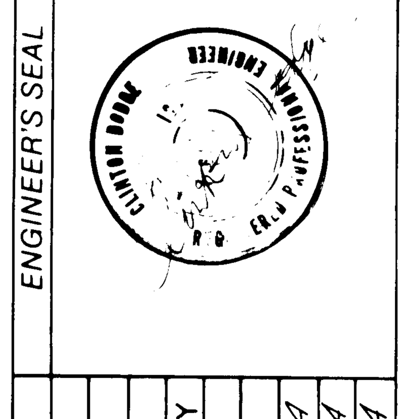
AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL



NO.	DATE	REVISIONS	REMARKS	BY

DESIGN
DESIGNED BY L.C. DATE Sept. 1984
DRAWN BY J.L.B. DATE Sept. 1984
CHECKED BY C.D. DATE Sept 1984

26 1759 0285

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
DRAINAGE MAP AND HYDROGRAPHS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E. - Design	[signature]	3/13/85	Traffic	NA DWH	3/13/85
~~A.C.E.~~ - Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 2 OF 27

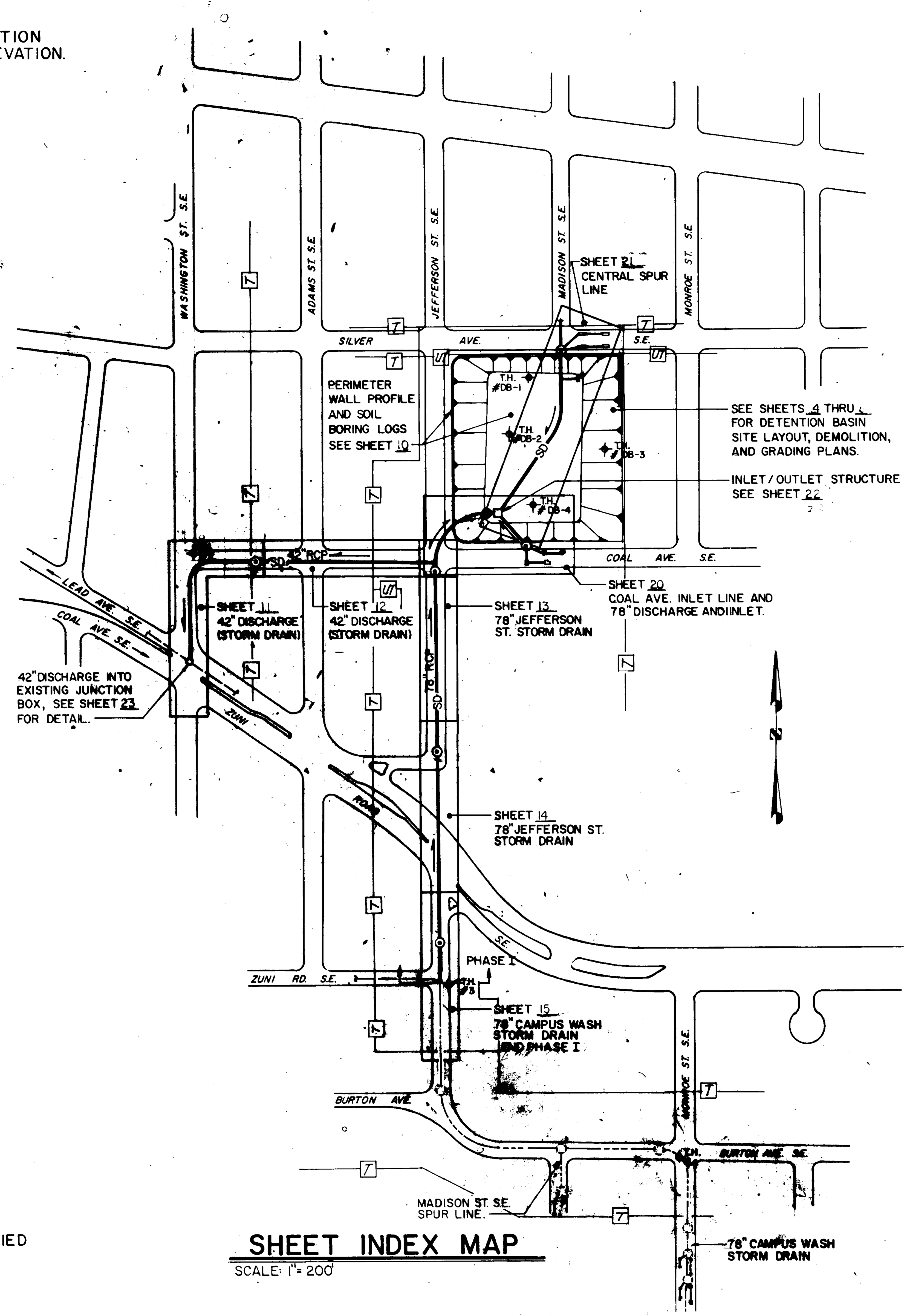
AF 22440A

83596

LEGEND

PROPOSED	EXISTING	DESCRIPTION
		SANITARY SEWER MANHOLE
		STORM DRAIN MANHOLE
NA	TELE MH	TELEPHONE MANHOLE
SAS 8" CP	SAS 8" CP	SANITARY SEWER LINE W/SIZE & TYPE
SD 48" RCP	SD 48" RCP	STORM DRAIN LINE W/SIZE & TYPE
W 6" CI	W 6" CI	WATER LINE W/SIZE & TYPE
NA	E	OVERHEAD ELECTRICAL LINES
UE	UE	UNDERGROUND ELECTRICAL / TRAFFIC CONTROL
NA	UT	UNDERGROUND TELEPHONE
NA	G 2" H.P.	GAS LINES W/SIZE & TYPE
NA	T	OVERHEAD TELEPHONE
		ENCASEMENT
		STORM DRAIN INLETS, GRATE ELEVATION SHOWN IS EXTENDED FLOWLINE ELEVATION.
		GATE VALVE
		BUTTERFLY VALVE
		FIRE HYDRANTS
		REDUCERS
		SAS SERVICE CONNECTION
		WATER SERVICE CONNECTION
		TEES
		CROSSES
		BENDS
		CAPS & PLUGS
NA	WM	WATER METER
VB	VB	VALVE BOX
NA	PP	POWER POLE
NA	LP	LIGHT POLE
TL	TL	TRAFFIC LIGHT
TC	TC	TRAFFIC CONTROL BOX
PB	PB	PULL BOX
NA	TB	TELEPHONE BOOTH
		CURB & GUTTER
4' S.W.	4' S.W.	SIDEWALK
		BLOCK WALL
		CHAIN LINK FENCE
		FIELD FENCE
6533	NA	SPOT ELEVATIONS
NA		PROJECT / PHASE BOUNDARY
NA		RIGHT OF WAY LINES
NA		PROPERTY LINES (SIDE)
		PUBLIC EASEMENTS
	NA	CONSTRUCTION THIS PROJECT SPECIFIED ON DIFFERENT SHEET
LB	NA	LIGHT POLE BASE

PROPOSED	EXISTING	DESCRIPTION
	NA	DRAINAGE SWALE
		SPOT ELEVATIONS
		DRIVEPADS
	NA	APPROXIMATE LIMIT OF CONSTRUCTION - SEE GENERAL NOTE 14.
		WHEELCHAIR RAMPS



SHEET INDEX MAP

SCALE: 1" = 200'

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1979 AND THE PROJECT SPECIFICATIONS TITLED "HIGHLAND DETENTION BASIN SYSTEM - PHASE I".
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
5. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE SHALL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND SHALL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.
6. ALL REFERENCE TO CITY STANDARD DRAWINGS WILL BE PER THE MOST RECENT CITY OF ALBUQUERQUE CONTRACT DOCUMENTS FOR PUBLIC WORKS AWARDED AT THE TIME OF ADVERTISEMENT OF THIS CONTRACT.
7. PRESSURE MANHOLE COVERS AS SHOWN ON THE PLANS SHALL BE NEENAH 1916-C1 ~~OR APPROVED EQUAL~~. NO PAY ITEM.
8. CLEARING AND GRUBBING FOR THE BASIN SHALL NOT EXTEND BEYOND THE BACK OF SIDEWALK OR PROPERTY LIMITS.
9. MANHOLES SHALL HAVE STANDARD ALUMINUM STEP, ALCOA NO. 12653A OR APPROVED EQUAL. STEPS TO BE PRECAST IN PLACE OR SET IN EPOXY CEMENT. (HUNT PROCESS HB-230 OR APPROVED EQUAL) FIRST TWO STEPS TO PROTRUDE 4 INCHES INTO MANHOLE, ALL OTHERS 5 INCHES. SPACING BETWEEN STEPS TO BE 16 INCHES O.C., FIRST STEP TO BE 18 INCHES FROM MANHOLE RIM, LAST STEP TO BE 18 INCHES MAXIMUM FROM BOTTOM. SEE DRAWING K-18-1 FOR STEP DETAIL. MANHOLES REQUIRING STEPS ARE AS DESIGNATED IN THE SPECIFICATIONS.
10. ALL MANHOLE COVERS, WATER VALVES, OTHER SERVICE ACCESS SHALL MATCH EXISTING GRADE OF PAVEMENT. ON UNPAVED SURFACES, THESE SHALL MATCH EXISTING GROUND SURFACES OR FINAL GRADES, WHICHEVER APPLIES.
11. REFERENCES USED IN PREPARATION OF THESE PLANS INCLUDE THE ALBUQUERQUE MASTER DRAINAGE STUDY, BOHANNON-HUSTON, INC., JANUARY 1981; HIGHLAND DETENTION BASIN STUDY - PRELIMINARY DESIGN ANALYSIS, INCLUDING CALCULATIONS APPENDIX, LEEDSHILL-HERKENHOFF, INC., MARCH 1984. THESE ARE ON FILE WITH THE CITY OF ALBUQUERQUE ENGINEERING DIVISION.
12. THE HYDRAULIC GRADE LINE SHOWN ON THE PLANS DEPICTS THAT OF ULTIMATE SYSTEM (INCLUDING PROPOSED PHASE II AND PHASE III OF THE HIGHLAND DRAINAGE SYSTEM).
13. PAVEMENT REPLACEMENT. ALL ASPHALT PAVEMENT REPLACEMENT SHALL BE IN ACCORDANCE WITH STD. DWG. P-25. ARTERIAL SECTION SHALL BE USED ON THE FOLLOWING STREETS:
    - ZUNI RD. S.E.
    - LEAD AVE. S.E.
    - MONROE ST. S.E.
    - WASHINGTON ST. S.E.

    RESIDENTIAL SECTION SHALL BE USED ON THE FOLLOWING STREETS:
    - COAL AVE. S.E.
    - SILVER AVE. S.E.
    - JEFFERSON ST. S.E.
    - BURTON ST. S.E.
    - ALL PARKING LOT REPLACEMENTS.
14. THE LIMIT OF CONSTRUCTION SHOWN ON THE PLANS IS AN APPROXIMATION TO SHOW AREAS OF ANTICIPATED PAVEMENT, CURB AND GUTTER AND/OR OTHER SURFACE REMOVAL. THE CONTRACTOR SHALL ENDEAVOR TO MINIMIZE THE ACTUAL CONSTRUCTION LIMITS BUT IN NO CASE SHALL SUCH LIMITS OF WORK RESTRICT THE CONTRACTORS WORK WHERE SAFETY WOULD BE IMPAIRED. THE CONTRACTOR IS REFERRED TO THE SPECIFICATIONS AS SUPPLEMENTED, ESPECIALLY SECTION 6 OF THE GENERAL CONDITIONS.
15. THE CONTRACTOR IS REFERRED TO PARAGRAPH 18 OF THE GENERAL CONDITIONS AS SUPPLEMENTED FOR UTILITY DAMAGE AND REPAIR.
16. THE CONTRACTOR IS TO COORDINATE UTILITY RELOCATIONS TO BE PERFORMED BY OTHERS DURING ALL PHASES OF CONSTRUCTION.
17. RIM ELEVATIONS SHOWN FOR NEW MANHOLES ARE INTERPOLATED SURVEY DATA. MANHOLE RINGS AND COVERS SHALL MATCH FINISH GRADE OF PAVEMENT.
18. ALL REFERENCE TO CURB AND GUTTER IS TO STANDARD CURB AND GUTTER UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR IS REFERRED TO SECTION 705 OF THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION NOTES.
20. WHEELCHAIR RAMPS WILL BE PROVIDED AT ALL CURB RETURNS REMOVED AS PART OF OTHER CONSTRUCTION AS DIRECTED BY THE ENGINEER.
21. IN AREAS OF PAVEMENT REMOVAL WHERE LESS THAN 8' OF STREET PAVEMENT IS LEFT BETWEEN EDGE OF TRENCH CUT AND GUTTER, REMOVE AND REPLACE ALL OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.
22. TEMPORARY BENCH MARKS (ALL CHISLED "□")

TBM 'A'	N-NW	CURB RET. - BURTON & JEFFERSON	5246.863
TBM 'B'	S-SE	CURB RET. - ZUNI RD. & JEFFERSON	5242.738
TBM 'C'	N-NW	CURB RET. - NORTH OF LEAD AT JEFFERSON	5240.085
TBM 'D'	S-SE	CURB RET. - COAL & JEFFERSON	5241.190
TBM 'E'	WS-W	CURB RET. - MADISON & BURTON	5249.383
TBM 'F'	WS-W	CURB RET. - MONROE & BURTON	5251.038
TBM 'G'		CURB BY NORTH PROPERTY LINE 621 MONROE S.E	5254.738

23. SEWER LINE REPLACEMENT SHALL BE VCP, PVC OR DIP IN ACCORDANCE WITH THE SPECIFICATIONS.

RECORD DRAWING
Date SEP 4 1985

These drawings have been revised based on field data ... reasonable attempt has been made to depict construction as actually performed

2617590385

AS BUILT INFORMATION

CONTRACTOR KNC, Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO

BENCH MARKS

ACS BM 9-L17:
A square (□) chiseled in top of concrete curb at the ESE return of the intersection of Burton Ave. S.E. and Adams St. S.E.
Elev. = 5248.17

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

CLINTON DODGE — REGISTERED PROFESSIONAL ENGINEER — N.M.

NO.	DATE	REVISIONS	BY

REMARKS

DESIGN

DESIGNED BY JAE, CD DATE Sept 1984
DRAWN BY KCW, KHK DATE Dec. 1984
CHECKED BY CD DATE Dec. 1984

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
LEGEND, SHEET INDEX MAP AND GENERAL NOTES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A C E - Design	[signature]	3/13/85	Traffic	NADwH	3/13/85
~~ACE~~ - Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S, L-17N | SHEET 3 OF 27

AF 22440A

STA. 15+09.95 Survey Baseline "3" = STA. 10+00.00 Survey Baseline "2"

STA. 13+00.81 Survey Baseline "2" = STA. 15+09.82 Survey Baseline "4"

Existing End of Water Line

OPP. STA. 12+64-24.5' Rt. ℄ "2" At Curb Return, Begin Removal of Existing Sidewalk, Curb & Gutter and Asphalt Paving in Madison St.

Coordinate Capping and Removal of Existing 4" H.P. Gas Line in Madison St. with Gas Co. of New Mexico.

OPP. STA. 13+36.9-24.5' Rt. ℄ "2" At Curb Return, End Removal of Existing Sidewalk, Curb & Gutter and Asphalt Paving in Madison St.

Remove Existing Drivepads,

Remove and Salvage Fire Hydrant for Reinstallation See Sheet 6

SILVER AVE. S.E.

℄ SILVER AVE. Svy. ℄ "2"

89°53'35.5"

89°59'44"

OPP. STA. 13+01.4-38.4' Rt. ℄ "2" End Removal of Existing 8" VCP Sanitary Sewer Line and Manhole K17S-726 (End of Line)

Tele. Riser

5' Easement

R.O.W.

Tele. Riser Removed by Mountain Bell

Return to be Replaced See Sheet 6

Remove and Dispose Existing Asphalt Parking Lot.

Vacated 50' Easement

Contractor shall Coordinate with Public Service Co. of New Mexico regarding overhead Power Lines and Poles to be Removed

Gas Line to be Removed

5' Utility Easement

252'±

Standard Curb & Gutter

Remove Light Pole, Bases and Related Conduit within Property Line

Remove and Dispose Existing Concrete Wheel Stops

Remove Manhole (725)

3.5' Sidewalk

120'±

Edge of Asphalt

Approximate Limits of Removal of Existing Sidewalk, Curb & Gutter and Asphalt Paving. See Storm Drain Plan and Profile Sheets for Adjacent Construction in Coal Ave., Silver Ave., and Jefferson St.

Remove and Dispose Existing 8" VCP Sanitary Sewer Line, Approx. 470 L.F. Remove Manholes and Salvage Rings and Covers. Typical 2 Places.

Property Line

Clear and Grub Entire Site

Remove and Salvage Existing Water Meter and Service Line. Typical 6 Places.

Existing Fence

OPP. STA. 12+89 - ℄ "1" Begin Waterline Removal Cap existing 6" C.I. at Tee

Remove Existing 6" C.I. Waterline Approx. 465' L.F.

Remove and Salvage Fire Hydrant for reinstallation, see Sheet 5.

Remove and Salvage Existing Gate Valve and Valve Box

Return to be Replaced, See Sheet 5

Remove and Replace Existing Fire Hydrant at Monroe and Coal S.E.

℄ COAL AVE. Svy. ℄ "B"

89°59'01"

89°56'57"

Remove and Replace 6" Water Line with 6" P.V.C. 526 L.F.

Remove and Replace 6" M.J. Gate Valves at Jefferson and at Monroe on the Coal Ave. Water Line.

OPP. STA. 12+64.4-20.6' Lt. ℄ "1" At Curb Return - Begin Removal of Existing Sidewalk, Curb & Gutter and Asphalt Paving in Madison St.

OPP. STA. 13+36.4-20.6' Lt. ℄ "1" At Curb Return - End Removal of Existing Sidewalk, Curb & Gutter and Asphalt Paving in Madison St.

STA. 10+00.00 Survey Baseline "1" = STA. 10+00.00 Survey Baseline "3" = STA. 10+00.00 Survey Baseline "A" = STA. 10+00.00 Survey Baseline "B"

STA. 12+99.82 Survey Baseline "1" = STA. 10+00.00 Survey Baseline "4"

OPP. STA. 12+95.3-0.3' Rt ℄ "1" Plug Existing 8" VCP North in Madison St. Begin Removal of Existing 8" VCP and Manholes to Sanitary Sewer Manhole K17S-726

BASIN DEMOLITION PLAN

SCALE: 1"=40'

Existing Manhole Data

Existing Sanitary Sewer Manholes

K-17S-724 - 4' Diameter
(Opp. Sta. 13+99.10, 0.4' Rt. Svy. B.L. "3")
N. Rim El. = 39.54
8" N. Inv. El. = 31.48
8" S. Inv. El. = 31.45

K-17S-725 - 4' Diameter
(Opp. Sta. 12+34.10 - 0.4' Rt. Svy. B.L. "4")
N. Rim El. = 42.18
8" N. Inv. El. = 34.08
8" S. Inv. El. = 34.41

K-17S-726 - 4' Diameter
(Opp. Sta. 13+01.40 - 38.70' Rt. Svy. B.L. "2")
N. Rim El. = 40.86
8" S. Inv. El. = 35.47

K-17S-825 - 4' Diameter
(Opp. Sta. 10+00.50 - 5.20' Rt. Svy. B.L. "Y")
N. Rim El. = 40.55
18" E. Inv. El. = 28.68
18" W. Inv. El. = 28.66
8" S. Inv. El. = 29.70

K-17S-827 - 4' Diameter
(Opp. Sta. 12+95.30 - 0.3' Rt. Svy. B.L. "1")
N. Rim El. = 43.36
18" E. Inv. El. = 31.65
18" W. Inv. El. = 31.61
8" N. Inv. El. = 32.57

RECORD DRAWING
SEP 4 1985
Date

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

AS BUILT INFORMATION
CONTRACTOR KNC Inc
WORK PERFORMED BY Leadshill-Herkenhoff DATE
INSPECTORS FIELD BOOK BY Doug May DATE 08/25/85
VERIFICATION BY DATE
MARKINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CLINTON BOONE LUCAS, NEW MEXICO, REGISTERED PUBLIC ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY J.A.E., C.D. DATE Nov. 1984
DRAWN BY L.A.B. DATE Dec. 1984
CHECKED BY C.D. DATE Dec. 1984

1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 7 5 9 0 4 8 5

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM-PHASE I

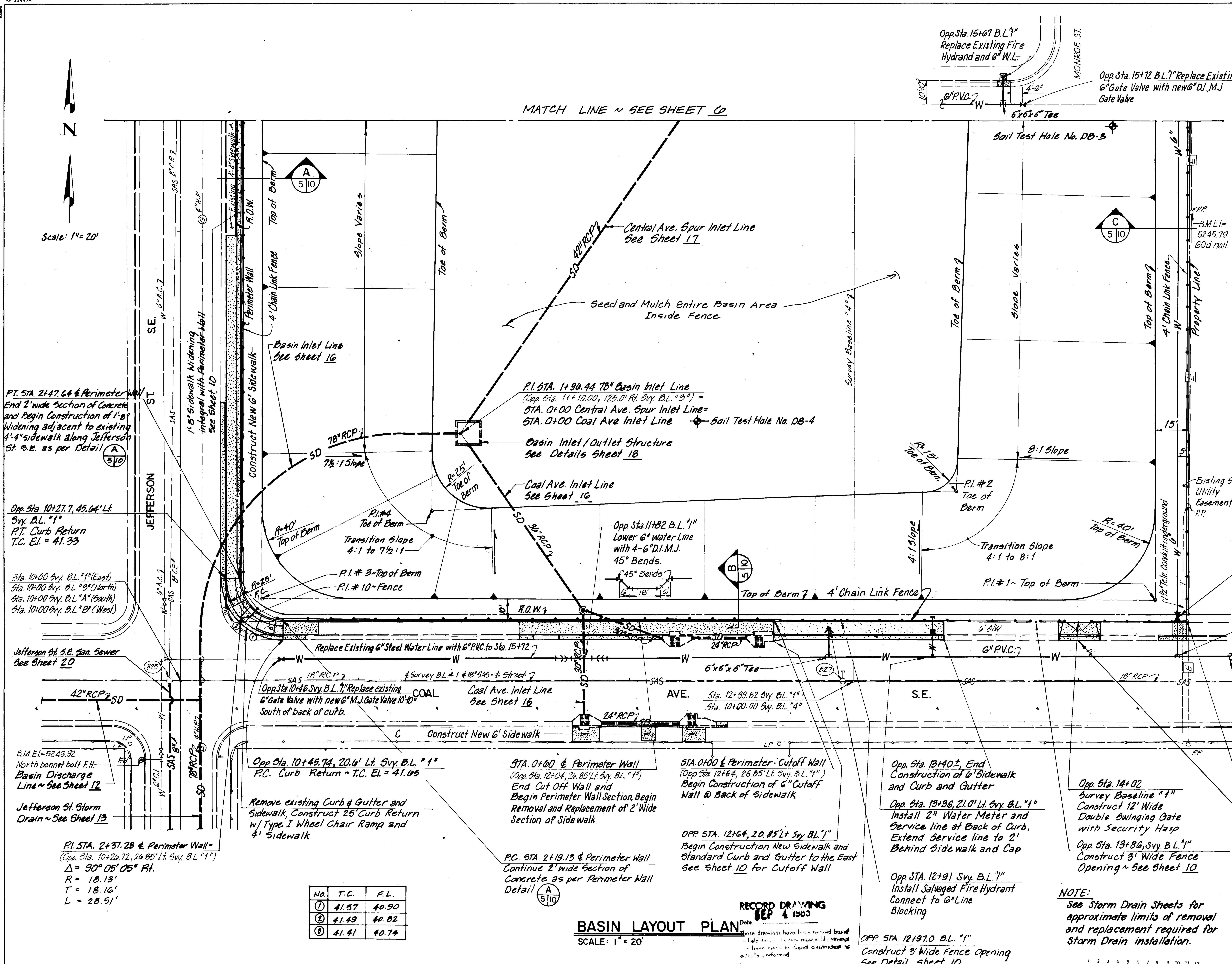
BASIN DEMOLITION PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		9/13/85
A.C.E.-Design		9/13/85	Traffic		9/13/85
~~A.C.E.~~-Hydrology		9/13/85	Water		9/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 4 OF 27

AF 22440A

83596



NO.	T.C.	F.L.
①	41.57	40.90
②	41.49	40.82
③	41.41	40.74

BASIN LAYOUT PLAN

SCALE: 1" = 20'

RECORD DRAWING
SEP 4 1985
Date
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed

NOTE:
See Storm Drain Sheets for approximate limits of removal and replacement required for Storm Drain installation.

1	2	3	4	5	6	7	8	9	10	11	12
2	6		1	7	5	9	0	5	8	5	

NOTES

1. Slope call outs shown for berm are located at PC and PT of toe of Berm Radii
2. All Perimeter Wall of Stationing is ℄ Wall.
3. Set fence posts 10'± o.c. on radii.

Index of P.I.'s

PI NUMBER 1
STA 14+34 BL #1, 36.5'LT
Δ = 90°-0-0
TOP OF BERM

PI NUMBER 2
STA 13+46 BL #1, 84.5'LT
Δ = 90°-0-0
TOE OF BERM

PI NUMBER 3
STA 10+36.6 BL #1, 36.5'LT
Δ = 90°-05'-05"
TOP OF BERM

PI NUMBER 4
STA 11+11.6 BL #1, 76.5'LT
Δ = 90°-05'-05"
TOE OF BERM

PI NUMBER 5
STA 10+36.7 BL #2, 40.6'RT
Δ = 89°-53'-35"
TOP OF BERM

PI NUMBER 6
STA 11+17.2 BL #2, 72.6'RT
Δ = 89°-53'-35"
TOE OF BERM

PI NUMBER 7
STA 14+34.5 BL #2, 40.6'RT
Δ = 90°-0-0
TOP OF BERM

PI NUMBER 8
STA 13+56.5 BL #2, 80.6'RT
Δ = 90°-0-0
TOE OF BERM

PI NUMBER 9
STA 14+45 BL #1, (0.75' INSIDE P.L.) 26.5'LT.
Δ = 90°-0-0
SE PI CHAINLINK FENCE

PI NUMBER 10
STA 10+26.72 BL #1, 26.6'LT.
Δ = 90°-05'-05"
SW PI CHAINLINK FENCE

PI NUMBER 11
STA 10+26.8 BL #2, 30.8'RT.
Δ = 89°-53'-35"
NW PI CHAINLINK FENCE

PI NUMBER 12
STA 14+48.7 BL #2, (0.75' INSIDE P.L.) 30.8'RT.
Δ = 90°-0-0
NE PI CHAINLINK FENCE

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

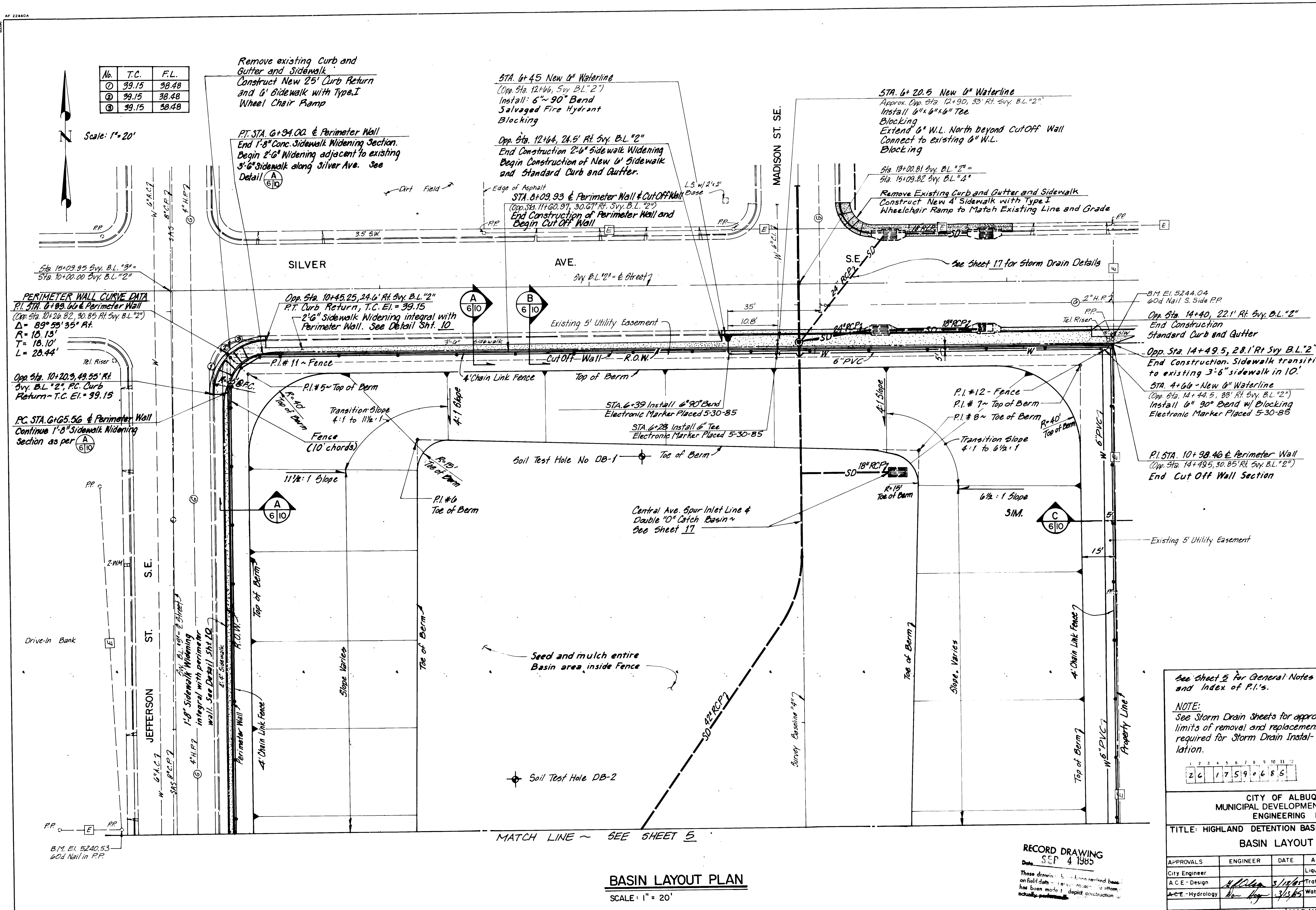
DESIGN		
DESIGNED BY	JAE, CD	DATE Sept. 1984
DRAWN BY	KCW	DATE Dec. 1984
CHECKED BY	CD	DATE Dec. 1984

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM – PHASE I
BASIN LAYOUT PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
A.C.E.-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 5 OF 27



BASIN LAYOUT PLAN

SCALE: 1" = 20'

See Sheet 5 for General Notes and Index of P.I.'s.

NOTE:
See Storm Drain Sheets for approx. limits of removal and replacement required for Storm Drain Installation.

1	2	3	4	5	6	7	8	9	10	11	12
2	6		1	7	5	9	0	6	8	5	

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data ... reasonable attempt has been made to depict construction as actually performed.

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE, NEW MEXICO, 8410, REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY LAE, CD DATE Sept. 1984
DRAWN BY KCW DATE Dec. 1984
CHECKED BY CD DATE Dec. 1984

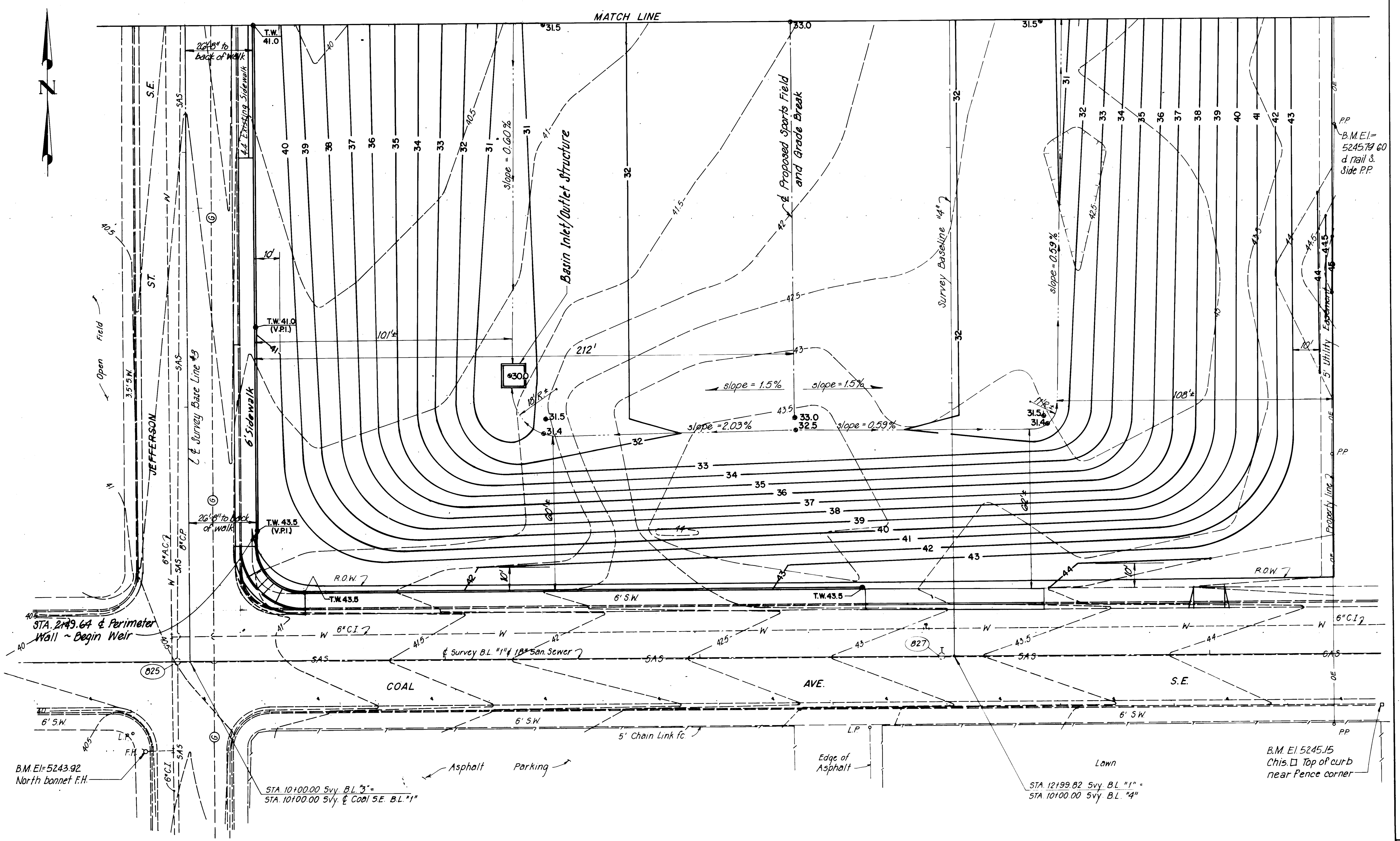
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM – PHASE I

BASIN LAYOUT PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	NA DWH	3/13/85
~~A.C.E.~~-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 6 OF 27



GRADING PLAN

SCALE: 1" = 20'

NOTE:
See sheet 16 for manhole data.

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE NEW MEXICO 6410 REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY JAE, CD DATE Sept. 1984
DRAWN BY PAP DATE Dec. 1984
CHECKED BY CD DATE Dec 1984

1	2	3	4	5	6	7	8	9	10	11	12
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

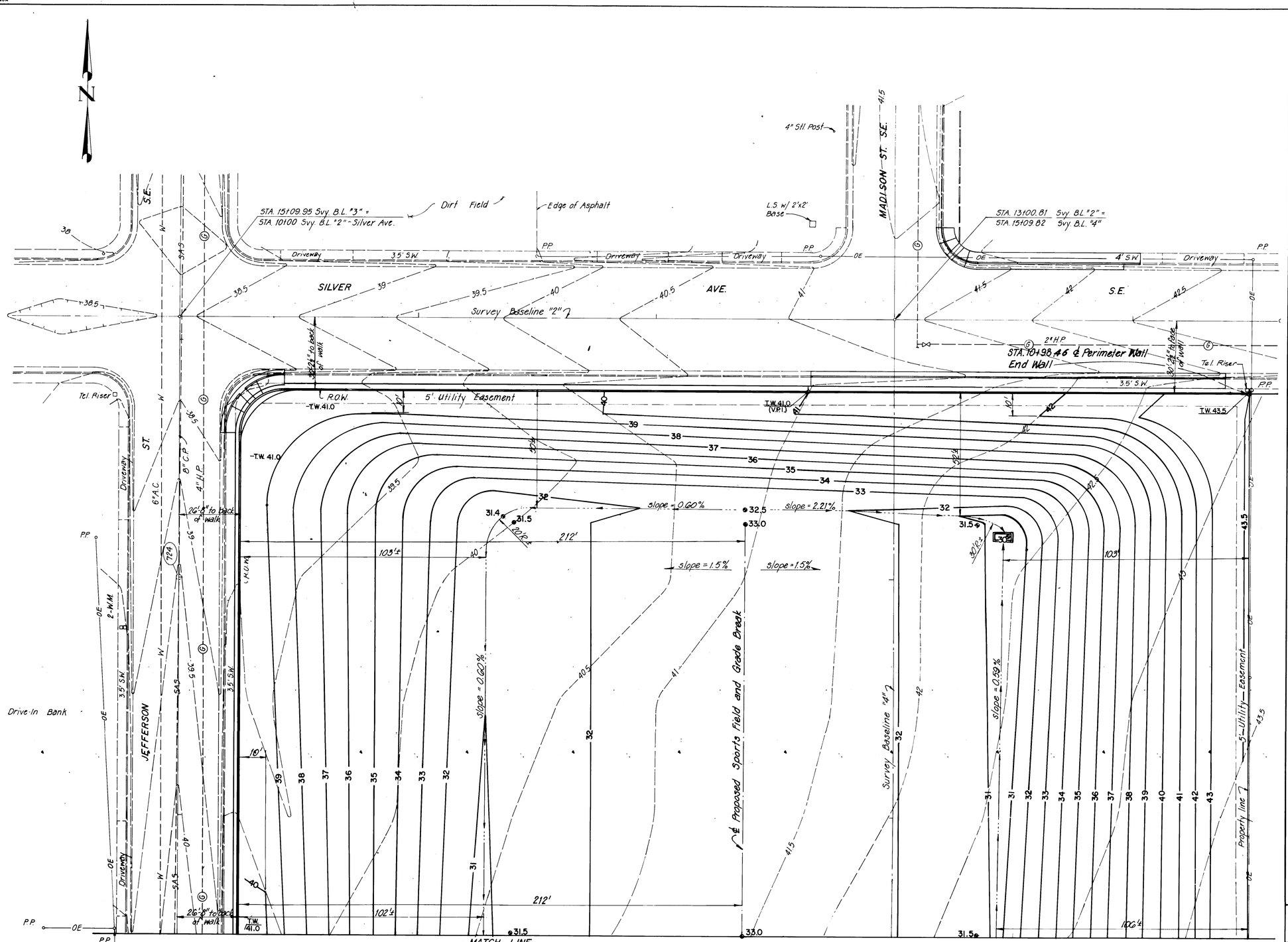
TITLE: HIGHLAND DETENTION BASIN SYSTEM- PHASE I

BASIN GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.- Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
~~A.C.E.~~ -Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 7 OF 27

AF 22440A



GRADING PLAN

SCALE: 1" = 20'

RECORD DRAWING
SEP 4 1985
Date

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STARTED BY Leadskill Hardenbrook DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWING CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CLINTON HODGE PETTEN NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE Sept. 1984
		DRAWN BY FAP	DATE Dec. 1984
		CHECKED BY CD	DATE Dec. 1984
		DESIGNED BY JAE, CD	

1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 7 5 9 0 8 8 5

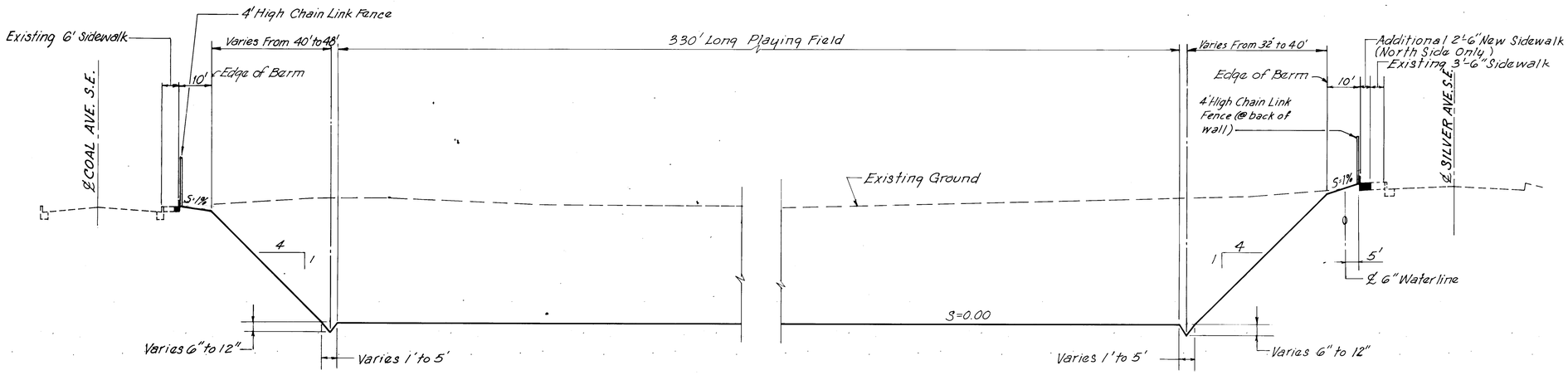
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM-PHASE I
BASIN GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		3/13/85
A.C.E. - Design		3/13/85	Traffic		3/13/85
~~A.C.E.~~ - Hydrology		3/13/85	Water		3/13/85

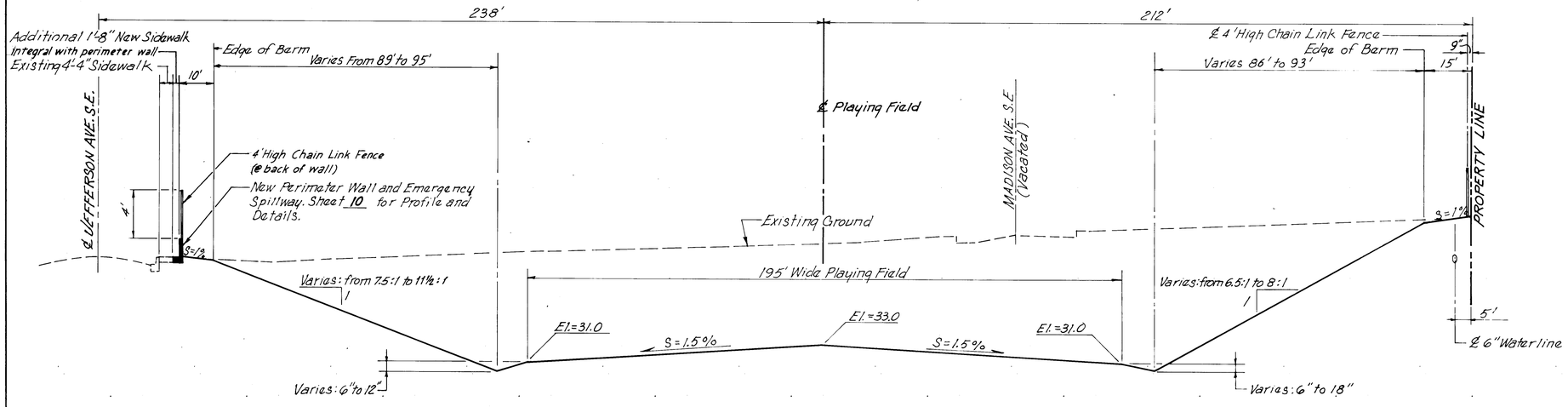
DRAWING NO. 1759 | MAP NO. K-17S | SHEET 8 OF 27

AF 22440A



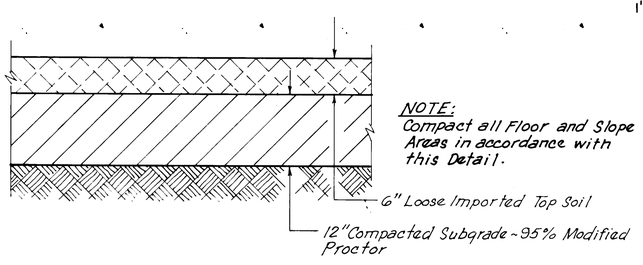
TYPICAL NORTH-SOUTH SECTION

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



TYPICAL EAST-WEST SECTION

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



BASIN FLOOR AND SLOPE COMPACTION DETAIL

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

RECORD DRAWING
SEP 4 1985
Date
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS
See Sheet 2 for Bench Mark Datum

AS BUILT INFORMATION
CONTRACTOR K-N-C Inc
STAKED BY Leadhill/Herkenhoff DATE
INSPECTORS
FIELD CHANGE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
RONALD BOHANNAN NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 7844

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY J.A.E., C.D. DATE Sept. 1984
DRAWN BY L.A.B. DATE Dec. 1984
CHECKED BY C.D. DATE Dec. 1984

1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 7 5 9 0 9 8 5

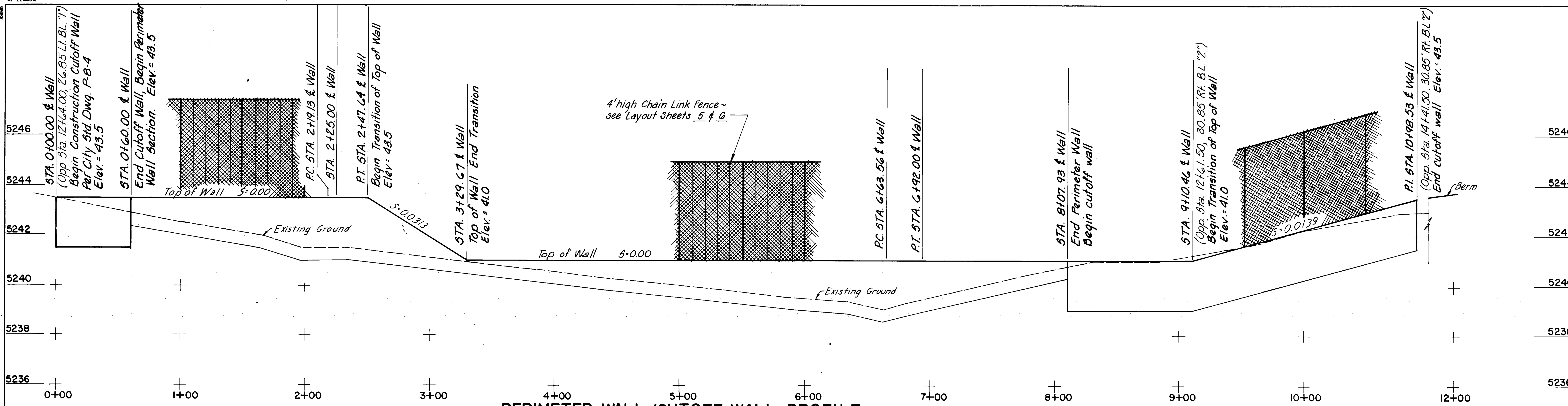
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM-PHASE I
TYPICAL BASIN CROSS SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		3/3/85
A.C.E.-Design		3/3/85	Traffic		3/3/85
A.C.E.-Hydrology		3/3/85	Water		3/3/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 9 OF 27

AF 22440A



PERIMETER WALL /CUTOFF WALL PROFILE

SCALES: Horiz. 1"=40'
Vert. 1"= 2'

SOIL LOG TEST HOLE LEGEND & NOTES

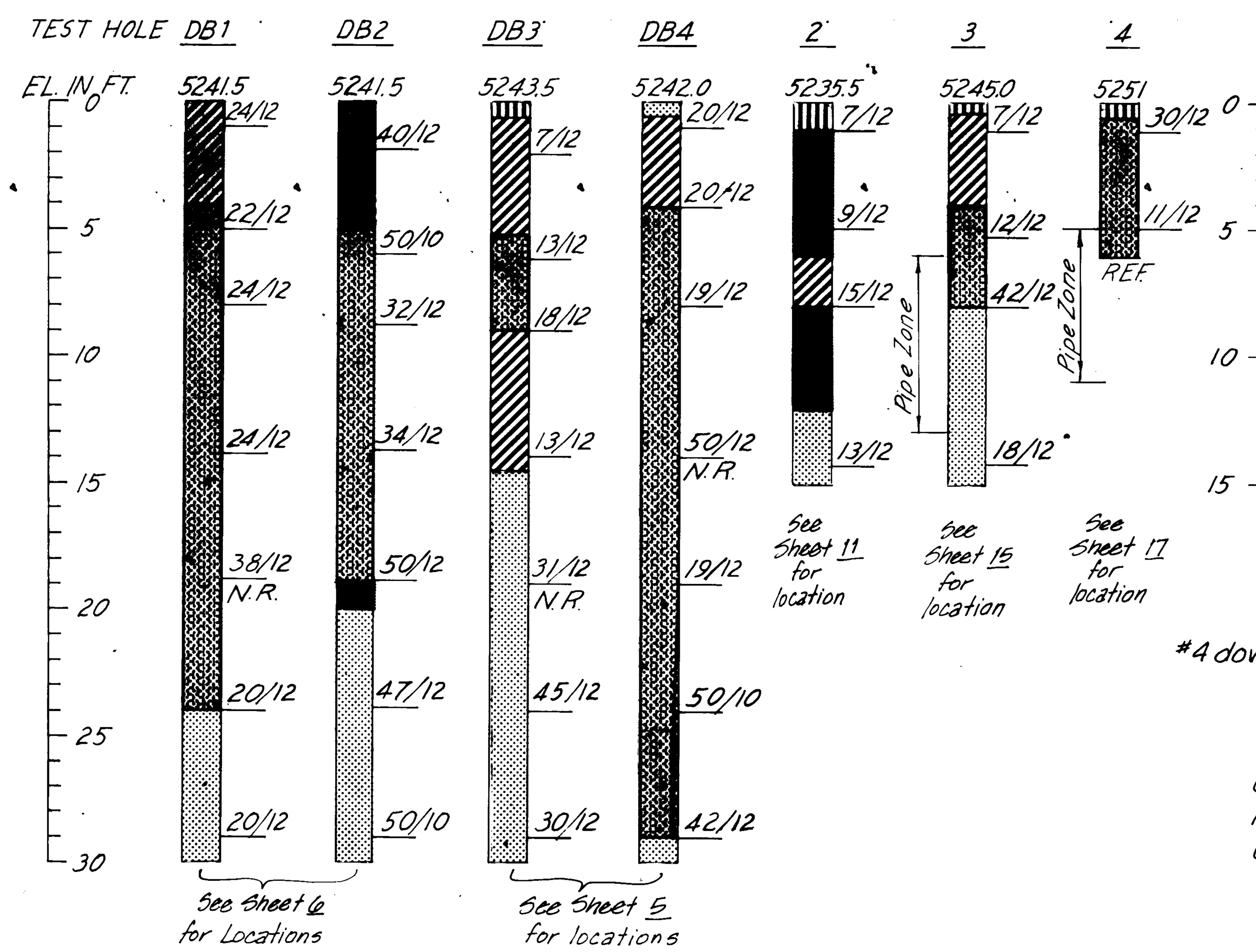
- CLAY, sandy, slightly silty, occasional light calcareous cementation, medium stiff to hard, dry to moist, buff to brown (CL)
- SAND, coarse to fine-grained, silty, medium dense to dense, dry to slightly moist, occasionally slightly gravelly to gravelly, light brown to brown (SM)
- SAND, coarse to fine-grained, clean to slightly silty, medium dense to dense, dry to slightly moist, light brown (SP)
- SAND, coarse to fine-grained, slightly silty, slightly gravelly, medium dense to dense, dry, light brown (SP-SM)
- MAN-MADE FILL, sand, coarse to fine-grained, silty, loose, dry, light brown
- ASPHALT & BASE COURSE
- MAN-MADE FILL, landscape gravel
- SAND, fine-grained, some medium to coarse grains, silty, trace gravel, loose, moist, brown (SM)
- SAND, coarse to fine-grained, clayey, occasional light calcareous cementation, medium dense, dry to slightly moist, light brown (SC)

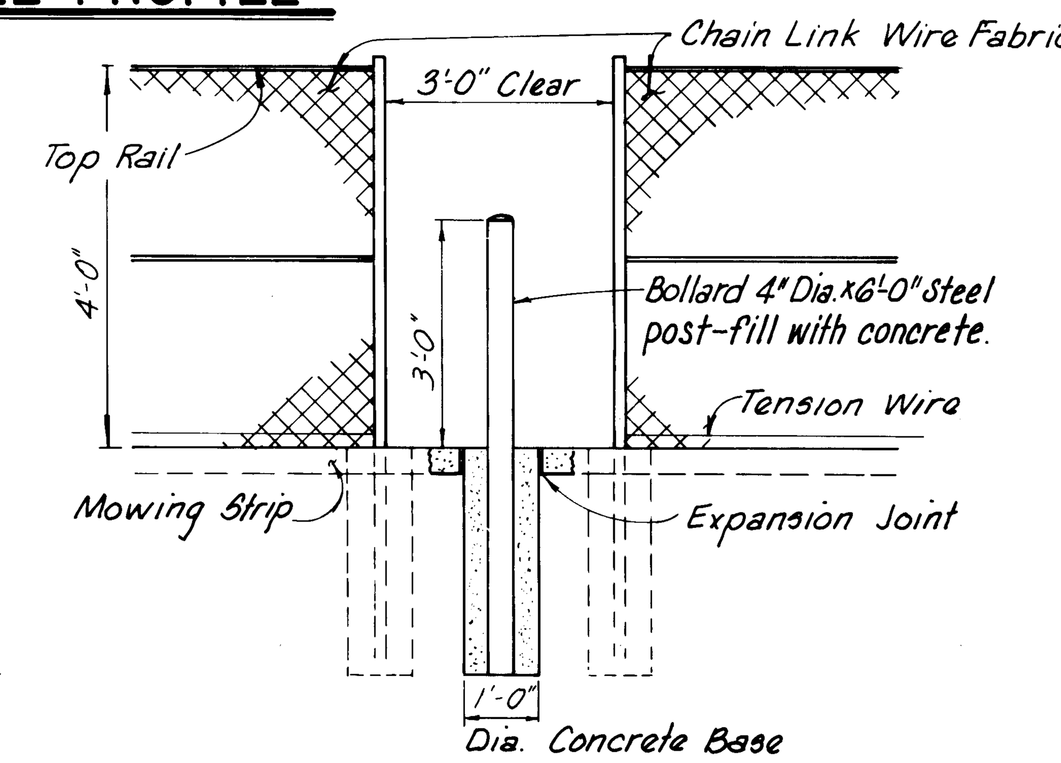
NR indicates no sample recovery

REF indicates refusal to auger drilling

NOTES

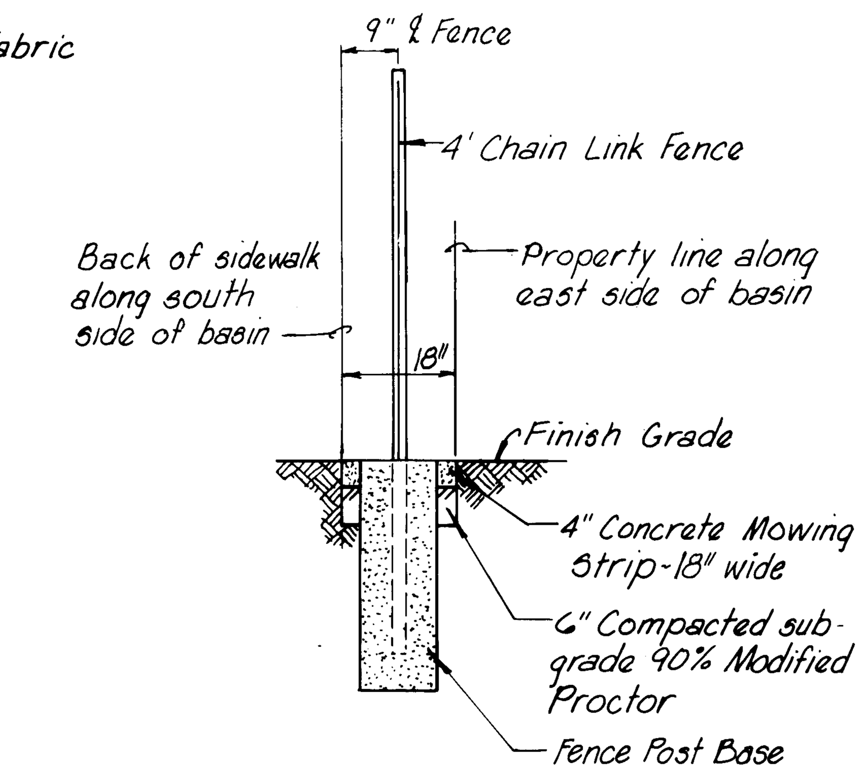
1. Test holes were drilled on August 11 and 12, 1984, with a 6-inch diameter hollow-stem continuous flight power auger.
2. (42/12) location of Standard Penetration Test, indicates that 42 blows with a 140 pound hammer, falling 30 inches, were required to drive a 2-inch diameter sampler 12 inches.
3. The locations of borings were determined by tape and compass measurement from existing street and property boundaries. Elevations of borings were determined by interpolation between plan contours. The locations and elevations of the borings should be considered accurate only to the degree implied by the method used.
4. The stratification lines represent the approximate boundary between soil types and the transition may be gradual.
5. Neither bedrock nor groundwater were encountered in the test holes.





OPENING DETAIL

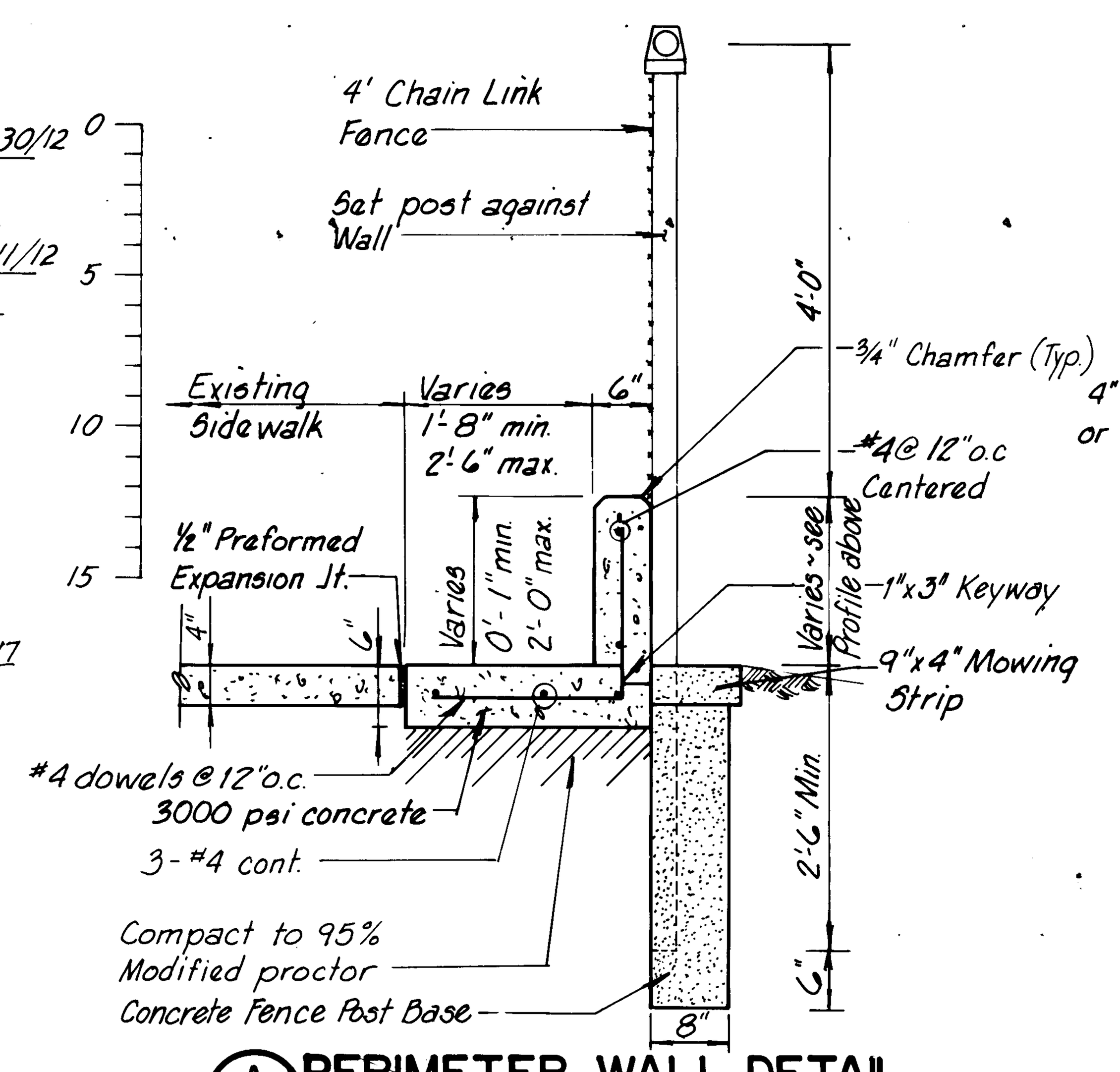
SCALE: 1/2"=1'-0"



C FENCE & MOWING STRIP DETAIL

5 | 10 / 6

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

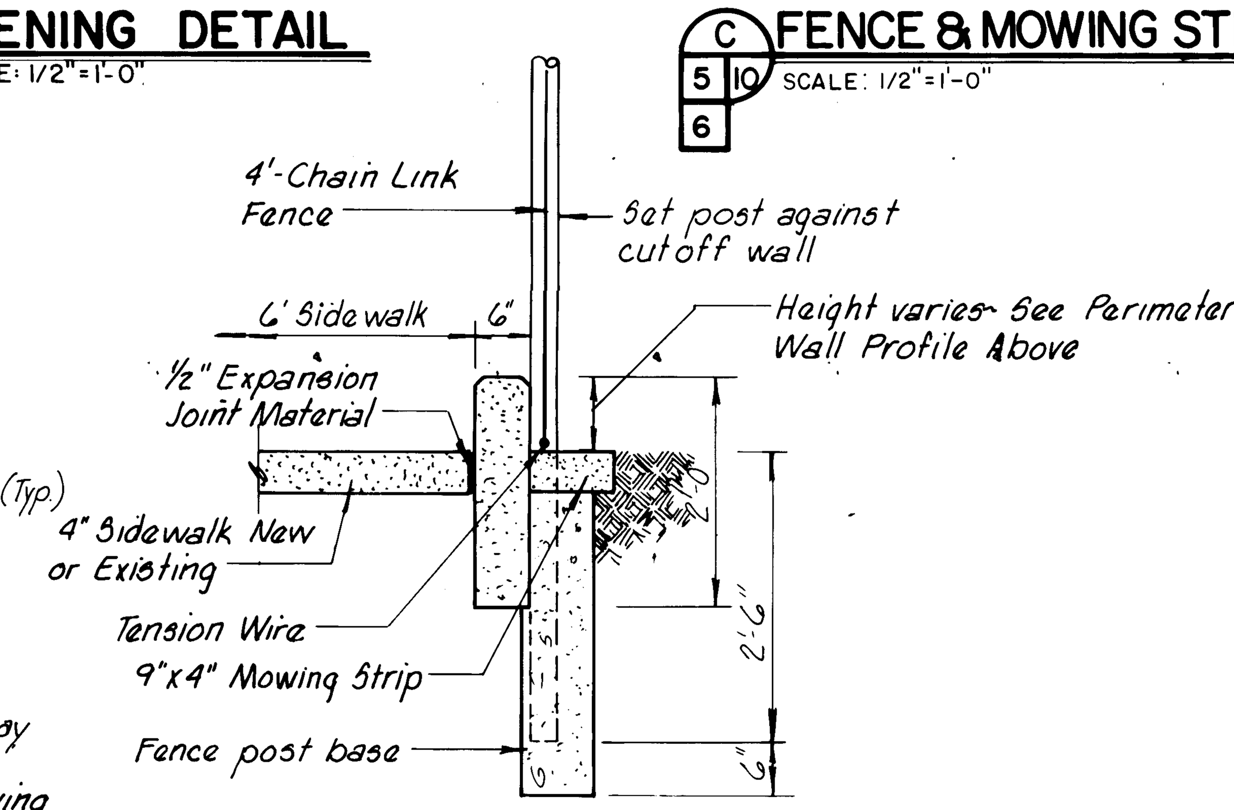


A PERIMETER WALL DETAIL

5 | 10 / 6

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

STA. 0+60 TO STA. 8+10



B CUTOFF WALL DETAIL

5 | 10 / 6

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

STA. 0+00 TO STA. 0+60
STA. 8+09.93 TO STA 10+98.46

Notes:

1. Expansion Joint in Mowing Strip at each post. Dummy Joint at not greater than 5' spacing
2. Use 9" Mowing Strip along perimeter & cutoff wall.
3. See drawing K-21 for fencing detail
4. Extend 18" mowing strip across fence opening.
5. Extend drivepad at 12' swing gate to align with mowing strip.

NOTES REGARDING PERIMETER AND SIDEWALK

1. In areas of sidewalk widening compact area between existing sidewalk and retaining wall to 95% proctor compaction to 1' below footing.
2. Use monolithic pour on all new perimeter wall with wall heights less than 4'.

1	2	3	4	5	6	7	8	9	10	11	12
2	6		1	7	5	9	1	0	8	5	

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

CLINTON DODGE, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY JAE, C.D. DATE Sept. 1984
DRAWN BY K.H.K. DATE Dec. 1984
CHECKED BY C.D. DATE Dec. 1984

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

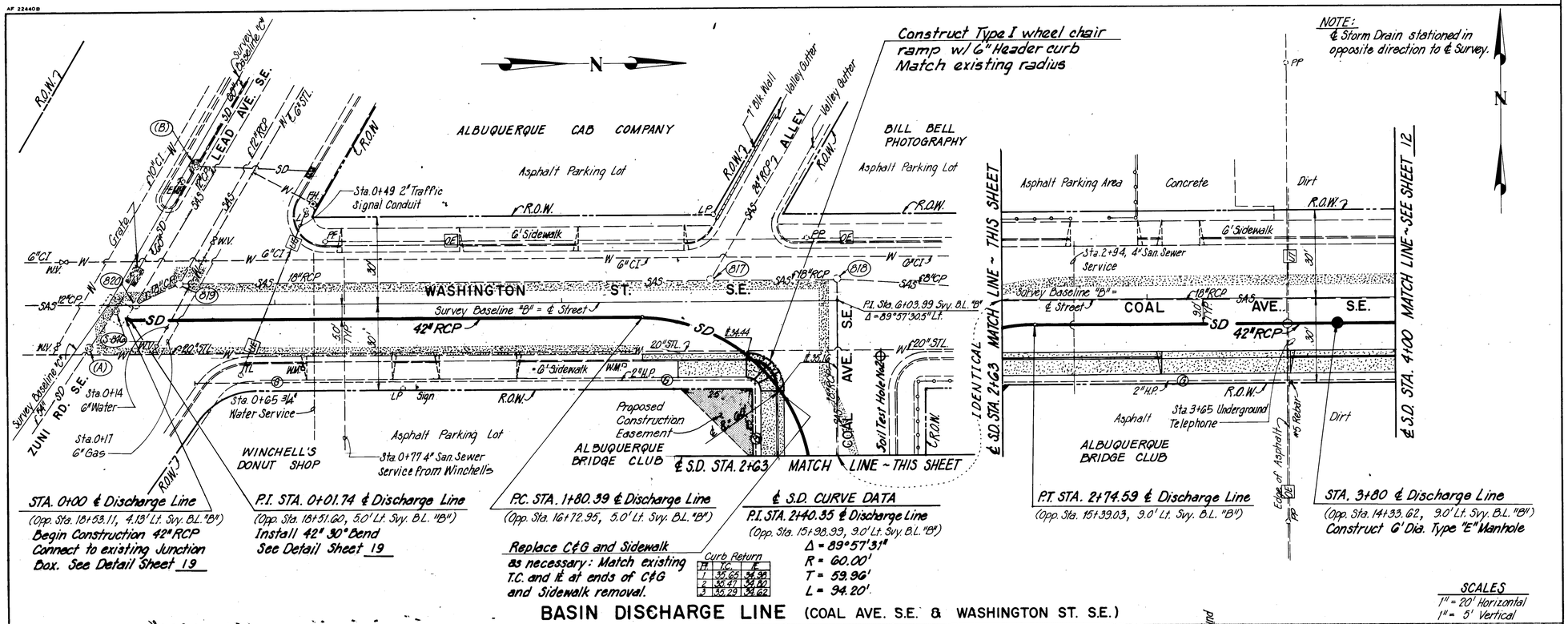
TITLE: HIGHLAND DETENTION BASIN SYSTEM—PHASE I
DETENTION BASIN PERIMETER WALL PROFILE, DETAILS, AND SOIL LOG TEST HOLE DATA

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
~~A.C.E.~~-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17 S | SHEET 10 OF 27

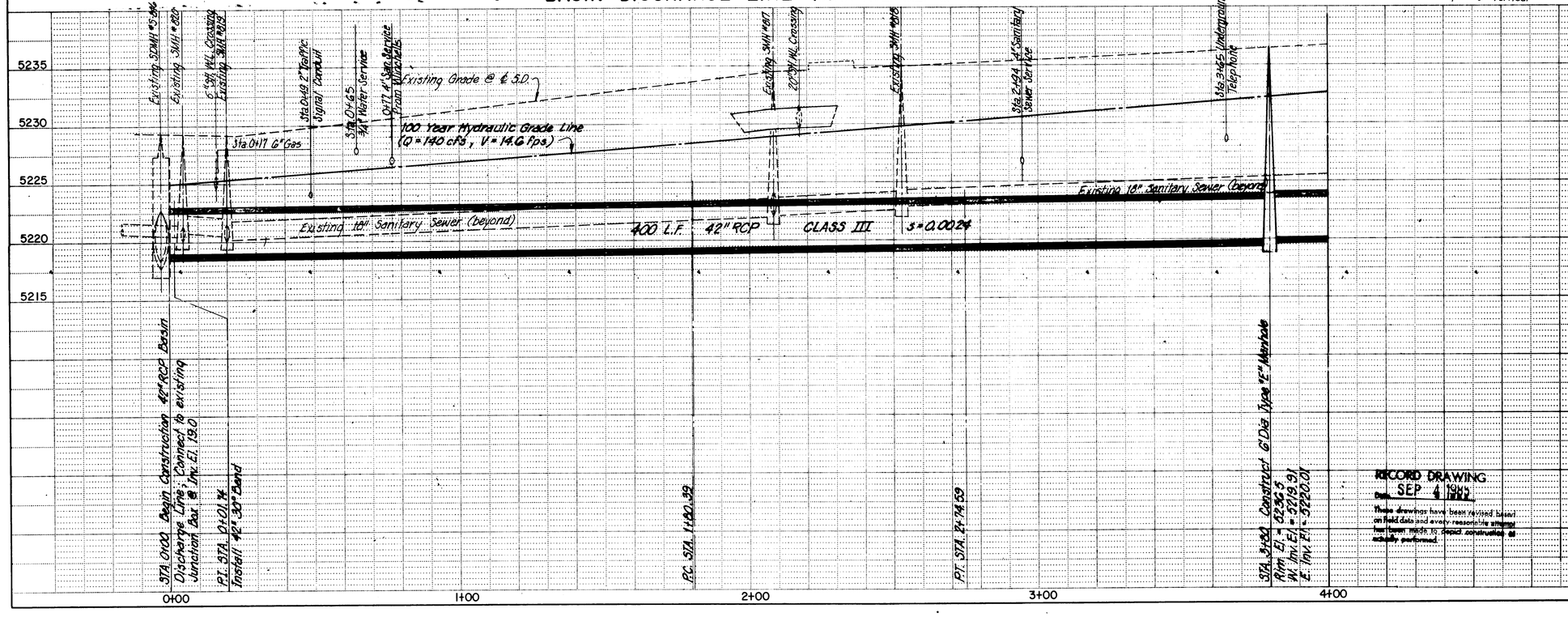
RECORD DRAWING
SEP 4 1985
Date
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

AF 22440B



BASIN DISCHARGE LINE (COAL AVE. S.E. & WASHINGTON ST. S.E.)

SCALES
1" = 20' Horizontal
1" = 5' Vertical



RECORD DRAWING
SEP 4 1985
Date
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

Existing Manhole Data

Existing Sanitary Sewer Manholes

K-17S-818 ~ 4' Diameter
Not found (paved over)
Rim El. = 35.0 ±
18" East Inv. El. = 22.85
18" South Inv. El. = 22.68

K-17S-817 ~ 4' Diameter
Not found (paved over)
Rim El. = 34.5 ±
18" North Inv. El. = 22.25
24" West Inv. El. = 22.20
18" South Inv. El. = 22.15

K-17S-819 ~ 4' Diameter
Sta. 10+18.7, 17.2' Rt. Svy. B.L. "C"
N. Rim El. = 29.17
18" C.P. South Inv. El. = 20.62
18" RCP North Inv. El. = 20.32
18" RCP West Inv. El. = 20.02

K-17S-820 ~ 4' Diameter
Sta. 10+05.9, 8.6' Rt. Svy. B.L. "C"
N. Rim El. = 29.22
12" C.P. West Inv. El. = 20.22
12" C.P. South Inv. El. = 20.57
18" C.P. North Inv. El. = 20.74

Existing Storm Drain Manholes

K-17S-(A) ~ Junction Box
Sta. 9+83.7, 3.3' Rt. Svy. B.L. "C"
N. Rim El. = 29.67
54" Inv. El. (@ ℄ J.B.) = 19.12
Top 20" Sht. W.L. thru J.B. = 24.03

K-17S-(B) ~ 3' Diameter
Sta. 10+57.8, 2.0' Rt. Svy. B.L. "C"
N. Rim El. = 29.33
60" Inv. El. (@ ℄ MH.) = 18.05
18" Lead East Inv. El. = 24.41
18" Lead North Inv. El. = 23.58

K-17S-S-846 ~ Junction Box
Sta. 10+00.3, 2.6' Rt. Svy. B.L. "C"
N. Rim El. = 29.30
54" East Inv. El. = 19.18
60" West Inv. El. = 17.95
Top 15" D.I. Sleeve for 12" SAS thru J.B. = 22.00

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK BY Leedshill-Herkenhoff
INSPECTORS
ACCEPTANCE BY Doug May DATE 12/5/85
FIELD LOCATION BY DATE
DATABASED BY DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE Sept. 1984
		DESIGNED BY LMC, CD	DATE Nov. 1984
		DRAWN BY PAP	DATE
		CHECKED BY CD	

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

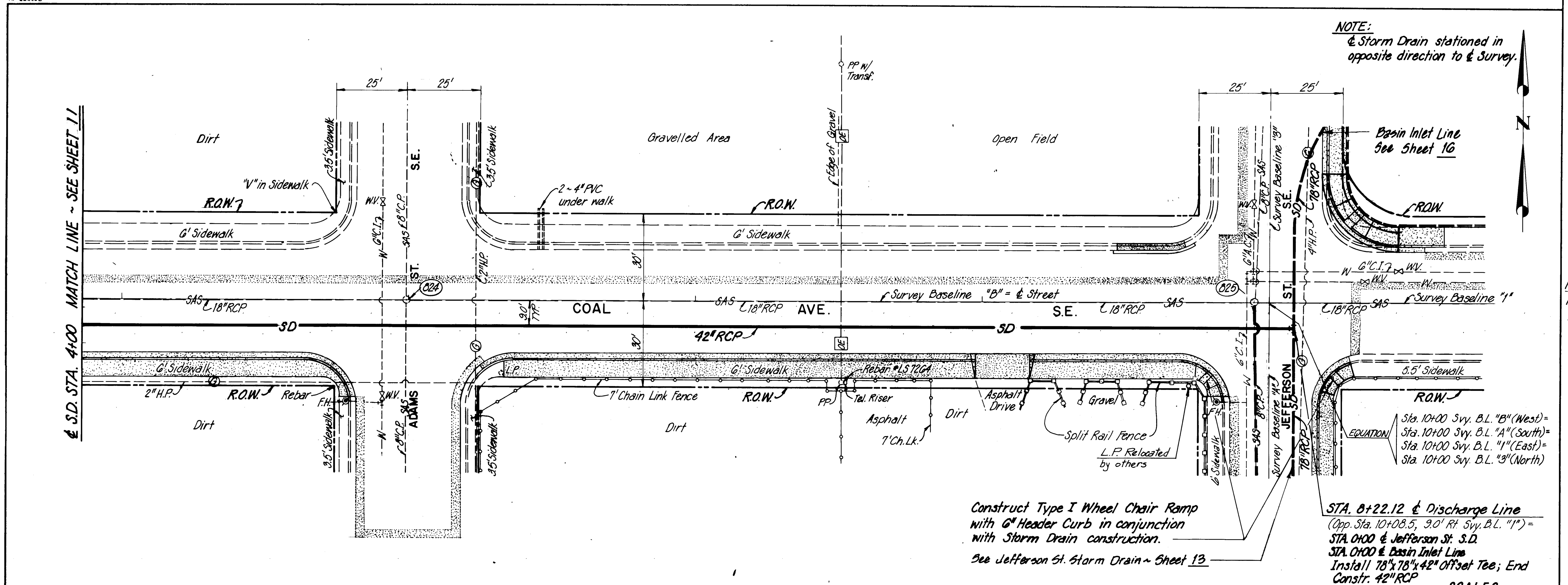
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
STORM DRAIN PLAN AND PROFILE
BASIN DISCHARGE LINE
(STA. 0+00 to STA. 4+00)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		3/13/85
A.C.E. - Design		3/13/85	Traffic		3/13/85
A.C.E. - Hydrology		3/13/85	Water		3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 11 OF 27

AF 22440B



NOTE:
℄ Storm Drain stationed in opposite direction to ℄ Survey.

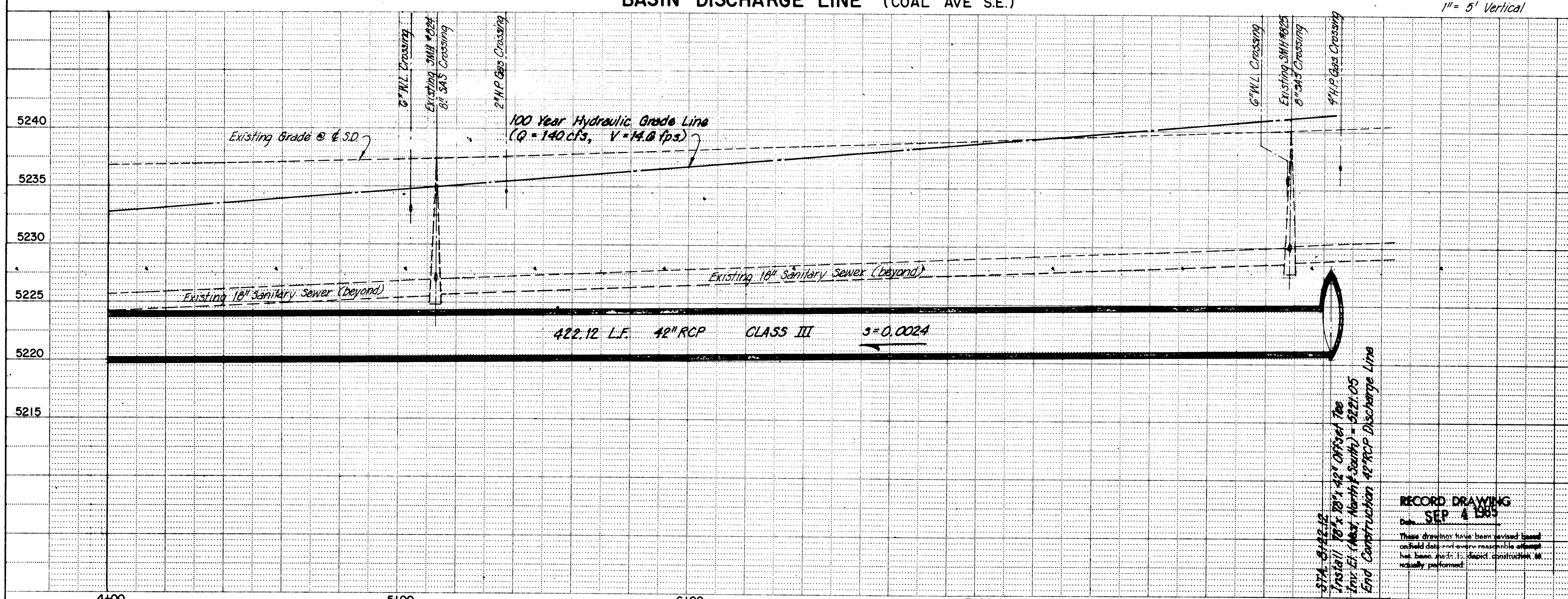
Construct Type I Wheel Chair Ramp with 6" Header Curb in conjunction with Storm Drain construction.

See Jefferson St. Storm Drain ~ Sheet 13

STA. 8+22.12 ℄ Discharge Line
(Opp. Sta. 10+08.5, 9.0' Rt. Svy. B.L. "1") =
STA. 0+00 ℄ Jefferson St. S.D.
STA. 0+00 ℄ Basin Inlet Line
Install 78"x78"x42" Offset Tee; End Constr. 42" RCP

SCALES
1" = 20' Horizontal
1" = 5' Vertical

BASIN DISCHARGE LINE (COAL AVE S.E.)



RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

Existing Manhole Data

Existing Sanitary Sewer Manholes

K-17S-824 ~ 4' Diameter
Sta. 13+00.70, 0.5' Lt. Svy. B.L. "B"
N. Rim El. = 37.73
24" East Inv. El. = 25.65
24" West Inv. El. = 25.57
8" North Inv. El. = 26.88
8" South Inv. El. = 26.91

K-17S-825 ~ 4' Diameter
Sta. 10+00.60, 5.2' Lt. Svy. B.L. "A"
N. Rim El. = 40.55
18" East Inv. El. = 28.68
18" West Inv. El. = 28.66
8" South Inv. El. = 29.70

Note: 78" x 78" x 42 offset Tee is to be a manufactured fitting supplied by the RCP supplier.

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE NEW MEXICO 6410 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS / REMARKS	BY

DESIGN			
DESIGNED BY	LMC, CD	DATE	Sept. 1984
DRAWN BY	PAP	DATE	Nov. 1984
CHECKED BY	CD	DATE	

26 1759 1285

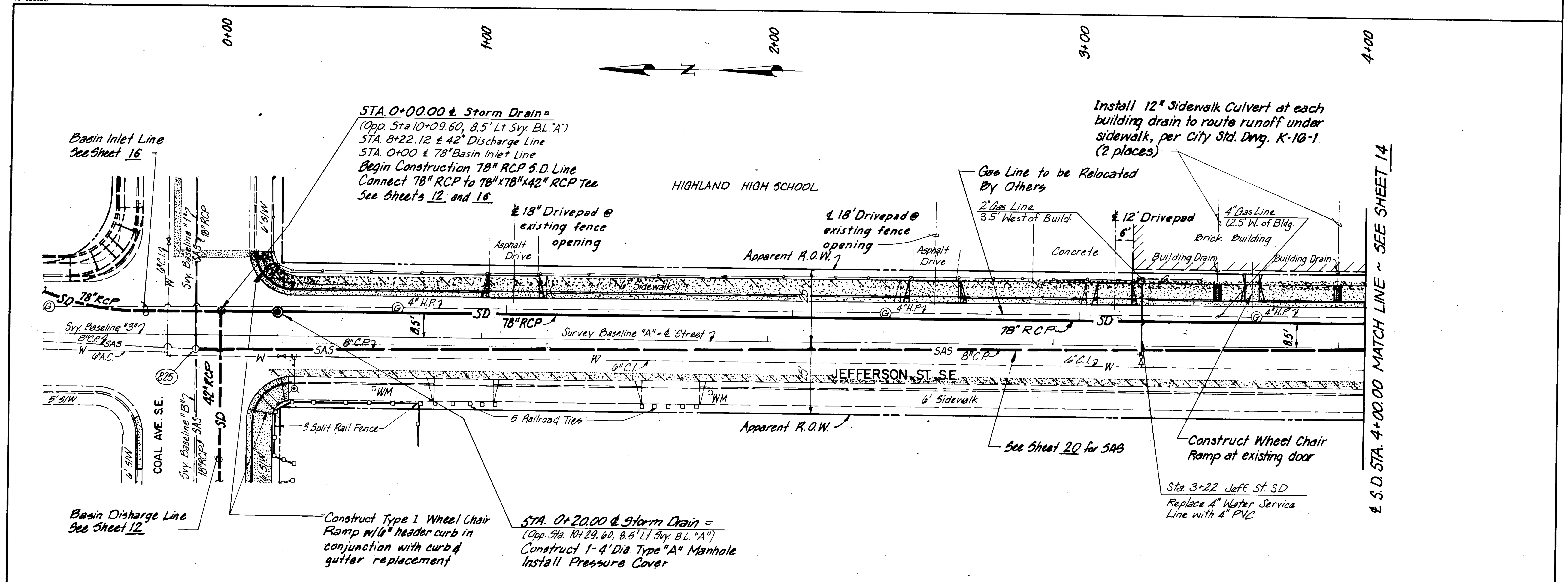
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM — PHASE I
STORM DRAIN PLAN AND PROFILE
BASIN DISCHARGE LINE
(STA. 4+00 to STA. 8+22.12)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	NADwH	3/13/85
~~A.C.E.~~-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

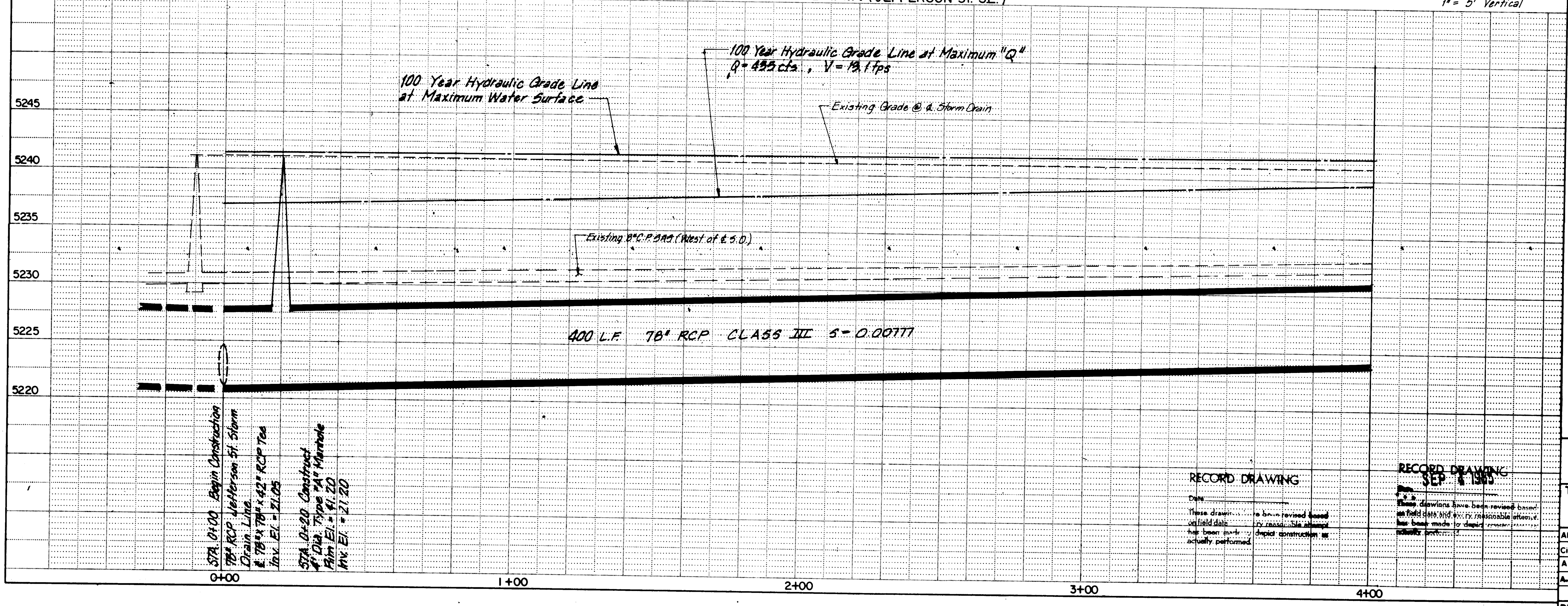
DRAWING NO. 1759 | MAP NO. K-17S | SHEET 12 OF 27

AF 22440B



JEFFERSON STREET STORM DRAIN (JEFFERSON ST. SE.)

SCALES
1" = 20' Horizontal
1" = 5' Vertical



RECORD DRAWING
Date
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

RECORD DRAWING
SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

Existing Manhole Data

Existing Sanitary Sewer Manholes

K-17S-825-4' Diameter
Sta. 10+00.60, 5.2' Lt. Svy. B.L. "A"
N. Rim El. = 40.55
18" East Inv. El. = 28.68
18" West Inv. El. = 28.66
8" South Inv. El. = 29.70
8" North Inv. El. = 29.85

NOTE:

Fence along east side of Jefferson to remain in place during construction. Contractor shall provide trench boxes, shoring or take other measures required to protect the fence. If fence is damaged, Contractor shall replace or repair fence to its original condition at no extra cost.

AS BUILT INFORMATION

CONTRACTOR	KNC Inc.
WORK STAKED BY	Leedshill-Herkenhoff
INSPECTOR'S ACCEPTANCE BY	Doug May DATE 10/25/85
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

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

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	JAE, CD	DATE Sept. 1984
DRAWN BY	KCW	DATE Nov. 1984
CHECKED BY	CD	DATE Dec. 1984

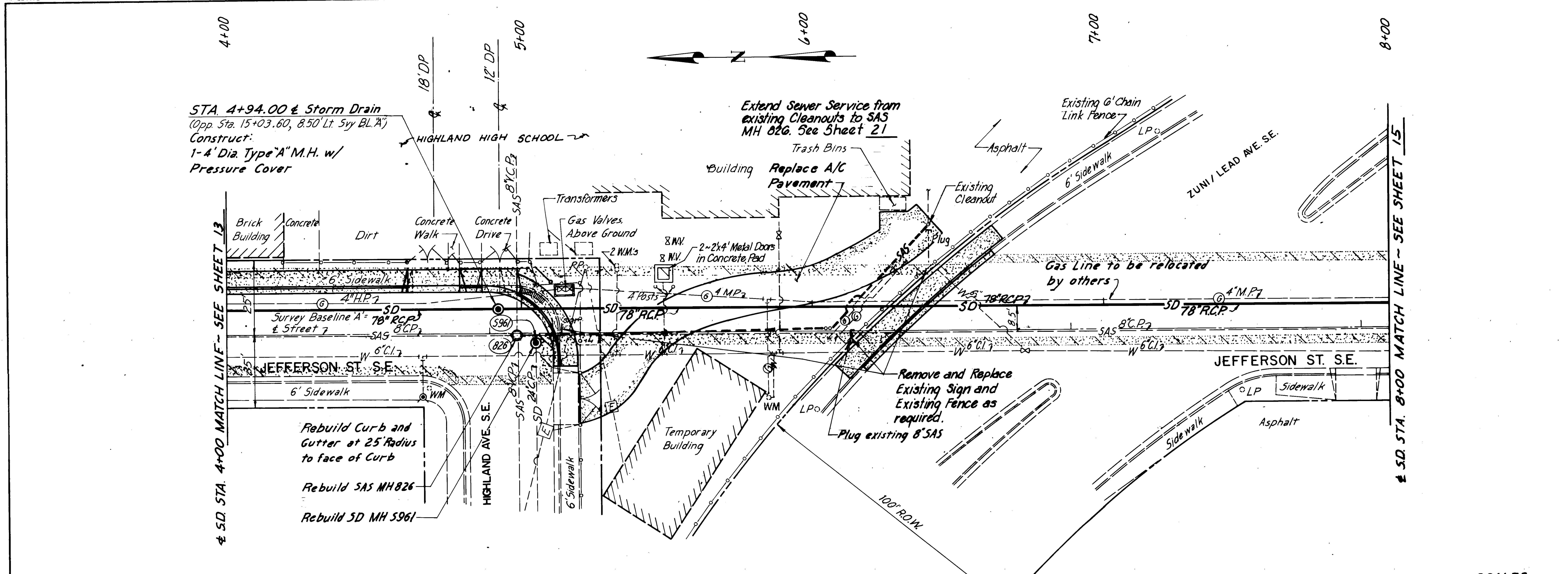
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
STORM DRAIN PLAN AND PROFILE
JEFFERSON STREET STORM DRAIN
(STA. 0+00 TO STA. 4+00)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
~~A.C.E.~~-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

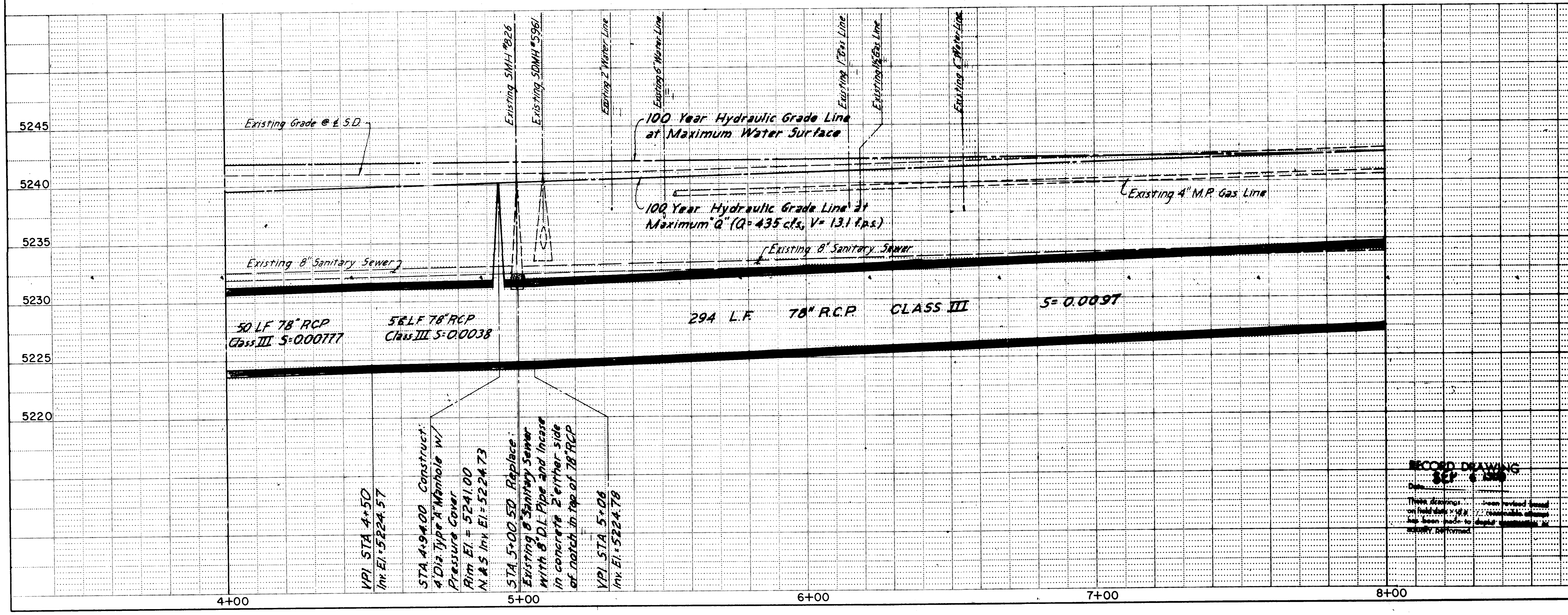
DRAWING NO.	MAP NO.	SHEET	OF
1759	K-17S	13	27

AF 22440B



JEFFERSON ST. STORM DRAIN (JEFFERSON ST. S.E.)

SCALES
1" = 20' Horizontal
1" = 5' Vertical



RECORD DRAWING
SEP 6 1985
Date
These drawings ... been revised based on field data ... reasonable attempt has been made to depict construction as actually performed.

Existing Manhole Data

Existing Sanitary Sewer Manholes

K-17S-826-4' Diameter
Sta. 15+09.70, 0.60' Rt. Svy B.L. "A"
N. Rim El. = 40.90
8" East Inv. El. = 31.20
8" South Inv. El. = 31.40
8" West Inv. El. = 31.10
8" North Inv. El. = 34.47

Existing Storm Drain Manholes

K-17S-S-962-6' Diameter
Sta. 15+16.30, 3.50' Rt. Svy. B.L. "A"
N. Rim El. = 40.86
24" West Inv. El. = 34.46

NOTES:

1. Replace existing asphalt paved areas in school yard with Std. Residential Section Paving.
2. See Note 1, Sheet 13 for fence along Jefferson St.
3. Temporary building to remain in place. Contractor shall provide trench box or shoring or take other necessary measures to protect the building.

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

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTORS ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 4110

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY JAE, CD DATE Sept. 1984
DRAWN BY KHK DATE Dec. 1984
CHECKED BY CD DATE Dec. 1984

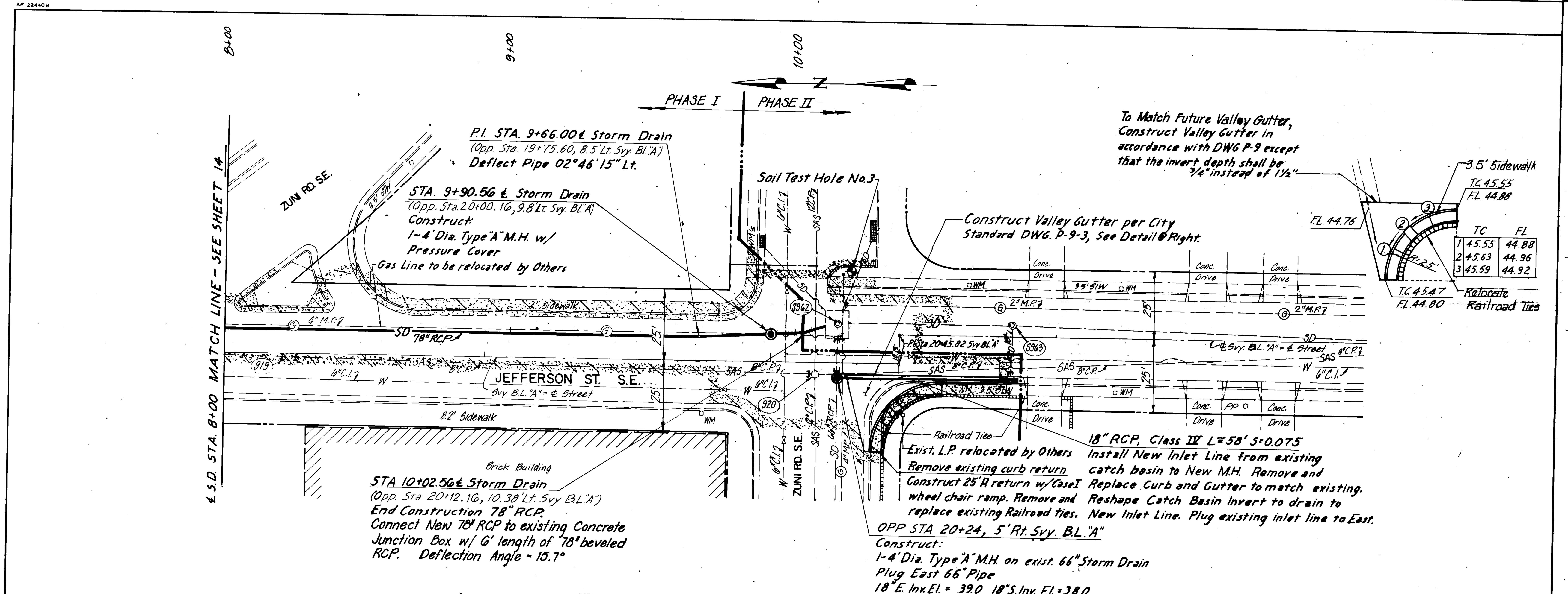
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
STORM DRAIN PLAN AND PROFILE
JEFFERSON ST. STORM DRAIN
(STA. 4+00 to STA. 8+00)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/12/85	Traffic	[signature]	[illegible]
A.C.E.-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 14 OF 27

JEFFERSON ST. STORM DRAIN (JEFFERSON ST. S.E.) CAMPUS WASH STORM DRAIN



Existing Manhole Data

Existing Sanitary Sewer Manholes

K-175-919-4' Dia.
Sta. 18+31.10, 10.70' Rt. Svy. B.L. "A"
N. Rim El. = 43.00
8" N. Inv. El. = 34.05
8" S. Inv. El. = 34.13

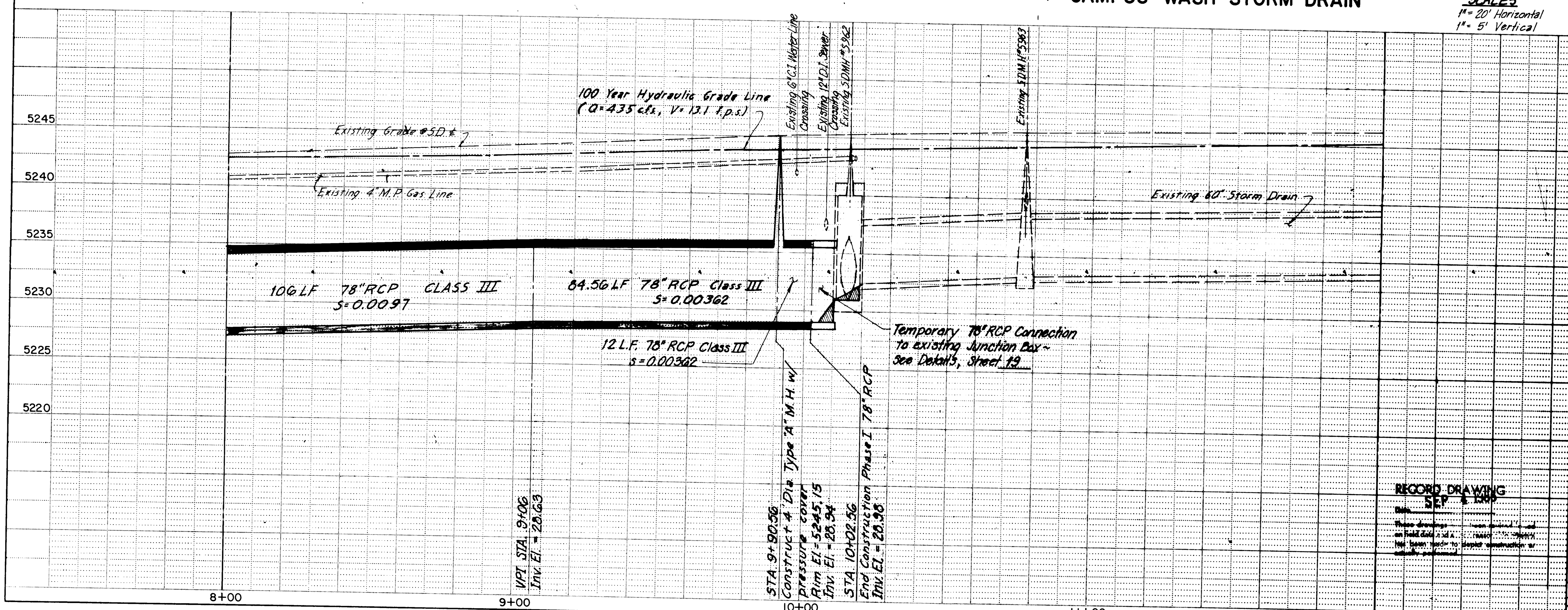
K-175-920-4' Dia.
Sta. 20+15.90, 4.0' Rt. Svy. B.L. "A"
N. Rim El. = 45.28
12" E. Inv. El. = 36.92
12" W. Inv. El. = 36.98
8" S. Inv. El. = 37.22
8" N. Inv. El. = 37.49

Existing Storm Drain Manholes

K-175-5962 - Junction Box
Sta. 20+23.50 - 14.10' Lt. Svy. B.L. "A"
N. Rim El. = 45.25
W. Inv. El. = 30.85
S. Inv. El. = 32.38

K-175-5963 - 6' Dia.
Sta. 20+84.40, 4.5' Lt. Svy. B.L. "A"
N. Rim El. = 45.64
18" W. Inv. El. = 42.14
60" N. & S. Inv. El. = 33.29

SCALES
1" = 20' Horizontal
1" = 5' Vertical



AS BUILT INFORMATION
CONTRACTOR KNC Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTORS ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
See Sheet 2 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE · NEW MEXICO · REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY JAE, CD DATE Sept. 1984
DRAWN BY KHK DATE Dec. 1984
CHECKED BY CD DATE Dec. 1984

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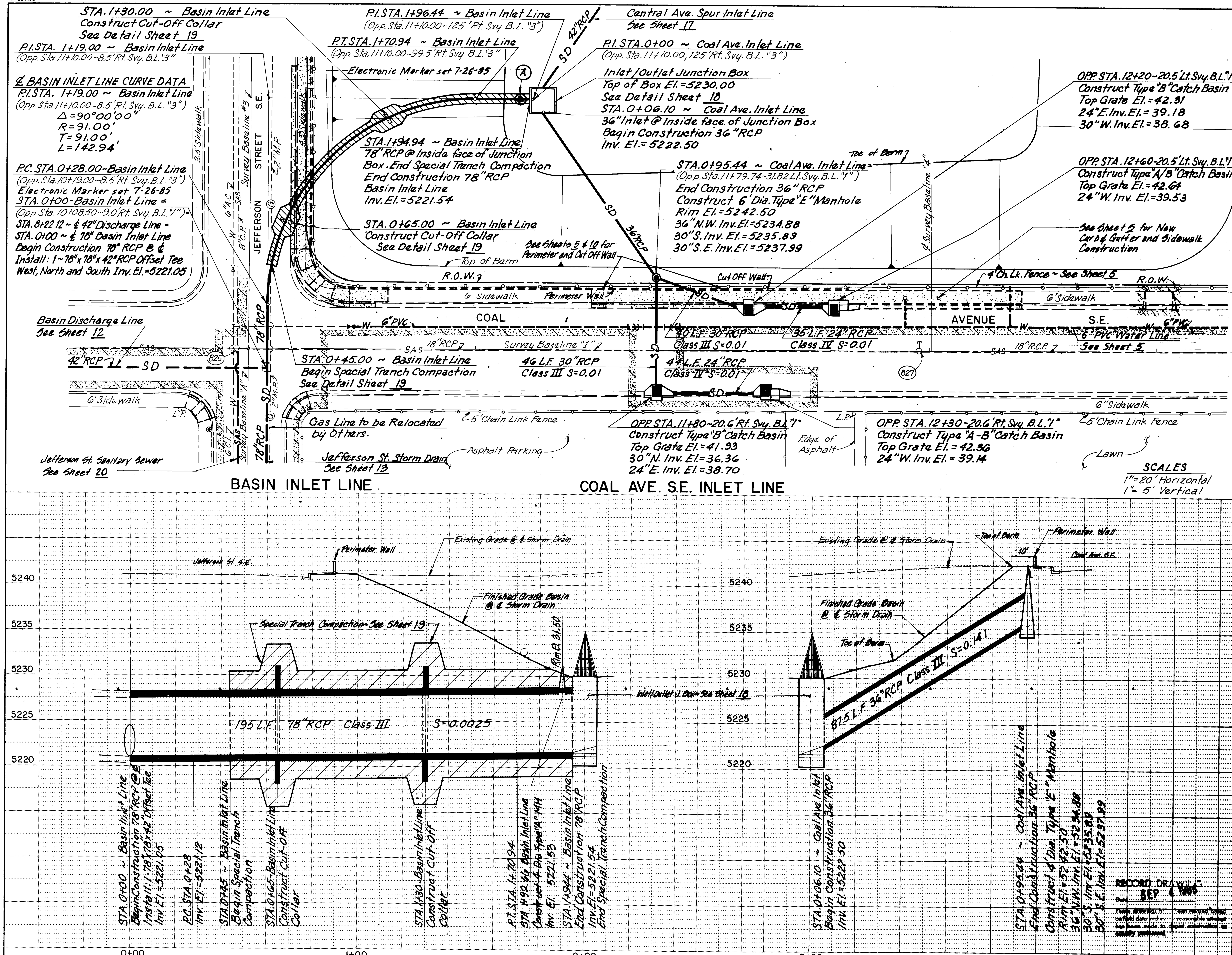
RECORD DRAWING
SEP 4 1989
Date
These drawings have been revised based on field data and a reasonable effort has been made to depict construction as actually performed.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM-PHASE I
STORM DRAIN PLAN AND PROFILE
JEFFERSON ST. AND CAMPUS WASH STORM DRAIN
(STA. 8+00 to STA. 12+00)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
A.C.E.-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 MAP NO. K-17S SHEET 15 OF 27



KEYED NOTE:

(A) STA. 1+92.44 ~ Basin Inlet Line
(Opp. Sta. 11+10.00~121.0'Rt. Svy. B.L. "3")
Construct 4' Dia. Type "A" MH

NOTES:

1. For Perimeter and Cut Off Walls, See Basin Layout Sheets 5 & 6 and Detail Sheet 10.
2. For Chain Link Fence Location See Basin Layout Sheets 5 & 6 and Detail Sheet 10.

AS BUILT INFORMATION

Contractor KNC, Inc.
Work Staked By Leedshill-Herkenhoff Date
Inspectors Acceptance By Doug May Date 10/25/85
Field Verification By Date
Drawings Corrected By Date

MICRO-FILM INFORMATION

Recorded By Date
No.

BENCH MARKS

See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REVISIONS REMARKS	BY

DESIGN
DESIGNED BY JAE C.D. DATE Nov. 1984
DRAWN BY L.A.B. DATE Dec. 1984
CHECKED BY C.D. DATE Dec. 1984

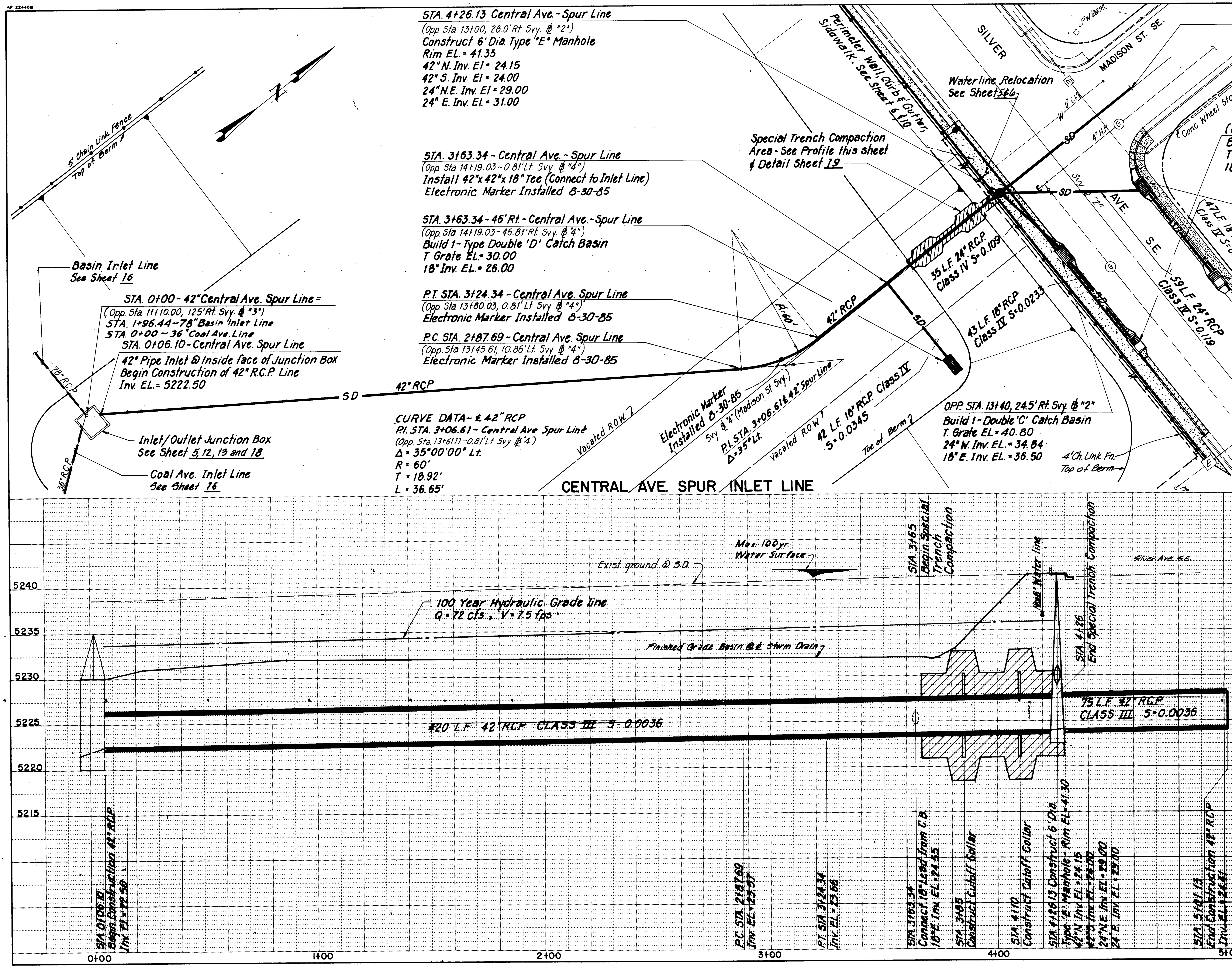
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE I
STORM DRAIN PLAN AND PROFILE
BASIN INLET LINE – COAL AVE. S.E. INLET LINE
(STA. 0+00 to STA. 1+94.94) (STA. 0+00 to STA. 0+95.44)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
A.C.E.-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 16 OF 27



AS BUILT INFORMATION

CONTRACTOR: K.N.C. Inc.
WORK STAKED BY: Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY: Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

SCALES:
1" = 20' Horizontal
1" = 5' Vertical

ENGINEER'S SEAL

NOTES:
1. For Chain Link Fence location, see Basin Layout Sheets 5 & 6 and Detail Sheet 10.

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

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JAE, CD DATE Sept. 1984
DRAWN BY DC DATE Dec. 1984
CHECKED BY CD DATE Dec. 1984

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

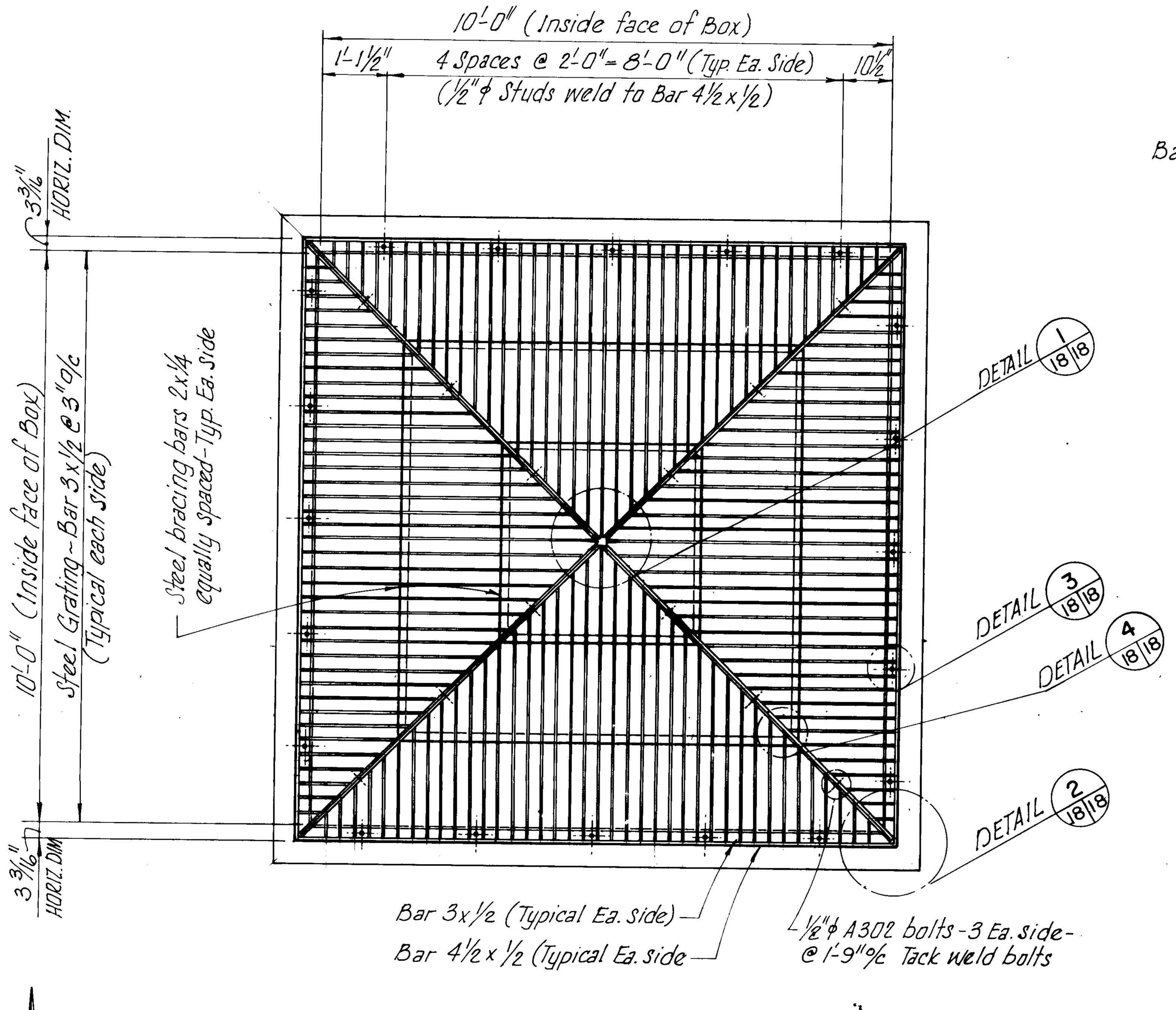
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STORM DRAIN PLAN AND PROFILE
CENTRAL AVE. SPUR INLET LINE
STA 0+00 TO STA. 5+01.13

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	NA DJH	3/13/85
A.C.E.-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

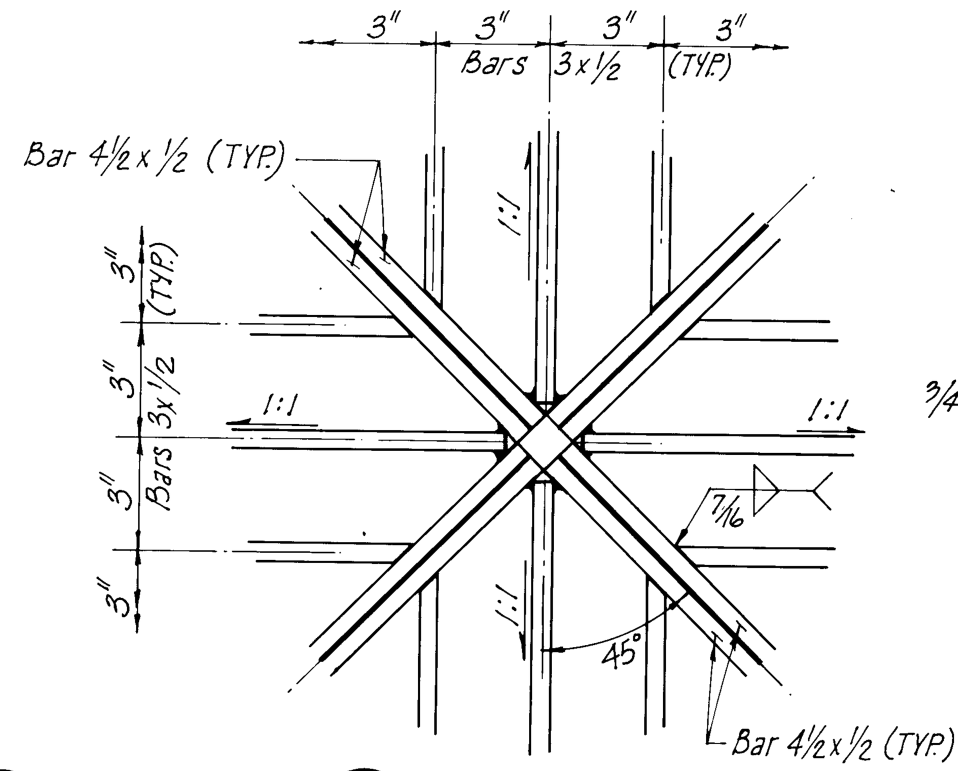
DRAWING NO. 1759 | MAP NO. K17S | SHEET 17 OF 27

AF 22440A

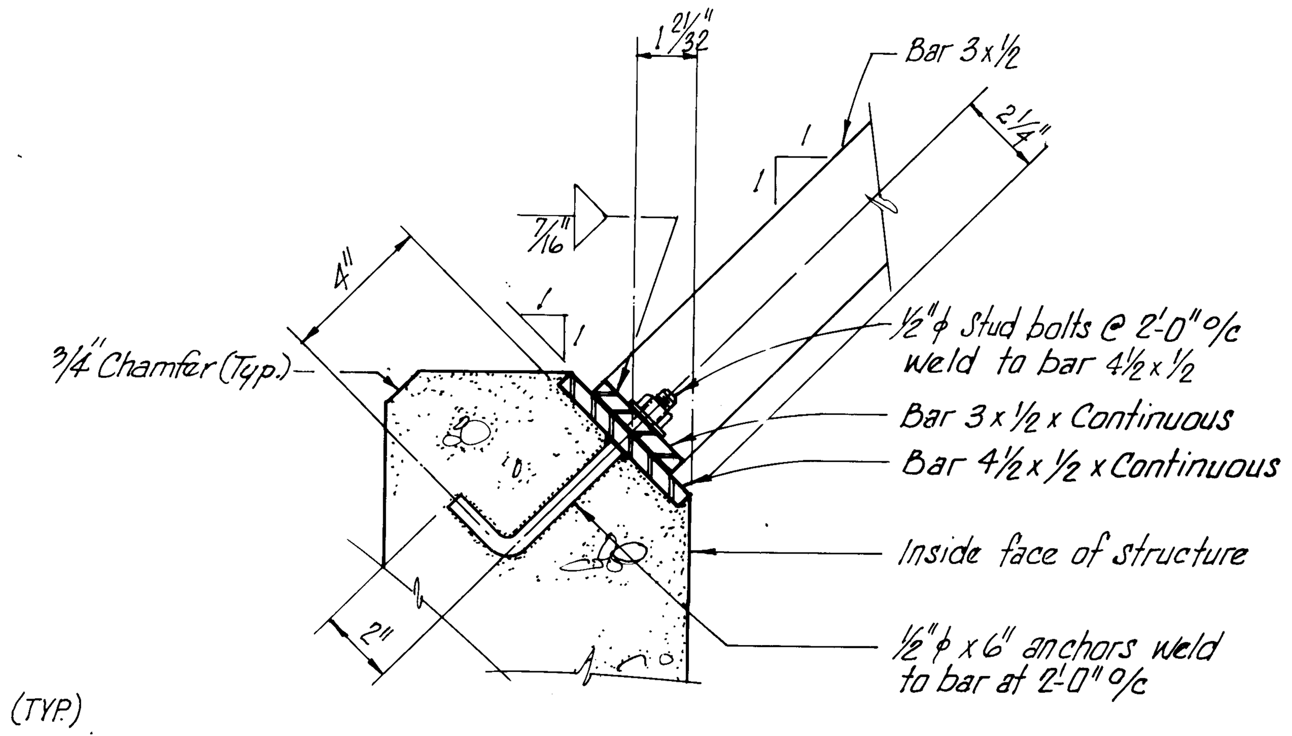
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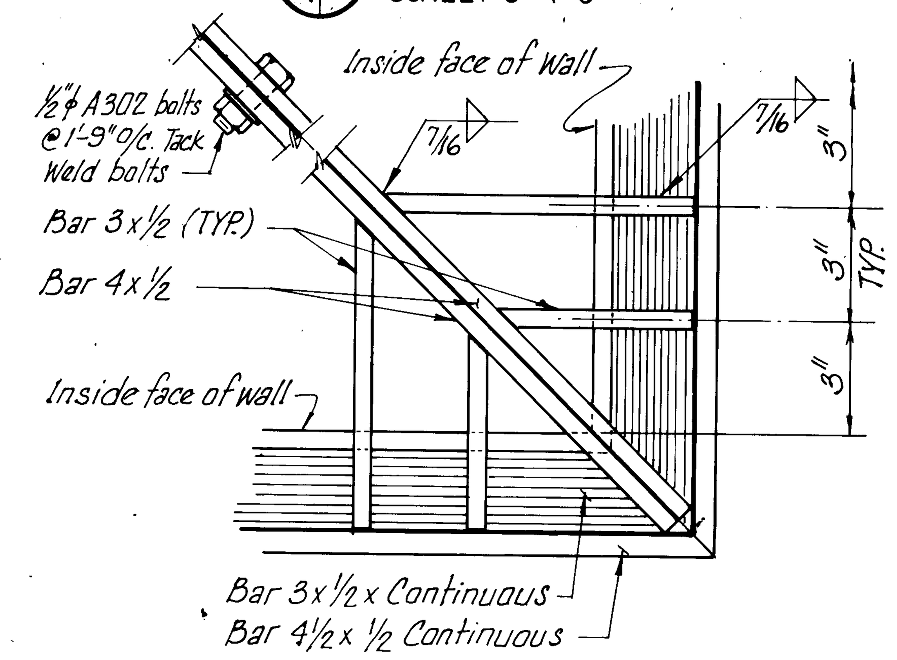
GRATING PLAN
SCALE: 1/2"=1'-0"



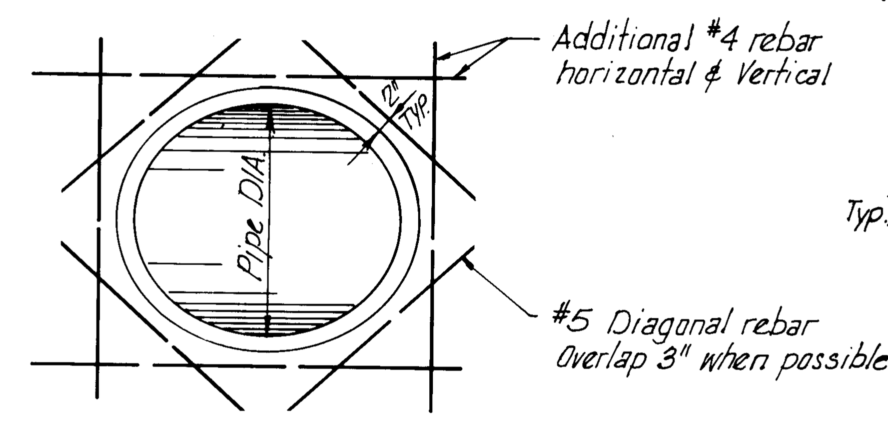
DETAIL 1/18
SCALE: 3"=1'-0"



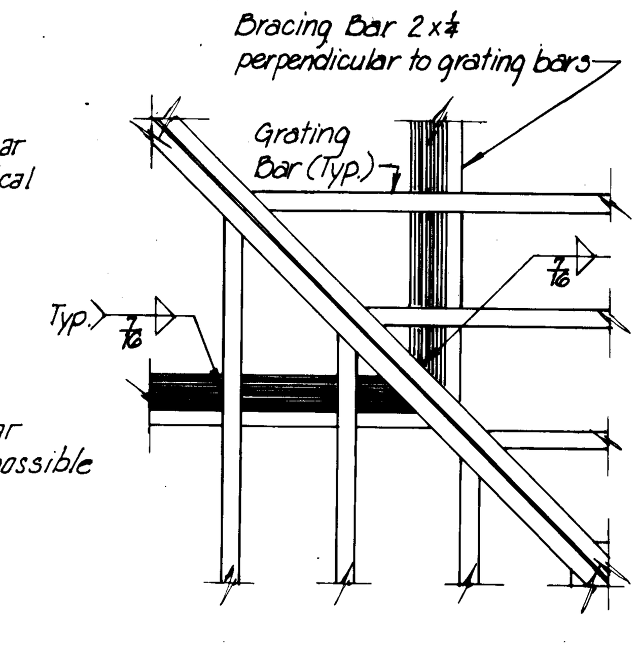
DETAIL 3/18
SCALE: 3"=1'-0"



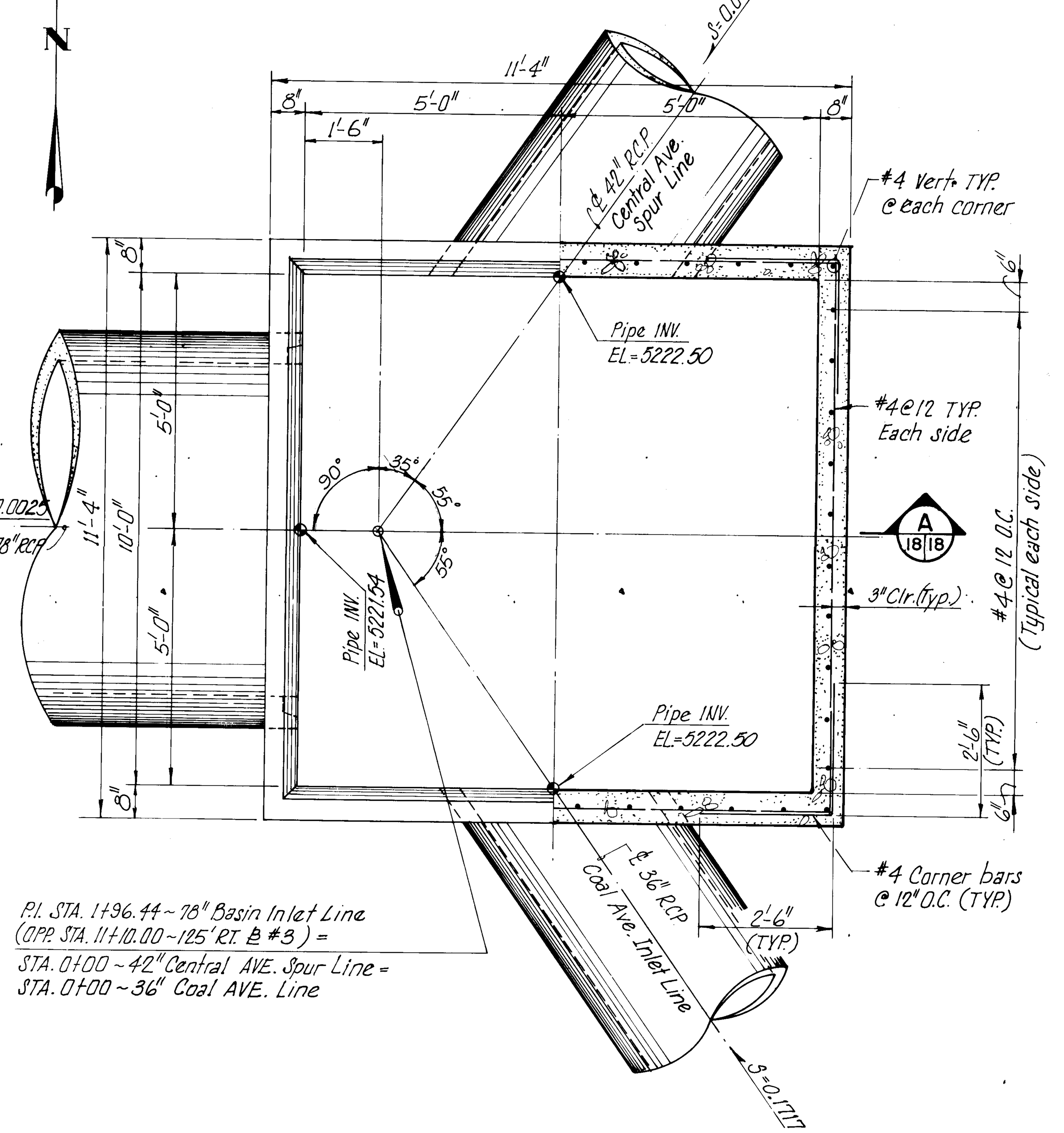
DETAIL 2/18
SCALE: 3"=1'-0"



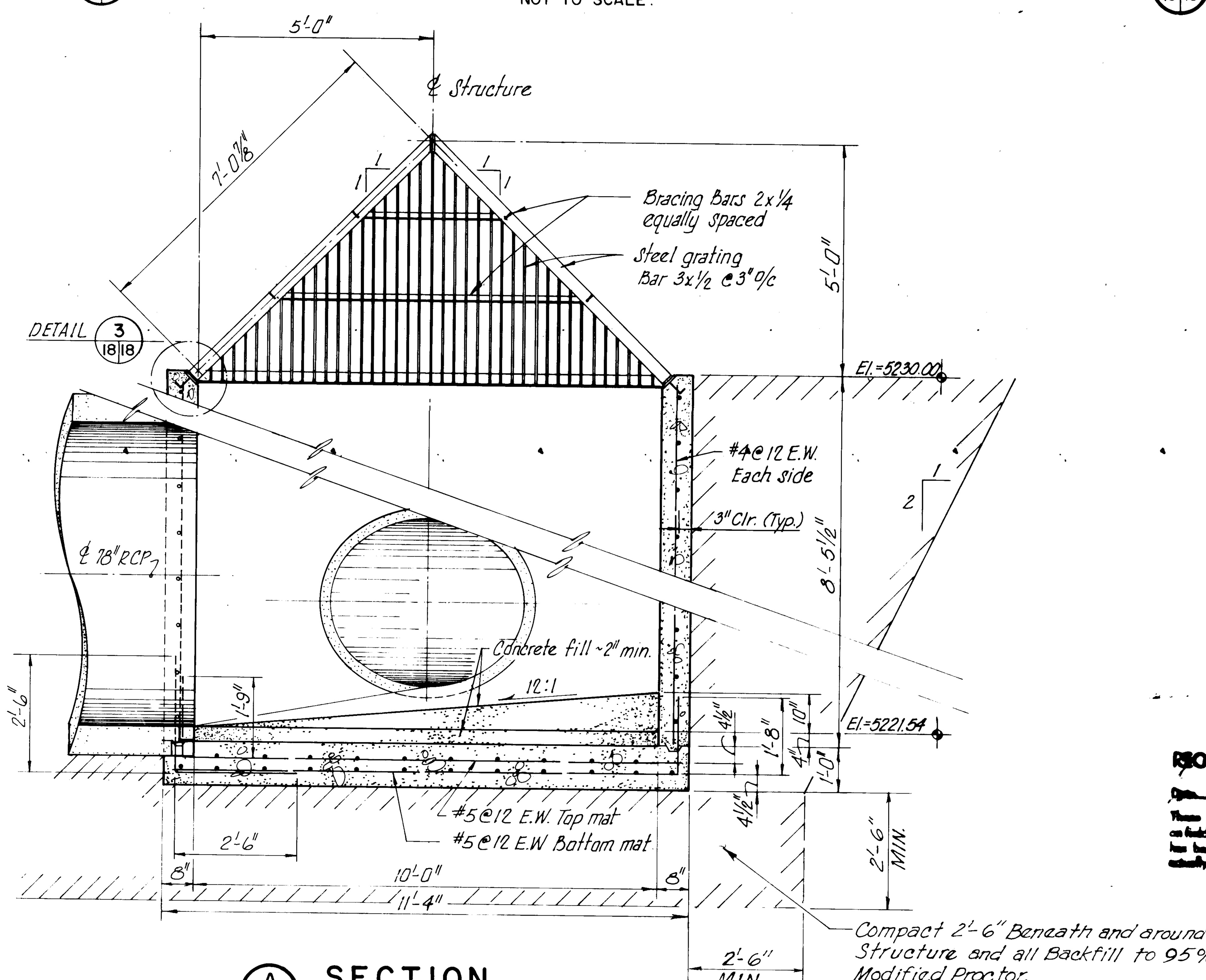
REINFORCEMENT DETAIL AT PIPE ENTRANCE - TYPICAL
NOT TO SCALE:



DETAIL 4/18
SCALE: 3"=1'-0"



PARTIAL PLAN AND PLAN SECTION
SCALE: 1/2"=1'-0"



SECTION A/18
SCALE: 1/2"=1'-0"

RECORD DRAWING
SEP 4 1985

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

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

AS BUILT INFORMATION
CONTRACTOR KNC. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	LMC, LD	DATE Oct. 1984
DRAWN BY	MC	DATE Dec. 1984
CHECKED BY	CD	DATE Dec. 1984

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

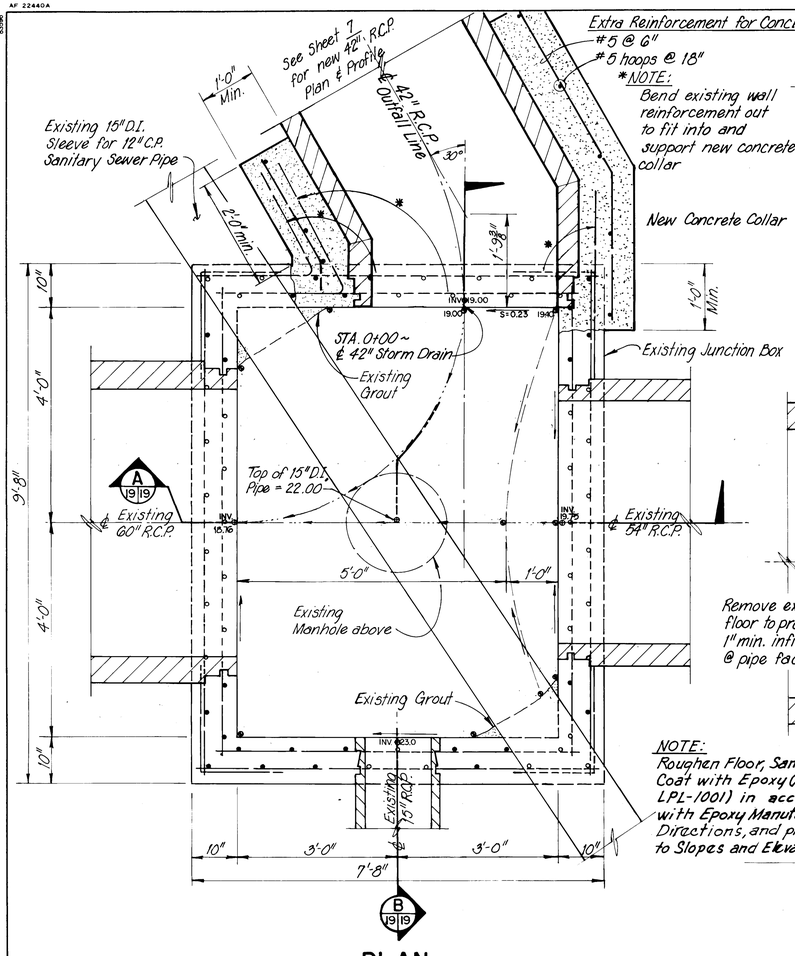
TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
BASIN INLET/OUTLET STRUCTURE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		3/13/85
A.C.E.-		3/13/85	Traffic	NA Dall	3/13/85
A.C.E.-Hydrology		3/13/85	Water		3/13/85

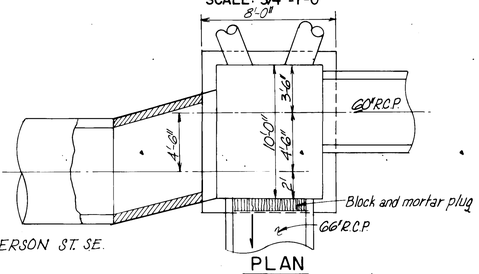
DRAWING NO. 1759 | MAP NO. K-17S | SHEET 18 OF 27

AF 22440A

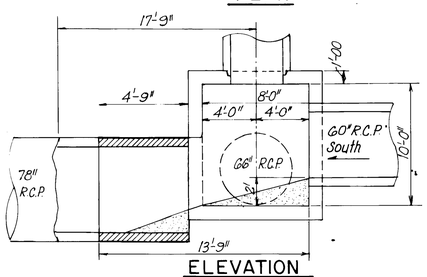
Extra Reinforcement for Concrete Collar:
#5 @ 6"
#5 hoops @ 18"
*NOTE: Bend existing wall reinforcement out to fit into and support new concrete collar



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

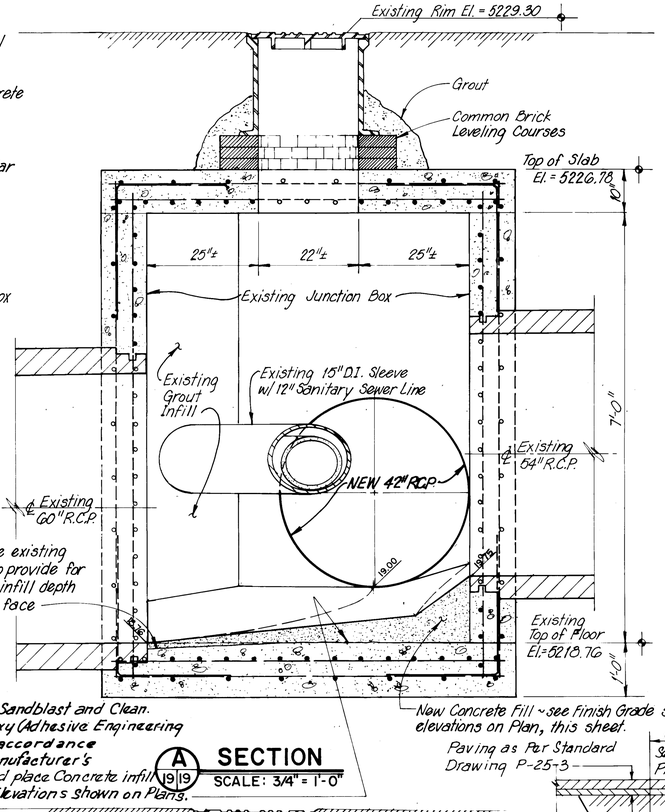


PLAN



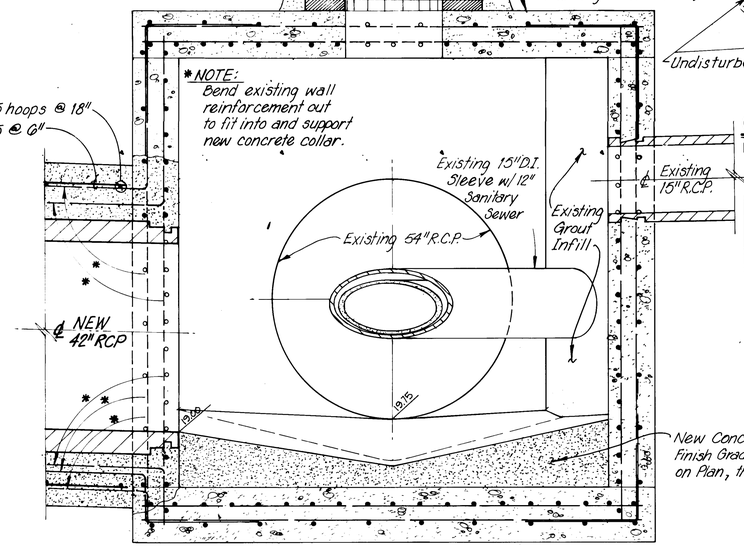
ELEVATION

TEMPORARY R.C.P.-JUNCTION BOX CONNECTION
SCALE: 3/16"=1'-0"

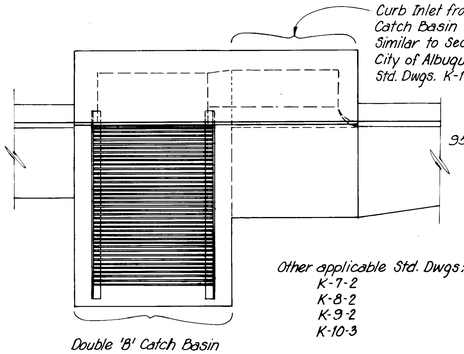


NOTE:
Roughen Floor, Sandblast and Clean. Coat with Epoxy (Adhesive Engineering LPL-1001) in accordance with Epoxy Manufacturer's Directions, and place Concrete infill to Slopes and Elevations shown on Plans.

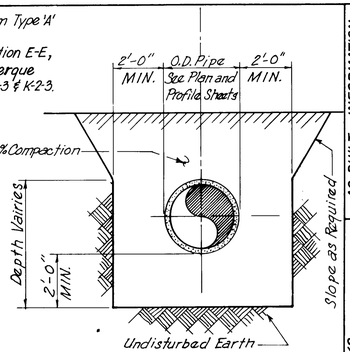
A 19/19 SECTION
SCALE: 3/4" = 1'-0"



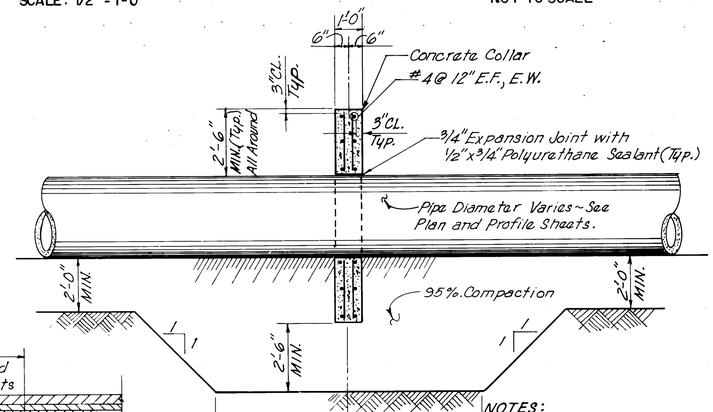
B 19/19 SECTION
SCALE: 3/4" = 1'-0"



TYPE 'A/B' CATCH BASIN DETAIL
SCALE: 1/2" = 1'-0"

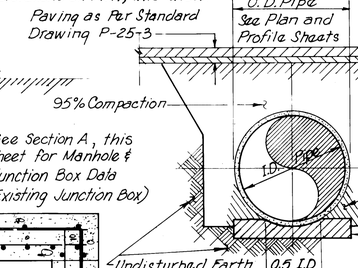


SPECIAL TRENCH COMPACTION DETAIL
NOT TO SCALE



CUT-OFF COLLAR DETAIL
SCALE: 3/8"=1'-0"

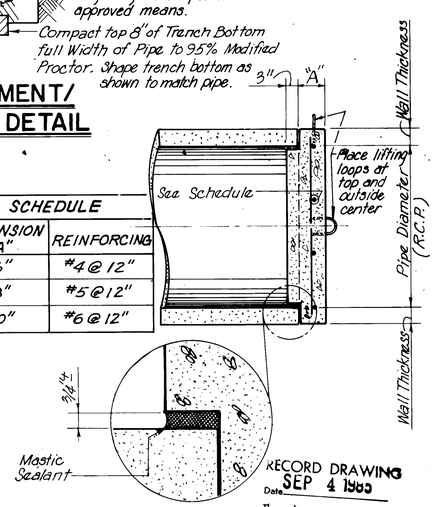
NOTES:
1. Collars can be circular or square.
2. Collars shall be cast in place at mid-section of pipe joints. Adjust stationing as necessary.
3. All backfill adjacent to collars shall be compacted to 95% Modified Proctor.
4. Collar faces shall be vertical.
5. Polyurethane Sealant shall be 2-component, non-sag type as specified in Section 103 of the Technical Specifications.
6. Fill and compaction operations above existing and newly installed lines must be performed with equipment and procedures which will not overload or otherwise damage the in-place pipes.
7. Inverts of pipe trenches shall be shaped to cradle pipe for at least ¼ of pipe I.D. and for at least 60% of pipe length.
8. Pipe plugs shall be considered incidental to storm drain construction. No pay item.



PIPE PLACEMENT/ COMPACTION DETAIL
NOT TO SCALE

REINFORCING SCHEDULE

PIPE DIAMETER	DIMENSION "A"	REINFORCING
24"-36"	6"	#4@12"
42"-54"	8"	#5@12"
60"-78"	10"	#6@12"



PIPE PLUG DETAIL
SCALE: 3/4"=1'-0"

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
See Sheet 3 for Bench Mark Datum

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leeds/Hendrickson DATE
INSPECTIONS
FIELD CHANGES BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWING CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
CARLOS ROMO NEW MEXICO 6119 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE Sept. 1984
		DESIGNED BY LMC, JD	DATE Dec. 1984
		DRAWN BY MC & KCW	DATE Dec. 1984
		CHECKED BY JD	

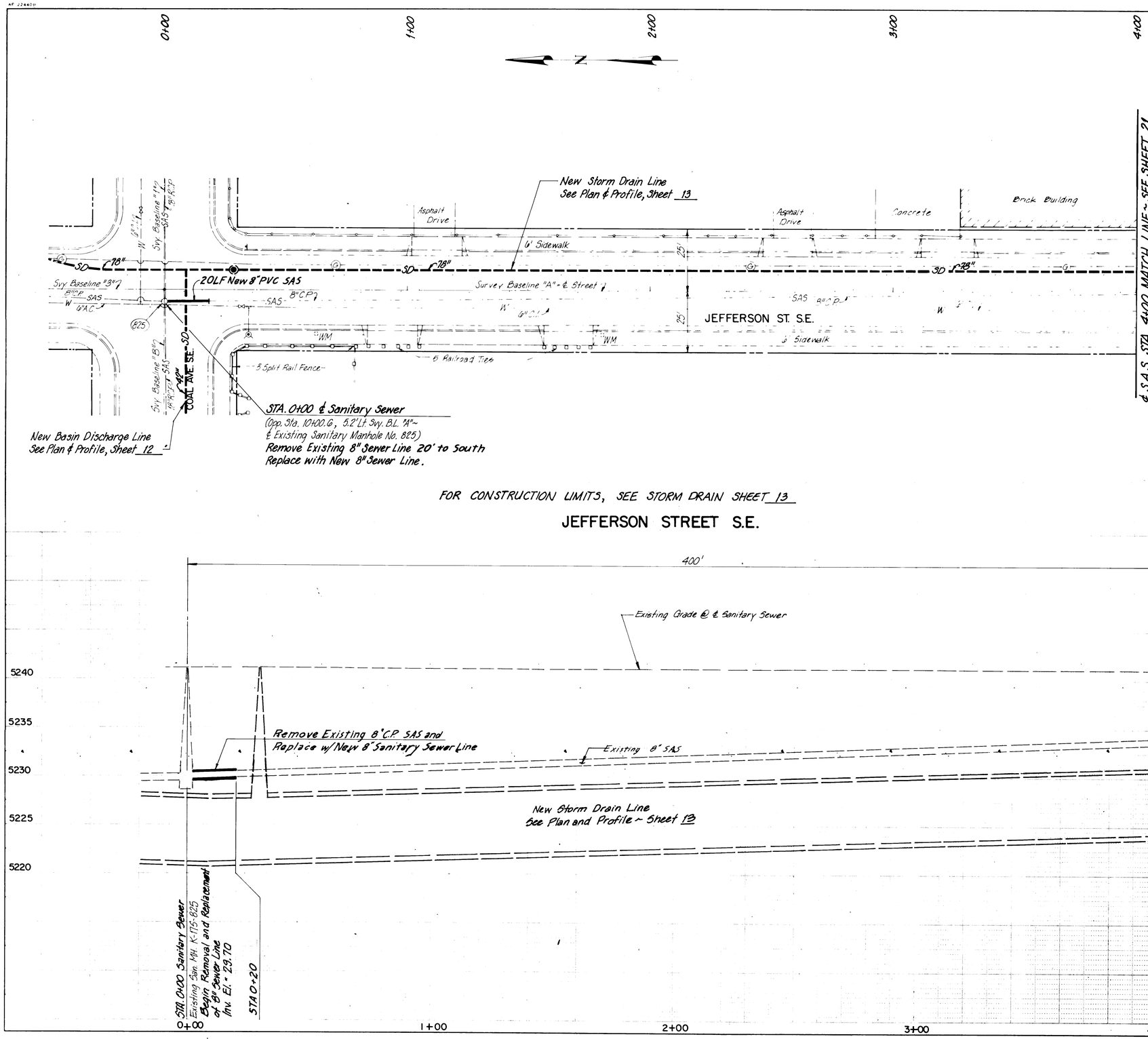
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM-PHASE I
EXISTING JUNCTION BOX AT WASHINGTON ST. S.E. AND LEAD AVE. S.E. AND MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		9/13/85
A.C.E.-Design		3/15/85	Traffic		3/13/85
A.C.E.-Hydrology		3/15/85	Water		9/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 19 OF 27



FOR CONSTRUCTION LIMITS, SEE STORM DRAIN SHEET 13

JEFFERSON STREET S.E.

SCALES
1" = 20' Horizontal
1" = 5' Vertical

Existing Manhole Data

Existing Sanitary Sewer Manholes

K-17S-825-4' Diameter
Sta. 10+00.60, 5.2' Lt. Svy. B.L. "A"
N. Rim El. = 40.55
18" East Inv. El. = 28.68
18" West Inv. El. = 28.66
8" South Inv. El. = 29.70

NOTES:

1. Prior to replacement of Sanitary Sewer between MH's 825 and 826, Contractor shall field verify invert elevations at those manholes and adjust design grade as required to match existing.

AS BUILT INFORMATION
CONTRACTOR KNC, Inc.
WORK INSPECTED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug Mey DATE 12/25/85
FIELD LOCATION BY DATE
FIELD CHANGES
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
CLINTON DODGE JR. NEW MEXICO 5412 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGNED BY J.A.E. C.D.	DATE Sept. 1984
		DRAWN BY K.C.H., P.A.P.	DATE Dec. 1984
		CHECKED BY C.D.	DATE Dec. 1984

RECORD DRAWING
SEP 4 1985
Date
These drawings have been reviewed based on field data and every reasonable attempt has been made to depict construction as actually performed.

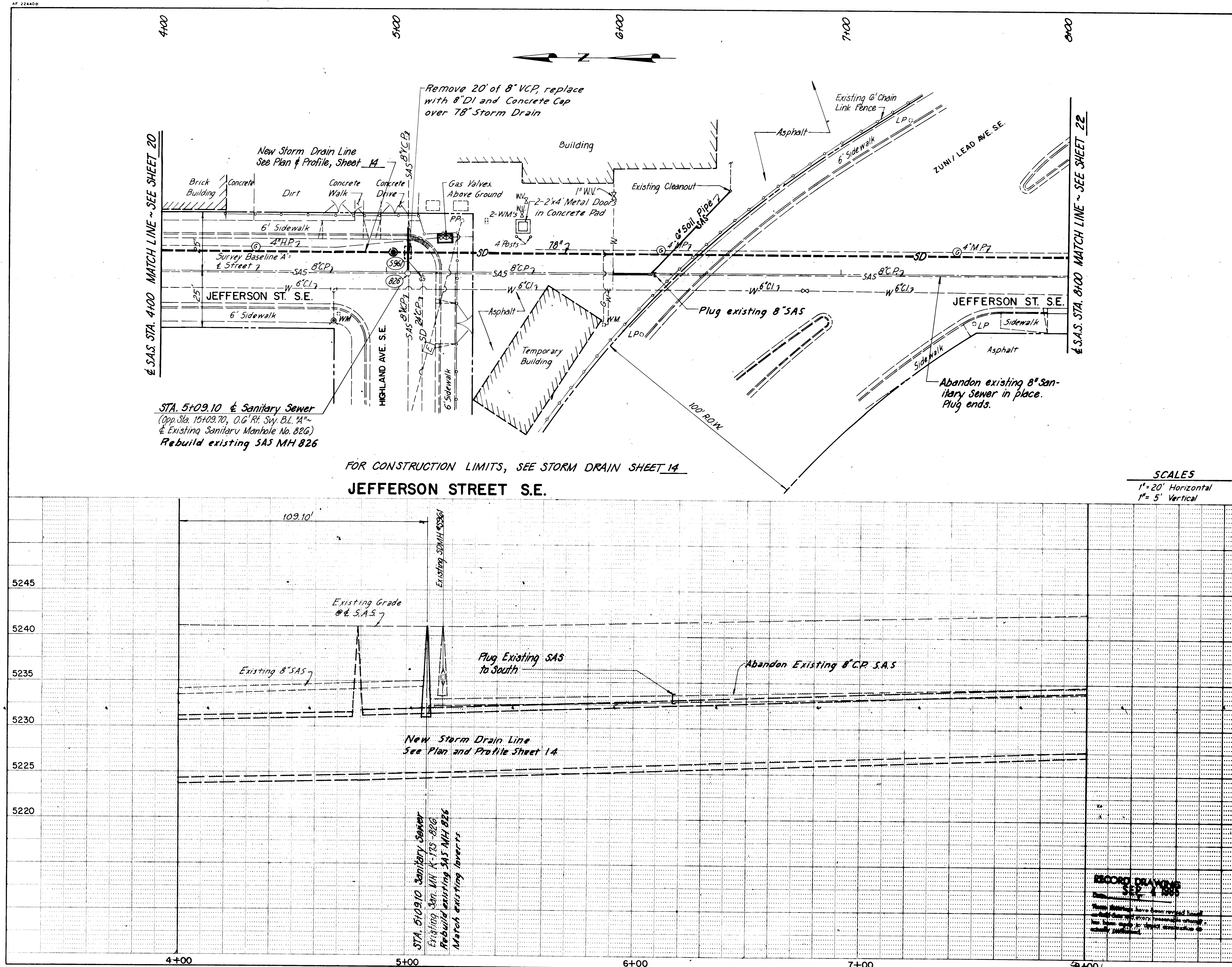
2.6 | 1759 | 2085

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
SANITARY SEWER PLAN AND PROFILE
JEFFERSON STREET S.E.
(STA 0+00 TO STA 4+00)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		3/13/85
A C E - Design		3/13/85	Traffic		3/13/85
A C E - Hydrology		3/13/85	Water		3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 20 OF 27



Existing Manhole Data

Existing Sanitary Sewer Manholes

K-17S-826-4' Diameter
Sta 15+09.70, 0.60' Rt. Svy B.L. "A"
N. Rim El. = 40.90
8" East Inv. El. = 31.20
8" South Inv. El. = 31.40
8" West Inv. El. = 31.10
8" North Inv. El. = 34.47

Existing Storm Drain Manholes

K-17S-S-962-6' Diameter
Sta 15+16.30, 3.50' Lt. Svy. B.L. "A"
N. Rim El. = 40.86
24" West Inv. El. = 34.46

NOTES:

1. Contractor shall field verify location, size and condition of existing sewer services from school building.
2. See sheet 14 for associated Storm Drain Construction

AS BUILT INFORMATION
CONTRACTOR KNC, Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTORS ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE N.M. NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY J.A.E., C.D. DATE Sept. 1984
DRAWN BY K.C.W., P.A.P. DATE Dec. 1984
CHECKED BY C.D. DATE Dec. 1984

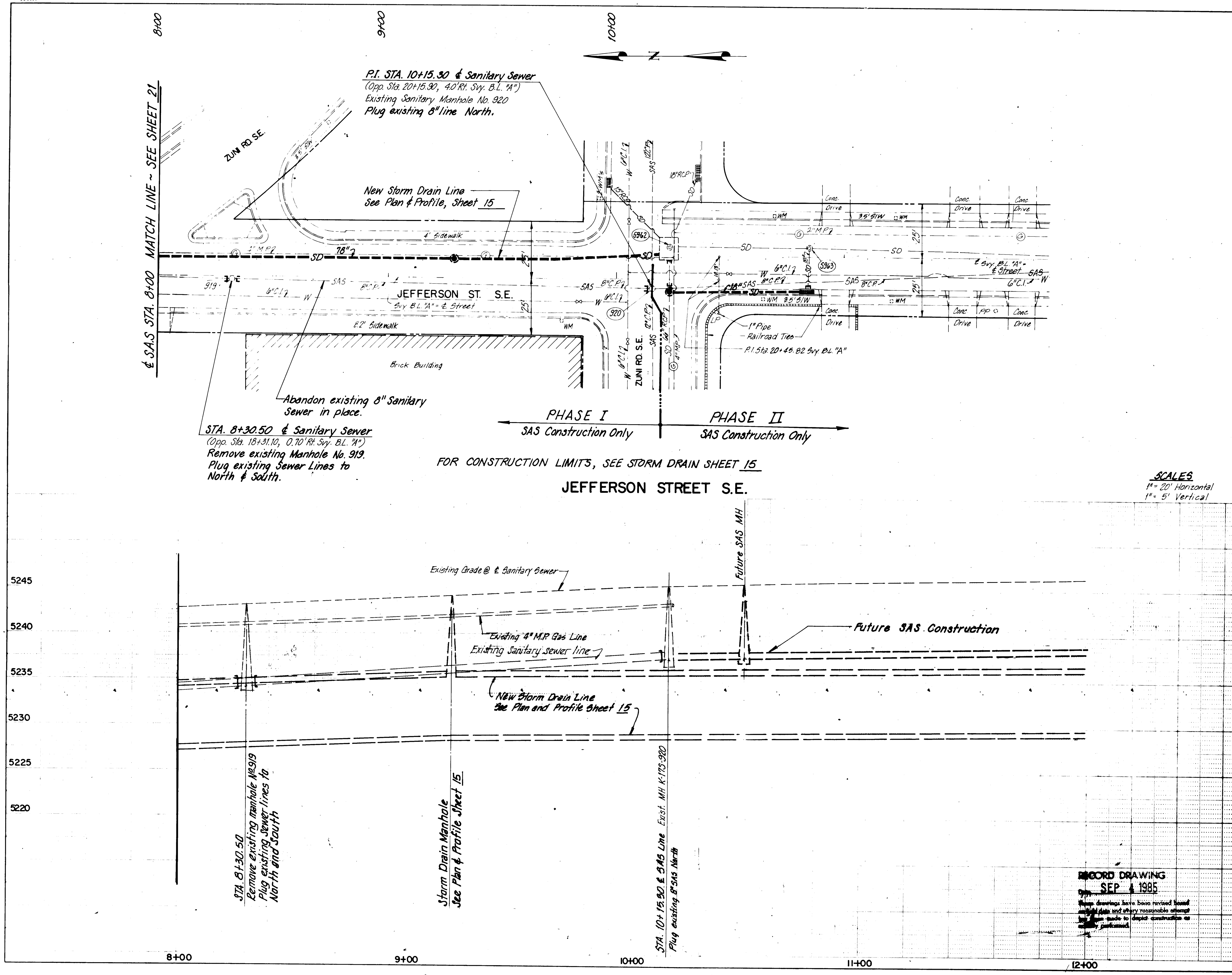
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
SANITARY SEWER PLAN AND PROFILE
JEFFERSON STREET S.E.
(STA. 4+00 TO STA. 8+00)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	NA DWH	3/13/85
A.C.E.-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 21 OF 27



RECORD DRAWING
SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

Existing Manhole Data

Existing Sanitary Sewer Manholes

K-175-919 - 4' Dia.
Sta. 18+31.10, 10.70' Rt. Svy. B.L. "A"
N. Rim El. = 43.00
8" N. Inv. El. = 34.05
8" S. Inv. El. = 34.13

K-175-920 - 4' Dia.
Sta. 20+15.90, 4.0' Rt. Svy. B.L. "A"
N. Rim El. = 45.28
12" E. Inv. El. = 36.92
12" W. Inv. El. = 36.98
8" S. Inv. El. = 37.22
8" N. Inv. El. = 37.49

Existing Storm Drain Manholes

K-175-5962 - 6' Dia.
Sta. 20+23.50 - 14.10' Lt. Svy. B.L. "A"
N. Rim El. = 45.25
W. Inv. El. = 30.85
S. Inv. El. = 32.38

K-175-5963 - 6' Dia.
Sta. 20+84.40, 4.5' Lt. Svy. B.L. "A"
N. Rim El. = 45.64
18" W. Inv. El. = 42.14
60" N. & S. Inv. El. = 33.29

AS BUILT INFORMATION
CONTRACTOR KNC Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum.

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE NEW MEXICO 6410 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY	C.D., J.A.E.	DATE	Sept. 1984
DRAWN BY	P.A.P., K.C.W.	DATE	Dec. 1984
CHECKED BY	C.D.	DATE	Dec. 1984

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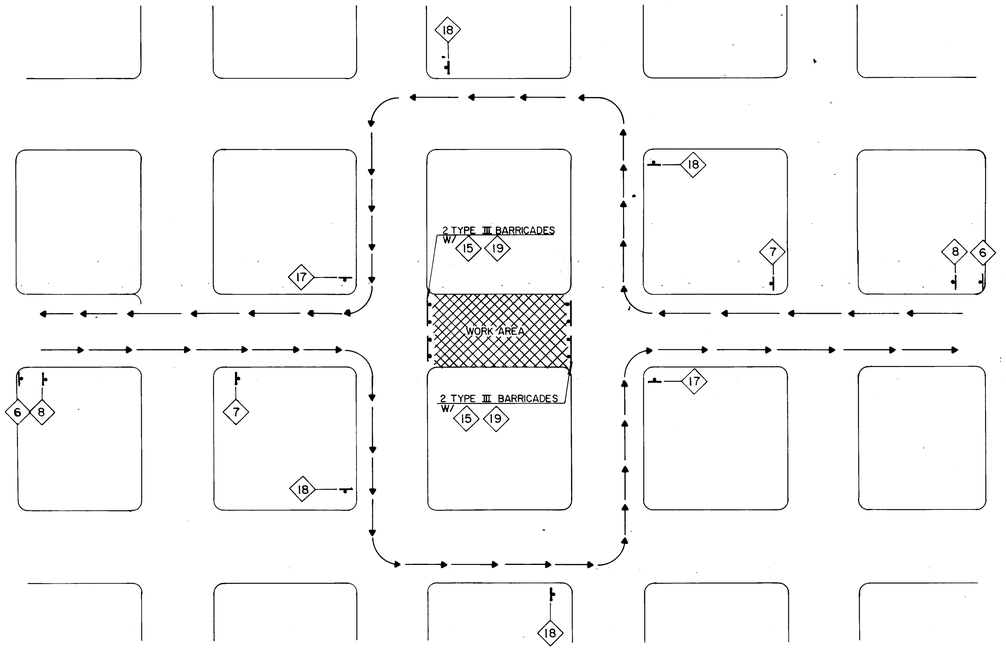
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
SANITARY SEWER PLAN AND PROFILE
JEFFERSON STREET S.E.
(STA. 8+00 TO STA. 12+00)

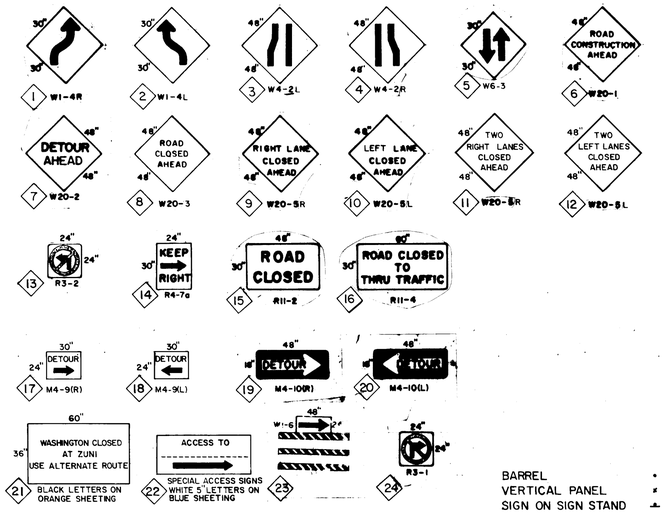
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E - Design	[signature]	3/13/85	Traffic	NA DWH	3/13/85
A.C.E - Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. L-17N | SHEET 22 OF 27

AF 22440A



TYPICAL STREET CLOSURE FOR MINOR STREETS ONLY (SPEEDS LESS THAN 25 M.P.H.)



SIGN LEGEND

BARREL
VERTICAL PANEL
SIGN ON SIGN STAND
TYPE III BARRICADE

KEY

GENERAL NOTES FOR TRAFFIC CONTROL

1. All traffic control devices shall comply with Chapter VI of the 1978 edition of the "Manual for Uniform Traffic Control Devices".
2. The contractor shall prepare and submit to the project engineer a detailed construction schedule, which is subject to the approval of the City Traffic Engineer, 3 working days prior to commencing construction.
3. Unless otherwise provided as part of the construction documents, the contractor shall prepare and submit to the project engineer a detailed traffic control plan, which is subject to the approval of the City Traffic Engineer, 3 working days in advance of any required closures.
4. Contractor shall notify the following services 24 hours in advance of any complete closures: Police Department, Fire Department, Ambulance Services, and the Transit Department.
5. Permits to barricade or detour traffic must be obtained for each phase of construction through the traffic engineers office at least 24 hours in advance of construction activities.
6. All advance warning signs and barricades must be installed before construction begins as directed by the engineer.
7. All sign locations will be selected in the field and approved by the project engineer.
8. All advance warning signs shall be 48" x 48" minimum.
9. All advance warning signs not directly applicable shall be removed, completely covered or turned away from oncoming traffic.
10. All construction signing shall be black on a reflectorized orange field unless otherwise specified. All construction barricades and channelization devices shall be orange on white, reflectorized, unless otherwise specified.
11. All signs will be ground mounted on single or double posts with the bottom of the sign 7 feet above sidewalk level. Existing posts may be used at some locations, with the approval of the project engineer. Portable sign supports will be acceptable as an alternate for signs which are in place for less than 1 week. All signs shall be mounted on sign stands or type III barricades.
12. All existing regulatory signs that need to be removed, relocated or reinstalled shall be done by the City of Albuquerque Traffic Engineering Division. The contractor shall notify the Traffic Engineering Division 3 working days in advance of any required work.
13. Traffic control devices required after dark are to be equipped with warning lights. Type (A) flashing warning lights shall be used on all advance warning signs and on all devices which are intended to warn motorist or pedestrians of hazards or obstructions in or near the travel path. Type (C) steady burn lights shall be used on all devices which are intended to define the travel path.
14. All signs, barricades and/or barrels will be reflectorized. All barrels may have sand or water ballast limited to 100 lbs.
15. All signs, barricades and/or barrels will be moved forward as the construction progresses (where applicable).
16. Contractor shall inspect and maintain all barricades at least once each day except for barricades on or adjacent to arterial and collector streets which shall be checked twice daily, including inspection during hours of darkness.
17. Barrels and barricades are not to be intermixed in the same series of channelization.
18. Excavations must be plated or patched prior to opening to traffic.
19. A minimum width of 11 feet shall be provided for traffic in one direction.
20. Equipment and materials are not to be stored within the street right-of-way during non-working hours.
21. The contractor shall maintain access to businesses and residences adjacent to the construction area.
22. The contractor shall provide and maintain a safe and adequate means of channelizing pedestrian traffic around all work areas throughout the period of construction. All such channelization shall be arranged to prevent pedestrians from having to enter the roadway in order to pass around the work areas.
23. The contractor shall be required to keep the public informed, through the local news media, of construction operations involving street or lane closures, and shall provide the City Traffic Engineer documented proof that this has been done.
24. All signs shall be mounted on sign stands or Type III barricades.
25. Maximum spacing for barrels shall be 30' except within 100' of an arterial or collector street intersection where the maximum spacing shall be 20' or adjacent to open excavation where the maximum spacing shall be 10' with flag line around excavation.
26. Maximum spacing of vertical panels shall be 20'.

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

AS BUILT INFORMATION
CONTRACTOR K.N.C. Inc
STAKED BY Leedshill-Herkenhoff DATE
INSPECTORS
ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWING CHANGES BY DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DOUGLAS NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN DATE Sept. 1984
DESIGNED BY Kevin Broderick
DRAWN BY Kirk DATE Dec. 1984
CHECKED BY DATE

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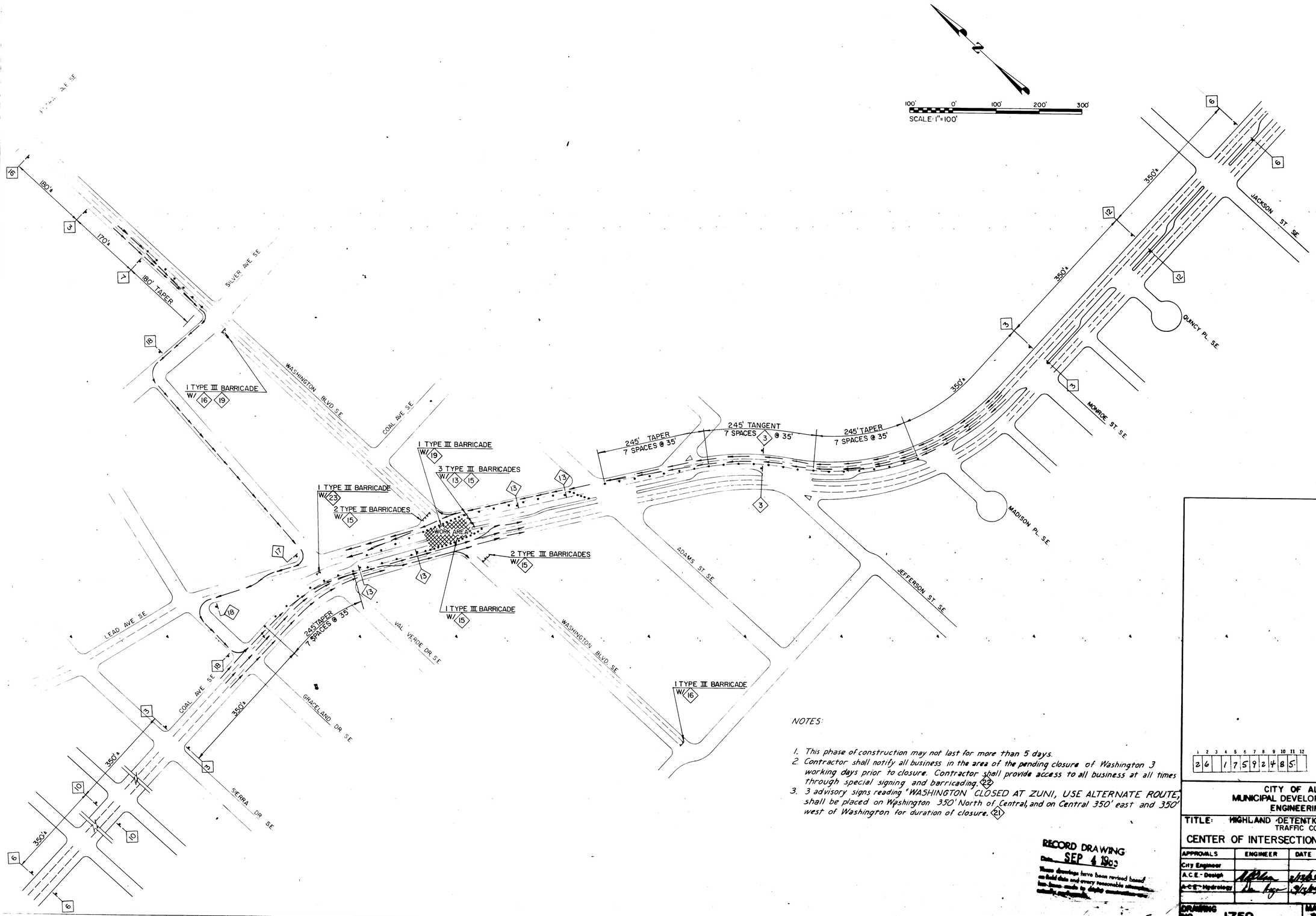
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM -PHASE I
TRAFFIC CONTROL PLAN

STREET CLOSURE PLAN AND TRAFFIC SIGN LEGEND

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		9/13/85
A.C.E. - Design		8/19/85	Traffic		3/3/85
~~A.G.E.~~ - Hydrology		3/13/85	Water		9/13/85

DRAWING NO. 1759
MAP NO. K-17S
SHEET 23 OF 27



NOTES:

1. This phase of construction may not last for more than 5 days.
2. Contractor shall notify all business in the area of the pending closure of Washington 3 working days prior to closure. Contractor shall provide access to all business at all times through special signing and barricading. (22)
3. 3 advisory signs reading "WASHINGTON CLOSED AT ZUNI, USE ALTERNATE ROUTE" shall be placed on Washington 350' North of Central, and on Central 350' east and 350' west of Washington for duration of closure. (21)

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict conditions as constructed.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
See Sheet 2 for Bench Mark Datum

AS BUILT INFORMATION
CONTRACTOR KVC, Inc.
WORK STAKED BY Landahl/Herkenhoff DATE
INSPECTOR'S ASSISTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWING CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

ENGINEER'S SEAL
REGISTERED NEW MEXICO PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY Kevin Broderick DATE Sept. 1984
DRAWN BY KHK DATE Dec. 1984
CHECKED BY DATE

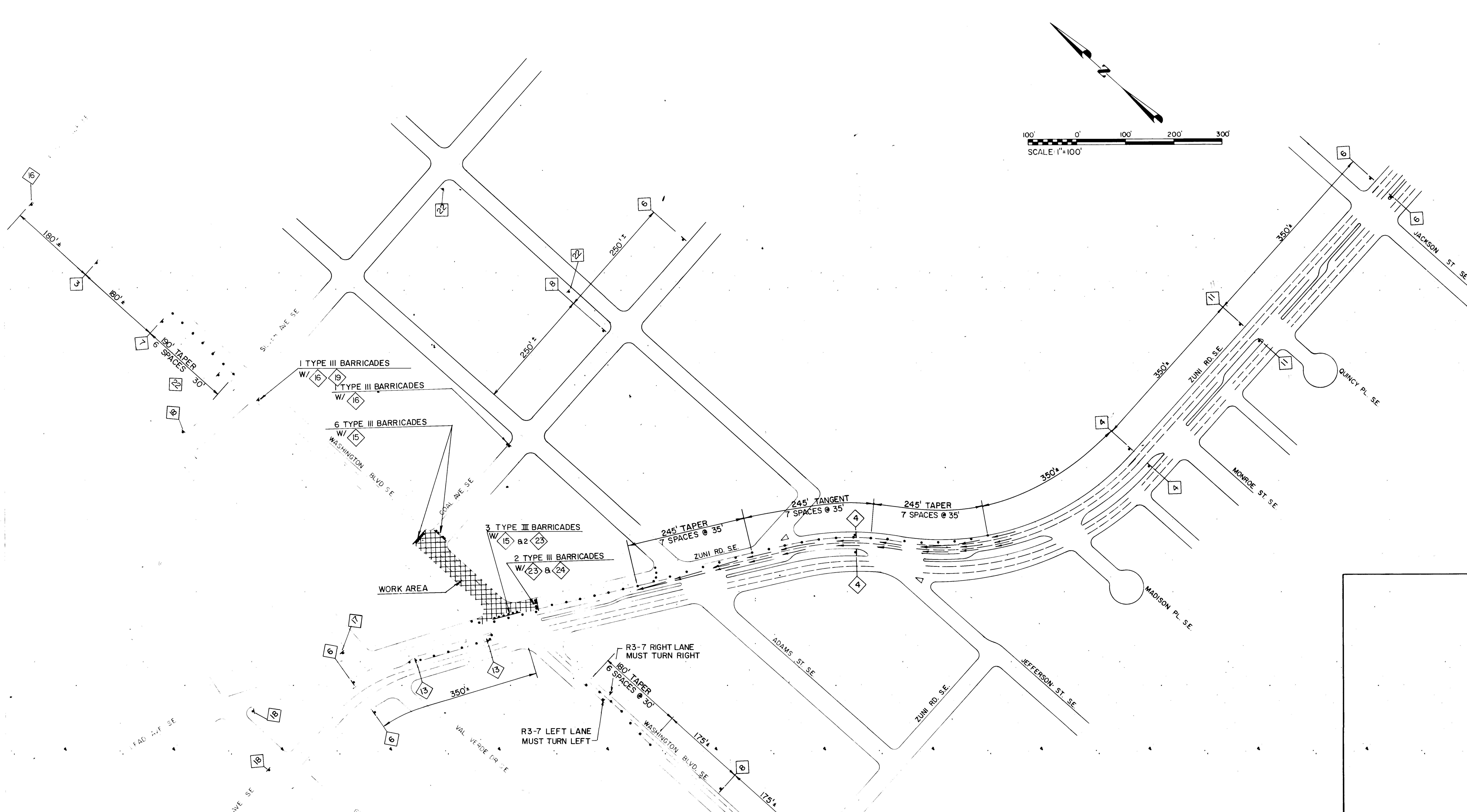
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
TRAFFIC CONTROL PLAN
CENTER OF INTERSECTION - WASHINGTON AND ZUNI S.E.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		9/13/85
A.C.E. - Design		9/13/85	Traffic		9/13/85
A.C.E. - Hydrology		9/13/85	Water		9/13/85

DRAWING NO. 1759
MAP NO. [illegible]
SHEET 24 OF 27



NOTES:

1. *Washington may be closed between Zuni and Coal inorder to install the Storm Drain if the following conditions are met:*
   - *A. Contractor shall notify all businesses in the area of the pending closure of Washington 3 working days prior to the closure.*
   - *B. The Contractor shall provide access to all businesses at all times through additional signing & barricading*
   - *C. 3. Advisory signs reading "Washington Closure At Zuni, Use Alternate Route" shall be placed on Washington 350' N. of Central, and on Central 350' East of and 350' West of Washington for duration of closure*
   - *D. Zuni Traffic may not be detoured as shown during this phase for more than 5 days.*
   - *E. Additional Barricades blocking Curb Cuts at the work area will be required to be installed by the Contractor.*

RECORD DRAWING
SEP 4 1986

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

AS BUILT INFORMATION

CONTRACTOR K.N.C. Inc.
WORK STAKED BY Leedshill-Herkenhoff DATE
INSPECTOR'S ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO

BENCH MARKS

See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY *Kevin Broderick* DATE *Sept. 1984*
DRAWN BY *KHK* DATE *Dec. 1984*
CHECKED BY DATE

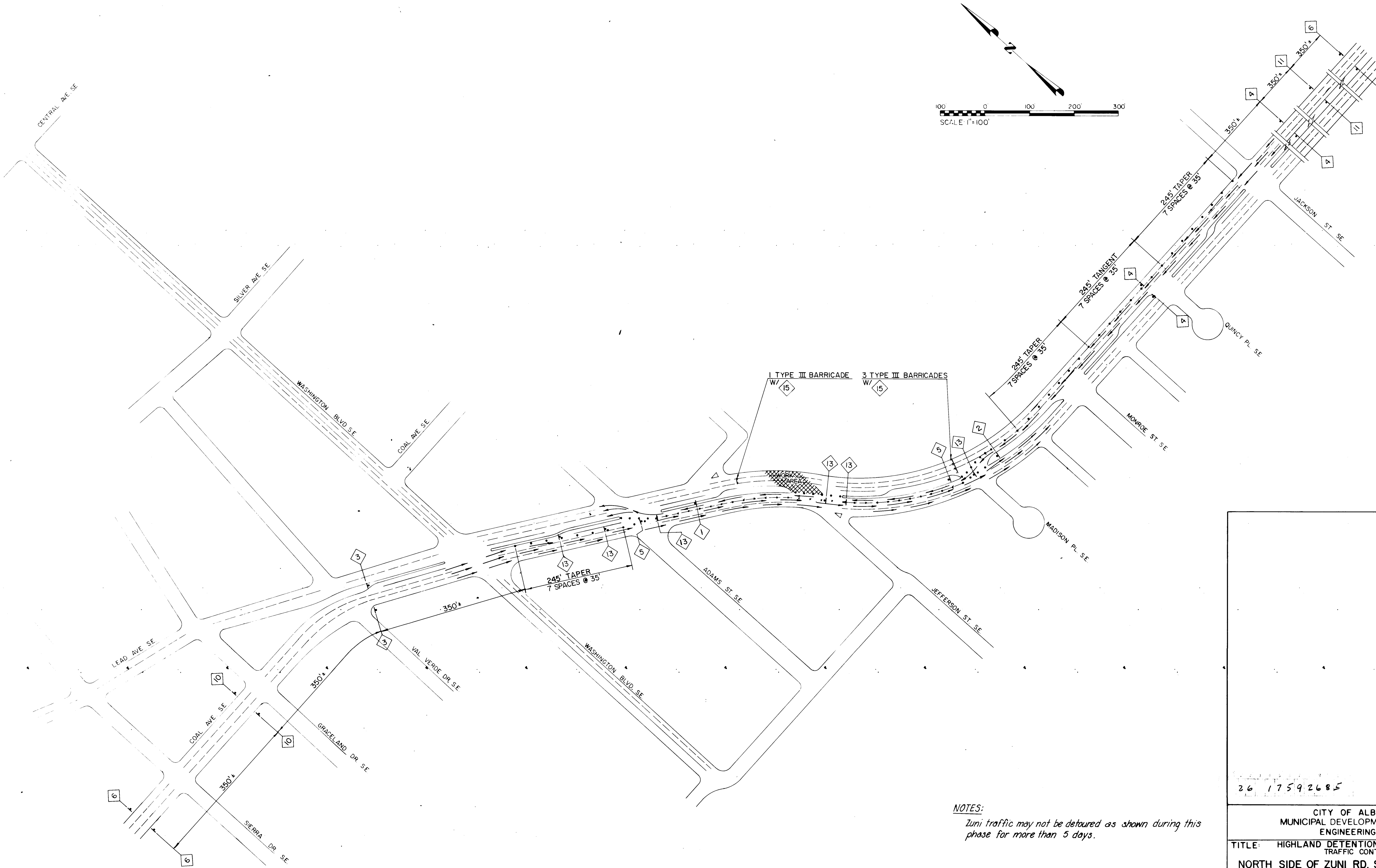
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2	6		1	7	5	9	2	5	8	5	

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM-PHASE I
TRAFFIC CONTROL PLAN
NORTH-EAST CORNER OF WASHINGTON AND ZUNI S.E.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E - Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
~~A.C.E~~ - Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 25 OF 27



NOTES:

Zuni traffic may not be detoured as shown during this phase for more than 5 days.

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

26 17592685

AS BUILT INFORMATION	
CONTRACTOR	KNC Inc.
WORK STAKED BY	Leedshill-Herkenhoff
INSPECTORS ACCEPTANCE BY	Doug May DATE 10/25/85
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CLINTON DODGE NEW MEXICO 8410 REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY

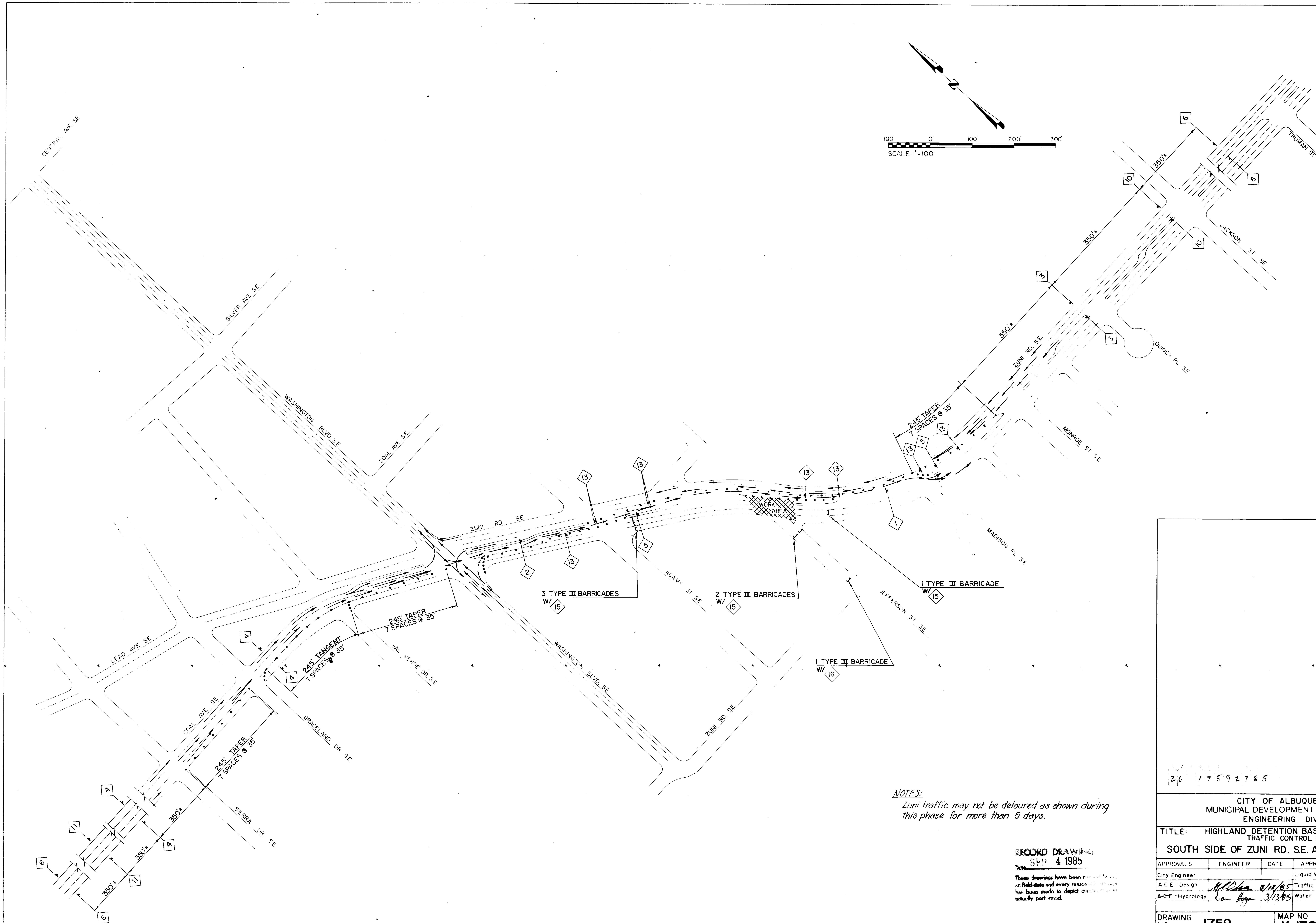
DESIGN
DESIGNED BY Kevin Broderick DATE Sept. 1984
DRAWN BY KHK DATE Dec. 1984
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE I
TRAFFIC CONTROL PLAN
NORTH SIDE OF ZUNI RD. S.E. AT JEFFERSON ST. S.E.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A.C.E.-Design	[signature]	3/13/85	Traffic	[signature]	3/13/85
~~A.C.E.~~-Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO. 1759 | MAP NO. K-17S | SHEET 26 OF 27



NOTES:
Zuni traffic may not be detoured as shown during this phase for more than 5 days.

RECORD DRAWING
Date SEP 4 1985
These drawings have been revised based on field data and every reasonable effort has been made to depict construction as actually performed.

26 17592785

AS BUILT INFORMATION

CONTRACTOR KNC. Inc.
WORK STAKED BY Leedshill/Herkenhoff DATE
INSPECTORS
ACCEPTANCE BY Doug May DATE 10/25/85
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO

BENCH MARKS

See Sheet 3 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

CLINTON DODGE — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS REMARKS	BY

DESIGN

DESIGNED BY Kevin Broderick DATE Sept. 1984
DRAWN BY KHK DATE Dec. 1984
CHECKED BY DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM-PHASE I
TRAFFIC CONTROL PLAN
SOUTH SIDE OF ZUNI RD. S.E. AT JEFFERSON ST. S.E.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	[signature]	3/13/85
A C E - Design	[signature]	3/13/85	Traffic	David W. Hamm	3/13/85
~~ACE~~ - Hydrology	[signature]	3/13/85	Water	[signature]	3/13/85

DRAWING NO 1759 | MAP NO. K-17S | SHEET 27 OF 27