SHT. 1-1

CITY OF ALBUQUERQUE, NEW MEXICO
DEPARTMENT OF TRANSPORTATION

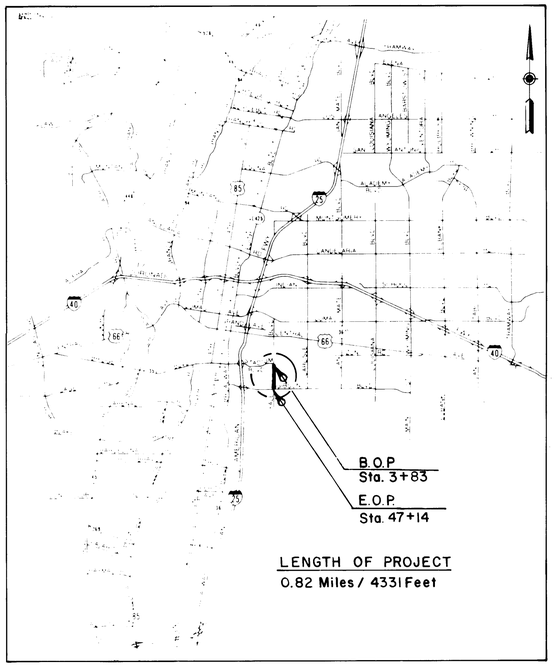
MUNICIPAL ARTERIAL PROJECT

MAP-M-6019(900)

MDD PROJECT NO. 1960

RECONSTRUCTION AND WIDENING

YALE BOULEVARD S. E. - Stadium Blvd. S. E. to Gibson Blvd. S. E.



LENGTH OF PROJECT
0.82 Miles / 4331 Feet

LOCATION MAP

INDEX

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1-1	COVER SHEET		
1-2	LOCATION MAP AND LEGEND		
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1-4	TYPICAL ROADWAY SECTIONS		
2-1	SUMMARY OF QUANTITIES & SPECIAL PROVISIONS		
2-2	MISCELLANEOUS QUANTITIES		
2-3	PIT SHEET		
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3-5 thru 3-8	YALE BLVD. UTILITUES-PLAN & PROFILE		
3-9	YALE BLVD. & STADIUM BLVD. INTERSECTION DETAILS		
3-10	YALE BLVD. & GIBSON BLVD. INTERSECTION DETAILS		
3-11 & 3-12	STORM DRAIN STRUCTURE DETAILS		
3-13 & 3-14	YALE BLVD WIDENING		
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4-7	PHASE III		
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4-9	PHASE IV-A		
4-10	PHASE IV-B		
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5-2	BARRICADES AND CHANNELIZATION DEVICES	3-15-80	SN 77-9
5-3	DESIGN LOADS FOR BREAKAWAY FLANGED CHANNEL POSTS	6-30-82	TBAC-001
5-4	DESIGN DETAILS FOR BREAKAWAY FLANGED CHANNEL POST & HARDWARE	6-29-82	TBAC-002
	YALE BOULEVARD WATER & SANITARY SEWER WATER RESOURCES DEPARTMENT		
~~W-1~~	~~TITLE SHEET & GENERAL NOTES~~		
1 thr. 4 ~~W-2 thru W-5~~	YALE BOULEVARD WATER & ~~SEWER REPLACEMENTS~~		
1 thru 3	YALE BOULEVARD SEWER		

PROJECT 1960

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

No.	DESCRIPTION	DATE	BY
1	As-Built Revisions	6-86	WMA

REVISIONS (OR CHANGE NOTICES)

Russell B. Snyder 1-15-87

26 19600187

E.U. Lanning 1/26/85
CHIEF HIGHWAY ADMINISTRATOR — DATE
STATE OF NEW MEXICO, HIGHWAY DEPARTMENT

C. D. Shepard 1/22/85
CITY ENGINEER, CITY OF ALBUQUERQUE — DATE

Joseph A. Martinez 1-21-
DIRECTOR, DEPARTMENT OF TRANSPORTATION — DATE
CITY OF ALBUQUERQUE

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM L. MATOTAN

William L. Matotan 1/24/85
PREPARED BY WILLIAM MATOTAN & ASSOCIATES, INC. — DATE

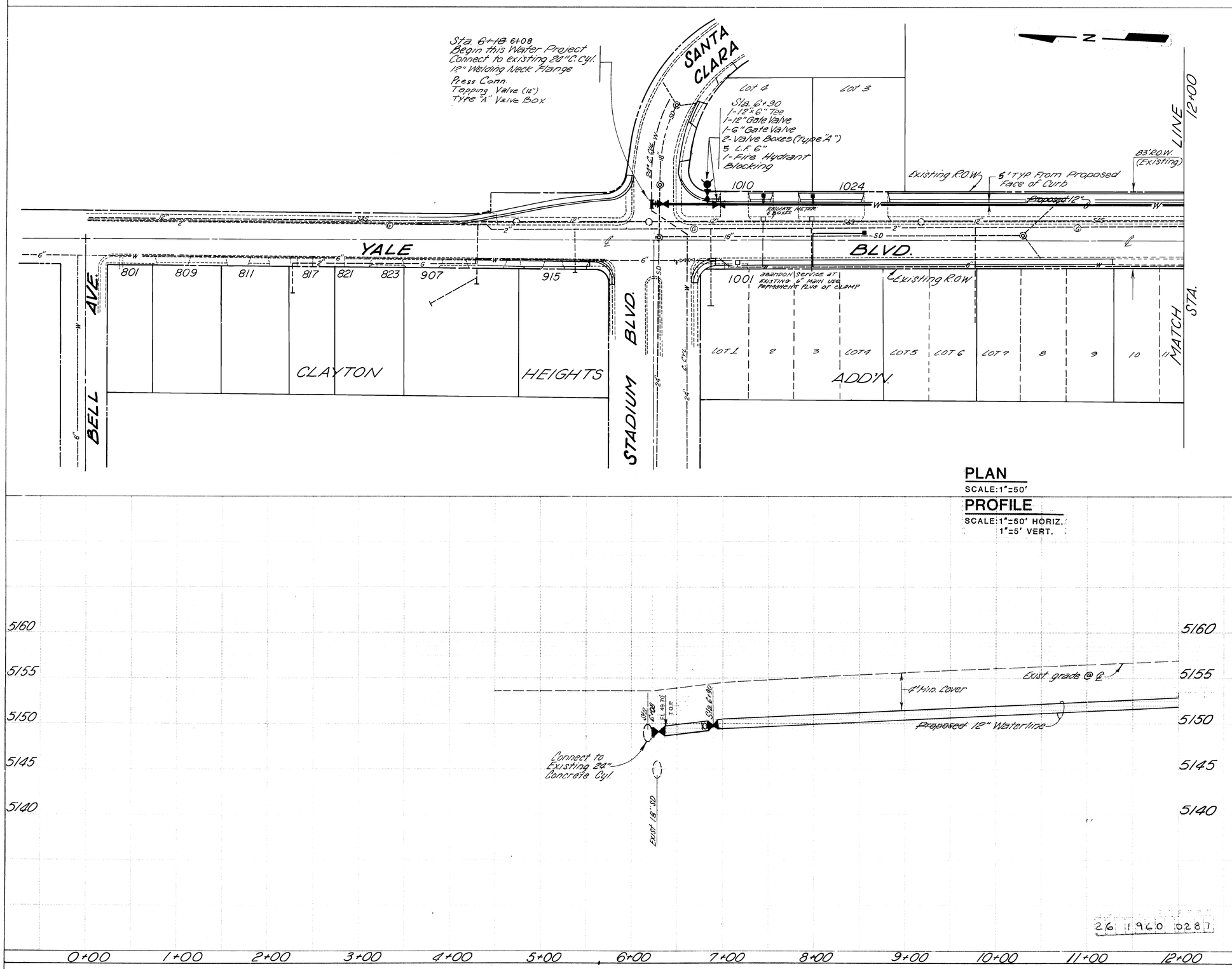
Frank C. Kennedy 1-27-85
MAYOR, CITY OF ALBUQUERQUE, NEW MEXICO — DATE

SHT. 1-1

28

010210

See General Notes on Sht. II-1 of 5



PLAN
SCALE: 1"=50'

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

26 1960 0287

AS-BUILT OF WATER & SANITARY SEWER ONLY AUGUST 1986

NO	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY MT DATE AUG. 84
DRAWN BY MT/LLP DATE AUG. 84
CHECKED BY DATE

ENGINEER'S SEAL

WALTER W. NICKELSON, JR. N.M. 5176

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: YALE BOULEVARD WATER AND SEWER REPLACEMENTS

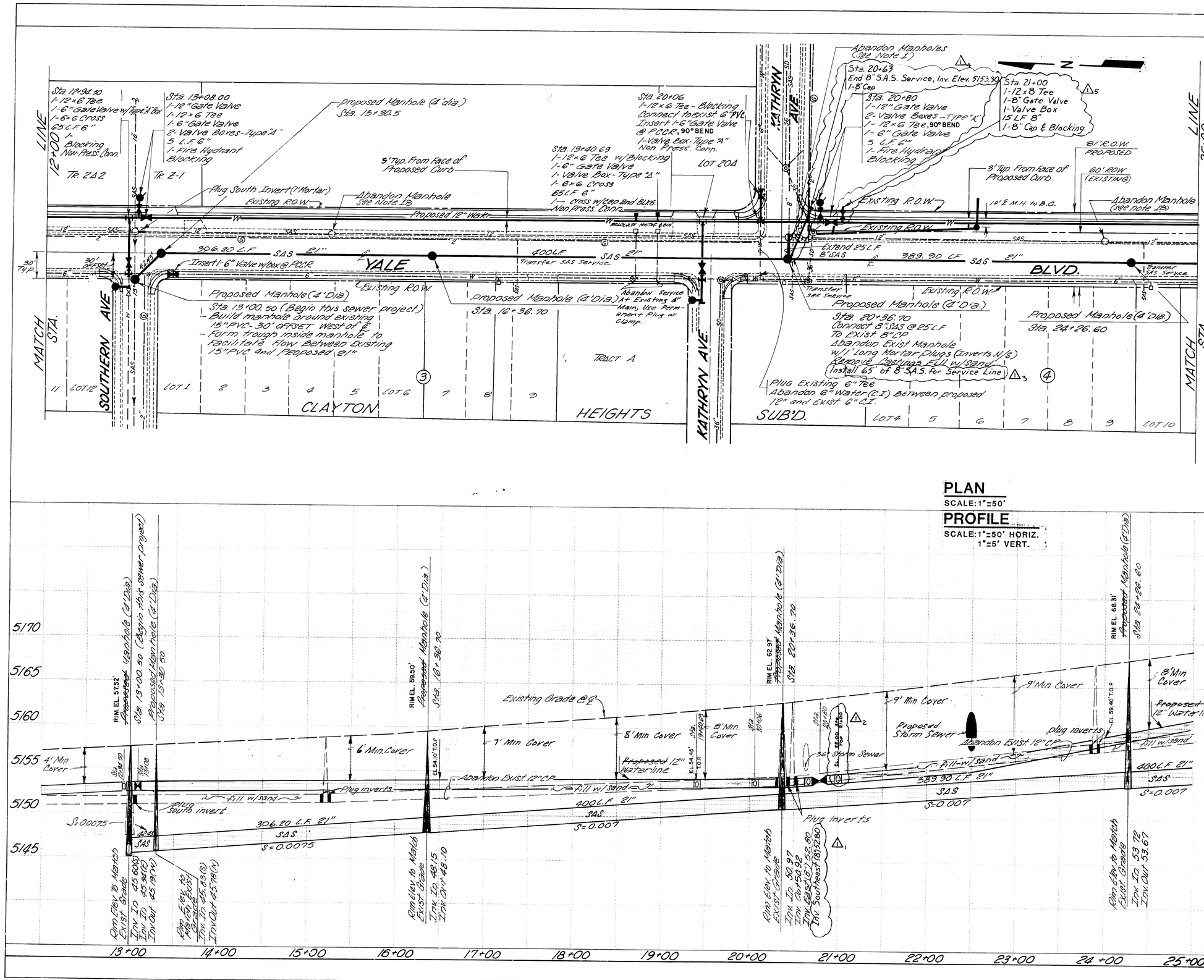
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Rosa	1/14/85
A.C.E. - Design	[illegible]	1/11/85	Traffic	N.A. Rat	1-21-85
A.C.E. - Hydrology	Don Higa	1/14/85	Water	R. Rosa	1/14/85

DRAWING NO | MAP NO L-16 | SHEET II-2 OF 5

AS BUILT INFORMATION
CONTRACTOR TIM LOOMIS DATE
WORK STAKED BY WUD DATE
INSPECTOR DATE
AS-BUILT TABLE BY WUD DATE
VERIFICATION BY WUD DATE AUG86
CORRECTED BY A.T.O. DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
No. 1-L16 Located in N.N.E. curb return at the intersection of Yale & Ross Elev. - 5176.097
No. 2-L16 Located in E.N.E. curb return at the intersection of Yale & Kathryn Elev. - 5162.66
No. 1-M16 Located in the middle of the intersection of Yale & Gibson Elev. - 5190.03

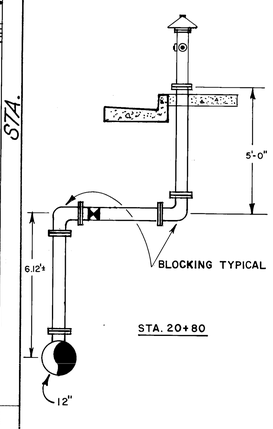
SURVEY INFORMATION
FIELD NOTES
NO | BY | DATE



NOTE:

1/ ABANDONMENT OF EXISTING 12" CP SAS LINE AND MANHOLES WILL BE DONE BY FILLING LINE WITH SAND AND PLUGGING INVERTS WITH 1' LONG MORTAR PLUGS, BREAKUP BOTTOM OF MANHOLE, FILL MANHOLE WITH SAND AND REMOVE AND RETURN CASTINGS AND LIDS TO THE CITY YARDS.

See General Notes on Sht. II-1 of 5



AS-BUILT OF WATER & SANITARY SEWER ONLY AUGUST 1986.

AS BUILT INFORMATION
CONTRACTOR LOOMIS — DATE
WATER SUPERVISOR — DATE
SANITARY SUPERVISOR — DATE
FIELD VERIFICATION BY W.U.D. — DATE
DRAWINGS CORRECTED BY A.T.O. — DATE AUG 86
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO

BENCH MARKS
No. 1-L16 Located in N.E. curb return at the intersection of Yale & Ross Elev. - 5176.097
No. 2-L16 Located in E.NE. curb return at the intersection of Yale & Kathryn Elev. 5162.66
No. 1-M16 Located in the middle at the intersection of Yale & Gibson Elev. - 5190.03

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
WILLIAM H. NICKERSON, JR. — ENGINEER

NO.	DATE	REMARKS	BY
1	6-24-85	Water and Sanitary Services added	SAM

REVISIONS

DESIGN
DESIGNED BY HT — DATE Aug 84
DRAWN BY HT/WF — DATE Aug 84
CHECKED BY — DATE

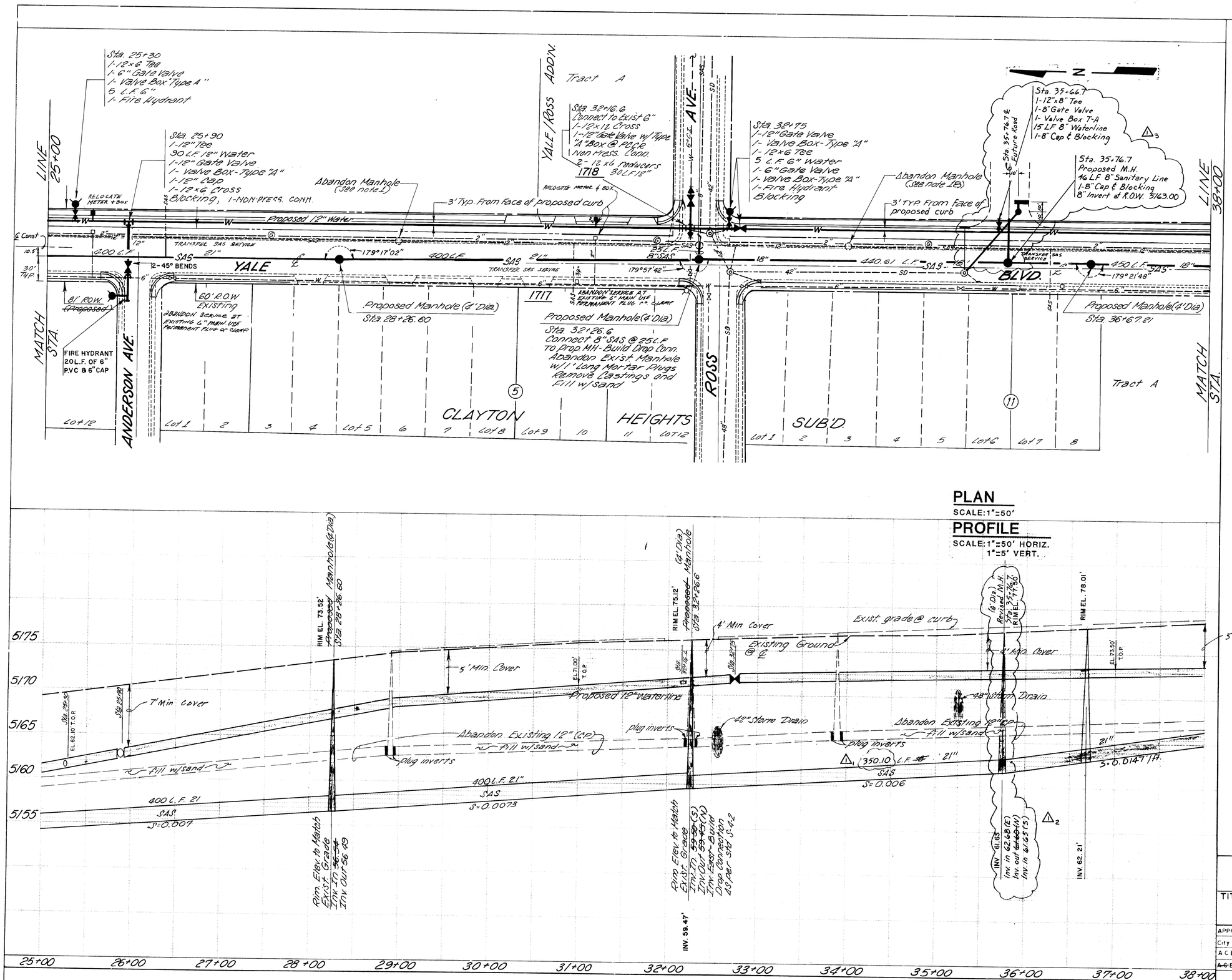
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: YALE BOULEVARD WATER AND SEWER REPLACEMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Peña	1/14/85
A.C.E.-Design	[illegible]	1/21/85	Traffic	N.A. [illegible]	1-21-85
~~A.C.E.~~-Hydrology	[illegible]	1/14/85	Water	R. Peña	1/14/85

DRAWING NO. | MAP NO. L-16 | SHEET II-3 OF 5

26 1960 0387



NOTE:

1. ABANDONMENT OF EXISTING 12" CP SAS LINE AND MANHOLES WILL BE DONE BY FILLING LINE WITH SAND AND PLUGGING INVERTS WITH 1' LONG MORTAR PLUGS, BREAKUP BOTTOM OF MANHOLE, FILL MANHOLE WITH SAND AND REMOVE AND RETURN CASTINGS AND LIDS TO THE CITY YARDS.

See General Notes on Sht II-1 of 5

AS-BUILT OF WATER
SANITARY SEWER ONLY
AUGUST 1986

NO	DATE	REMARKS	BY
1	5/2/85	STA. 32+26.6 & STA. 36+67.21, SAS MANHOLE	A.T.O.
2	6-24-85	Water and Sanitary Services added	S.A.M.

REVISIONS

DESIGN
DESIGNED BY MT DATE AUG 84
DRAWN BY MT/UF DATE AUG 84
CHECKED BY DATE

AS BUILT INFORMATION
CLIFFORD A. LOOMIS
A. M. ROSS
A. L. FRANCIS
FIELD VERIFICATION BY W.U.D.
DRAWINGS CORRECTED BY A.T.O. DATE AUG 85
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS
No. 1-L16 Located in N.E. curb return at the intersection of Yale & Ross Elev.- 5176.097
No. 2-L16 Located in E.N.E. curb return at the intersection of Yale & Kathryn. 5162.66
No. 1-M16 Located in the middle at the intersection of Yale & Gibson 5150.03

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
ALBERT N. MENTSON, JR. ENGINEER

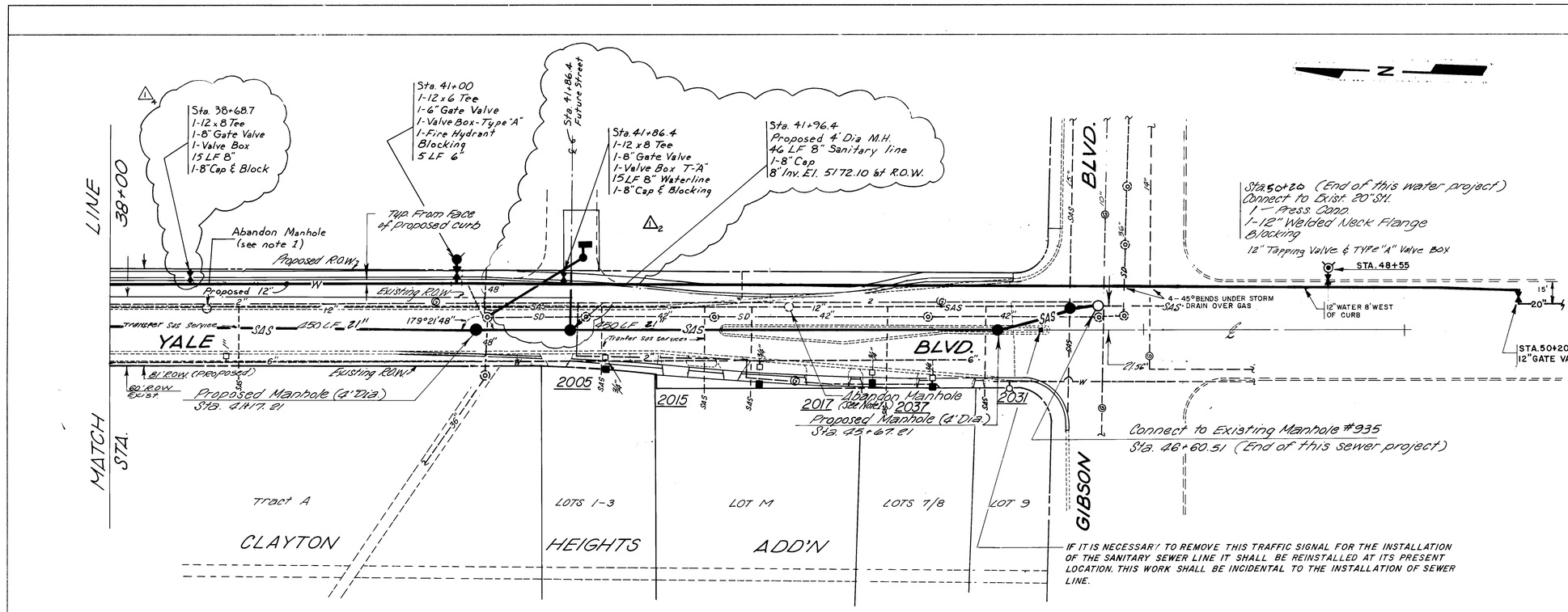
CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: YALE BOULEVARD WATER AND SEWER REPLACEMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Aston	1/14/85
A C E - Design	A. N. Mentson	1/14/85	Traffic	N. A. Gatt	1-21-85
A C E - Hydrology	Don Hoyt	1/14/85	Water	R. Aston	1/14/85

DRAWING NO | MAP NO. L-16 | SHEET II-4 OF 5

26 1960 0487

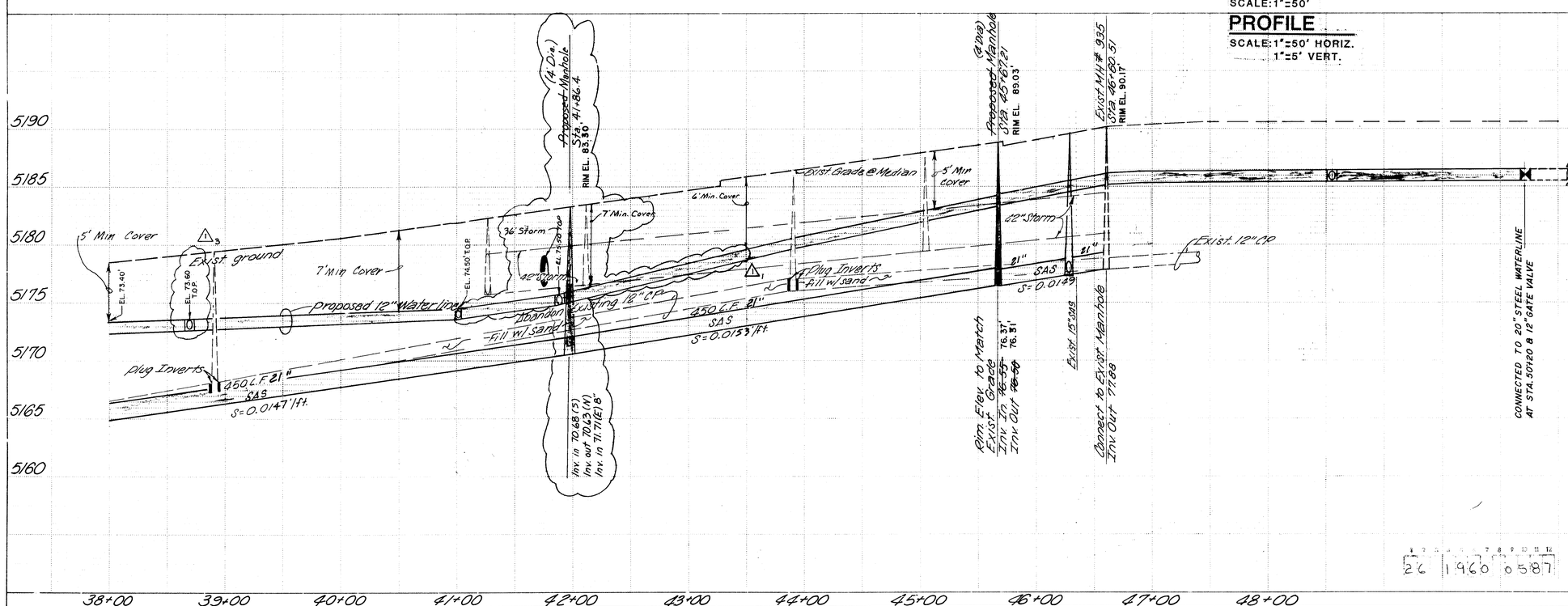


PLAN

SCALE: 1" = 50'

PROFILE

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



NOTE:

1/ ABANDONMENT OF EXISTING 12" CP SAS LINE AND MANHOLES WILL BE DONE BY FILLING LINE WITH SAND AND PLUGGING INVERTS WITH 1' LONG MORTAR PLUGS, BREAKUP BOTTOM OF MANHOLE, FILL MANHOLE WITH SAND AND REMOVE AND RETURN CASTINGS AND LIDS TO THE CITY YARDS.

See General Notes on Sht. II-1 of 5

AS-BUILT OF WATER & SANITARY SEWER ONLY AUGUST 1986

AS BUILT INFORMATION
CONTRACTOR LOOMIS DATE
AS-BUILT BY W.U.D. DATE
INSPECTOR DATE
VERIFICATION BY DATE
CORRECTED BY A.T.O. DATE AUG 86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO DATE

BENCH MARKS
No. 1-L16 Located in N.NE. curb return at the intersection of Yale & Ross Elev. - 5176.097
No. 2-L16 Located in E.NE. curb return at the intersection of Yale & Kathryn Elev. 5162.66
No. 1-M16 Located in the middle at the intersection of Yale & Gibson Elev. - 5190.03

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
WILLIAM H. McCRACKEN, JR. REGISTERED PROFESSIONAL ENGINEER

NO	DATE	REMARKS	BY
1	5/2/85	STA. 41+17.21, SAS LINE TO STA. 36+67.21	A.T.O.
4	6-24-85	Water and Sanitary Services added	S.A.M.

REVISIONS

DESIGN
DESIGNED BY MT DATE Aug 84
DRAWN BY MT/LJF DATE Aug 84
CHECKED BY DATE

CITY OF ALBUQUERQUE
WATER RESOURCES DEPARTMENT
ENGINEERING DIVISION

TITLE: YALE BOULEVARD WATER AND SEWER REPLACEMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Parker	1/14/85
A.C.E.-Design	[illegible]	1/21/85	Traffic	N.A. [illegible]	1-21-85
A.C.E.-Hydrology	Don Hoger	1/14/85	Water	R. Parker	1/14/85

DRAWING NO. | MAP NO. L-16 | SHEET II-5 OF 5

26 1960 0587

NO	DATE	REMARKS	BY
1	6-86	As-Built Revisions	WMA

REVISIONS

DESIGN

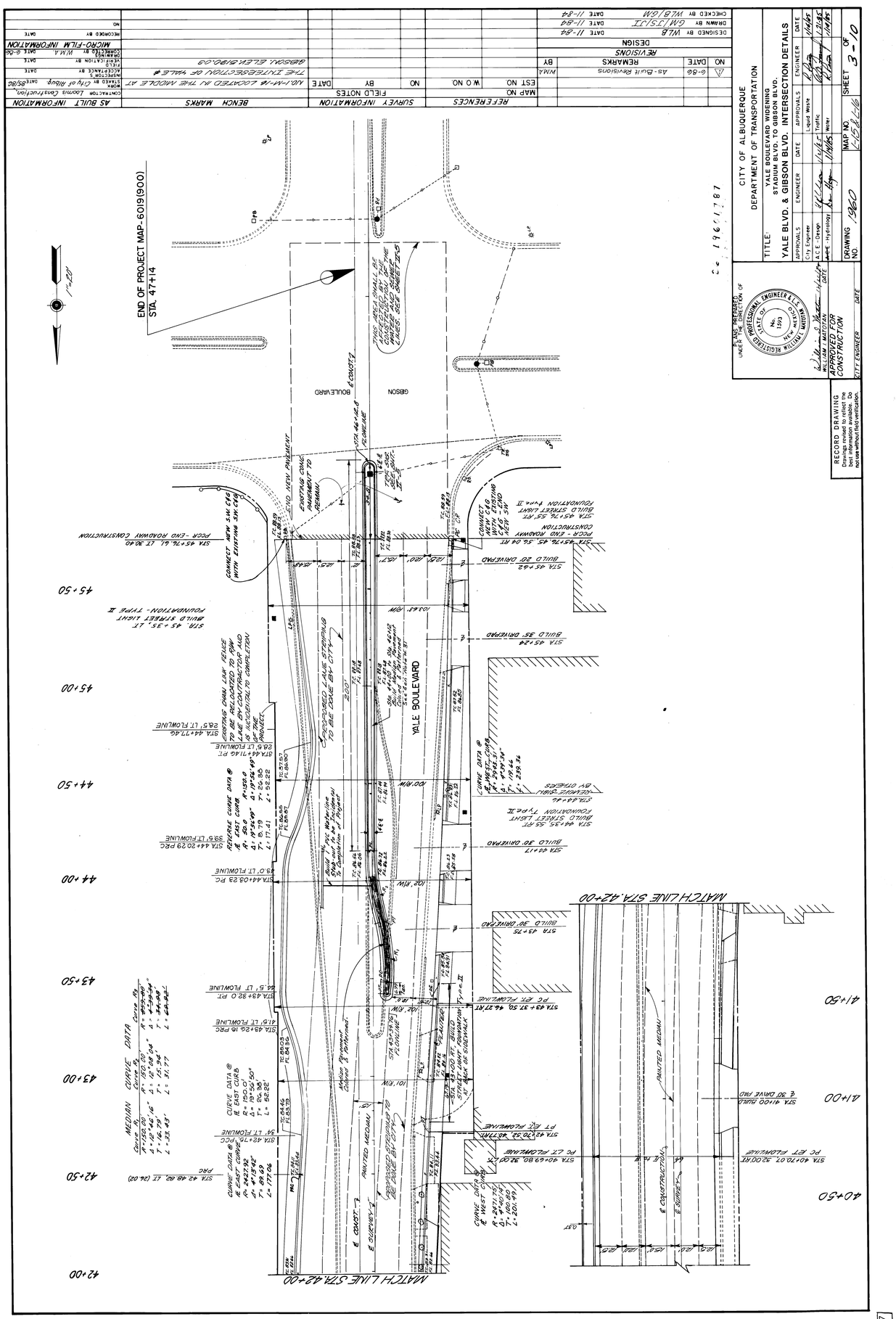
DESIGNED BY WLB DATE 11-84
DRAWN BY GM/JSJ/I DATE 11-84
CHECKED BY WLB/GM DATE 11-84

REFERENCES	
MAP NO	
EST NO	W.O NO.

SURVEY INFORMATION		
FIELD NOTES		
BY	NO	DATE

BENCH MARKS
ALB-1-M-14 LOCATED IN THE MIDDLE AT
THE INTERSECTION OF YALE &
GIBSON BLVD. 6190.09

AS BUILT INFORMATION	
CONTRACTOR	Lomas Construction,
WORK STAKED BY	City of Albuq. DATE 85/86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS COMPILED BY	WMA DATE 6-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO	



CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
YALE BLVD. & GIBSON BLVD. INTERSECTION DETAILS

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

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 3 OF 10

REGISTERED PROFESSIONAL ENGINEER & L.S. STATE OF NEW MEXICO WILLIAM MATUTAN No. 1100

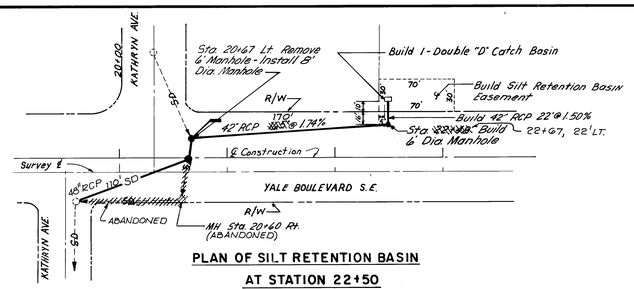
UNDER THE DIRECTION OF
WILLIAM MATUTAN DATE
PROJECT DIRECTOR CONSTRUCTION
CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the construction as-built. Do not use without field verification.

2 1961/1787

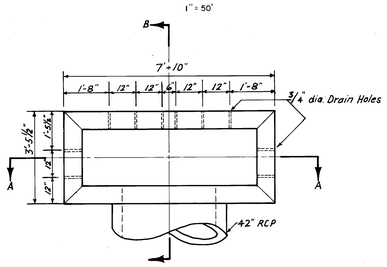
27

072601b



PLAN OF SILT RETENTION BASIN AT STATION 22+50

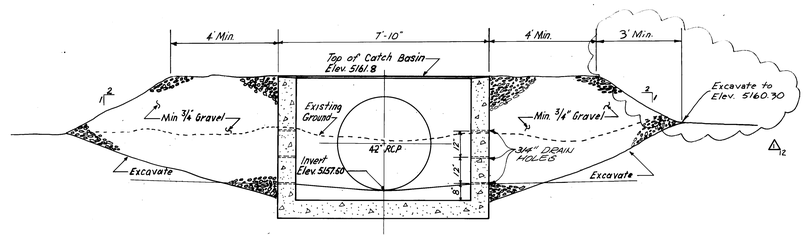
1" = 50'



PLAN OF DOUBLE "D" CATCH BASIN

Note:
1. All stationing and distances Rt. and Lt. are in reference to ℄ of Construction.
2. See Sheet 3-12 for typical section of Diversion Channel.

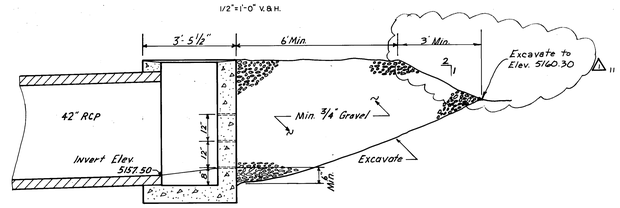
△10



△12

SECTION A-A

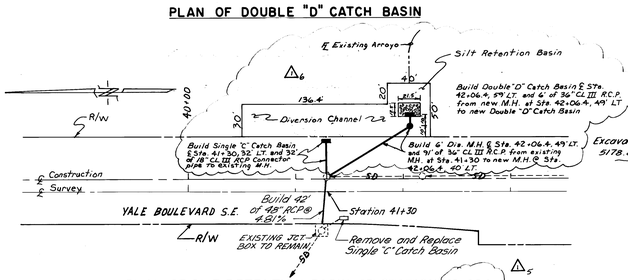
1/2" = 1'-0" V.&H.



△11

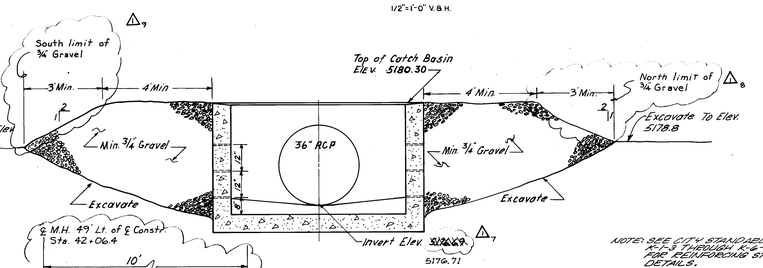
SECTION B-B

1/2" = 1'-0" V.&H.



△6 △5

PLAN OF SILT RETENTION BASIN AT STATION 42+06.4

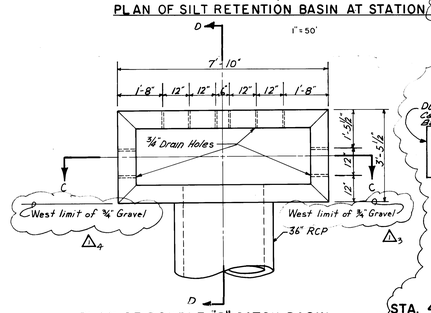


△9 △8 △7

SECTION C-C STA. 42+06.4

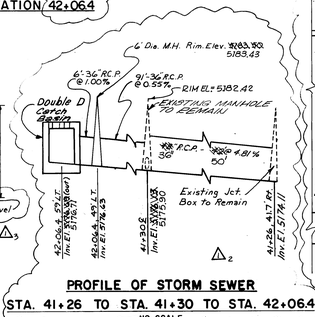
1/2" = 1'-0" Vert. & Horiz.

NOTE: SEE CITY STANDARD R-2.1 THROUGH R-2.9 FOR REINFORCING STEEL DETAILS.



△4 △3

PLAN OF DOUBLE "D" CATCH BASIN 1/2" = 1'-0"

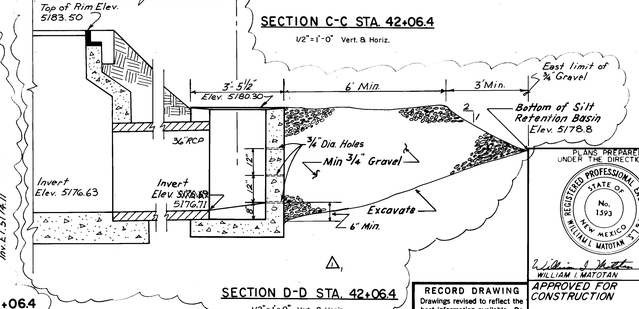


△2

PROFILE OF STORM SEWER

STA. 41+26 TO STA. 41+30 TO STA. 42+06.4

NO SCALE



△1

SECTION D-D STA. 42+06.4

1/2" = 1'-0" Vert. & Horiz.

26 19601887

PLANS PREPARED UNDER THE DIRECTION OF

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 13993 — WILLIAM I. MATOTAN

WILLIAM I. MATOTAN 1/4/85 DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING STADIUM BLVD. TO GIBSON BLVD.
STORM DRAIN STRUCTURE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/4/85
A.C.E. - Design		1/4/85	Traffic		1-21-85
~~A.C.E.~~ - Hydrology		1/4/85	Water		1/4/85

DRAWING NO. 1960 | MAP NO. | SHEET 3-11 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 12/1/84
INSPECTOR'S REVISIONS BY DATE
FIELD LOCATION BY DATE
DRAWINGS BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
M.O.T.-L.A. LOCATED IN N.W. CURB RETURN AT THE INTERSECTION OF VALE & ROSS ELEV. 5176.037
M.O.T.-L.A. LOCATED IN S.W. CURB RETURN TUBA AT THE INTERSECTION OF VALE & KATHRYN ELEV. 5166.88

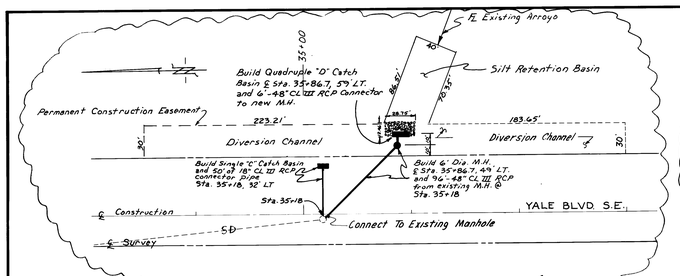
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.
NMA
SAM
BY

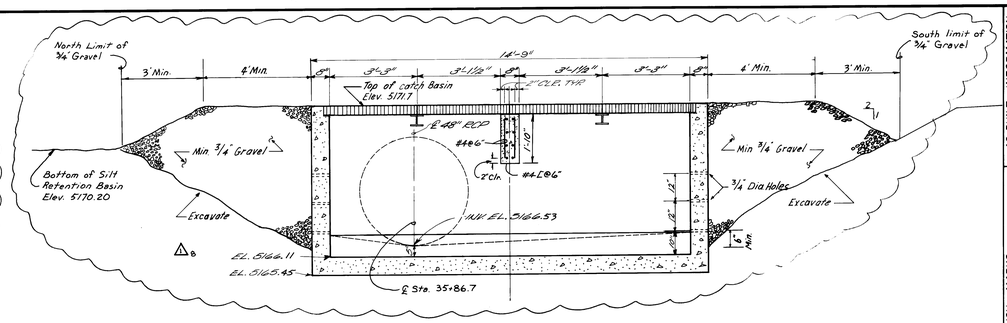
REVISIONS
NO. DATE REMARKS
△ 6-86 As-Built Revisions
△ 12-20-85 Revise Storm Sewer Details

DESIGN
DESIGNED BY WLB DATE 11-84
DRAWN BY GM/JS/JT DATE 11-84
CHECKED BY WLB, GM DATE 11-84

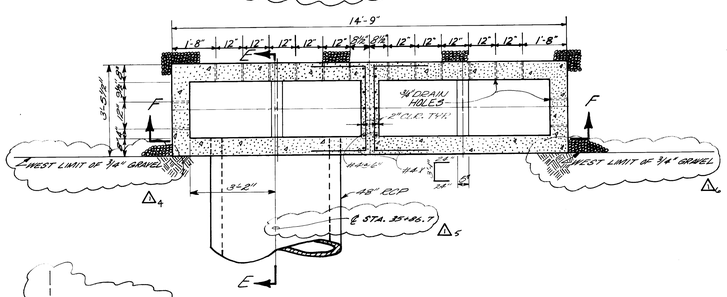
27



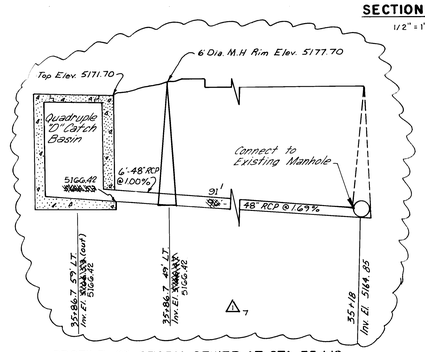
PLAN OF SILT RETENTION BASIN
AT STATION 35+86.7
1" = 50'



SECTION F-F
1/2" = 1'-0"



PLAN OF QUADRUPLE "D" CATCH BASIN
1/2" = 1'-0"



PROFILE OF STORM SEWER AT STA. 35+18
NO SCALE

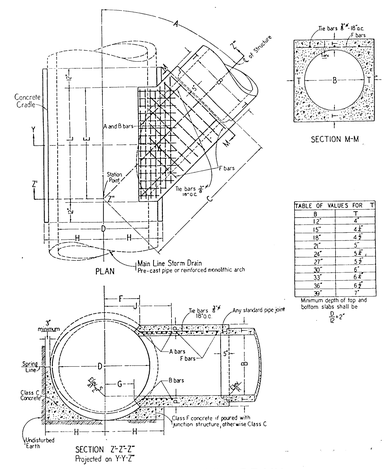
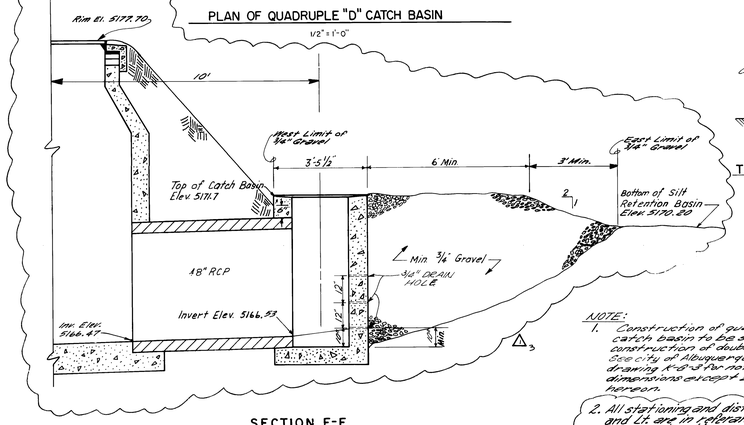


TABLE OF VALUES FOR "T"	
B	T
12"	4"
15"	4.5"
18"	4.5"
21"	5"
24"	5.5"
27"	5.5"
30"	6"
33"	6.5"
36"	6.5"
39"	7"

Minimum depth of top and bottom slabs shall be 6"-2"

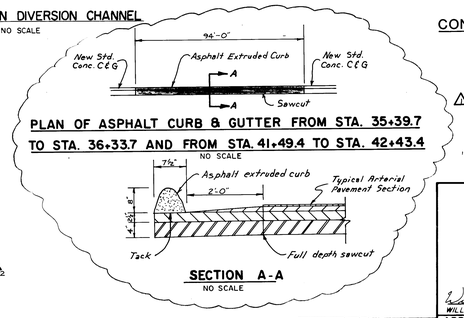
RCP STORM DRAIN
CONNECTION PIPE TO MAIN DETAIL



SECTION E-E
1/2" = 1'-0"

NOTE:
1. Construction of quadruple "D" catch basin to be similar to construction of double "D". See city of Albuquerque standard drawing X-8-3 for notes and dimensions except as shown hereon.
2. All stationing and distances Rt. and Lt. are in reference to ℄ of construction.

TYPICAL SECTION DIVERSION CHANNEL
NO SCALE



PLAN OF ASPHALT CURB & GUTTER FROM STA. 35+39.7 TO STA. 36+33.7 AND FROM STA. 41+49.4 TO STA. 42+43.4
NO SCALE

SECTION A-A
NO SCALE

26 19601987

AS BUILT INFORMATION	
CONTRACTOR	Loomis Construction
WORK PERFORMED BY	City of Albuq. DATE 85/86
INSPECTOR'S FIELD NOTES	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS MARKED BY:	W.M.A. DATE 6-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
NO. 1 - IS LOCATED IN N. LIP CURB RETURN AT THE INTERSECTION OF YALE & EDSON
ELEV. 5180.297'
NO. 2 - IS LOCATED IN S. LIP CURB RETURN AT THE INTERSECTION OF YALE & KATHERINE ELEV. 5168.66

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE
NO.		

REFERENCES

MAP NO.		
NO.	W.O. NO.	
NO.	EST. NO.	
	W.M.A.	
	S.A.M.	
	BY	

REVISIONS

NO.	DATE	REMARKS
1	6-26-86	As-Built Revisions Storm Sewer Detail Change of Asphalt C&G

DESIGN		
DESIGNED BY	W.L.B.	DATE 11-84
DRAWN BY	G.M./J.S./J.T.	DATE 11-84
CHECKED BY	W.L.B./G.M.	DATE 11-84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1393 — WILLIAM J. MATOTAN
WILLIAM J. MATOTAN DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

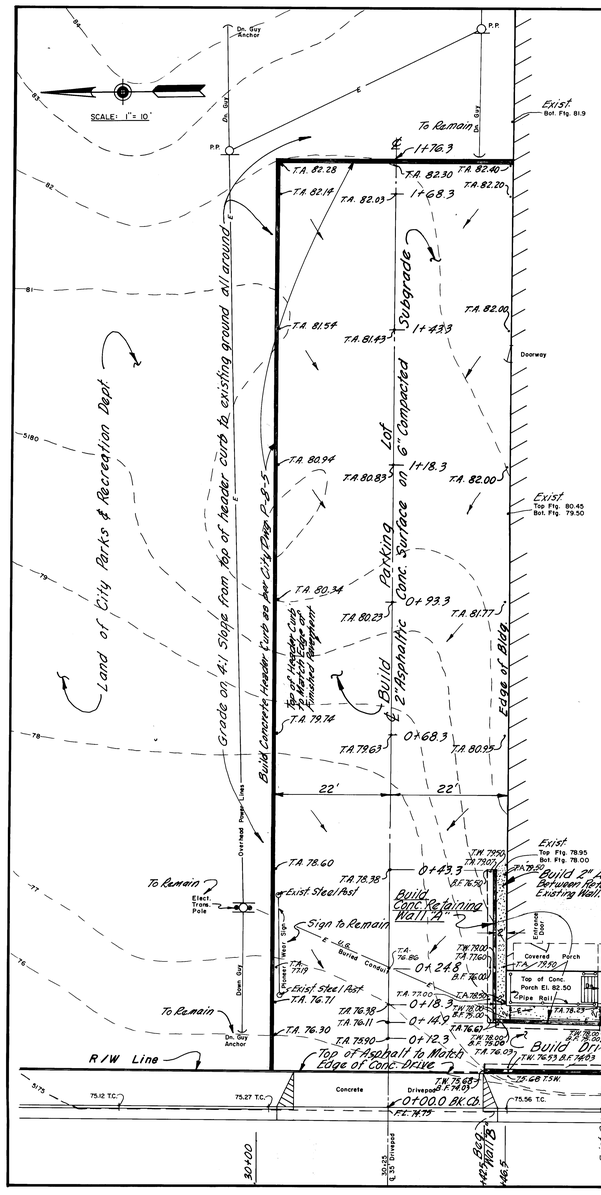
CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD TO GIBSON BLVD
STORM DRAIN STRUCTURE DETAILS

APPROVALS		DATE	APPROVALS		DATE
City Engineer			Liquid Waste		
A.C.E. Design		11/21/85	Traffic	N.A.	1-21-85
A.C.E. Hydrology		11/21/85	Water		11/21/85

DRAWING NO 1960 | MAP NO | SHEET 3-12 OF

27

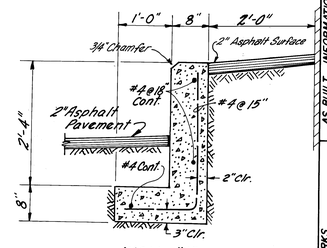


LEGEND

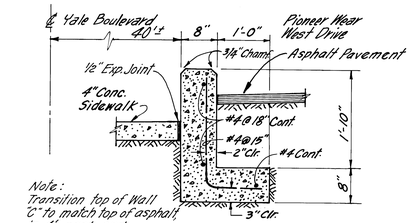
- —82— Existing Ground Contour
- 79.90 Existing Spot Elevation
- T.A. 80.23 New Finished Pavement Elevation
- T.S.W. 75.77 New Finished Sidewalk Elevation
- T.S. 78.50 New Finished Concrete Slab Elevation
- T.C. 75.20 Top of Curb Elevation
- T.W. 78.50 Top Elevation of New Wall
- B.F. 76.50 Bottom Elevation of New Retaining Wall Footing

NOTE:

1. Topography and existing wall and footing elevations obtained by City Survey Crew.
2. Contractor to expose and confirm location of existing utilities prior to commencing construction.
3. Lowering of existing utilities, if required, will be done by others.
4. ½" Expansion joints in retaining walls and concrete slab to be spaced at 30' maximum.
5. Bituminous tack coat to be applied to all concrete surfaces against which asphalt surface material will be constructed.



WALL "A"



Note:
Transition top of Wall "C" to match top of asphalt in 4', each end.

Use 4000 psi Portland Cement Concrete in all Walls.

WALL "B"

RETAINING WALL TYPICAL SECTIONS

N.T.S.

26 1960 2087

PLANS PREPARED UNDER THE DIRECTION OF

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN

2-23-85 23 Oct. 1985
WILLIAM I. MATOTAN DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

REFERENCES	
MAP NO.	
EST. NO.	
W.O. NO.	
B.M.A.	

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	

REVISIONS

DESIGN		DATE
DESIGNED BY	W.M.A.	Oct. 1985
DRAWN BY	W.M.A.	Oct. 1985
CHECKED BY	W.M.A.	Oct. 1985

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
STAKED BY City of Albuq. DATE 5-8-86
ACCEPTANCE DATE
FIELD LOCATION BY DATE
DRAWING BY W.M.A. DATE 6-6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
NO. I-L16 LOCATED IN N. NE CURB RETURN AT THE INTERSECTION OF YALE & ROSS. ELEV. 5176.097

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

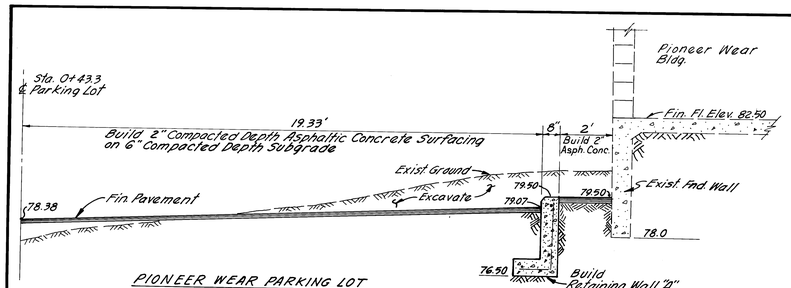
CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
PIONEER WEAR NORTH PARKING AREA
& WEST DRIVE

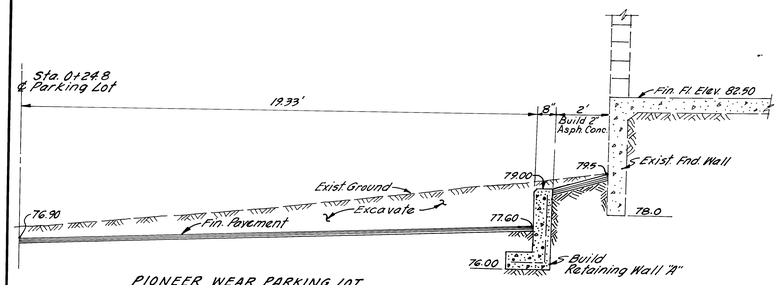
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	MAP NO.	SHEET OF
1960	L-16	3-13

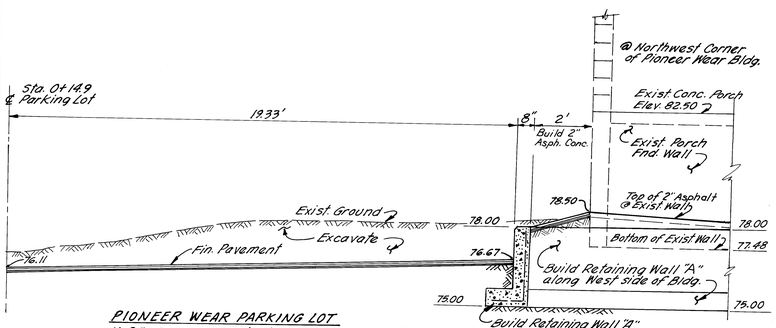
RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.



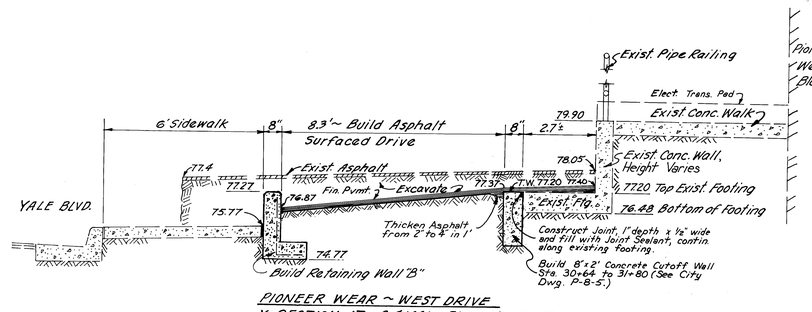
PIONEER WEAR PARKING LOT
X-SECTION RT. of ℄ Sta. 0+43.3 ~ End Retaining Wall "A"



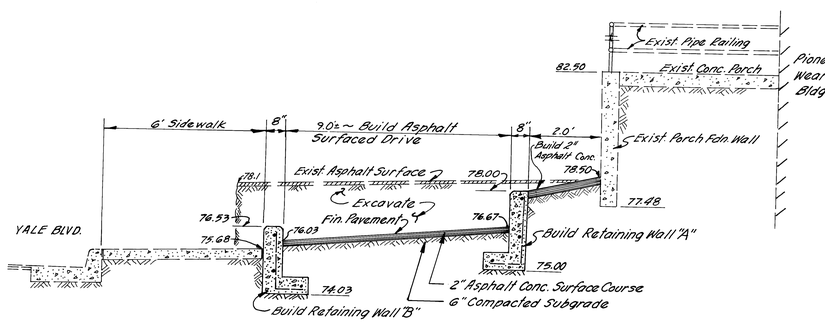
PIONEER WEAR PARKING LOT
X-SECTION RT. of ℄ Sta. 0+24.8



PIONEER WEAR PARKING LOT
X-SECTION RT. of ℄ Sta. 0+14.9 ~ Begin Retaining Wall "A"
Scale: H. 1"=2', V. 1"=2'



PIONEER WEAR ~ WEST DRIVE
X-SECTION LT. of ℄ YALE BLVD. Sta. 30+75



PIONEER WEAR ~ WEST DRIVE
X-SECTION LT. of ℄ YALE BLVD. Sta. 30+465
Scale: H. 1"=2', V. 1"=2'

2.6 1960 2.1 87

AS BUILT INFORMATION	
CONTRACTOR	Loomis Construction
WORKED BY	City of Albuq. DATE 8/5/86
INSPECTOR'S NOTES BY	DATE
FIELD VERIFICATION BY	DATE
DRAWING CORRECTION BY	W.M.A. DATE 6-26-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

REFERENCES		
MAP NO.		
EST. NO.		W.O. NO.
	W.M.A.	
	BY	

NO.	DATE	REMARKS
1	6-86	As-Built Revisions

REVISIONS

		DATE
DESIGNED BY	W.M.A.	Oct. 1985
DRAWN BY	W.M.A.	Oct. 1985
CHECKED BY	W.M.A.	Oct. 1985

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1393 — WILLIAM I. MATOTAN
William I. Matotan 23 Oct. 1985
WILLIAM I. MATOTAN DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

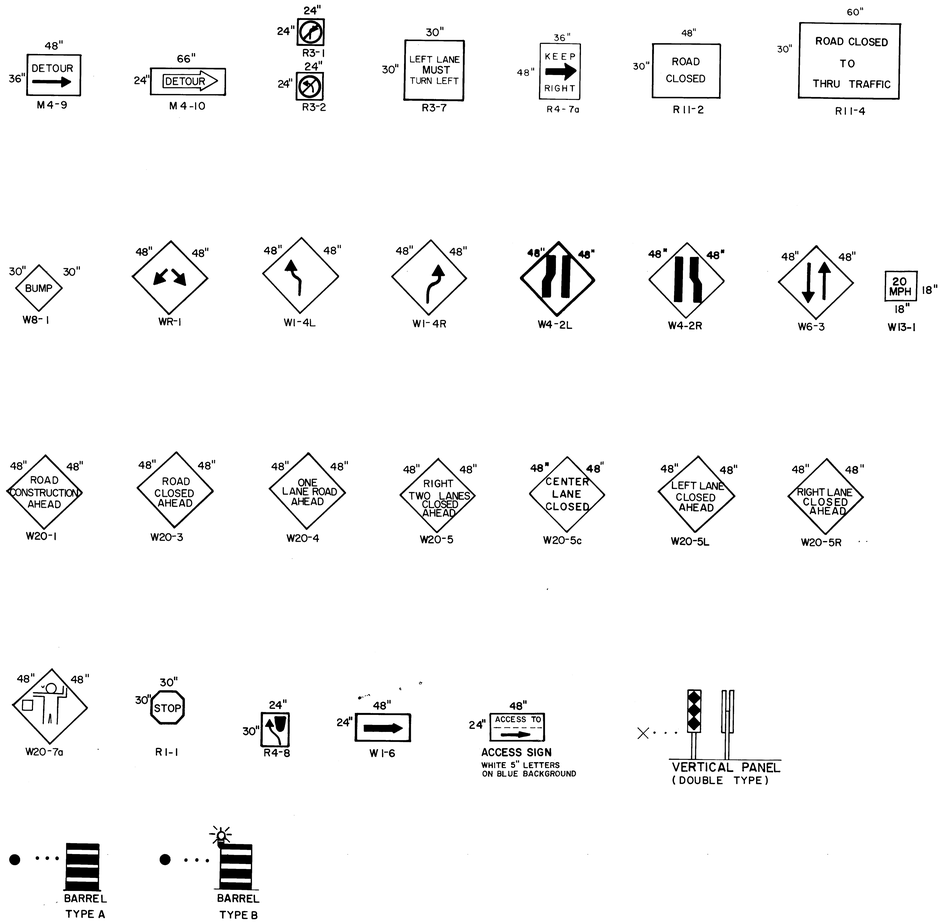
RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

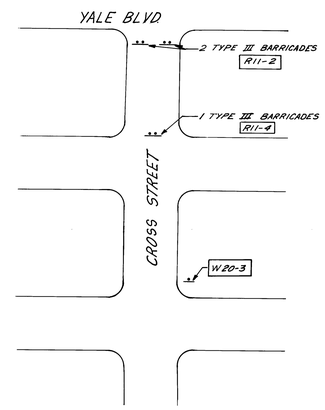
CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
PIONEER WEAR NORTH PARKING AREA
& WEST DRIVE

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

DRAWING NO.	MAP NO.	SHEET OF
1960	L-16	3-14





TYPICAL CROSS STREET CLOSURE

NOTE:
(1) AT NO TIME SHALL TWO CONSECUTIVE CROSS STREETS BE CLOSED.

NOTE: TYPE III BARRICADE DOES NOT INCLUDE "ROAD CLOSED" SIGN

26 19602287

AS BUILT INFORMATION	
CONTRACTOR	Loomis Construction
STAKED BY	City of Albuq. DATE 8/8/86
INSPECTED BY	
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
CORRECTED BY	WMA DATE 6-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION		
NO.	FIELD NOTES BY	DATE

REFERENCES	
MAP NO.	
EST. NO.	
W.O. NO.	

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	WMA

REVISIONS

DESIGN		
DESIGNED BY	VLB	DATE 11-86
DRAWN BY	GM/JS/JT	DATE 11-86
CHECKED BY	WLB/DM	DATE 11-86

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 1593 WILLIAM L. MATOTAN
WILLIAM L MATOTAN DATE 11/21/86

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

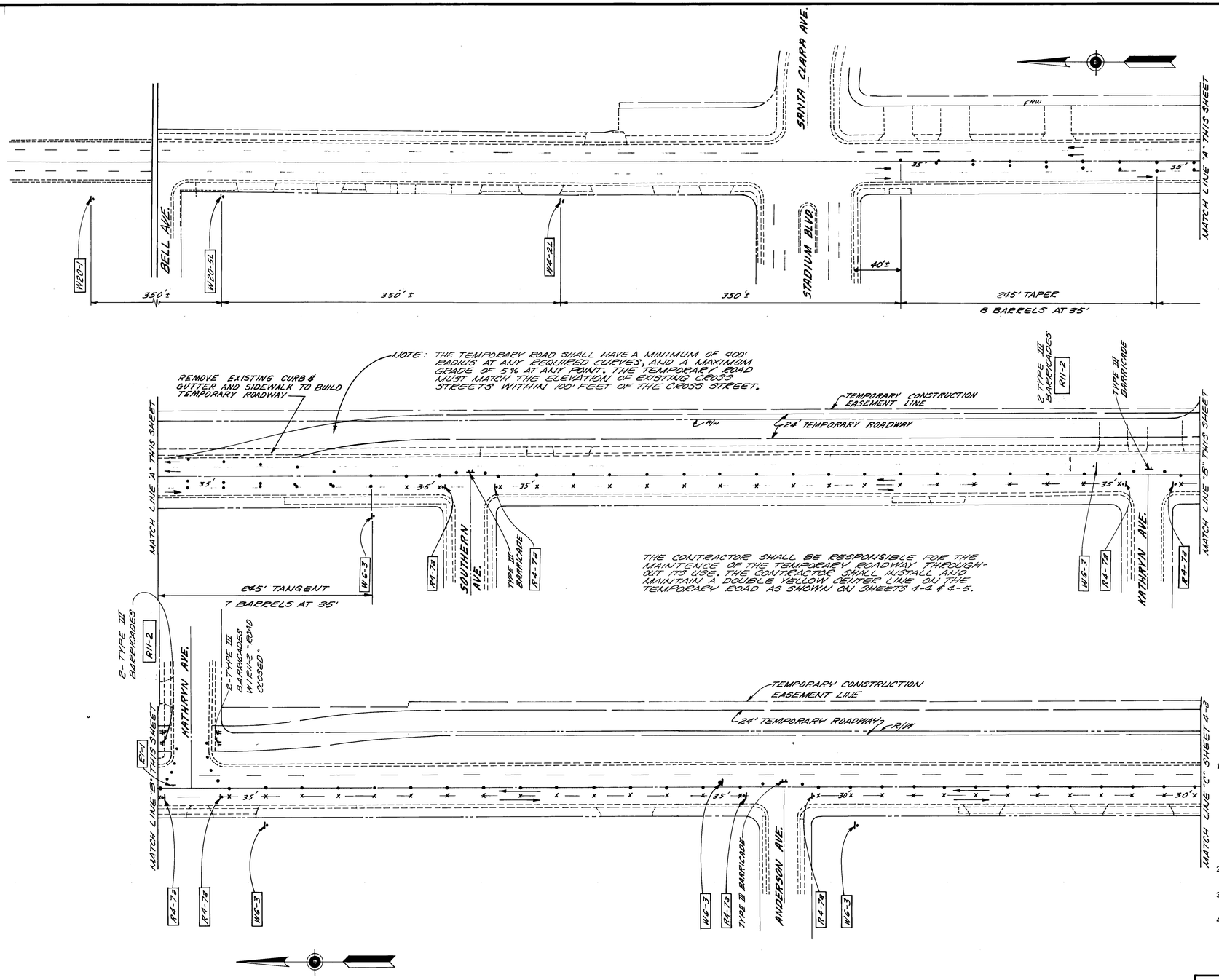
TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.

SIGN FACE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		11/14/85
A.C.E. - Design		11/14/85	Traffic		1-21-85
A.C.E. - Hydrology		11/14/85	Water		11/14/85

DRAWING NO. 1960 MAP NO. SHEET 4-1 OF

27



PHASE I

1.) CONTRACTOR SHALL CONSTRUCT A TEMPORARY 24' WIDE ROAD INCLUDING ANY NECESSARY TEMPORARY DRAINAGE STRUCTURES TO THE EAST OF THE PRESENT ROAD USING NEWLY OBTAINED RIGHT-OF-WAY AND CONSTRUCTION EASEMENT IN SUCH A WAY THAT TWO-WAY TRAFFIC MAY BE MAINTAINED ON THE ROAD DURING THE INSTALLATION OF THE SEWER LINE. THE TEMPORARY DRAINAGE STRUCTURES SHALL HAVE THE SAME WATERWAY OPENING THAT PRESENTLY EXISTS. THE STRUCTURES SHALL BE FURNISHED AND INSTALLED AS PART OF THE TEMPORARY ROADWAY AND SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE CONTRACTOR AFTER USE. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE SEWER LINE.

2.) TRAFFIC MAY BE DETOURED AS SHOWN IN ORDER TO INSTALL THE TEMPORARY ROAD.

3.) THE MEDIAN NORTH OF GIBSON ON YALE WILL HAVE TO BE REMOVED AS SHOWN IN ORDER TO INSTALL THE TEMPORARY ROAD.

4.) ACCESS MUST BE MAINTAINED TO BUSINESSES AT ALL TIMES. ADDITIONAL BARRICADES AND ACCESS SIGNS SHALL BE PROVIDED BY THE CONTRACTOR IN ORDER TO INSURE THAT ACCESS IS MAINTAINED.

26 19602387

PLANS PREPARED UNDER THE DIRECTION OF

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM L. MATOTAN

WILLIAM L MATOTAN — DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE I

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/14/85
A.C.E. - Design		1/21/85	Traffic		1-21-85
~~A.C.E.~~ - Hydrology		1/14/85	Water		1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-2 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 8/5/86
INSPECTOR'S ACCEPTANCE DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

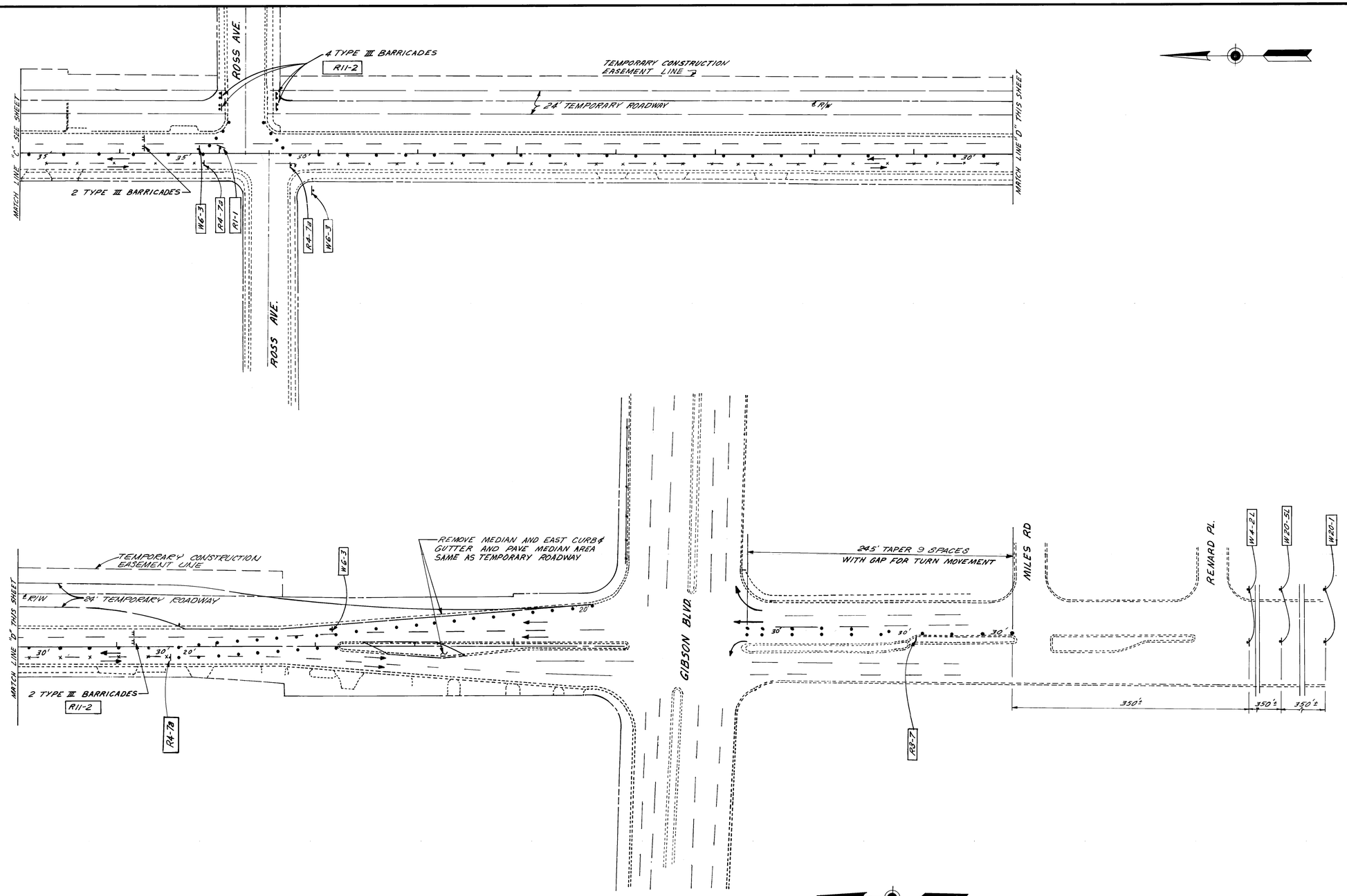
REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	WMA

REVISIONS

DESIGN		DATE
DESIGNED BY	WLB	11-84
DRAWN BY	GM/JS/JT	11-84
CHECKED BY	WLB/GM	11-84

27



AS BUILT INFORMATION	
CONTRACTOR Loomis Construction	
WORK STAKED BY City of Albuq.	DATE 8-5-86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY W.M.A.	DATE 8-26-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

REFERENCES	
MAP NO.	
EST. NO.	
W.O. NO.	

NO.	DATE	REVISIONS	BY
△1	8-86	As-Built Revisions	W.M.A.

DESIGNED BY	WLB	DATE	11-84
DRAWN BY	GMJ/JS/JT	DATE	11-84
CHECKED BY	WLB/GM	DATE	11-84

PLANS PREPARED UNDER THE DIRECTION OF

REGISTERED PROFESSIONAL ENGINEER & L.S. — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN

William I. Matotan 11/14/84
WILLIAM I MATOTAN DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE I

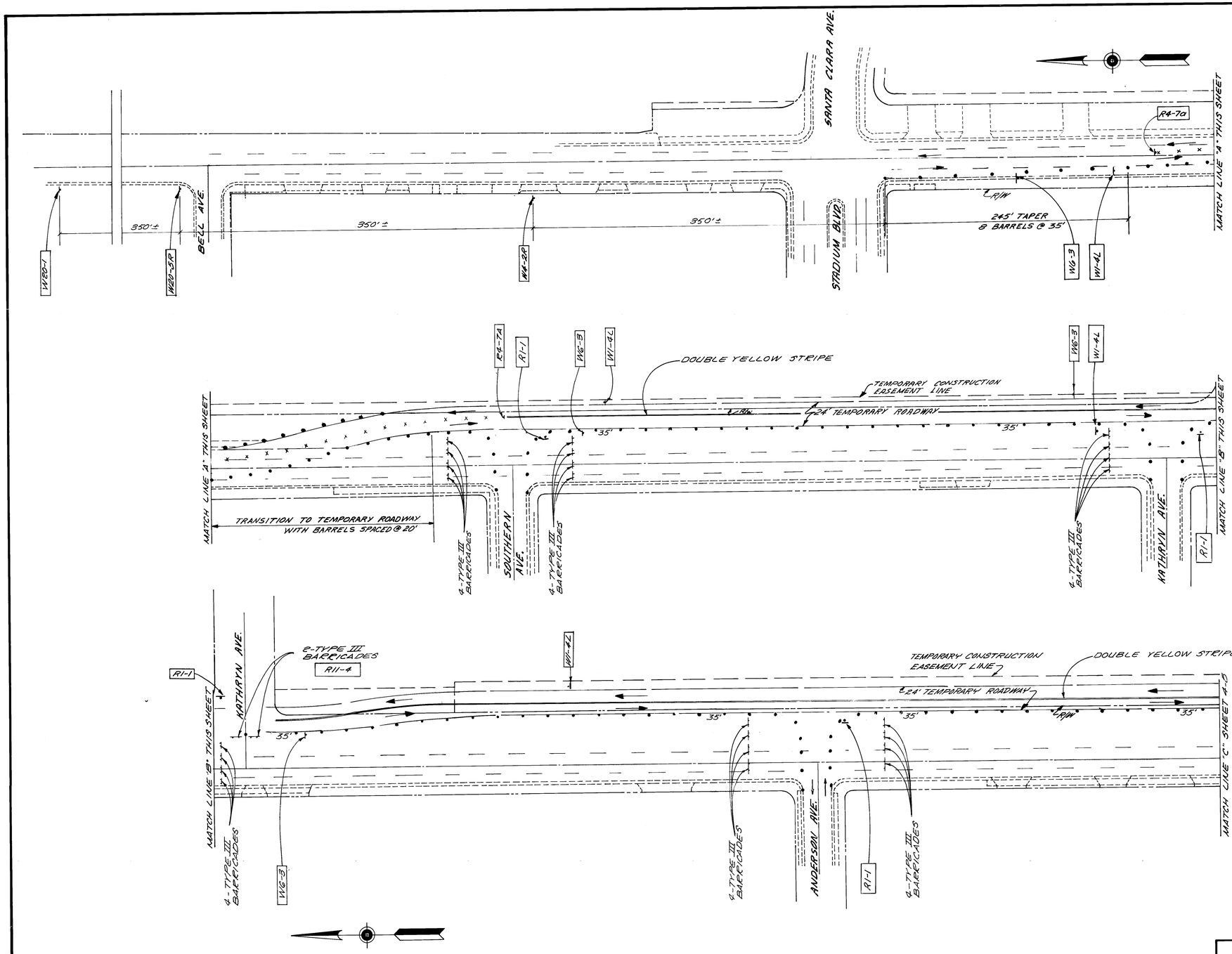
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Porter	1/14/85
A C E - Design	A.C. Lee	1/14/85	Traffic	R.A.T.	1-21-85
~~A C E~~ - Hydrology	Don Hoge	1/14/85	Water	R. Porter	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-3 OF

26 1960-2487

0726023

27



PHASE II

1.) TRAFFIC MAY BE DETOURED ONTO TEMPORARY ROAD AS SHOWN IN ORDER TO INSTALL SEWER LINE.

2.) BARRICADES SHALL BE PLACED AT 10' INCREMENTS BETWEEN THE TEMPORARY ROAD AND EXCAVATION AND EXTEND 50 FEET FROM EACH END OF THE EXCAVATION IN PLACE OF BARRELS. BARRELS MAY BE PLACED AT 35' INCREMENTS AT OTHER TIMES. SHOULD THE EXCAVATION OF THE SEWER LINE COME WITHIN THREE (3) FEET OF THE TRAVEL WAY, JERSEY BARRIERS MEETING ALL APPLICABLE STATE REGULATIONS SHALL BE USED TO SEPARATE TRAFFIC FROM THE WORK AREA.

3.) GIBSON MAY BE BLOCKED AS SHOWN IN PHASE II-A FOR MAXIMUM OF 10 DAYS IN ORDER TO INSTALL THE REMAINING PORTION OF THE SEWER LINE. A RAMP WILL BE REQUIRED AS SHOWN. THE CURB SHALL BE COMPLETELY CLEANSED OF ALL ASPHALT DISCOLORATION UPON REMOVAL OF ASPHALT CONCRETE RAMP.

4.) THE MEDIAN NORTH OF GIBSON ON YALE SHALL BE RECONSTRUCTED ACCORDING TO PLANS DURING THIS PHASE.

5.) INSTALLATION OF THE NEW PAVEMENT ON THE WEST SIDE OF YALE MAY START AS SOON AS THE SEWER LINE IS INSTALLED.

6.) THE CONTRACTOR SHALL NOT HAVE MORE THAN 200' OF OPEN TRENCH AT ANY GIVEN TIME.

7.) ACCESS MUST BE MAINTAINED TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES. ALL ADDITIONAL SIGNING AND BARRICADING REQUIRED TO ACCOMPLISH THIS SHALL BE CONSIDERED INCIDENTAL.

PLANS PREPARED UNDER THE DIRECTION OF

REGISTERED PROFESSIONAL ENGINEER & L.S. — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN

WILLIAM I MATOTAN — DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

26 14602587

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE II

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Perez	1/11/85
A.C.E. - Design	R.E. Lee	1/11/85	Traffic	R.A. Sanchez	1-21-85
~~A.C.E.~~ - Hydrology	Ne Hagen	1/11/85	Water	R. Perez	1/11/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-4 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 8/5/86
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-26
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

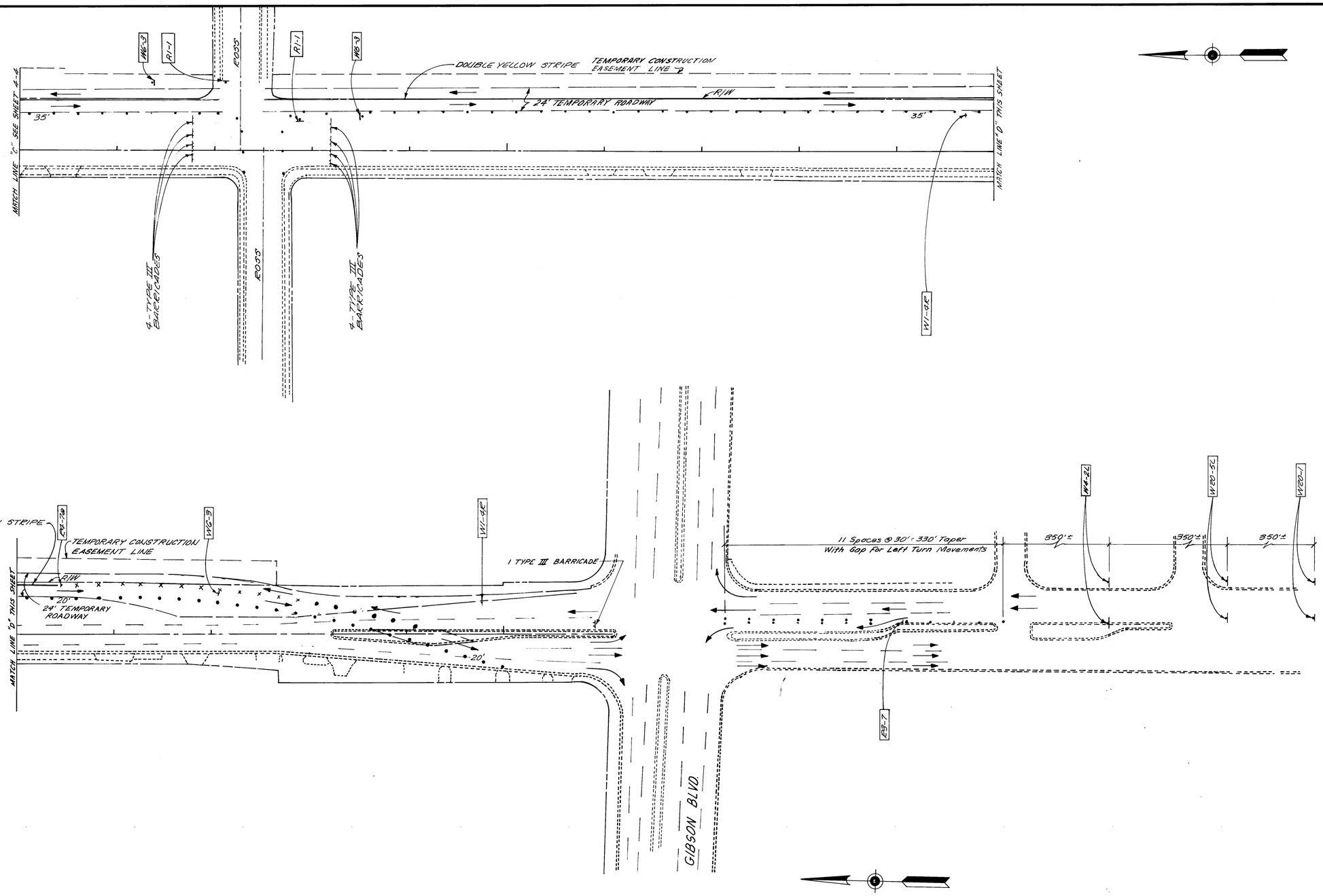
SURVEY INFORMATION
FIELD NOTES
NO. — BY — DATE

REFERENCES
MAP NO. — W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.

REVISIONS

DESIGN
DESIGNED BY WLB — DATE 11-84
DRAWN BY GMJ/SJT — DATE 11-84
CHECKED BY GMJ WLB — DATE 11-84



AS BUILT INFORMATION	
CONTRACTOR Loomis Construction	
WORK STAKED BY City of Albuq.	DATE 8/5/86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY W.M.A.	DATE 6-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

REFERENCES	
MAP NO.	
EST. NO.	
W.O. NO.	

NO.	DATE	REVISIONS	BY
1	6-86	As-Built Revisions	W.M.A.

DESIGN		
DESIGNED BY	WLB	DATE 11-84
DRAWN BY	GM/JS/JT	DATE 11-84
CHECKED BY	WLB/GM	DATE 11-84

PLANS PREPARED UNDER THE DIRECTOR OF

REGISTERED PROFESSIONAL ENGINEER & L.S. — STATE OF NEW MEXICO — No. 1593 — WILLIAM L. MATOTAN

William L. Matotan 1/24/86
WILLIAM L. MATOTAN DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE II

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Lara	1/14/85
A.C.E. - Design		1/14/85	Traffic		1-21-85
~~A.C.E.~~ - Hydrology	Don Hoge	1/14/85	Water	R. Lara	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-5 OF

19602687

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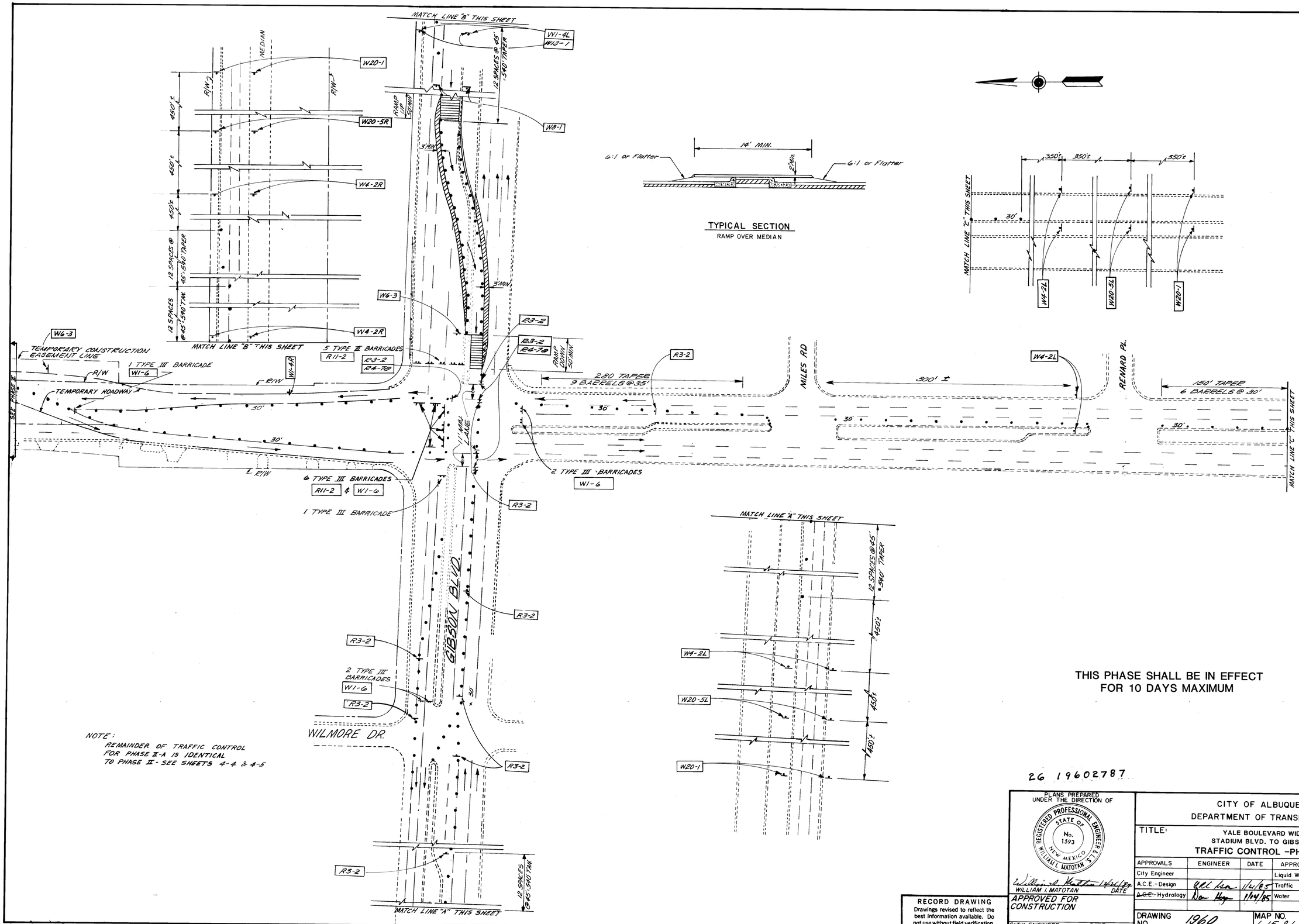
0726038



NOTE:
REMAINDER OF TRAFFIC CONTROL FOR PHASE II-A IS IDENTICAL TO PHASE II - SEE SHEETS 4-4 & 4-5

THIS PHASE SHALL BE IN EFFECT FOR 10 DAYS MAXIMUM

26 19602787

AS BUILT INFORMATION	
CONTRACTOR Loomis Construction	
WORK STAKED BY City of Albuq.	DATE 85/86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY W.M.A.	DATE 6-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	EST. NO.	W.O. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.

REVISIONS

DESIGN		
DESIGNED BY WLB	DATE 11-84	
DRAWN BY GM/JS/JT	DATE 11-84	
CHECKED BY WLB/GM	DATE 11-84	

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & L.S. — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN 12/6/84 DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL -PHASE II-A

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Perez	11/4/85
A.C.E. - Design	Gill Lee	11/4/85	Traffic	[illegible]	1-21-85
~~A.C.E.~~ - Hydrology	Don Hoy	11/4/85	Water	R. Perez	11/4/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-6 OF

WILLIAM MATOTAN & ASSOCIATES - ENGINEERS
ALBUQUERQUE, NEW MEXICO

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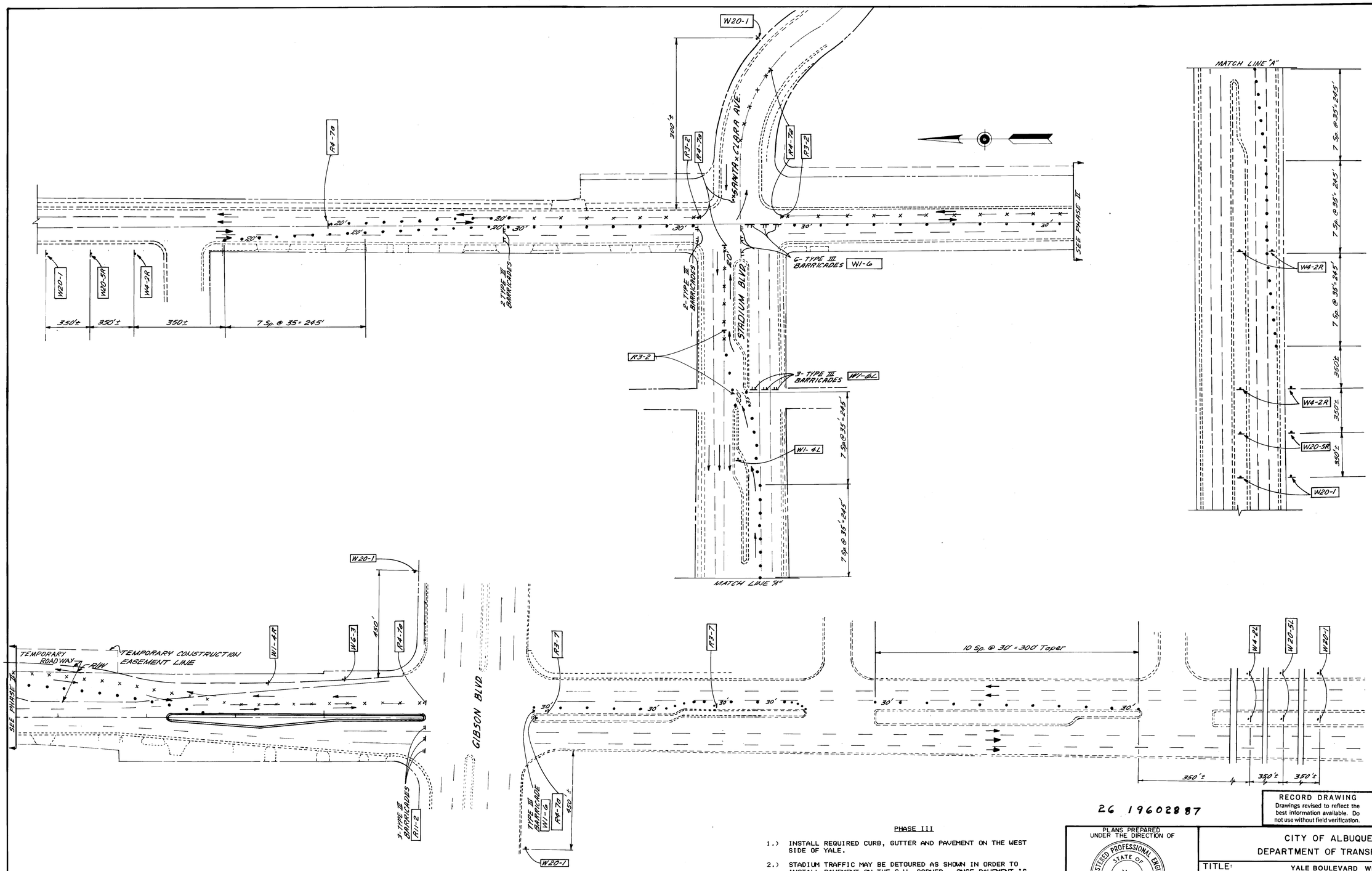


26 19602887

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PHASE III

1.) INSTALL REQUIRED CURB, GUTTER AND PAVEMENT ON THE WEST SIDE OF YALE.

2.) STADIUM TRAFFIC MAY BE DETOURED AS SHOWN IN ORDER TO INSTALL PAVEMENT ON THE S.W. CORNER. ONCE PAVEMENT IS INSTALLED ON S.W. CORNER, TRAFFIC MAY BE SHIFTED TO THE SOUTH SIDE OF STADIUM TO INSTALL PAVEMENT ON N.W. CORNER.

3.) THE CONTRACTOR SHALL DETOUR YALE TRAFFIC AT GIBSON ONLY WHEN WORK IS BEING DONE IN THE AREA. AT OTHER TIMES, YALE TRAFFIC AT GIBSON SHALL BE DETOURED SIMILAR TO PHASE II-A.

4.) WHENEVER THE TEMPORARY ROAD SHIFTS TO AN AREA WHERE PAVEMENT HAS BEEN REMOVED, TEMPORARY PAVEMENT OR PERMANENT PAVEMENT SHALL BE PLACED BEFORE TRAFFIC IS TRANSFERRED.

PLANS PREPARED UNDER THE DIRECTION OF

REGISTERED PROFESSIONAL ENGINEER & L.S. STATE OF NEW MEXICO No. 1593 WILLIAM I. MATOTAN

William I. Matotan 11/14/84
WILLIAM I. MATOTAN DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE III

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Peña	1/14/85
A.C.E. - Design	A.C. Chen	1/21/85	Traffic	[illegible]	1-21-85
A.C.E. - Hydrology	[illegible]	1/14/85	Water	R. Peña	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-7 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 05/86
WORK STAKED ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

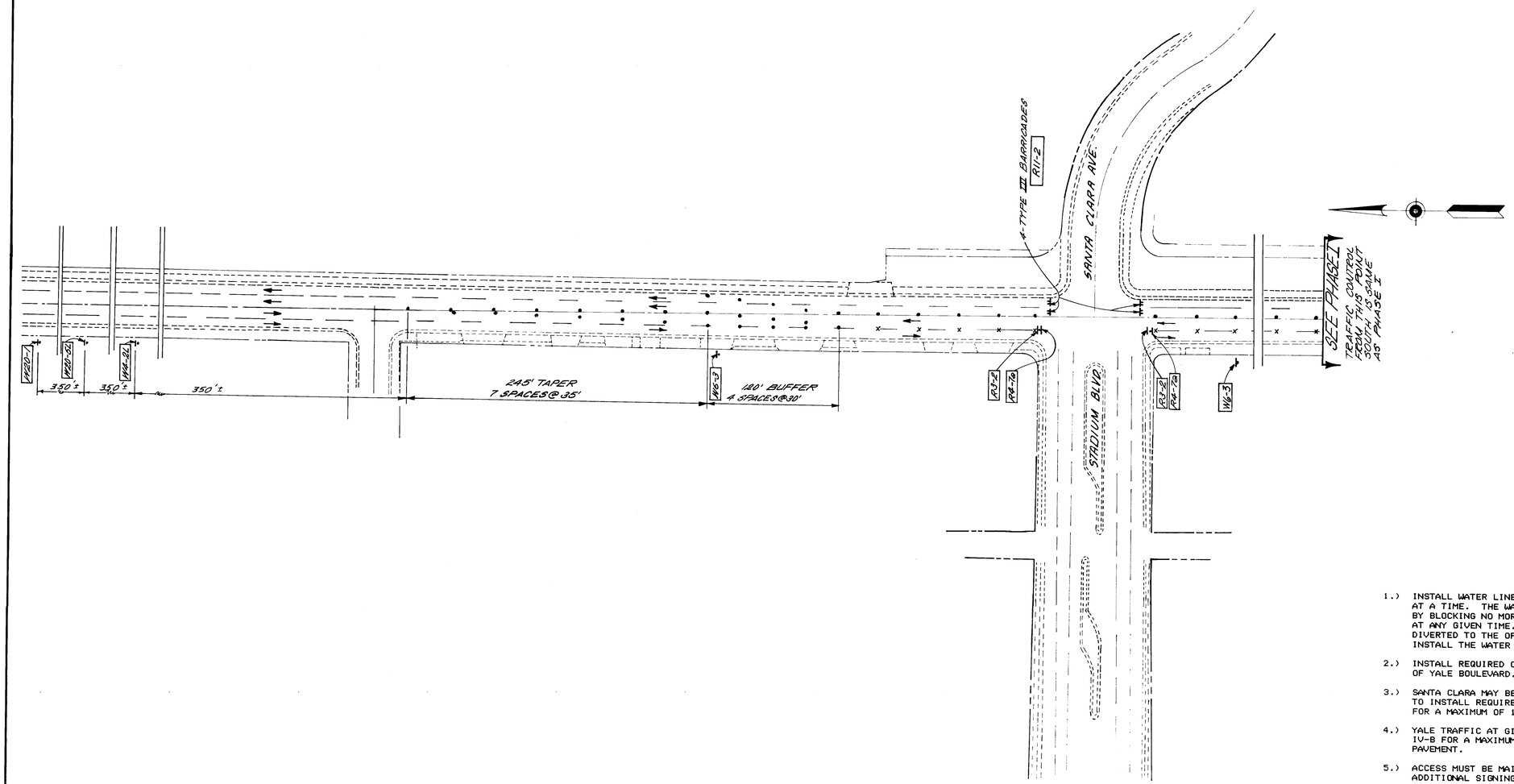
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

NO.	DATE	REVISIONS	BY
1	6-86	As-Built Revisions	W.M.A.

REMARKS

DESIGN
DESIGNED BY WLB DATE 11-84
DRAWN BY GM/LTS/LIT DATE 11-84
CHECKED BY WLB/GM DATE 11-84



PHASE IV

1.) INSTALL WATER LINE IN NO MORE THAN 200' OF OPEN TRENCH AT A TIME. THE WATER LINE TIE-IN ON GIBSON SHALL BE DONE BY BLOCKING NO MORE THAN TWO LANES OF TRAFFIC ON GIBSON AT ANY GIVEN TIME. AT NO TIME SHALL GIBSON TRAFFIC BE DIVERTED TO THE OPPOSITE SIDE OF THE MEDIAN IN ORDER TO INSTALL THE WATER LINE OR PATCH THE CONCRETE INTERSECTION.

2.) INSTALL REQUIRED CURB, GUTTER AND PAVEMENT ON THE EAST SIDE OF YALE BOULEVARD.

3.) SANTA CLARA MAY BE BLOCKED AS SHOWN IN PHASE IV-A IN ORDER TO INSTALL REQUIRED PAVEMENT. SANTA CLARA MAY BE BLOCKED FOR A MAXIMUM OF 15 DAYS. INSTALL REQUIRED MEDIANS.

4.) YALE TRAFFIC AT GIBSON MAY BE DETOURED AS SHOWN IN PHASE IV-B FOR A MAXIMUM OF 15 DAYS IN ORDER TO INSTALL REQUIRED PAVEMENT.

5.) ACCESS MUST BE MAINTAINED TO ALL BUSINESSES AT ALL TIMES. ADDITIONAL SIGNING AND BARRICADING SHALL BE SUPPLIED BY THE CONTRACTOR.

26 19602987

PLANS PREPARED UNDER THE DIRECTION OF

REGISTERED PROFESSIONAL ENGINEER & LS — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN

WILLIAM I. MATOTAN 12/26/84 DATE

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE IV

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E. - Design	H.C. Chen	1/21/85	Traffic	[illegible]	1-21-85
~~A.C.E.~~ - Hydrology	Don Hoya	1/24/85	Water	R. Pena	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 48 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 85/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

NO.	DATE	REVISIONS	BY
1	6-86	As-Built Revisions	W.M.A.

DESIGN
DESIGNED BY W.L.B. DATE 11-84
DRAWN BY G.M./J.J.T. DATE 11-84
CHECKED BY W.L.B./G.M. DATE 11-84

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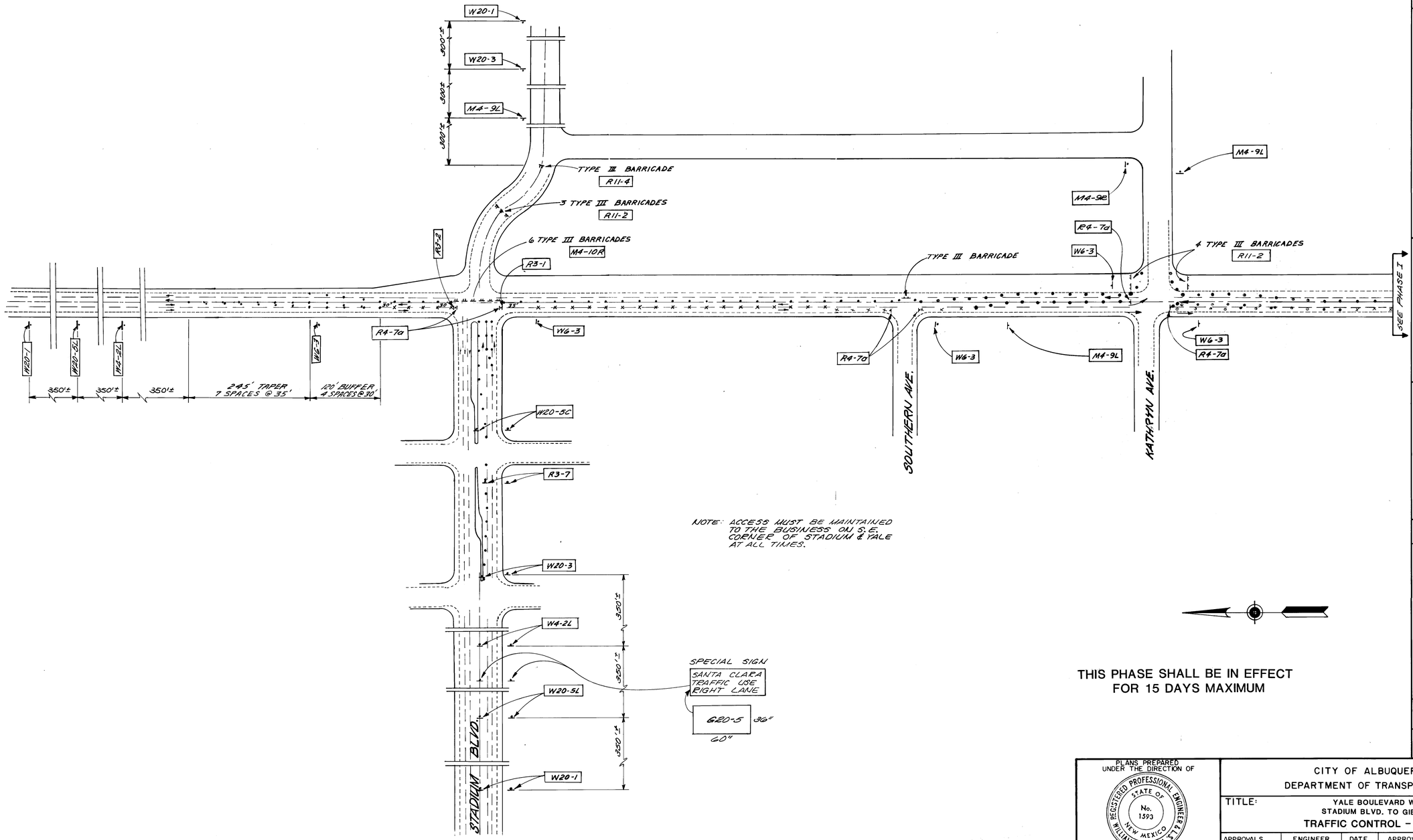

THIS PHASE SHALL BE IN EFFECT FOR 15 DAYS MAXIMUM

26 19603087

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER, STATE OF NEW MEXICO, No. 1593, WILLIAM I. MATOTAN
William I. Matotan 12/26/84
WILLIAM I. MATOTAN DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE IV-A

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E. - Design	HKC	1/21/85	Traffic	[illegible]	1-21-85
~~A.C.E.~~ - Hydrology	[illegible]	1/14/85	Water	R. Pena	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-9 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 05/86
WORK WITNESSED BY DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	EST. NO.	W.O. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.

REVISIONS

DESIGN
DESIGNED BY WLB DATE 11-84
DRAWN BY GMJ/JS/JT DATE 11-84
CHECKED BY WLB/GMJ DATE 11-84

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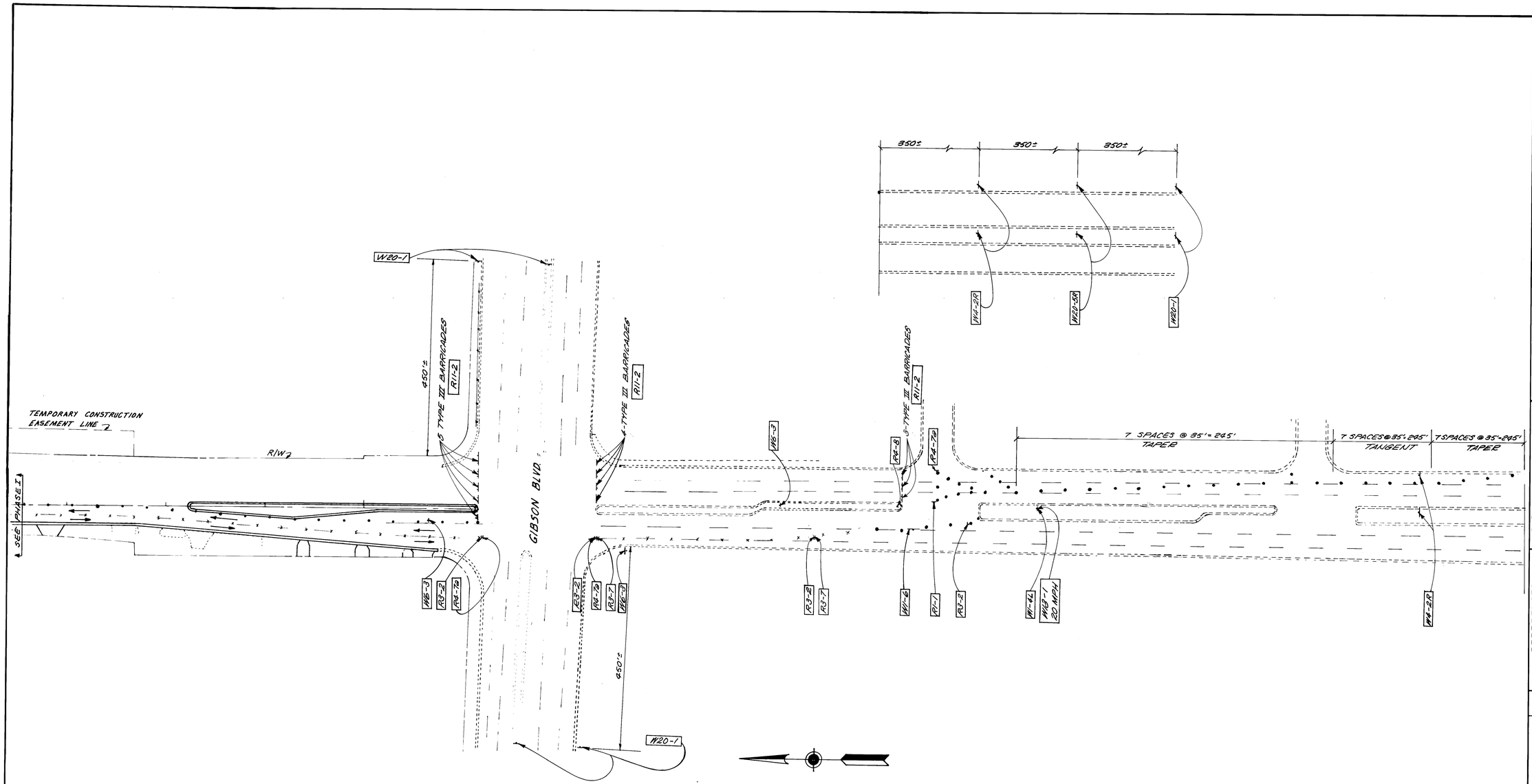

THIS PHASE SHALL BE IN EFFECT
FOR 15 DAYS MAXIMUM

2-6 19603187

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM L. MATOTAN
WILLIAM I. MATOTAN DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - PHASE IV-B

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pinto	1/14/85
A.C.E. - Design		1/21/85	Traffic		1-21-85
A.C.E. - Hydrology		1/14/85	Water	R. Pinto	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-10 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 8/5/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.

REVISIONS

DESIGN
DESIGNED BY WLB DATE 11-84
DRAWN BY GM/JS/JI DATE 11-84
CHECKED BY WLB/GM DATE 11-84

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0726037

CHART TO DETERMINE SINGLE POST SIZE 6

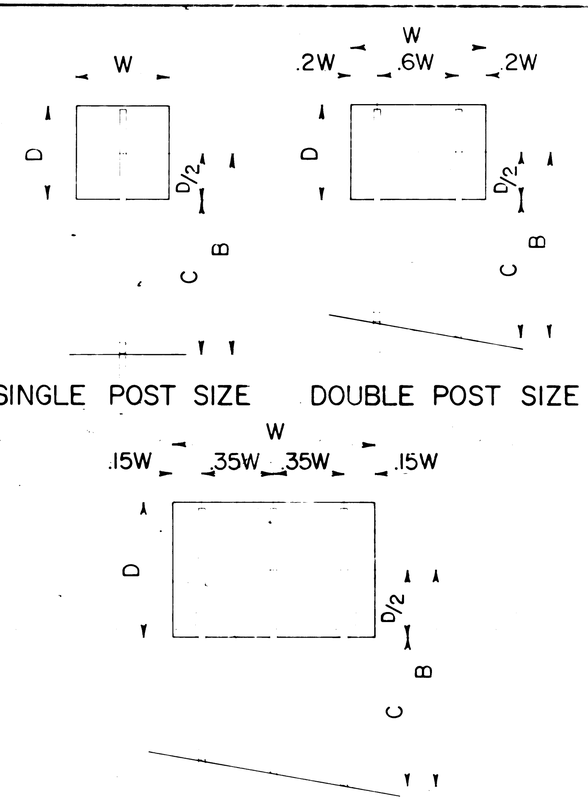
POST SIZE	K FACTOR (B x A)	5	6	7	8	9	10	11	12	13	14	15	16	
		B DIMENSION (FT.)												
2.00 LB/FT	DOES NOT APPLY				3.9				3.7	3.4	3.2	2.9	2.8	A(FT²) SIGN AREA
2.25 LB/FT					5.1			4.6	4.2	3.9	3.6	3.4	3.2	
2.75 LB/FT					6.7			6.0	5.5	5.1	4.7	4.4	4.1	
3.00 LB/FT					7.3				6.7	6.2	5.6	5.1	5.0	
4.00 LB/FT					9.4					8.6	8.0	7.5	7.0	

CHART TO DETERMINE DOUBLE POST SIZE 4

POST SIZE	K FACTOR (B x A)	5	6	7	8	9	10	11	12	13	14	15	16	
		B DIMENSION (FT.)												
2.00 LB/FT	97.00	19.4	16.1	13.8	12.1	10.8	9.7	8.8	8.1	7.5	6.9	6.5	6.1	A(FT²) SIGN AREA
2.25 LB/FT	109.00	21.9	18.2	15.6	13.7	12.2	10.9	9.9	9.1	8.4	7.8	7.3	6.8	
2.75 LB/FT	142.00	28.4	23.7	20.3	17.8	15.8	14.2	12.9	11.8	10.9	10.1	9.5	8.9	
3.00 LB/FT	174.00	34.8	29.0	24.9	21.8	19.3	17.4	15.8	14.5	13.4	12.4	11.6	10.9	
4.00 LB/FT	241.00	43.2	40.2	34.4	30.1	26.8	24.1	21.9	20.1	18.5	17.2	16.1	15.1	

CHART TO DETERMINE THREE POST SIZE 4 8

POST SIZE	K FACTOR (B x A)	5	6	7	8	9	10	11	12	13	14	15	16	
		B DIMENSION (FT.)												
2.00 LB/FT	145.00	29.0	24.2	20.7	18.1	16.1	14.5	13.2	12.1	11.2	10.4	9.7	9.1	A(FT²) SIGN AREA
2.25 LB/FT	164.00	32.8	27.3	23.4	20.5	18.2	16.4	14.9	13.7	12.6	11.7	10.9	10.3	
2.75 LB/FT	213.00	42.6	35.5	30.4	26.6	23.6	21.3	19.3	17.7	16.3	15.2	14.2	13.3	
3.00 LB/FT	261.00	52.2	43.5	37.3	32.6	29.0	26.1	23.7	21.7	20.0	18.6	17.4	16.3	
4.00 LB/FT	361.00	72.2	60.1	51.5	45.1	40.1	36.1	32.8	30.0	27.7	25.8	24.0	22.5	



EXAMPLE

Required: Determine post requirements for a 5' wide, 4' high sign. Located on a rural highway.

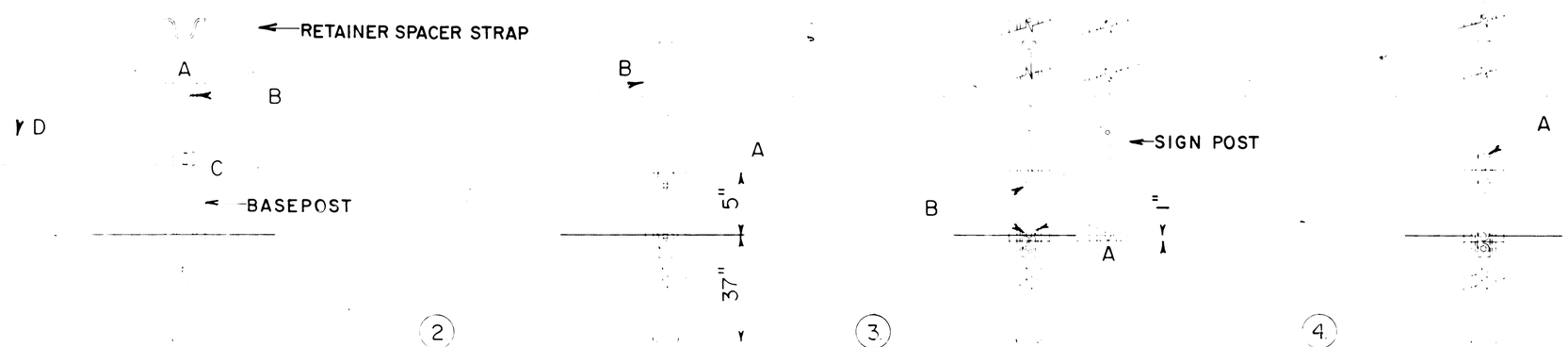
Given: W = 5'
D = 4'

Solution:
1. For a rural location. C (min.) = 5'
2. D/2 = 4/2 = 2
3. B = C + D/2 = 5' + 2' = 7'
4. A = W x D = 5' x 4' = 20.00 sq. ft.
5. Enter the column for B=7' and continue down the B=7' column until the "A" factor equals or exceeds 20 sq ft 2 posts of 2.75lb/ft. yields a factor of 20.3 which is optimum.

Example:

POST	B=7
2.75 LB/FT	20.3 ←
3.00 LB/FT	24.9
4.00 LB/FT	34.4

INSTALLATION PROCEDURE 10



1. Drive basepost to within 12" of ground level. Proper assembly established by lining up top 3/4" slot of retainer spacer strap with top hole of basepost. Assemble strap to basepost.

   Rotate strap 90° to left.

2. A - Drive basepost to 5" dimension.
   B - Rotate strap to vertical position.

3. A - Place 3/8-16 UNC x 2.0" bolt in bottom of sign post to facilitate alignment of sign post with proper hole in base post. (This coincides with bottom 3/4" slot in strap).
   B - Alternately tighten two connector bolts.

4. A - Complete assembly by tightening retainer bolt. (This fastens sign post to retainer spacer strap).

9

10	REVISED INSTALLATION PROCEDURE
9	DELETED NOTE Nº
8	REVISED THREE POST SIZE
7	REVISED NOTE 1

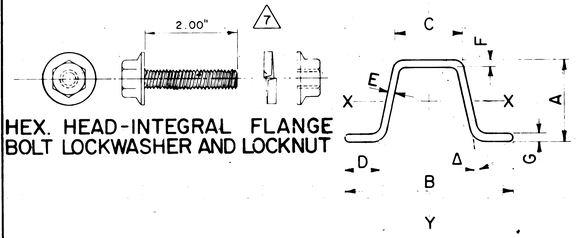
STATE

DESIGN LOADS FOR BREAKAWAY FLAT CHANNEL POSTS

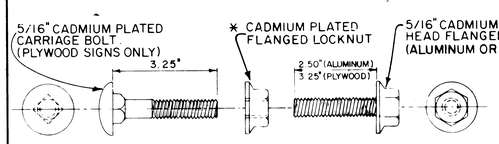
26 19603787

F.H.W.A. Region No.	STATE		SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	131		

FLANGED CHANNEL PROPERTIES													
WEIGHT PER FOOT	DIMENSIONS								AREA	X-X AXIS		Y-Y AXIS	
	A	B	C	D	E	F	G	Δ	IN^2	$I (in^4)$	$S (in^3)$	$I (in^4)$	$S (in^3)$
2.00	1.516	3.125	1.250	.625	.116	.104	.113	12½°	.590	.179	.225	.442	.283
2.25	1.532	3.125	1.250	.625	.124	.113	.132	12½°	.648	.201	.254	.474	.303
2.50	1.562	3.125	1.250	.625	.132	.149	.164	12½°	.748	.233	.289	.551	.353
2.75	1.578	3.125	1.250	.625	.140	.170	.185	12½°	.819	.271	.329	.607	.389
3.00	1.750	3.500	1.625	.718	.150	.165	.160	11½°	.918	.372	.403	.870	.497
4.00	1.750	3.500	1.671	.718	.175	.230	.250	11½°	1.190	.500	.560	1.190	1.090



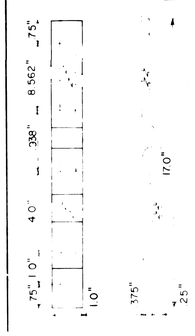
HEX. HEAD-INTEGRAL FLANGE BOLT LOCKWASHER AND LOCKNUT

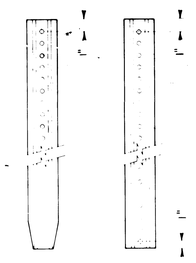


BOLTS AND LOCKNUT-SIGN ATTACHMENT

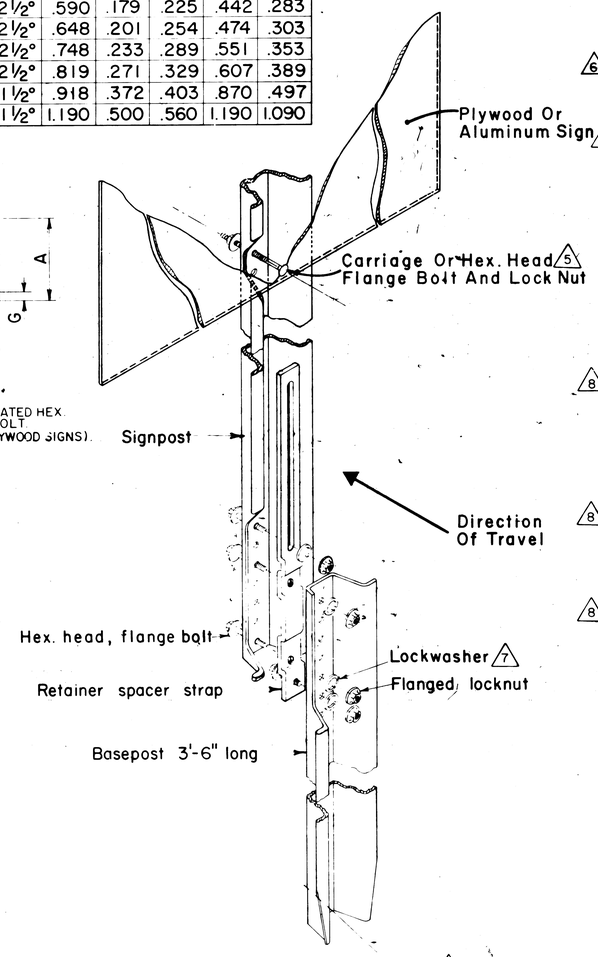
* FLANGED LOCKNUT REQUIRED FOR CARRIAGE AND HEX. HEAD FLANGE BOLT.

RETAINER SPACER STRAP 10





BASE POST SIGN POST 11



SIGN POST ASSEMBLY 9

GENERAL NOTES

1. Base post and sign post shall be flanged channel section, hot rolled from high strength steel meeting requirements of ASTM A499 specification modified in that material shall meet minimum yield stress of 60,000 psi and minimum tensile of 90,000 psi or equal.
2. 6 The finish for base post and sign post shall be hot dip galvanizing meeting requirements of ASTM A-123 specifications or flow coated with a green enamel paint meeting the color requirements of FS-595A (color no. 14062) to a minimum 1 mil thickness.
3. 8 The weight of each base post, before punching, shall be 2.75, 3.0 and 4.0 lb/ft. Weight tolerance shall be plus or minus 3½%. Punching shall be eighteen .438" dia. holes on 1 inch centers, except the first and fifth are .438"x.500"slots, beginning 1" from the top. The length of each base post shall be 3.5' plus or minus 1 inch.
4. The weight of each sign post before punching shall be 2.0, 2.25, 2.5, 2.75, 3.0 and 4.0 lb/ft. Weight tolerance shall be plus or minus 3½%. Punching shall be full length .375 dia. holes 1 inch centers. First hole 1 inch from top and last hole .50 inch from bottom. Lengths shall be to increments of 6 inches length tolerance and shall be plus or minus 1.5 inches.
5. 8 The finished posts shall be machine straightened and have a smooth uniform finish free from injurious defects affecting strength or appearance. Bolt holes and slots shall be carefully spaced vertically and horizontally so that holes will align for easy assembly. All holes, slots and sheared ends shall be free from burrs.
6. 8 Retainer spacer strap material shall be steel AISI 1020. The strap for all posts shall be 1 inch wide x 17 inches long x .25 inch thick with a .375 inch offset. Straps shall be hot dip galvanized meeting requirements of ASTM A-123 specifications.
7. 8 Bolts shall be 3/8" x 16 UNC x 2.0" long hex. Integral flange conforming to ASTM A-354 grade BD. Nuts shall be 3/8" x 16 UNC hex head, integral flange conforming to ASTM A-563 grade DH. Lockwashers shall be 3/8" extra duty helical spring. Bolts, nuts and lockwashers shall mechanically galvanized to ASTM B454-76, class 25.
8. For sidewalk and roadway post installation see standard Sn 75-1.
9. Assemblies are as follows: 2.0, 2.25, 2.50 and 2.75 lb./ft. sign post with 2.75 lb./ft. base post. 3.0 lb./ft. sign post with 3.0 lb./ft. base post. 4.0 lb./ft. sign post with 4.0 lb./ft. base post.
10. Bolts and locknut hardware for sign attachment shall be carriage or hex. head flange type, size shall be 5/16"-18 UNC. Bolts and nuts shall be cadmium plated to ASTM A 165 specification.

2	REVISED NOTE 2	8/6/80 TGM
1	REVISED SIGN POST DETAIL	[illegible] TGM
	REVISED STRAP DETAIL	[illegible] TGM
9	[illegible]	[illegible] TGM
8	[illegible]	[illegible] TGM
7	[illegible]	[illegible] TGM
6	REVISE EAST LENGTH, ADDED [illegible] WASHER	[illegible] TGM
NO.	REVISIONS	BY

NEW MEXICO
STATE HIGHWAY DEPARTMENT

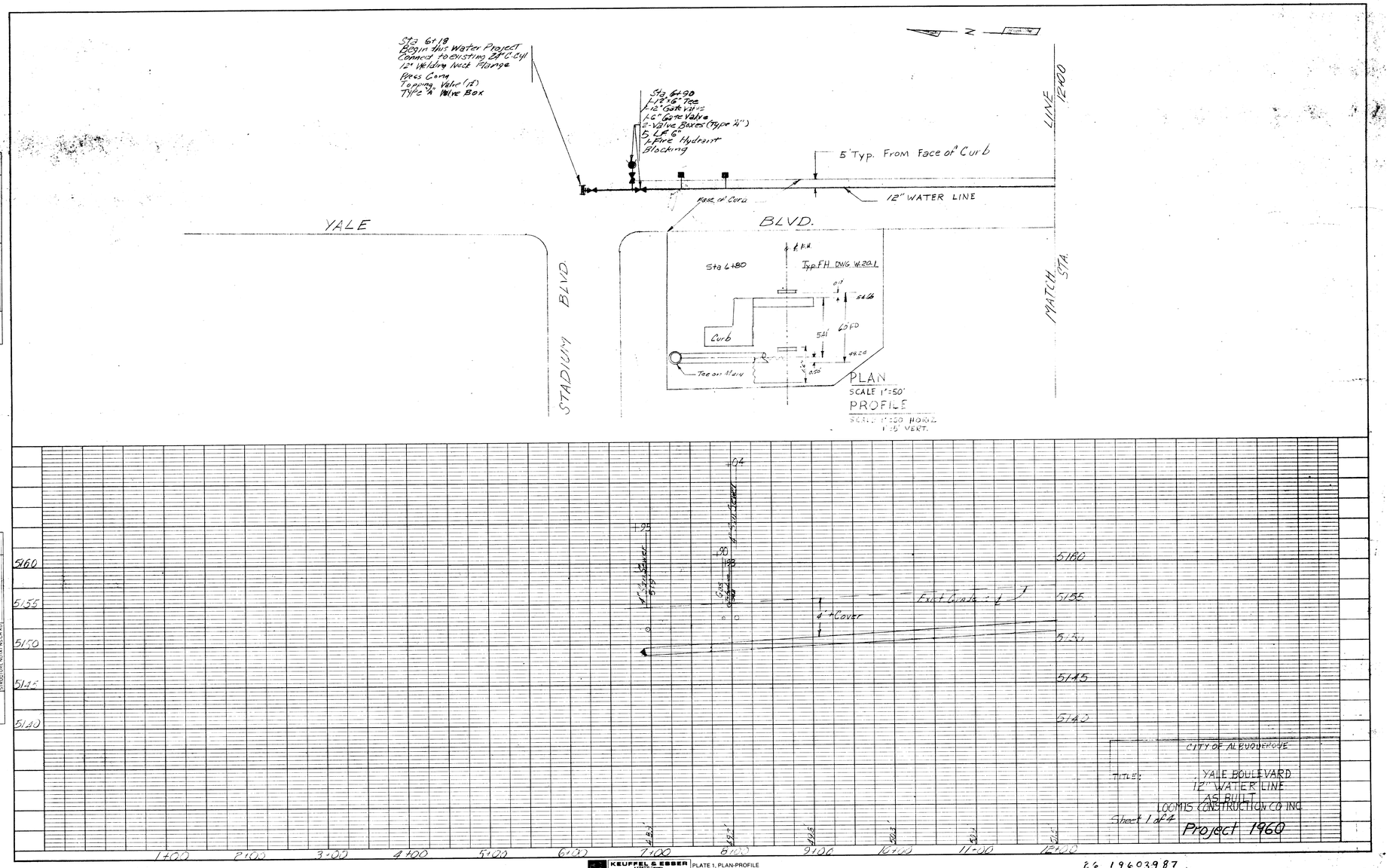
DESIGN DETAILS FOR BREAKAWAY FLANGED CHANNEL POST & HARDWARE

DESIGNED BY [illegible]
DRAWN BY [illegible]
CHECKED BY [illegible]

SERIAL TBAC-002-11

26 1960388 7

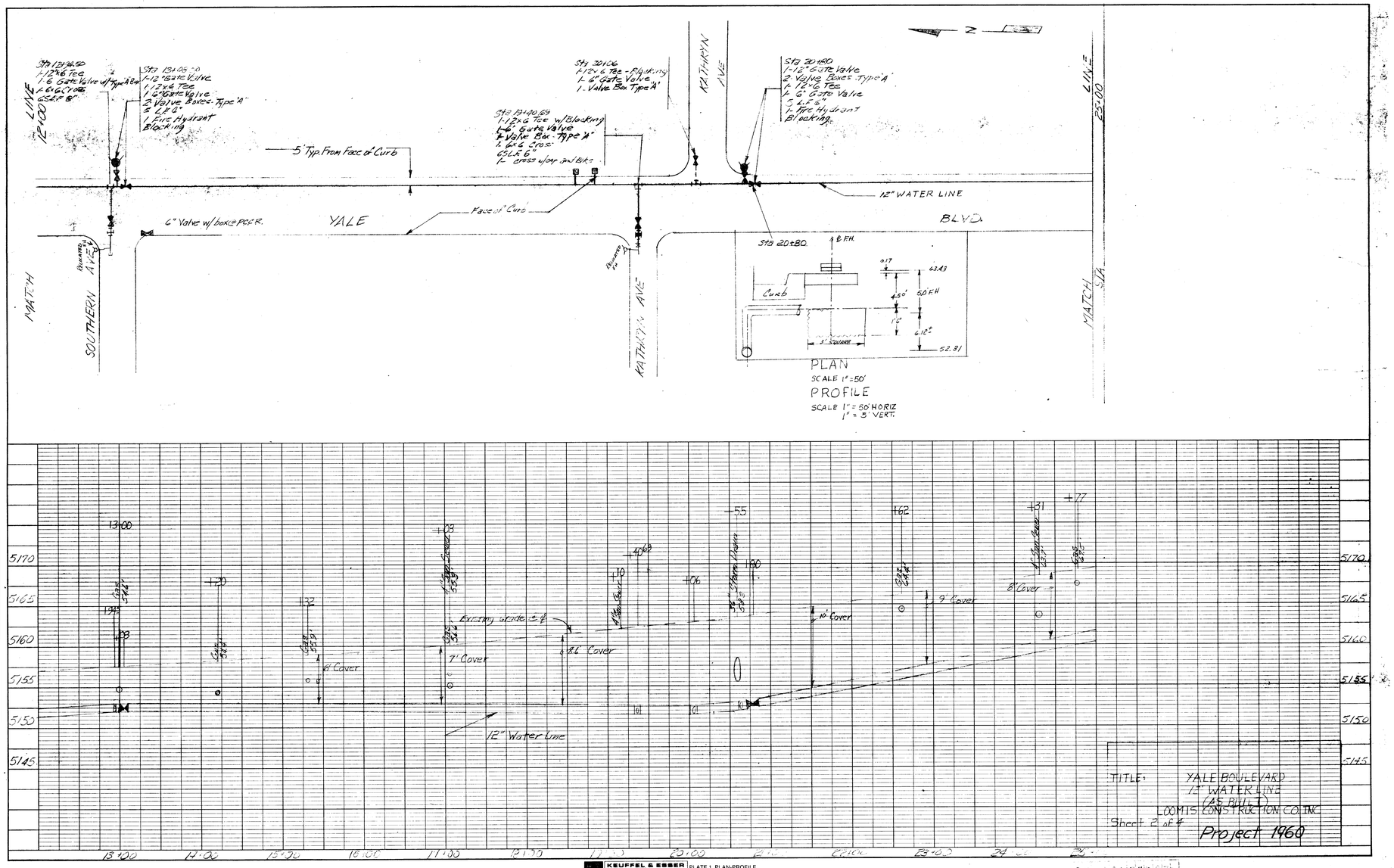
5-4



KEUFFEL & ESSER CO. PLATE 1, PLAN-PROFILE

48 7004 Made in U.S.A.

26 19603987

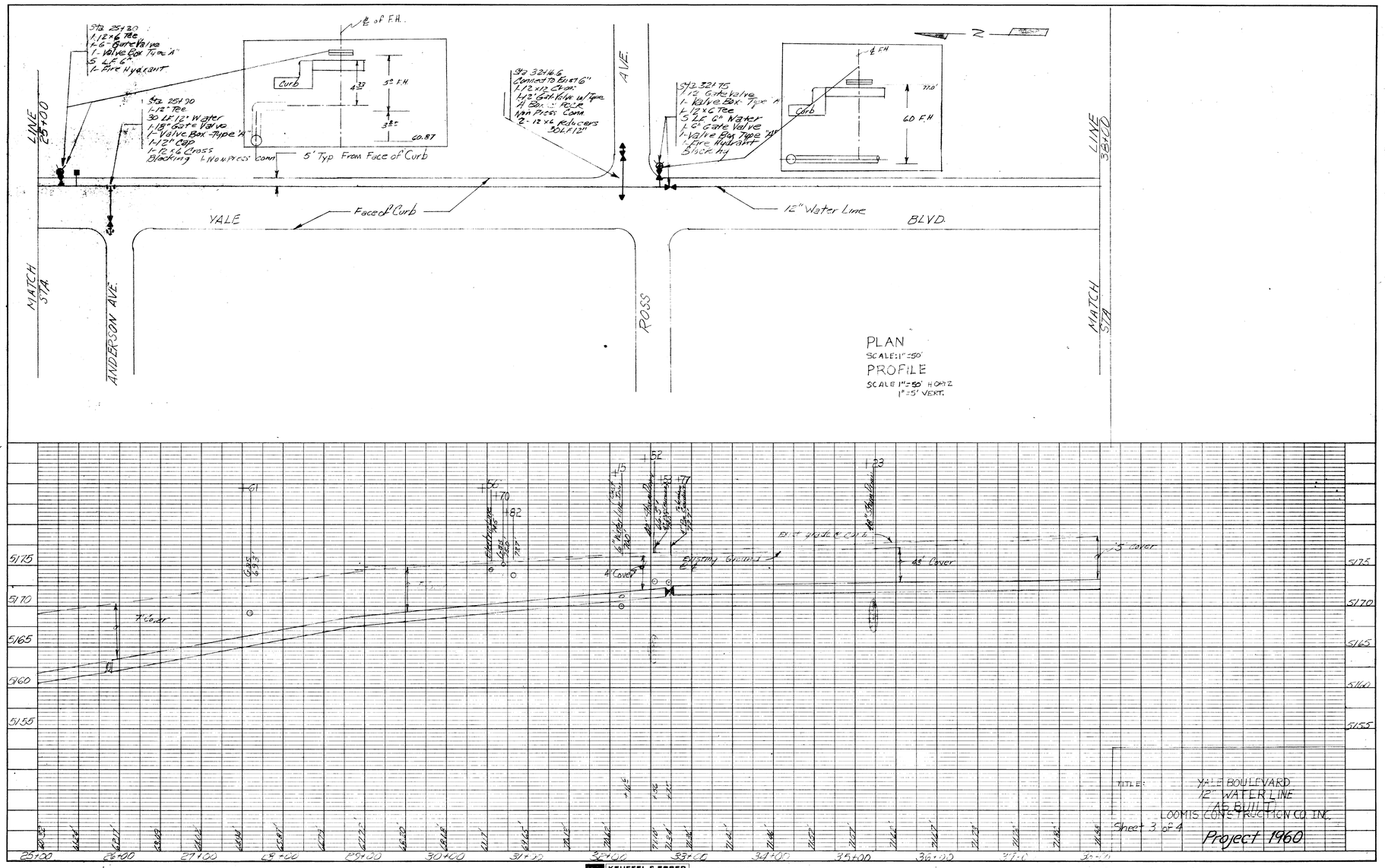


TITLE: YALE BOULEVARD
12" WATER LINE
(AS BUILT)
LOOMIS CONSTRUCTION CO. INC.
Sheet 2 of 4
Project 1960

PLAN — SURVEYED / PLOTTED / DRAWN / ALIGNMENT CHECKED / BY OF MAT CHECKED — NOTE BOOK / NO. — DATE / BY

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BY OF STRUCTURE NO. STATIONING CHKD — NOTE BOOK / NO. — DATE / BY

KEUFFEL & ESSER A KRAMES Company PLATE 1, PLAN-PROFILE
48 7004 Made in U.S.A.



KEUFFEL & ESSER A AMSCO Company PLATE 1, PLAN-PROFILE

48 7004 Made in U.S.A.

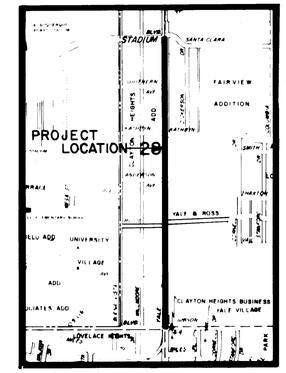
LIST OF DRAWINGS

SHEET NO.	DRAWING NO.	TITLE
1.	WRD 84.	TITLE SHEET, LEGEND, INDEX, & GEN. NOTES
2.	WRD 84.	YALE BLVD.
3.	WRD 84.	YALE BLVD.
4.	WRD 84.	YALE BLVD.
5.	WRD 84.	YALE BLVD.
6.	WRD 84.	TRAFFIC CONTROL

YALE BLVD. WATER & SANITARY SEWER REPLACEMENT

(BETWEEN STADIUM BLVD. & GIBSON BLVD.)

12" MASTERPLAN WATERMAIN – YALE BLVD. S.E.
18" AND 21" SANITARY SEWER – YALE BLVD. S.E.



VICINITY MAP L-16
1" = 1000'

19 CONTRACTOR SHALL CONSTRUCT A TEMPORARY 24' WIDE ROAD TO THE EAST OF THE PRESENT ROAD USING NEWLY OBTAINED RIGHT-OF-WAY AND CONSTRUCTION EASEMENT IN SUCH A WAY THAT TWO-WAY TRAFFIC MAY BE MAINTAINED ON THE ROAD DURING THE INSTALLATION OF THE SEWER LINE. DRAINAGE STRUCTURES AT STATIONS SHALL BE EXTENDED USING PIPE OF THE SAME DIAMETER AS EXISTING PIPE. THE PIPE SHALL BE FURNISHED BY THE CONTRACTOR AND REMAINS HIS PROPERTY AFTER REMOVAL. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE SEWER LINE.

20 THE REPLACEMENT OF CONCRETE PAVEMENT REMOVED FOR THE SANITARY UTILITY LINE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTION 451, PORTLAND CEMENT CONCRETE PAVEMENT, NEW MEXICO STATE HIGHWAY DEPARTMENT, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1984 EDITION, AND SHALL BE REPLACED TO ITS ORIGINAL THICKNESS AND REINFORCEMENTS.

21. EXISTING 12" CP SAS LINE AND MANHOLES SHALL NOT BE ABANDONED UNTIL ALL SAS SERVICE AND 8" CONNECTIONS HAVE BEEN TRANSFERRED TO NEW 18" OR 21" SAS LINE OR MANHOLES.

22. NO SAS SERVICES OR 8" CONNECTIONS SHALL BE TRANSFERRED TO NEW 18" OR 21" SAS LINE UNTIL ALL TESTING OF NEW 18" OR 21" SAS LINE AND MANHOLES HAS BEEN COMPLETED AND PASSED (E.G. INFILTRATION, EXFILTRATION, LAMPING AND UP TO MID-TRENCH BACKFILL DENSITIES).

23. NO WATER SERVICES OR METERS SHALL BE TRANSFERRED TO THE NEW 12" WATER LINE UNTIL ALL PRESSURE TESTING OF THE NEW 12" WATER LINE AND SERVICES HAS BEEN COMPLETED AND PASSED AND THE NEW 12" WATER LINE AND SERVICE PROPERLY DISINFECTED AND FLUSHED.

24. CONTRACTOR SHALL CONSTRUCT A TEMPORARY 24' WIDE ROAD TO THE EAST OF THE PRESENT ROAD USING NEWLY OBTAINED RIGHT-OF-WAY AND CONSTRUCTION EASEMENT IN SUCH A WAY THAT TWO-WAY TRAFFIC MAY BE MAINTAINED ON THE ROAD DURING THE INSTALLATION OF THE SEWER LINE. THIS WORK SHALL BE SUBSIDIARY TO CONSTRUCTION OF THE SEWER LINE.

25. Connection to concrete cylinder line shall be coordinated through the Water Systems Division 823-4052.

GENERAL NOTES

1. THE LOCATION OF ALL EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FINAL UTILITY LOCATION DETERMINATION IN THE FIELD DURING CONSTRUCTION. THIS IS INCIDENTAL TO CONTRACT.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BY CALLING "BLUESTAKES" AT 765-1234 AT LEAST 48 HOURS PRIOR TO COMMENCING WORK IN ANY PART OF THE PROJECT AREA.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING IN SERVICE ALL EXISTING UTILITIES (STORM, WATER, SEWER, GAS, ELECTRIC, PHONE, ETC.)
4. THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT-OF-WAY TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONTRACTOR'S EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL SCHEDULE HIS TRENCHING INSTALLATION AND BACKFILL OPERATIONS SO THAT ACCESS TO ANY DRIVEWAY IS NOT DISRUPTED LONGER THAN ONE WORKING DAY.
5. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE ENGINEER TO MINIMIZE TRAFFIC DISRUPTIONS.
6. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIALS SHALL BE OBTAINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE, HAULING THERETO AND PROPER DISPOSAL THEREOF SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
7. THE CITY OF ALBUQUERQUE STANDARD DETAILS ARE INCLUDED IN THE SPECIFICATIONS AND MADE PART OF THIS CONTRACT.
8. THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979 EDITION AND SUPPLEMENTAL SPECIFICATIONS WILL COVERN WORK ON THIS PROJECT, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.
9. WHERE CONCRETE BLOCKING IS CALLED FOR, WRAP ALL BENDS, TEES, AND OTHER FITTINGS WITH POLYETHELENE.
10. WATER SYSTEMS DIVISION SHALL BE THE ONLY AUTHORIZED PERSONNEL TO OPERATE EXISTING VALVES, FIRE HYDRANTS, ETC. ALL WORK SHUTOFFS MUST BE COORDINATED WITH SAID DIVISION THREE (3) FULL WORKING DAYS PRIOR TO PROPOSED SHUTOFFS. CALL 823-4052.
11. NEW WATER LINE TO EXISTING STEEL PIPE RECONNECTION--SEE SPECIAL NOTE ON STD. DRAWING W-1-3 IN CONTRACT DOCUMENTS WHEN NEW LINE MUST REDUCE IN SIZE TO EXISTING LINE.
12. PROPERTY OWNERS, ADJACENT TO THE PROJECT, MAY DESIRE REPLACEMENT OF THEIR EXISTING DETERIORATED SANITARY SEWER SERVICE OUTSIDE THE LIMITS OF YALE BLVD. R.O.W. AT THE TIME THE SERVICE IS EXPOSED DURING THE NORMAL CONSTRUCTION. THIS WORK SHALL BE SEPARATE FROM THIS PROJECT AND SHALL BE PAID FOR BY THE REQUESTOR DIRECTLY TO (A) THE PROJECT CONTRACTOR, OR (B) A PRIVATE PLUMBING CONTRACTOR WHO SHALL COORDINATE HIS ACTIVITIES WITH THE PROJECT CONTRACTOR.
13. WATER SYSTEMS DIVISION SHALL HAVE THE AUTHORITY TO CANCEL ALL SCHEDULED SHUTOFFS.
14. CONTRACTOR SHALL RECONNECT ALL SANITARY SEWER HOUSE SERVICES IN THE MANNER AND DIRECTION AS ORIGINALLY FOUND; EVEN IF THIS SHALL MEAN THE SERVICE MAY BE AT AN ANGLE OTHER THAN 90 DEGREES FROM THE MAIN; PER AGREEMENT WITH THE MECHANICAL SECTION/CODE ADMINISTRATION DIVISION.
15. THE CARE AND PROTECTION OF ALL OTHER UTILITIES, CURB AND GUTTER, SIDEWALK, AND OTHER STREET APPURTENANCES THAT ARE NOT A PART OF THE INTENDED WORK AS SHOWN ON PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE HARMFULLY DISTURBED, THESE ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
16. WHEN EXISTING SANITARY SEWER SERVICES HAVE BEEN RECONNECTED TO REPLACEMENT MAINS, THE CONTRACT SHALL STAMP OR CHISEL A 3-INCH SIZE "S" ON TOP OF CURB OVER THE LOCATION OF THE SERVICE LINE. THE CURB CUT FOR "S" MUST BE MINIMUM 1/4-INCH DEEP.
17. WHEN EXISTING WATER SERVICES HAVE BEEN RECONNECTED TO REPLACEMENT MAINS, THE CONTRACTOR SHALL STAMP OR CHISEL A 4-INCH SIZE "W" ON THE TOP OF CURB OVER THE LOCATION OF THE SERVICE LINE. THE CURB CUT FOR THE "W" MUST BE A MINIMUM 1/4-INCH DEEP.
18. ABANDONMENT OF EXISTING 12" CP SAS LINE AND MANHOLES WILL BE DONE BY FILLING LINE WITH SAND AND PLUGGING INVERTS WITH 1' LONG MORTAR PLUGS, BREAKUP BOTTOM OF MANHOLE, FILL MANHOLE WITH SAND AND REMOVE AND RETURN CASTINGS AND LIDS TO THE CITY YARDS.

LEGEND

- W.L. — PROPOSED WATER LINE
- SAS — PROPOSED SEWER LINE
- PROPOSED GATE VALVE (WATER)
- PROPOSED FIRE HYDRANT
- PROPOSED TEE
- PROPOSED SANITARY MANHOLE
- W — EXISTING WATER LINE & VALVE
- SAS — EXISTING SEWER LINE & MANHOLE
- SD — EXISTING STORM DRAIN & MANHOLE
- G — GAS MAIN
- UT — UNDERGROUND TELEPHONE
- T — TELEPHONE MANHOLE
- UTILITY POLE
- EXISTING TEE (WATER)
- EXISTING CURB & GUTTER WITH STORM INLET
- (PROPOSED CURB & GUTTER) NOT PART OF THIS CONTRACT
- EXISTING WATER METER
- METER BOX REHABILITATION
- RELOCATE BOX & PLATE
- REPLACE EXISTING SERVICE LINE/OR INSTALL NEW SERVICE LINE
- REPLACE EXISTING SERVICE LINE ONLY
- INSTALL DOUBLE BOX & PLATE

ALBUQUERQUE SEAL NEW MEXICO 1706

AS-BUILT OF WATER & SANITARY SEWER ONLY. AUGUST 1986

26 1960 0187

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

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Brian L. Spicer
DATE 5/31/88

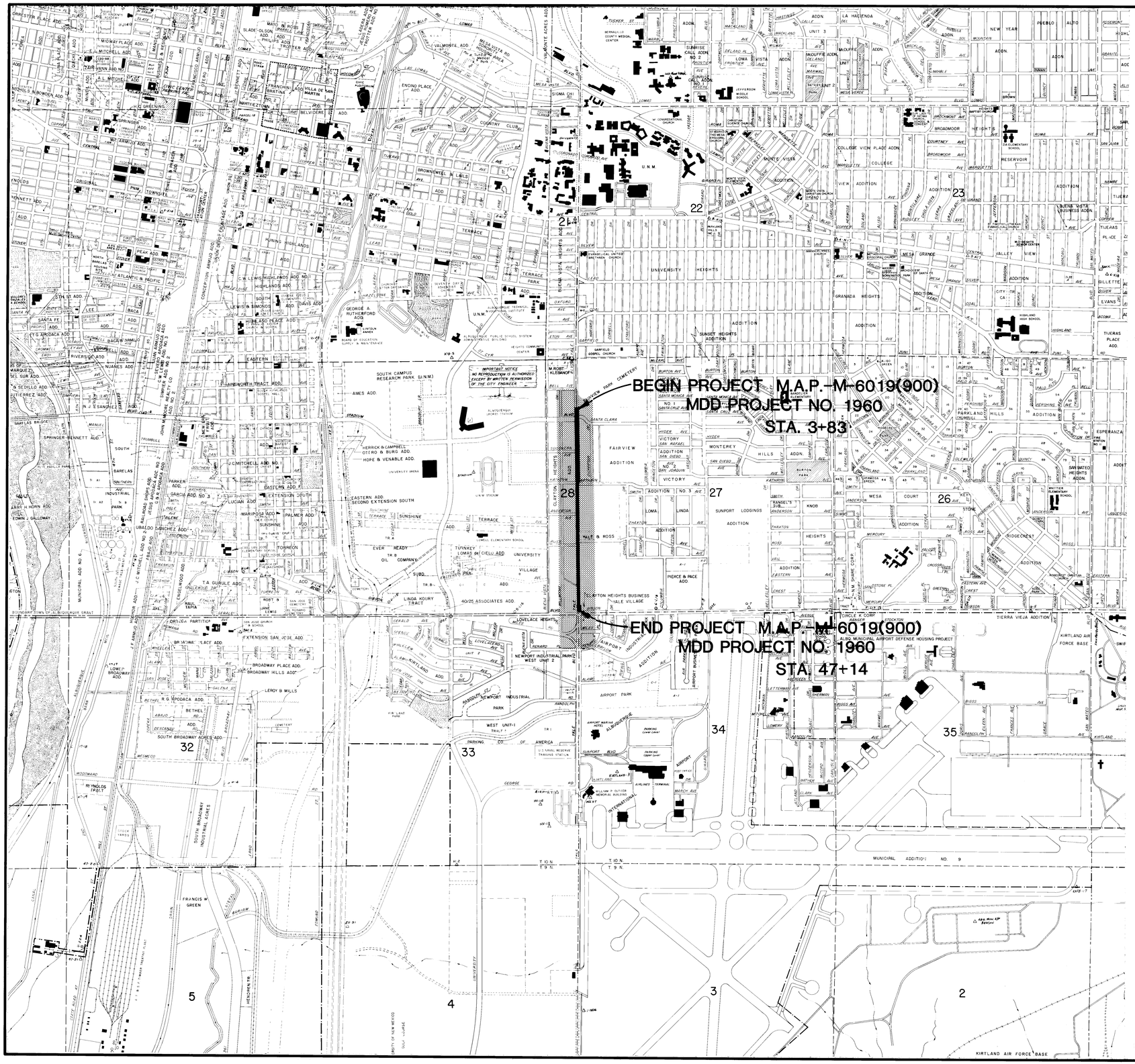
APPROVED FOR CONSTRUCTION
WALTER H. NICKELSON JR. NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
W.R.D. CHIEF ENGINEER

APPROVED FOR CONSTRUCTION
CITY ENGINEER

PROJECT NO. (WRD)

SHEET __ OF __
II-1 5

PREPARED BY:
CITY OF ALBUQUERQUE BERNALILLO COUNTY WATER RESOURCES DEPARTMENT



LEGEND

PLAN VIEW

	NEW	EXISTING
WHEELCHAIR RAMPS		
GAS LINES		G
UNDERGROUND TELEPHONE		UT
POWER OR TELEPHONE POLE		PP
LIGHT POLE		
SANITARY SEWER LINE	SAS	SAS
STORM DRAIN LINE	SD	SD
STORM DRAIN MANHOLE		
STORM DRAIN INLETS		
WATER LINE	W	W
FIRE HYDRANTS		
CURB & GUTTER		
SIDEWALKS		
BLOCK WALL		
CHAIN LINK FENCE		
FIELD FENCE		
SIDE SLOPE		
RIGHT OF WAY LINES		
CENTER LINES		
DIMENSION LINES		
PROJECT BOUNDARY		
TEMPORARY CONSTRUCTION EASEMENT		

PROFILE

MANHOLES (ALL)	SAS	SAS
STORM DRAIN LINES	SD	SD

26 19600287

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM L. MATOTAN

WILLIAM L. MATOTAN — DATE 12/26/84

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
LOCATION MAP AND LEGEND

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/14/85
A.C.E.-Design		1/21/85	Traffic		1-21-85
A.C.E.-Hydrology		1/14/85	Water		1/14/85

DRAWING NO. 1960 | MAP NO. | SHEET 1-2 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 85-86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	WMA

REVISIONS

		DATE
DESIGNED BY	WLB	11-84
DRAWN BY	GM/JS/JT	11-84
CHECKED BY	WLB/GM	11-84

25

GENERAL NOTES

1. THE NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS (1984) SHALL GOVERN THE CONSTRUCTION OF THE HIGHWAY PORTION OF THIS PROJECT INCLUDING THE STORM DRAIN.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF OLD PAVEMENT, AND EXCESS EXCAVATION. THE PORTLAND CEMENT CONCRETE MATERIALS SHALL BE HAULED TO A SITE APPROVED BY THE STREET MAINTENANCE ENGINEER. CALL 823-4031 TO COORDINATE STOCKPILING.

3. AN IMPENDING CONSTRUCTION SIGN WILL BE REQUIRED ON EACH END OF THIS PROJECT. SEE SPECIAL PROVISIONS. CONTRACTOR WILL ANNOUNCE CLOSURES OR DETOUR CHANGES IN ADVANCE THROUGH THE LOCAL NEWS MEDIA.

4. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AS OUTLINED IN THE "TRAFFIC CONTROL DURING CONSTRUCTION" PLAN. ANY NECESSARY DEVIATION FROM THE PLAN SHALL HAVE PRIOR APPROVAL OF THE CITY TRAFFIC ENGINEER. ACCESS TO ABUTTING PROPERTY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

5. THE CONTRACTOR SHALL FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL ALIGNMENT OF ALL EXISTING UTILITIES. SUCH VERIFICATION MEASUREMENTS TO BE RECORDED ON THE AS-BUILT DRAWINGS.

6. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE HIGH PRESSURE GAS LINE AT NO GREATER THAN 300′ INTERVALS PRIOR TO EXCAVATION OF THE EXISTING PAVEMENT. 50 TON ROLLING EQUIPMENT SHALL NOT BE USED ON THIS PROJECT.

7. THE LOCATION, SIZE AND NUMBER OF NEW DRIVEWAYS MAY VARY DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER, AND APPROVED BY THE CITY TRAFFIC ENGINEER.

8. ALL EXISTING PAVEMENT OR CONCRETE STRUCTURES SHALL BE REMOVED TO NEAT LINES BY SAW CUTTING.

9. ALL CURB RETURNS TO HAVE A 25′ RADIUS TO FLOWLINE OF GUTTER UNLESS OTHERWISE NOTED.

10. ALL CURB RETURNS TO BE CONSTRUCTED WITH CITY STANDARD WHEELCHAIR RAMPS UNLESS OTHERWISE NOTED. SEE STANDARD DRAWING NO. P-17-1.

11. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE 1978 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

12. THE CURB AND GUTTER ON THE WEST (RIGHT) SIDE OF YALE SHALL REMAIN. ELEVATIONS SHALL BE NOTED ON EACH SIDE OF EACH CONTRACTION JOINT BEFORE CONSTRUCTION OF THE SEWER LINE. IF DURING THE CONSTRUCTION, THE VERTICAL AND HORIZONTAL ALIGNMENT OF THE CURB AND GUTTER IS DISTURBED, THE CONTRACTOR SHALL REMOVE AND REPLACE THE CURB AND GUTTER TO THE ORIGINAL LINE AND GRADE AT HIS SOLE EXPENSE.

13. THE SIGNAL FOUNDATIONS, PULLBOXES, AND CONDUIT SHALL BE COMPLETED PRIOR TO REMOVAL OF ANY CURB AND GUTTER AT THE STADIUM-YALE INTERSECTION.

14. THE MATERIAL OBTAINED FROM THE "REMOVAL OF EXISTING SUBGRADE", ITEM 202002, IS TO BE USED FOR FILL FOR THE "GRADE TO DRAIN AREA" EAST OF STATION 21+00.

15. CONTRACTOR SHALL CONSTRUCT A TEMPORARY 24′ WIDE ROAD TO THE EAST OF THE PRESENT ROAD USING NEWLY OBTAINED RIGHT-OF-WAY AND CONSTRUCTION EASEMENT IN SUCH A WAY THAT TWO-WAY TRAFFIC MAY BE MAINTAINED ON THE ROAD DURING THE INSTALLATION OF THE SEWER LINE.

16. "AS A RESULT OF IMPLEMENTING THE 1984 EDITION OF THE NEW MEXICO STATE HIGHWAY DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MANY OF THE ITEM DESCRIPTIONS HAVE BEEN CHANGED. THE OLD TERMINOLOGY FOR THESE ITEMS WILL STILL APPEAR ON THE STANDARD DRAWING SERIALS, AND MAY APPEAR ON SEVERAL PLACES IN THE PLANS. THESE ITEMS, ALTHOUGH THEY NOW HAVE A DIFFERENT DESCRIPTION, ARE ONE AND THE SAME, AND ALL NOTES AND SERIALS MAKING REFERENCE TO THESE ITEMS SHALL BE ADHERED TO."

17. AMOUNTS OF ASPHALT MATERIALS SHOWN ON SURFACING FACTORS ARE FOR ESTIMATING PURPOSES ONLY; CORRECT AMOUNTS WILL BE DETERMINED BY AN APPROVED MATERIALS AND TESTING LABORATORY.

18. AC-20 VISCOSITY GRADE ASPHALT MAY BE SUBSTITUTED FOR 60-70 PENETRATION GRADE ASPHALT IN THE PLANT MIXED SEAL COAT, THE PLANT MIX BITUMINOUS PAVEMENT, PLANT MIX BITUMINOUS BASE AND ASPHALT TREATED BASE.

19. UTILITY ADJUSTMENTS WILL BE MADE BY OTHERS AS NOTED ON THE UTILITY PLAN SHEETS. CITY WILL COORDINATE THESE ADJUSTMENTS THROUGH THE ENGINEER.

20. WARP SLOPES, WHERE NECESSARY TO STAY WITHIN RIGHT-OF-WAY OR CONSTRUCTION EASEMENT LIMITS.

21. MATERIALS AND EQUIPMENT SHALL NOT BE STORED WITHIN 15 FEET OF THE TRAVELED WAY (EDGE OF DRIVING LANE).

22. LENGTHS SHOWN ARE BASED ON THE FLOWLINE OR CURB AT GUTTER GRADE.

23. THE CONTRACTOR SHALL NOT DISTURB, COVER OR REMOVE ANY SURVEY MONUMENTS INCLUDING TRIANGULATION STATIONS, BENCH MARKS, MONUMENTS, SECTION CORNERS, N.M.S.H.D. MONUMENTS, LAND GRANT MARKERS, OR ANY OTHER PERMANENT REFERENCE MARKERS LOCATED WITHIN THE CONSTRUCTION LIMITS (INCLUDING THE LIMITS OF TEMPORARY CONSTRUCTION PERMITS) OR ON THE RIGHT-OF-WAY LINE OF THIS PROJECT, UNLESS WRITTEN DOCUMENTATION REGARDING REFERENCING OF SAID MARKER HAS BEEN PROVIDED BY THE CONTRACTOR TO THE PROJECT ENGINEER FOR HIS APPROVAL. SUCH REFERENCING SHALL BE DONE IN STRICT ACCORDANCE WITH STATUTE 63-21-1, N.M.S.A., AND A PLAT RECORDED AND FILED THROUGH THE COUNTY CLERK FOR EACH MONUMENT AFFECTED. THE CONTRACTOR, AT HIS EXPENSE, SHALL RESET DESTROYED MONUMENTS IN ACCORDANCE WITH STATUTE 63-21-1, N.M.S.A. ALL NOTES BY THE CONTRACTOR REGARDING REFERENCING OF SAID MONUMENTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER SO THAT HE MAY FORWARD THEM TO THE MONUMENTATION SECTION (GENERAL OFFICE). THE CONTRACTOR SHALL BE ASSESSED A ONE THOUSAND DOLLAR ($1,000.00) PENALTY FOR EACH MONUMENT WHICH HAS NOT BEEN PROPERLY REFERENCED PRIOR TO ITS DISTURBANCE OR DESTRUCTION.

24. THE ANGLE SHOWN FOR THE SKEW OF PIPE CULVERTS IS APPROXIMATE ONLY AND IS USE FOR ESTIMATING PURPOSES. PIPE CULVERTS ARE TO BE CONSTRUCTED ON ACTUAL SKEW AS DETERMINED IN THE FIELD BY THE ENGINEER.

25. MATERIAL WITH AN "R" VALUE OF LESS THAN 50 SHALL NOT BE PLACED BY THE CONTRACTOR WITHIN TWO (2) FEET OF THE FINISHED SUBGRADE. IN AREAS OF EXCAVATION, OR WHERE THE FINISHED GRADE IS WITHIN TWO (2) FEET OF THE NATURAL GROUND, ANY MATERIALS WITH AN "R" VALUE OF LESS THAN 50, ENCOUNTERED WITHIN THE TWO (2) FEET OF THE FINISHED SUBGRADE, SHALL BE REMOVED BY THE CONTRACTOR AND THEN BACKFILLED WITH MATERIALS THAT HAVE AN "R" VALUE OF 50 OR BETTER. *THE R-VALUE SHALL BE MEASURED ACCORDIN TO AASHTO T-190.*

26. THE CONTRACTOR SHALL NOT PERFORM FINAL ADJUSTMENT OF MANHOLES, WATER VALVES OR METER BOXES UNTIL AFTER THE PLANT MIX BITUMINOUS SURFACING HAS BEEN PLACED AND BEFORE THE OPEN-GRADED FRICTION COURSE IS PLACED.

27. THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE-BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMIT OMISSION OF PARTICULATE MATTER AND THE USE OF CUT BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY THESE RESTRICTIONS WITH THE ENVIRONMENTAL HEATH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICTS WITH THE REGULATIONS.

28. PROFILE GRADE ELEVATIONS AS SHOWN OM PROFILE DENOTE FINISHED GRADE AT TOP OF WEST CURB AND ARE SUBJECT TO REVISION ON CONSTRUCTION UPON APPROVAL OF THE ENGINEER.

29. ALL SIMPLE CURVES ON THIS PROJECT ARE BASED ON THE ARC DEFINITION.(RADIUS OF A 1 DEGREE CURVE = 5729.58′.)

30. THIS PROJECT BEGINS IN SECTION 28, TOWNSHIP 10 NORTH, RANGE 3 EAST.

31. MATERIALS FOR IMPRESSED PATTERN COLORED CONCETE MEDIAN PAVING SHALL COMPLY WITH THE REQUIREMENTS OF THE N.M. STANDARD SPECIFICIATIONS FOR PUBLIC WORKS CONSTRUCTION, 1979, SECTION 101, FOR 3,000 P.S.I., CONCRETE, AIR ENTRAINED. COLORING AGENT SHALL BE DAVIS #1117 "TILE RED", INTEGRALLY ADDED AT A RATE OF 3 LBS. PER BAG OF CEMENT, OR APPROVED EQUAL. THE IMPRESSED PATTERN SHALL BE 5-1/2" X 8" RUNNING BOND, FLAT FINISH. PLACEMENT, FINISHING AND CURING SHALL BE PERFORMED IN ACCORDANCE WITH THE COLORING MANUFACTURER'S RECOMMENDATIONS.

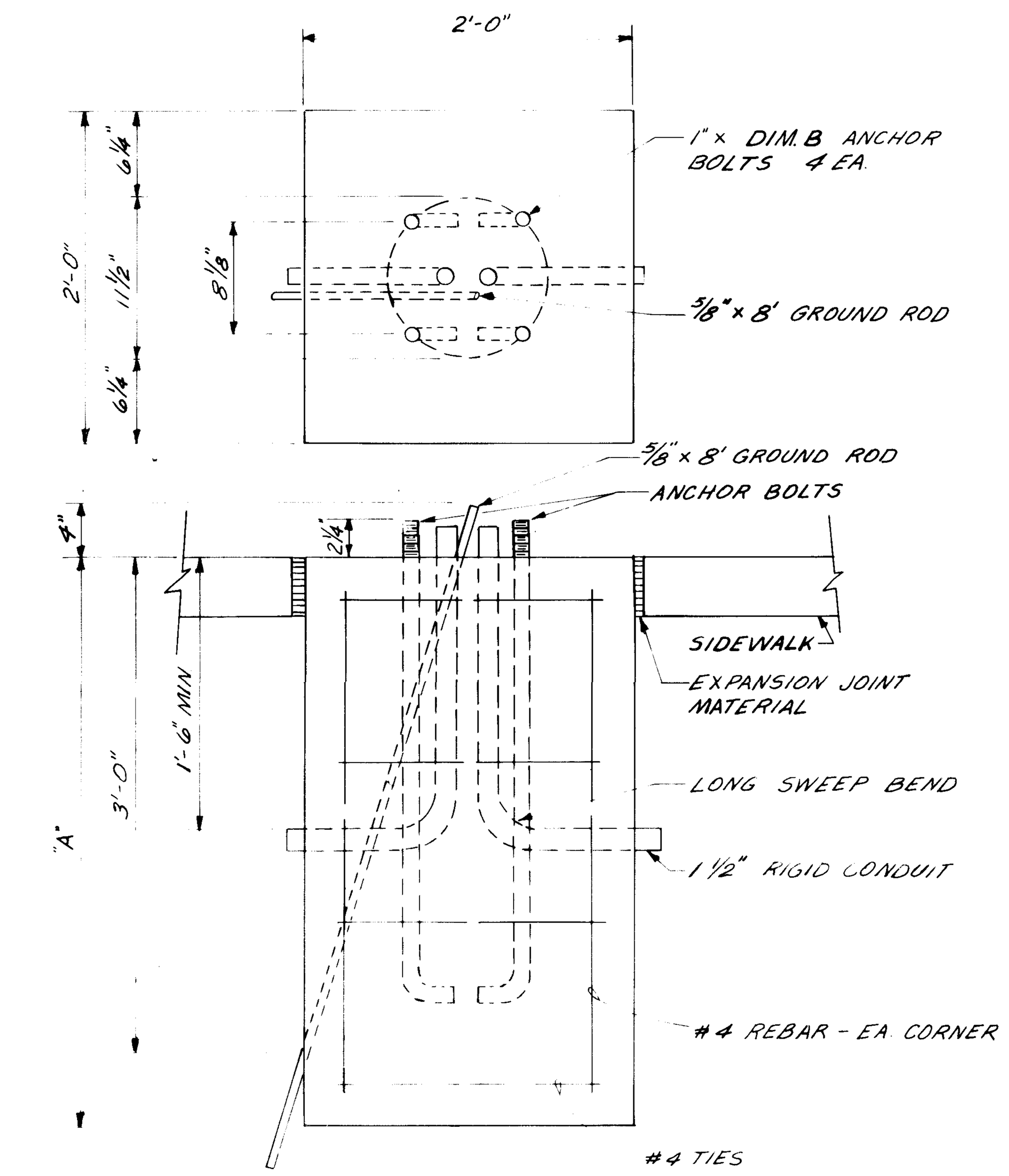
32. BOLLARDS AND HEADER CURBS SHALL BE INSTALLED AT ALL HANDICAP RAMPS. SPECIFIC LOCATION TO BE DIRECTED BY THE ENGINEER. PAYMENT FOR THE HEADER CURBS AND BOLLARDS SHALL BE INCIDENTAL TO CONSTRUCTION OF THE SIDEWALK.

33. CONSTRUCTION SEQUENCE SHALL BE AS OUTLINED IN SECTION 4 OF THESE CONSTRUCTION PLANS.

34. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III.

35. ALL STORM SEWER MANHOLES SHALL BE CONSTRUCTED WITH STEPS CONFORMING TO STD. DRAWING NO. K-18-1, AND PROTRUDING 7" FROM THE MANHOLE WALL. THE TOP STEP SHALL BE PLACED 18" FROM THE MANHOLE RIM. THE STEPS SHALL BE PLACED 12" ON CENTERS AND THE BOTTOM STEP SHALL BE NO MORE THAN 18" FROM THE BOTTOM OF THE MANHOLE.

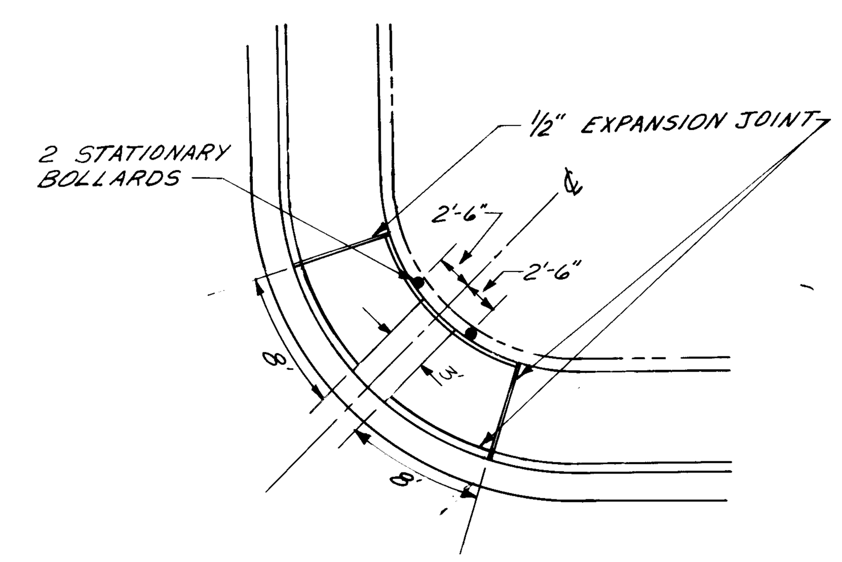
36. *THE TELEPHONE CONDUIT BETWEEN MANHOLES ON THE RIGHT SIDE OF YALE IS COMPOSED OF MUTI-TILE DUCT AND CANNOT BE EXPOSED FOR GREATER DISTANCES THAN ITS JOINTS (APPOXIMATLY 6 FT.) WITHOUT SOME MEANS OF SUPPORT. THE DEPTH OF THE CONDUIT BETWEEN MANHOLES IS UNKNOWN. SEE SPECIAL PROVISIONS, SECTION 25.*



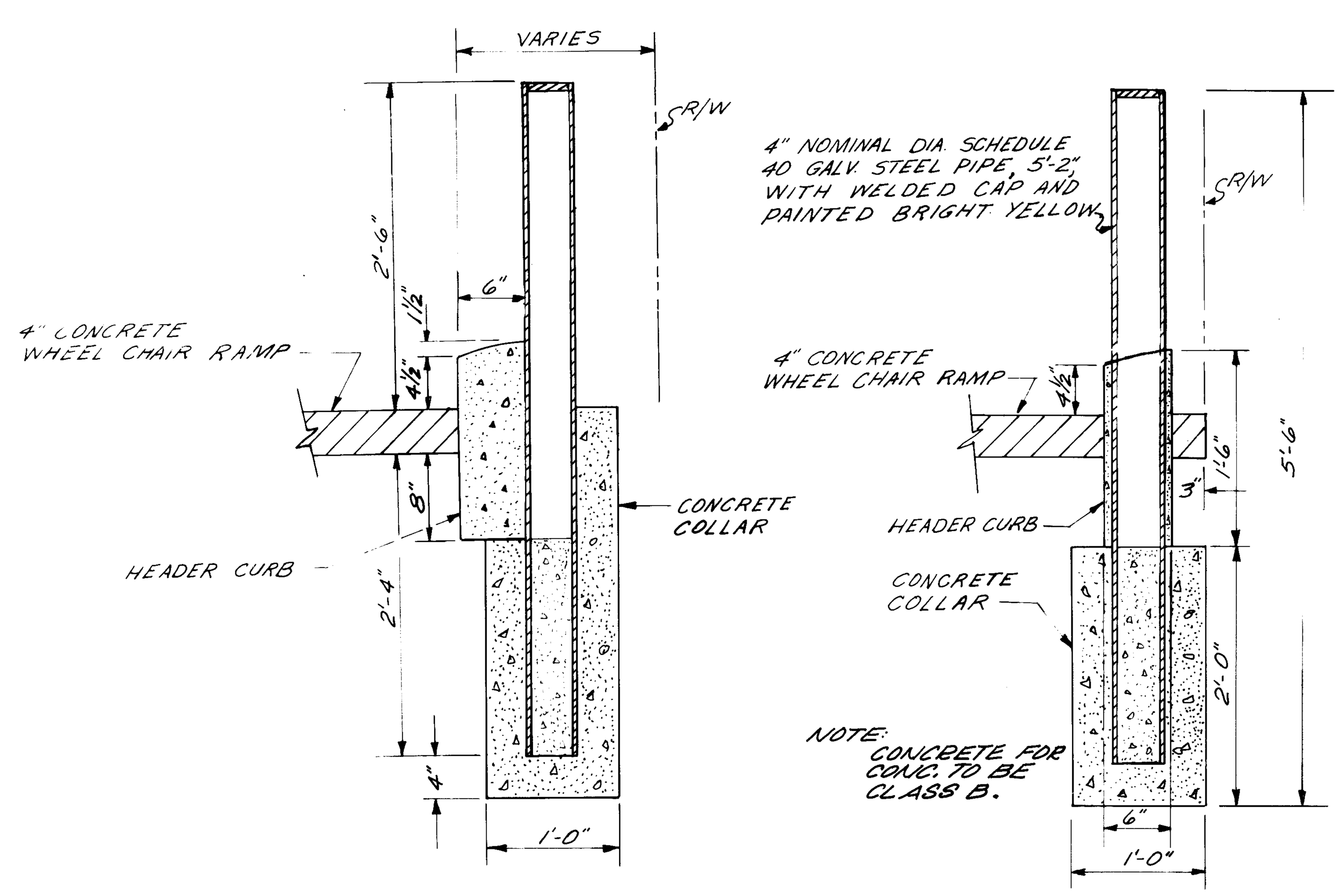
TYPE	INSTALLATION TYPE	A	B
I	UNDERGROUND OR OVERHEAD UP TO 5°	3'-6"	3'
II	OVERHEAD 5° TO 25° ANGLE	5'-6"	5'

NOTE:
CONTRACTOR TO VERIFY WITH PNM ANCHOR BOLT SIZE AND PATTERN.

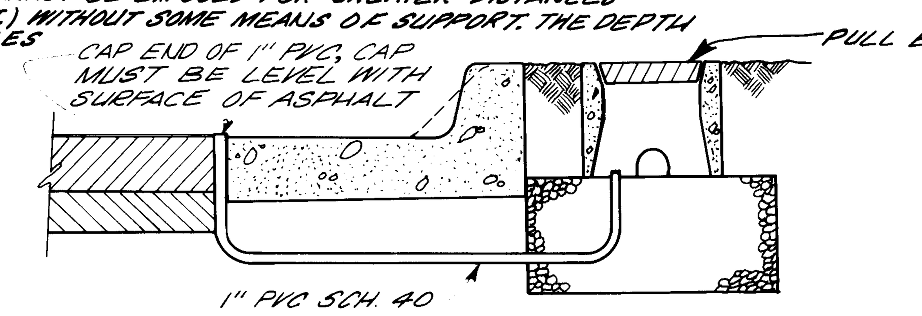
STREET LIGHT FOUNDATION DETAIL



BOLLARD LOCATION PLAN



BOLLARD CONSTRUCTION DETAIL



LOOP DETECTOR CONDUIT DETAIL

UTILITY OWNERS

WATER	CITY OF ALBUQUERQUE
SANITARY SEWER	CITY OF ALBUQUERQUE
STORM SEWER	CITY OF ALBUQUERQUE
GAS	GAS COMPANY OF NEW MEXICO
TELEPHONE	MOUNTAIN BELL TELEPHONE COMPANY
ELECTRIC	PUBLIC SERVICE COMPANY OF NEW MEXICO
CABLE TELEVISION	ALBUQUERQUE CABLE TELEVISION COMPANY

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE '85-'86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO | BY | DATE

REFERENCES
MAP NO | W O NO
EST NO

NO	DATE	REMARKS	BY
4 / 3	6-86 / 5/30/85	As-Built Revisions / NOTES 25 AND 36	W.M.A.

REVISIONS
DESIGN
DESIGNED BY W.L.B. DATE
DRAWN BY G.M./V.S./J.I. DATE
CHECKED BY W.L.B./G.M. DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

26 19600387

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & L.S. STATE OF NEW MEXICO No. 1593 WILLIAM L. MATOTAN
William I. Matotan 1/7/84
WILLIAM I MATOTAN DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

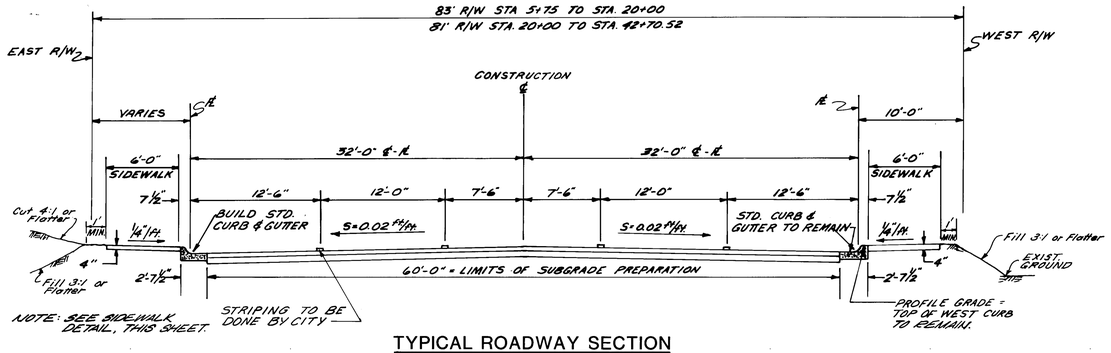
TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.

GENERAL NOTES AND MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Peña	1/14/85
A C E - Design	Y.K.C.	1/21/85	Traffic	[illegible]	1-21-85
~~A.C.E~~ - Hydrology	Don Hogan	1/14/85	Water	R. Peña	1/14/85

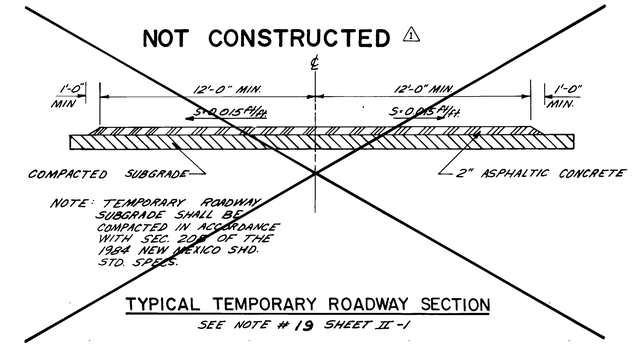
DRAWING NO. 1960 | MAP NO. | SHEET 1-3 OF

.28



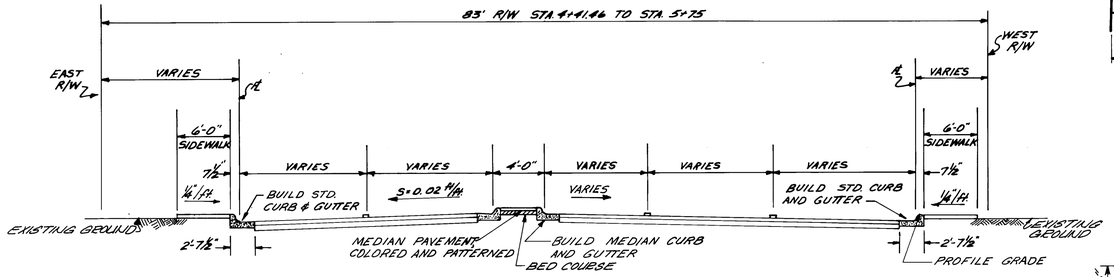
TYPICAL ROADWAY SECTION

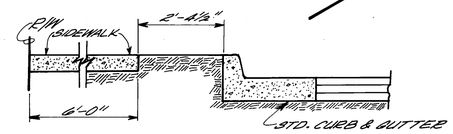
DESIGN SPEED 45 M.P.H.



TYPICAL TEMPORARY ROADWAY SECTION

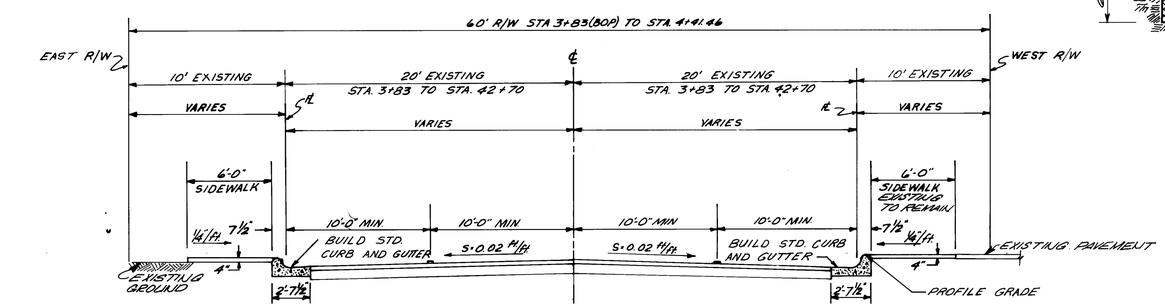
SEE NOTE # 19 SHEET II-1



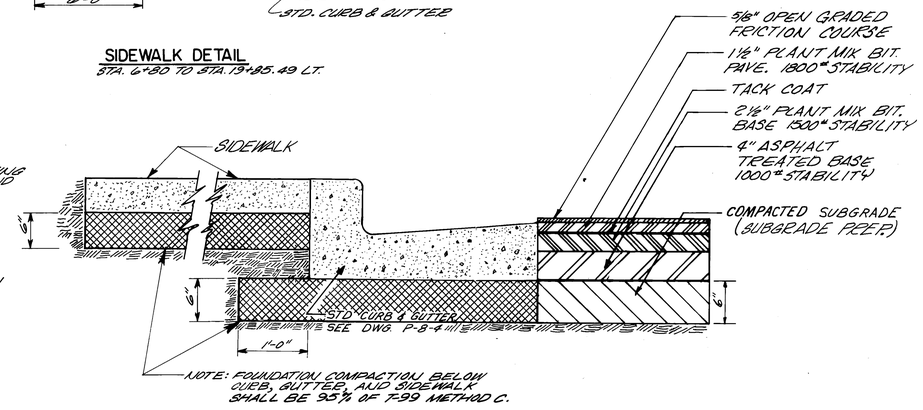


SIDEWALK DETAIL

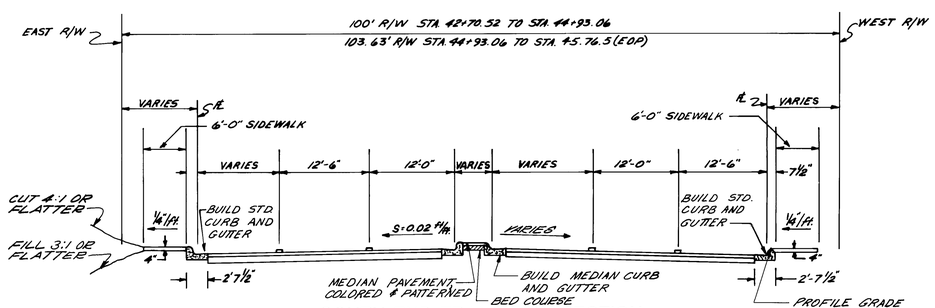
STA. 6+80 TO STA. 19+85.49 LT.



NORTH END TRANSITION SECTIONS



TYPICAL ARTERIAL PAVEMENT SECTION



SOUTH END TRANSITION SECTION

TRAFFIC VOLUME ESTIMATE	
LENGTH (MILES)	0.82
A.D.T. (1983)	8000
A.D.T. (2005)	15000
DHV (2005)	1050
% HVY COMM (1983)	10
% HVY COMM (2005)	10
ADL (20) FLEXIBLE	379

LENGTH OF PROJECT

℄ STATION	TO ℄ STATION	LINEAR FEET	MILES
3+83	47+14	4331	0.820

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RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & LS — STATE OF NEW MEXICO — No. 1393 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN — DATE 12/26/84

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TYPICAL ROADWAY SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E. - Design	K.E. Chen	1/21/85	Traffic	W.A. Sommers	1-21-85
~~A.C.E.~~ - Hydrology	Don Hoge	1/14/85	Water	R. Pena	1/14/85

DRAWING NO. 1960 | MAP NO. | SHEET 1 OF 4

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 8/5/86
INSPECTED & ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	W.O. NO.
EST. NO.	

As-Built Revisions

NO.	DATE	BY	REMARKS
△1	6-86	W.M.A.	

REVISIONS

		DATE
DESIGNED BY	M.L.B.	11/1984
DRAWN BY	G.M./J.S./J.T.	11/1984
CHECKED BY	M.L.B./G.M.	11/1984

SPECIAL PROVISIONS

FOR CONTACTING NEWS MEDIA
FOR MINIMUM WAGE RATES 8-17-84
FOR IMPENDING CONSTRUCTION SIGNS
FOR SUBMISSION OF WEEKLY PAYROLLS 8-20-84
FOR APPRENTICES 4-26-82
FOR MODIFYING SECTION 106 - CONTROL OF MATERIALS 3-28-84
FOR MODIFYING SECTION 106 - CONTROL OF MATERIALS 9-21-84
FOR MODIFYING SECTION 109 - MEASUREMENT AND PAYMENT 8-23-84
FOR MODIFYING SECTION 401 - PLANT MIX BITUMINOUS PAVEMENT 9-14-84
FOR MODIFYING SECTION 401 - PLANT MIX BITUMINOUS PAVEMENT 8-24-84
FOR MODIFYING SECTION 404 - OPEN-GRADED FRICTION COURSE 8-23-84
FOR MODIFYING SECTION 404 - OPEN-GRADED FRICTION COURSE 8-27-84
FOR MODIFYING SECTION 503 - PORTLAND CEMENT CONCRETE 12-10-84

SUMMARY OF QUANTITIES

ITEM NO.	ROADWAY ESTIMATE	ROADWAY FINAL	CONSTRUCTION SIGNING ESTIMATE	CONSTRUCTION SIGNING FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	UNIT	ROADWAY ITEMS
201002	L.S.	L.S.							L.S.	CLEARING & GRUBBING
202001	L.S.	L.S.							L.S.	REMOVAL OF STRUCTURES & OBSTRUCTIONS
202021	18950	18854.61							SQ.YD.	REMOVAL OF EXISTING PAVEMENT 4"
202022	30150	30580.87							SQ.YD.	REMOVAL OF EXISTING SUBGRADE 4"
207001	30150	30580.87							SQ.YD.	SUBGRADE PREPARATION
301007	30150	30473.64							SQ.YD.	PLANT MIX BITUMINOUS TREATED BASE CL II B 2½"
301008	30150	30726.59							SQ.YD.	ASPHALT TREATED BASE 4"
401107	30150	30227.74							SQ.YD.	PLANT MIXED BITUMINOUS PAVEMENT TYPE I GRADING B1½
404002	30150	30238.50							SQ.YD.	OPEN-GRADED FRICTION COURSE
407012	30150	30227.74							SQ.YD.	TACK COAT
501311	~~466~~	473							L.F.	18" REINFORCED CONCRETE PIPE CL III
501325	262	264							L.F.	24" REINFORCED CONCRETE PIPE CL III
501337	48	147							L.F.	36" REINFORCED CONCRETE PIPE CL III
501343	187	192							L.F.	42" REINFORCED CONCRETE PIPE CL III
501349	265	267							L.F.	48" REINFORCED CONCRETE PIPE CL III
608005	4384	4172.91							SQ.YD.	CONCRETE SIDEWALK, 4"
608020	682	701.12							SQ.YD.	DRIVE PAD, 6"
608032	184	217.55							SQ.YD.	MEDIAN PAVEMENT, 4" (COLORED AND PATTERNED)
609020	894	1.143.00							L.F.	MEDIAN CURB AND GUTTER (CITY)
609021	~~4737~~ 4549	5086.70							L.F.	STANDARD CURB AND GUTTER (CITY)
609073	72	72							L.F.	CONCRETE VALLEY GUTTER
623001	3	3							EA.	CATCH BASIN DOUBLE "C"
623072	11	12							EA.	CATCH BASIN SINGLE "C"
623077	2	2							EA.	CATCH BASIN DOUBLE "D"
623078	1	1							EA.	CATCH BASIN QUADRUPLE "D"
660075	828 ~~785~~	737							L.F.	TRENCH & BACKFILL 18"-36" (8-10 FT. DEPTH)
660078	547 ~~481~~	606							L.F.	TRENCH & BACKFILL 36"-48" (8-10 FT. DEPTH)
662040	2	2							EA.	4' DIA. MANHOLE TYPE "E" (6-10 FT. DEPTH)
662061	3	3							EA.	6' DIA. MANHOLE TYPE "E" (6-10 FT. DEPTH)
664075	11	9							EA.	ADJUST WATER VALVE BOX TO GRADE
664080	13	13							EA.	ADJUST SEWER MANHOLE TO GRADE
664090	2	2							EA.	RELOCATE EXISTING WATER METER & BOX
664095	5	4							EA.	RELOCATE EXISTING FIRE HYDRANT
708008	6	7							EA.	PEDESTAL FOUNDATION, TYPE I
708020	3	3							EA.	MASTARM FOUNDATION, TYPE II
708028	1	1							EA.	CONTROLLER FOUNDATION, TYPE I
709030	1865	2315							L.F.	RIGID ELECTRICAL CONDUIT 2"
710010	11	13							EA.	ELECTRICAL PULL BOX
765029	1	1							EA.	8' DIA. MANHOLE TYPE C (6-10 FT. DEPTH)
708204	18	16							EA.	STREET LIGHT FOUNDATION
702000			~~1.0 L.S.~~	*100%					*L.S. ~~SQ.FT.~~	CONSTRUCTION SIGNING
702003			~~8 L.F.~~						~~L.F.~~	STEEL POSTS & BASE POSTS FOR CONSTRUCTION SIGNING
702015			~~2 EA.~~						~~EA.~~	BARRICADE, TYPE III - 8'
702035			~~10 EA.~~						~~EA.~~	VERTICAL PANEL, BACK TO BACK TYPE
702045			~~2 EA.~~						~~EA.~~	PORTABLE SIGN SUPPORT
702050			~~3.0 EA.~~						~~EA.~~	CHANNELIZING DEVICE - TYPE "B"

FOR INFORMATION OF THE CONTRACTOR ONLY

* Change Order No. 1

26 19600587

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 85-86
INSPECTOR DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.

REVISIONS

DESIGN
DESIGNED BY W.L.B. DATE 11/84
DRAWN BY G.M./L.B./L.T. DATE 11/84
CHECKED BY W.L.B./G.M. DATE 11/84

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
SUMMARY OF QUANTITIES & SPECIAL PROVISIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Perez	1/14/85
A.C.E.-Design		1/21/85	Traffic		1-21-85
~~A.C.E.~~-Hydrology		1/14/85	Water	R. Perez	1/14/85

DRAWING NO. 1960 MAP NO. SHEET 2-1 OF

0726002

27

K+E

CONCRETE CURB AND GUTTER 8" STANDARD

LEFT		
STATION TO STATION		LENGTH L.F.
3+83	6+02	201'
6+50	12+00	467'
12+00	20+10	740'
20+50	25+00	479'
25+00	32+06	671'
32+76	38+00	539'
38+00	45+73	773'
TOTAL LEFT		3870'

RIGHT		
STATION TO STATION		LENGTH L.F.
4+23	5+83	92'
6+67	6+92	39'
12+60	12+85	39'
13+17	13+42	39'
19+10	19+35	39'
19+65	19+92	39'
25+60	26+85	39'
26+17	26+42	39'
32+10	32+35	39'
32+75	33+08	39'
40+70	45+77	331'
TOTAL RIGHT		774'

SANTA CLARA		
STATION TO STATION		LENGTH L.F.
0+62	2+20	93'
TOTAL SANTA CLARA		93'
YALE BLVD. LEFT		3870'
YALE BLVD. RIGHT		774'
SANTA CLARA		93'
TOTAL		4737 L.F.

CONCRETE SIDEWALK 4"

LEFT		
STATION TO STATION		LENGTH L.F.
3+83	6+02	199'
6+50	12+00	467'
12+00	20+15	740'
20+51	25+00	464'
25+00	32+06	685'
32+46	38+00	569'
38+00	45+73	773'
TOTAL LEFT		3897'

RIGHT		
STATION TO STATION		LENGTH L.F.
4+23	5+83	92'
6+67	11+22	479'
12+59	12+84	39'
13+19	17+05	400'
17+75	19+34	173'
19+63	19+88	39'
20+28	20+62	34'
21+00	25+00	365'
25+00	25+85	99'
26+17	27+69	176'
32+08	32+33	39'
32+69	35+75	320'
40+70	45+77	331'
TOTAL RIGHT		2586'

SANTA CLARA		
STATION TO STATION		LENGTH L.F.
0+62	2+20	93'
TOTAL SANTA CLARA		93'
YALE BLVD. LEFT		3897'
YALE BLVD. RIGHT		2586'
SANTA CLARA		93'
TOTAL L.F.		6576'
(6576 L.F. X 6 L.F.)/9 =		4384 Sq. Yd.

WATER VALVE ADJUSTMENT

LOCATION STATION	RT.	LT.
4+05		1
4+06	1	
6+53	1	
6+58	1	
7+19	1	
19+79	1	
26+29	1	
31+92		1
32+15		1
32+89		1
32+40.4	1	
TOTAL	7	4

WATER METER ADJUSTMENT

STATION	NUMBER
7+15 RT.	1
24+78 RT.	1
TOTAL	2

FIRE HYDRANTS

STATION	RELOCATE
5+64 RT.	1
12+73 RT.	1
19+23 RT.	1
26+20 RT.	1
32+16 RT.	1
TOTAL	5

STORM DRAIN MANHOLES

LOCATION		TYPE	HEIGHT	DIAMETER
6+28		E	10'	4'
8+90		E	9'	4'
20+67	LT.	C	10'	8'
22+48	LT.	E	10	6'
35+87	LT.	E	10'	6'
42+06	LT.	E	10'	6'
TOTAL		4 6		

STORM DRAIN LINE

LOCATION STATION TO STATION		24" R.C.P. CLASS III	42" R.C.P. CLASS III	48" R.C.P. CLASS III
6+28	8+90	24 ~~262~~		
19+61	20+67	20+65 ~~20+60~~		97
20+65 ~~20+60~~ RT.	20+67 LT.			~~67~~ 20'
20+67 CT.	22+48 LT.		170+165	
22+48 CT.	22+50 LT.		22	
35+18	35+86			~~45~~ 95
	32" RCP CL. III			
41+30 40	~~48~~ 147			~~42~~ 0
TOTAL	~~48~~ 147	~~262~~ 264	~~187~~ 192	~~265~~ 267

CATCH BASIN

LOCATION	TYPE	DEPTH*	18" RCP	TREN DEP
YALE BLVD.				
5+77 LT.	"C"	7.4	~~65'~~ 56'	9.5'
6+85 LT.	"C"	7.0	~~45'~~ 70'	8'
9+10 RT.	"C"	7.0	~~30'~~ 40'	8'
9+30 LT.	"C"	7.0	~~60'~~ 55'	8'
20+30 RT.	"C"	7.0	~~30'~~ 12'	8'
20+89 LT.	"C"	7.0	~~30'~~ 34'	8'
32+76 LT.	"C"	7.0	~~45'~~ 42'	8'
35+18 ~~35+30~~ LT	"C"	7.0	~~24'~~ 50'	8'
41+30 ~~41+40~~ LT.	"C"	7.0	~~18'~~ 32'	8'
32+07 LT.	"d/C"	4.7'	~~55'~~ 30'	9'
32+45 LT.	"d/C"	4.8'	40'	9'
41+40 RT.	"d/C"	4.5'	0'	0'
22+50 LT	"d/D"	5.5	—	—
41+30 LT	"d/D"	5.0	—	—
35+86 ~~35+75~~ LT	Quadruple "D"	6.5	—	—
SANTA CLARA AVE.				
0+65 RT.	"C"	5'	6'	6'
1+69 RT.	"C"	5'	6'	8'
TOTAL 18			~~466~~ 473	

* INVERT DEPTH FROM TOP OF CURB

TRENCHING STORM DRAIN

LOCATION STATION TO STATION		TRENCH 8'-10' 18"-36"	36"-48"
6+28	8+90	~~262~~ 204	
19+61	20+67		100
20+69	20+67		61
20+67 CT.	22+48 CT.		165
22+48 CT.	22+50 CT.		25
35+18		50	~~45~~ 97
41+30		~~50~~ 32	~~45~~ 147
TOTAL		~~312~~' 737'	~~467~~' 606'

CONCRETE DRIVEPADS 6"

LEFT STATION	WIDTH	LENGTH	SQ. YD.	RIGHT STATION	WIDTH	LENGTH	SQ. YD.
4+28	8.6	35	33.4	4+42	9.3	30	31
7+10	8.4	35	32.7	4+91	9.3	25	26
7+67	8.4	35	32.7	5+35	9.3	30	31
8+65	8.4	30	28	20+10	9.3	35	36.2
13+27	8.4	30	28	20+79	9.3	35	36.2
19+18	8.4	30	28	41+00	15.0	30	60
19+64	8.4	30	28	41+83	9	30	30
29+78	8.4	36	33.6	43+75	14	30	46.7
				44+17	9	30	30
				45+24	8	35	31
				45+62	8	20	17.8
TOTAL LEFT			244.4 Sq. Yd.	TOTAL RIGHT			376 Sq. Yd.

SANTA CLARA							
				1+17	8.6	35	33.4
				1+89	8.6	30	28.6
				TOTAL RIGHT			62.0 Sq. Yd.

YALE BLVD. TOTAL LEFT	244 Sq. Yd.
YALE BLVD. TOTAL RIGHT	376 Sq. Yd.
SANTA CLARA TOTAL RIGHT	62 Sq. Yd.
TOTAL	682 Sq. Yd.

CONC. MEDIAN PAVEMENT

STA. TO STA.		SQ YD.
4+85	5+75	40
6+94	8+92	45
43+35	45+77.83	99
TOTAL SQ. YD.		184

CONC. VALLEY GUTTER

STA. TO STA.		LENGTH
20+12	20+49	36'
32+09	32+45	36'
TOTAL L.F.		72'

MEDIAN CURB & GUTTER

STA. TO STA.		LENGTH
4+85	5+75	180'
6+94	8+92	415'
43+35	45+77.83	299'
TOTAL L.F.		894'

ADJ. MANHOLES TO GR.

LOCATION	NO.
4+70	1
6+28	1
8+90	1
19+61	1
20+67	1
32+37	1
32+59	1
35+18	1
41+23	1
41+27	1
43+16	1
43+71	1
45+10	1
TOTAL	13 ea.

BOLLARD SCHEDULE

LOCATION	NO.
STADIUM - YALE INST.	8
YALE - SOUTHERN INST.	4
YALE - KATHYRN WEST INST.	4
YALE - KATHYRN EAST INST.	4
YALE - ANDERSON INST.	4
YALE - ROSS WEST INST.	4
YALE - ROSS EAST INST.	4
TOTAL	32 ea.

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RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 8/5/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-5-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.
2	2/11/85	Revise Catch Basin Depths	

REVISIONS

DESIGN
DESIGNED BY M.L.B. DATE 1/18/84
DRAWN BY G.M./L.G./L.T. DATE 1/18/84
CHECKED BY M.L.B./G.M. DATE 1/18/84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & L.S. STATE OF NEW MEXICO No. 1593 WILLIAM L. MATOTAN
WILLIAM L MATOTAN 12/16/84 DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
MISCELLANEOUS QUANTITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1-16-85
A.C.E. - Design		1/16/85	Traffic		1-21-85
~~A.C.E.~~ - Hydrology		1/14/85	Water		1-16-85

DRAWING NO. 1960 MAP NO. SHEET 2-2 OF

07260025

NOTES:

MATERIAL FOR THE PRODUCTION OF SURFACING AGGREGATES FOR THIS PROJECT MAY BE OBTAINED FROM ANY SOURCE AFTER SUCH MATERIAL HAS BEEN APPROVED ON THE BASIS OF TESTS PERFORMED IN THE APPROVED LABORATORY. THIS MUST BE DONE BEFORE ANY MATERIAL IS PRODUCED FOR THIS PROJECT.

HYDRATED LIME MAY BE REQUIRED TO MEET DESIGN REQUIREMENTS FOR THE PLANT MIX BITUMINOUS PAVEMENT. THE LIME, IF REQUIRED, IS TO BE ADDED IN ACCORDANCE WITH THE SPECIFICATIONS.

THE LIQUID LIMIT AND SAND EQUIVALENT OF THE ASPHALT CONCRETE AGGREGATE WILL BE DETERMINED FROM REPRESENTATIVE SAMPLES TAKEN AFTER THE AGGREGATE MATERIALS, INCLUDING LIME, IF REQUIRED, HAVE BEEN BLENDED AND PRIOR TO MIXING WITH BITUMINOUS MATERIAL.

HYDRATED LIME SHALL BE REQUIRED TO MEET DESIGN REQUIREMENTS FOR OPEN-GRADED FRICTION COURSE. IT SHALL BE ADDED IN ACCORDANCE WITH THE SPECIFICATIONS.

REQUIREMENTS FOR TREATED & UNTREATED SURFACING

ADDITIVES REQUIRED:
ESTIMATE FOR PRIME COAT: USE____ GALS.____ PER SQ. YARD
ESTIMATE FOR TACK COAT: USE 0.1 GALS.____ PER SQ. YARD

% (FOR EST. PURP.)				
	PLANT MIX BITUM. PAVEMENT	6 %	60-70/AC-20	BY WGT. OF TOTAL MIX
	P. MIX BITUM. BASE COURSE	6 %	60-70/AC-20	BY WGT. OF TOTAL MIX
	ASPHALT TREATED BASE CRSE	5 %	60-70/AC-20	BY WGT. OF TOTAL MIX
	OPEN GRADED FRICTION CRSE	6.5 %	AR-100/AC-10	BY WGT. OF TOTAL MIX

CEMENT TREAT.____ CLASS____ EST. USING____ % TYPE____ CEMENT BY WEIGHT

SURFACE TREATMENT:

1ST COURSE____ GALS.____ SQ. YD.____ LBS. AGGREGATE PER SQ. YARD
2ND COURSE____ GALS.____ SQ. YD.____ LBS. AGGREGATE PER SQ. YARD

SPECIFICATIONS FOR SURFACING AGGREGATES (% PASSING)

SIEVE SIZE	ASPHALT TREATED BASE	PLANT MIX BITUMINOUS BASE	PLANT MIX BITUMINOUS PAVEMENT	OPEN GRADED FRICTION COURSE
		II - B	I - B	
1"	100	100		
3/4"	70 - 100	85 - 100	100	
5/8"				
1/2"	55 - 85		80 - 100	100
3/8"			70 - 90	90 - 100
NO. 4	30 - 55	40 - 70	50 - 65	25 - 55
NO. 10		30 - 65	32 - 45	0 - 10
NO. 40	10 - 25		10 - 22	0 - 8
NO. 200	3 - 8	4 - 12	3 - 8	0 - 4
L.L.				
P.I.				
WEAR	50 OR LESS	40 OR LESS	40 OR LESS	40 OR LESS
SOUND LOSS %	18 OR LESS	15 OR LESS	15 OR LESS	8 OR LESS
FRACT. FACES %	50 OR MORE	50 OR MORE	75 OR MORE	75 OR MORE

UNIT WEIGHT OF UNTREATED SURFACING____ = ____ LBS. PER CU. YARD
UNIT WEIGHT OF PLANT MIX. BITUM. PAVEMENT____ = 3900 LBS. PER CU. YARD
UNIT WGT. OF PLANT MIX BITUM. TREAT. BASE COURSE____ = 3900 LBS. PER CU. YARD
UNIT WGT. OF ASPHALT TREATED BASE COURSE____ = 3800 LBS. PER CU. YARD
UNIT WGT. OF OPEN GRADED FRICTION COURSE____ = 3600 LBS. PER CU. YARD

DEVELOPMENT RECOMMENDATIONS FOR THE PRODUCTION OF SURFACING MATERIALS BASED ON:
1 - SAMPLES AND LOGS FROM THE INDICATED TEST HOLES.
2 - STRIPPING OVERBURDEN TO DEPTHS RECOMMENDED.
3 - WORKING A VERTICAL FACE, EXPOSING THE APPROVED PRODUCTION DEPTH IN ONE LIFT AFTER STRIPPING AS RECOMMENDED.
4 - IF WASTE IS NECESSARY TO PRODUCE SPECIFICATION SURFACING MATERIAL, IT SHALL BE DONE BEFORE CRUSHING UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

CONCRETE AGGREGATES MAY BE OBTAINED FROM APPROVED COMMERCIAL SOURCES OR FROM ANY OTHER SOURCE WHEN TESTED AND APPROVED BY THE APPROVED LABORATORY.
MIXING WATER FOR PORTLAND CEMENT, CEMENT TREATED BASE, ETC., MAY BE OBTAINED FROM ANY SOURCE WHEN TESTED AND APPROVED BY THE APPROVED LABORATORY.

26 19600787

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 05/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY N.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. EST NO. W.O. NO.

NO.	DATE	REVISIONS	BY
△	6-86	As-Built Revisions	N.M.A.

		DATE
DESIGNED BY	W.L.B.	11/84
DRAWN BY	G.M./W.S./L.T.	11/84
CHECKED BY	W.L.B./G.M.	11/84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & LS STATE OF NEW MEXICO No. 1593 WILLIAM L. MATOTAN
William L. Matotan 12/26/85
WILLIAM L MATOTAN DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

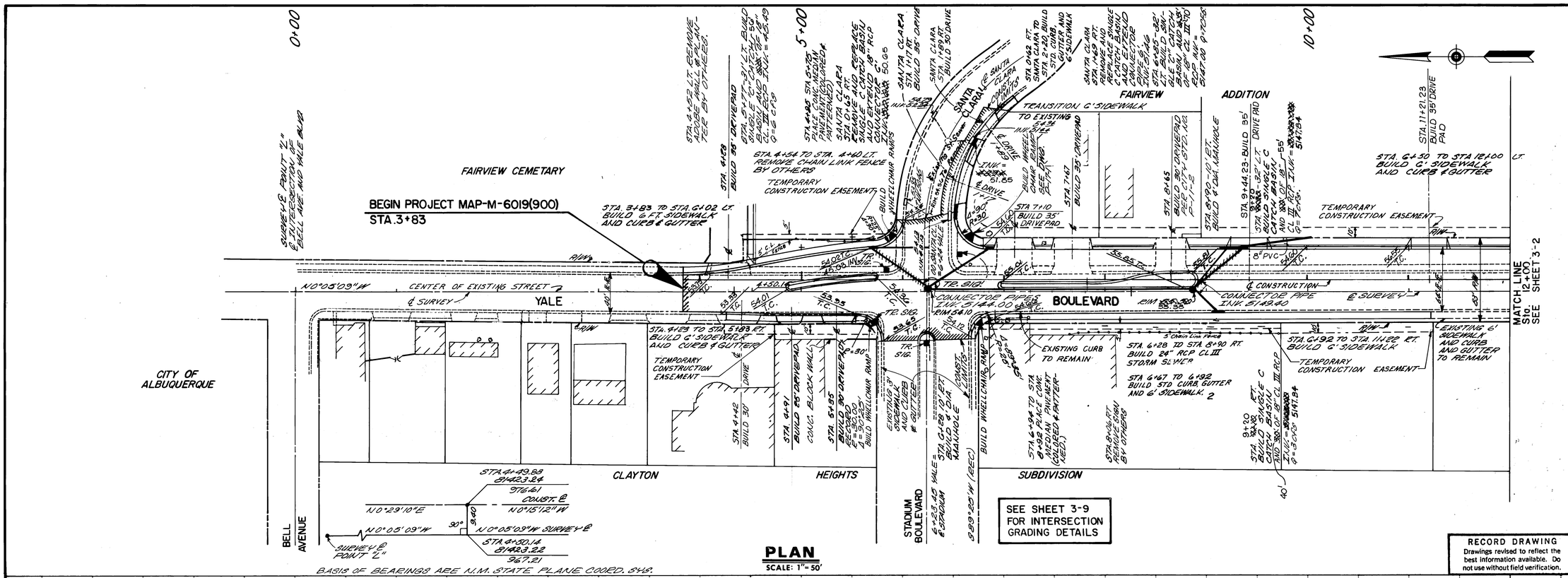
CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
PIT SHEET

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/86
A C E - Design	G.L. Wilson	1/21/85	Traffic	N.A. Gatt	1-21-85
~~A C E~~ - Hydrology	Don Hogan	1/14/85	Water	R. Pena	1/14/85

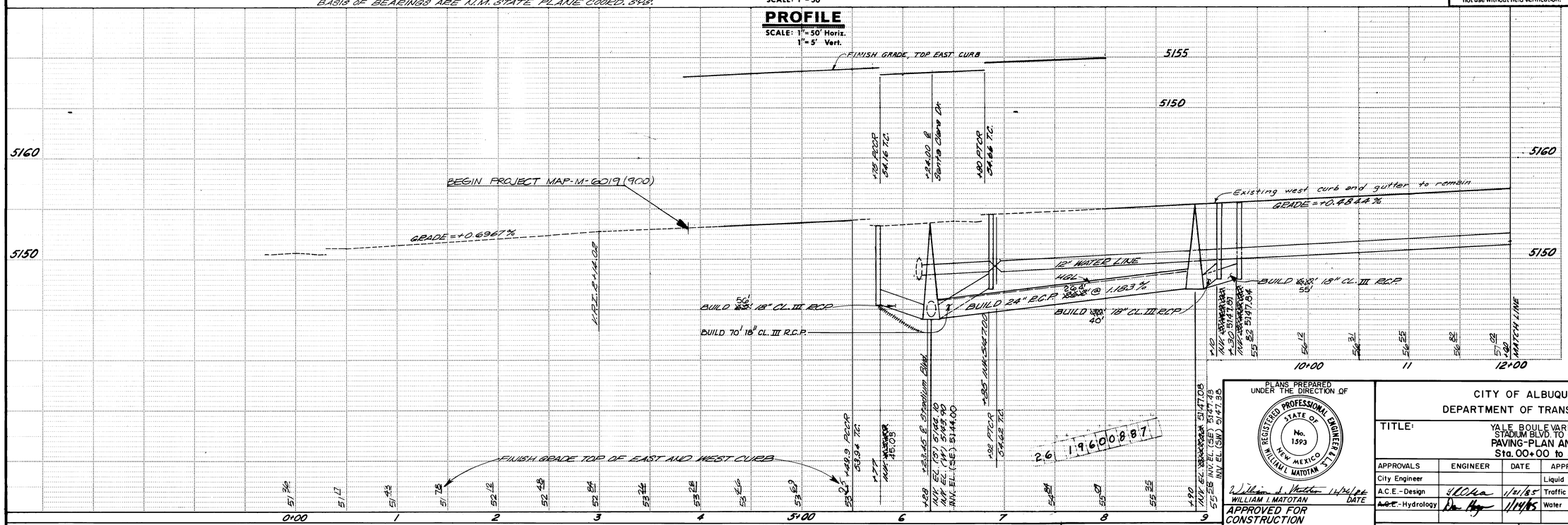
DRAWING NO. 1960 MAP NO. SHEET 2-3 OF

27



PLAN
SCALE: 1" = 50'

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.



PROFILE
SCALE: 1" = 50' Horiz.
1" = 5' Vert.

SURVEY INFORMATION			
FIELD NOTES			
NO.	BY	DATE	

BENCH MARKS	
NO 1-L 16 NW CURB RETURN AT	
CONTRACTOR Loomis Construction	
WORK STAKED by City of Albuq.	DATE 8/5/86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY W.M.A.	DATE 6-86
RECORDED BY	DATE
NO.	

AS BUILT INFORMATION

REFERENCES: MAP NO. / EST. NO. / W.O. NO.

NO.	DATE	As-Built Revisions REMARKS	BY
1	6-86		W.M.A.

REVISIONS

DESIGNED BY	W.L.B.	DATE 11/84
DRAWN BY	G.M./V.S./L.T.	DATE 11/84
CHECKED BY	W.L.B./G.M.	DATE 11/84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & LS — STATE OF NEW MEXICO — No. 1393 — WILLIAM L. MATOTAN
WILLIAM I. MATOTAN 11/26/86 DATE

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

WILLIAM MATOTAN & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

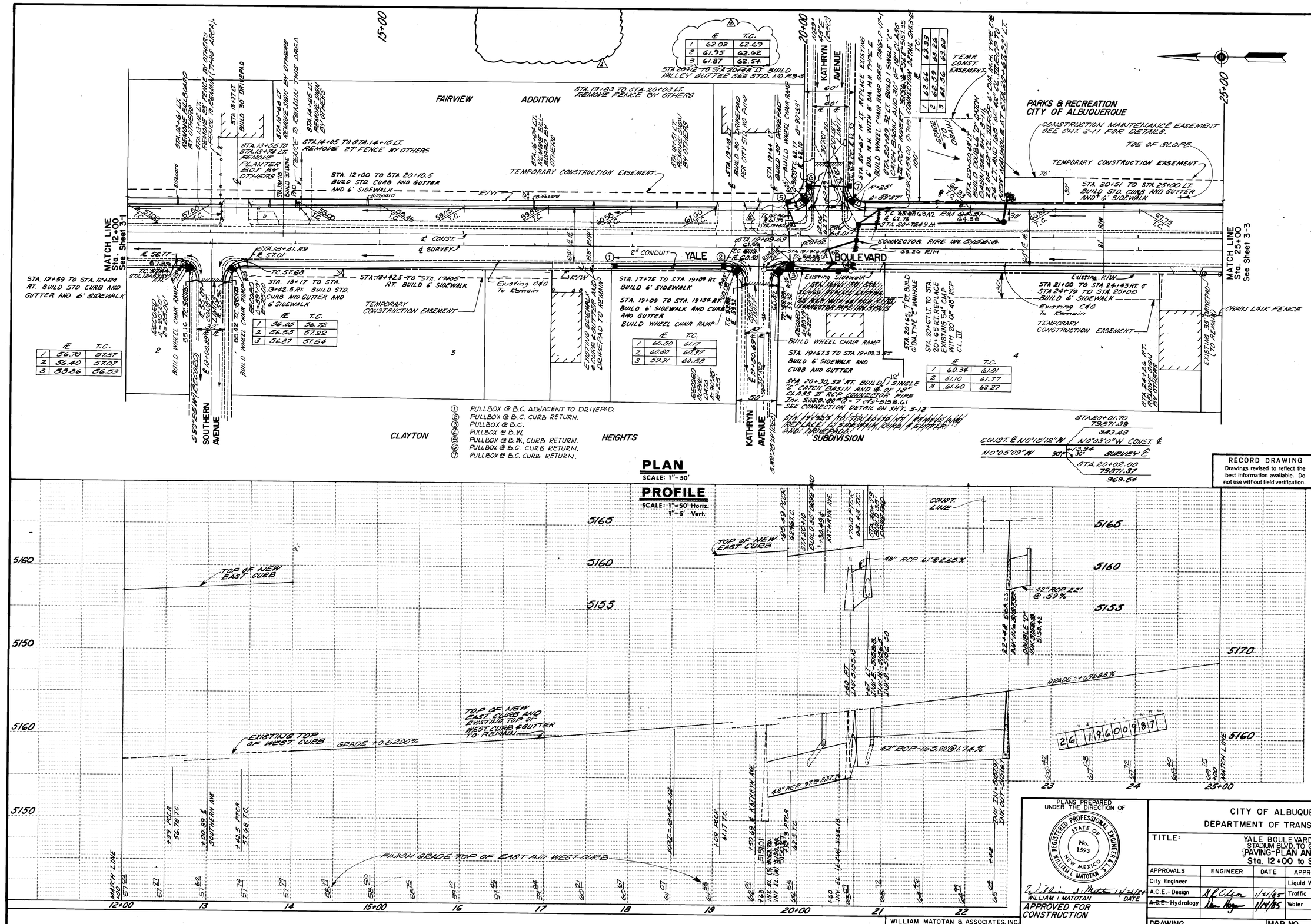
CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
PAVING-PLAN AND PROFILE
Sta. 00+00 to Sta. 12+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/14/85
A.C.E.-Design		11/21/85	Traffic		1-21-85
A.C.E.-Hydrology		11/14/85	Water		11/14/85

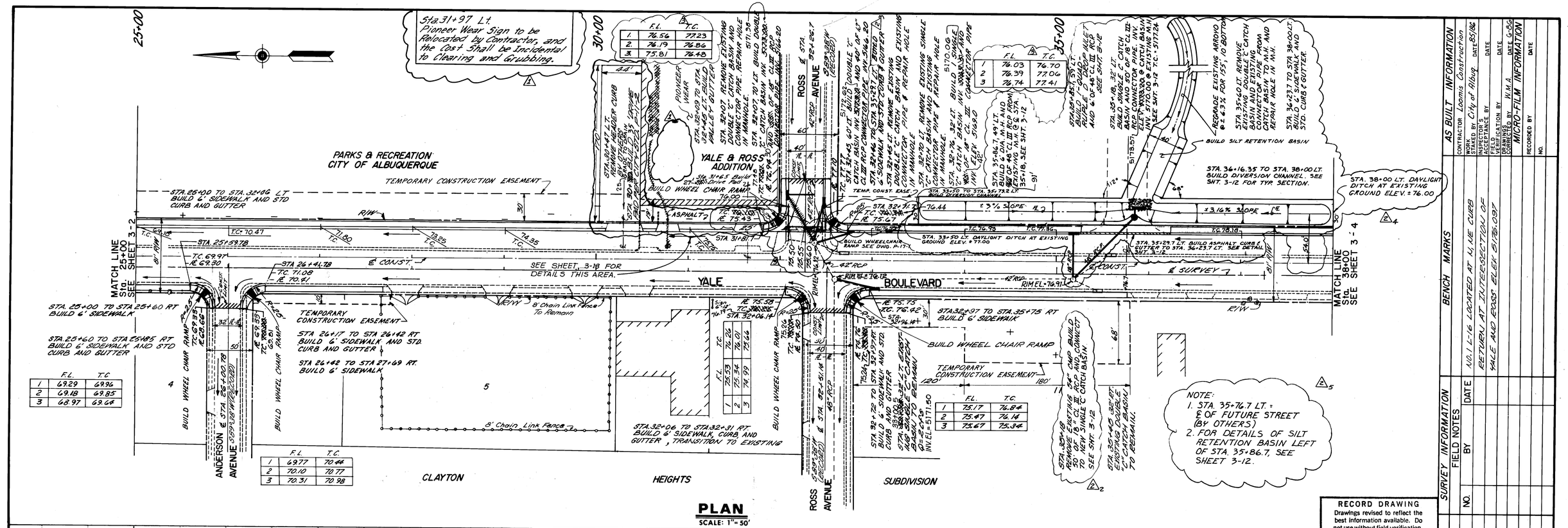
DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 3-1 OF

21

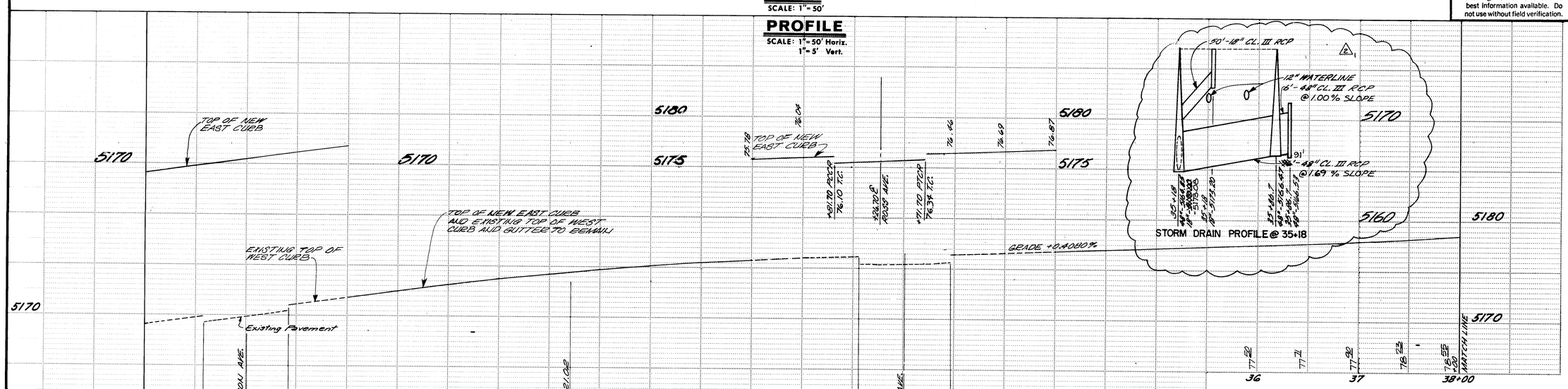

PLAN
SCALE: 1"=50'
PROFILE
SCALE: 1"=50' Horiz.
1"=5' Vert.
FAIRVIEW ADDITION
CLAYTON HEIGHTS SUBDIVISION
YALE BOULEVARD
KATHRYN AVENUE
SOUTHERN AVENUE
PARKS & RECREATION CITY OF ALBUQUERQUE
MATCH LINE Sta. 12+00 See Sheet 3-1
MATCH LINE Sta. 25+00 See Sheet 3-3
TEMPORARY CONSTRUCTION EASEMENT
CONSTRUCTION MAINTENANCE EASEMENT SEE SHT. 3-11 FOR DETAILS.
TOE OF SLOPE
STA. 12+00 TO STA. 20+10.5 BUILD STD. CURB AND GUTTER AND 6' SIDEWALK
STA. 20+51 TO STA. 25+00 LT. BUILD STD. CURB AND GUTTER AND 6' SIDEWALK
STA. 12+59 TO STA. 12+84 RT. BUILD STD CURB AND GUTTER AND 6' SIDEWALK
STA. 17+75 TO STA. 19+09 RT. BUILD 6' SIDEWALK
STA. 19+09 TO STA. 19+36 RT. BUILD 6' SIDEWALK AND CURB AND GUTTER
BUILD WHEEL CHAIR RAMP
STA. 19+67.3 TO STA. 19+92.3 RT. BUILD 6' SIDEWALK AND CURB AND GUTTER
STA. 21+00 TO STA. 24+43 RT. & STA. 24+79 TO STA. 25+00 BUILD 6' SIDEWALK
Existing C&G To Remain
Existing R/W
CHAIN LINK FENCE
① PULLBOX @ B.C. ADJACENT TO DRIVEPAD.
② PULLBOX @ B.C. CURB RETURN.
③ PULLBOX @ B.C.
④ PULLBOX @ B.W.
⑤ PULLBOX @ B.W., CURB RETURN.
⑥ PULLBOX @ B.C. CURB RETURN.
⑦ PULLBOX @ B.C. CURB RETURN.
TOP OF NEW EAST CURB
TOP OF NEW EAST CURB AND EXISTING TOP OF WEST CURB & GUTTER TO REMAIN
EXISTING TOP OF WEST CURB
GRADE +0.5200%
GRADE =+1.36.83%
FINISH GRADE TOP OF EAST AND WEST CURB
42" RCP-165.00@1.74%
48" RCP 61'@2.65%
42" RCP 22' @ .59%
48" RCP 97'@2.37%
MATCH LINE
SOUTHERN AVENUE
KATHRYN AVE
RECORD 26 1960 0987
RECORD CURVE DATA
RECORD PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & L.S. STATE OF NEW MEXICO No. 1393 WILLIAM I. MATOTAN
WILLIAM I. MATOTAN DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE
WILLIAM MATOTAN & ASSOCIATES, INC. ALBUQUERQUE, NEW MEXICO
RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.
AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK DONE BY City of Albuq. DATE 8/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
BENCH MARKS
NO. 2-L16 E NE CURB RETURN AT INTERSECTION OF YALE & KATHRYN
ELEV. 5162.66
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
REFERENCES
MAP NO. W.M.A.
EST. NO. P.R.A.
W.O. NO.
BY
REMARKS
REVISIONS
NO. DATE
6-86 As-Built Revisions W.M.A.
7-29-85 Revise Kathryn Intersection Grades P.R.A.
2-5-85 Remove Pioneer Water Sign Note W.L.B.
DESIGN
DESIGNED BY W.L.B. DATE 1/1/84
DRAWN BY G.M./L.S./V.L.T. DATE 1/1/84
CHECKED BY W.L.B./G.M. DATE 1/1/84
CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION
TITLE: YALE BOULEVARD WIDENING STADIUM BLVD. TO GIBSON BLVD. PAVING-PLAN AND PROFILE Sta. 12+00 to Sta. 25+00
APPROVALS ENGINEER DATE APPROVALS ENGINEER DATE
City Engineer
Liquid Waste 1/14/85
A.C.E.-Design 1/21/85 Traffic 1-21-85
A.C.E.-Hydrology 1/14/85 Water 1/14/85
DRAWING NO. 1960
MAP NO. L-15 & L-16
SHEET 3-2 OF

0720003

21



PLAN
SCALE: 1"=50'



PROFILE
SCALE: 1"=50' Horiz.
1"=5' Vert.

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

AS BUILT INFORMATION	
CONTRACTOR	Loomis Construction
WORK WORKED BY	City of Albuq. DATE 85/86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	W.M.A. DATE G-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS		
NO.	DATE	
1	10/1/L-16	LOCATED AT N.W. CURB RETURN AT INTERSECTION OF YALE AND ROSS BLVD.

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

REFERENCES		
W.M.A.	MAP NO.	W.O. NO.
R.K.A.	EST. NO.	
S.A.M.		

NO.	DATE	REVISIONS	BY
1	2-5-85	Revise "Pioneer Wear" Sign & Drop Pad Meter	
2	4-24-85	Revise Storm Sewer Location	
3	7-29-85	Revise Ross Intersection Grades	
4	G-86	As-Built Revisions	

REMARKS

DESIGNED BY	M.L.B.	DATE 11/84
DRAWN BY	G.M./C.B./L.L.	DATE 11/84
CHECKED BY	M.L.B./G.M.	DATE 11/84

PLANS PREPARED UNDER THE DIRECTOR OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1393 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

WILLIAM MATOTAN & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

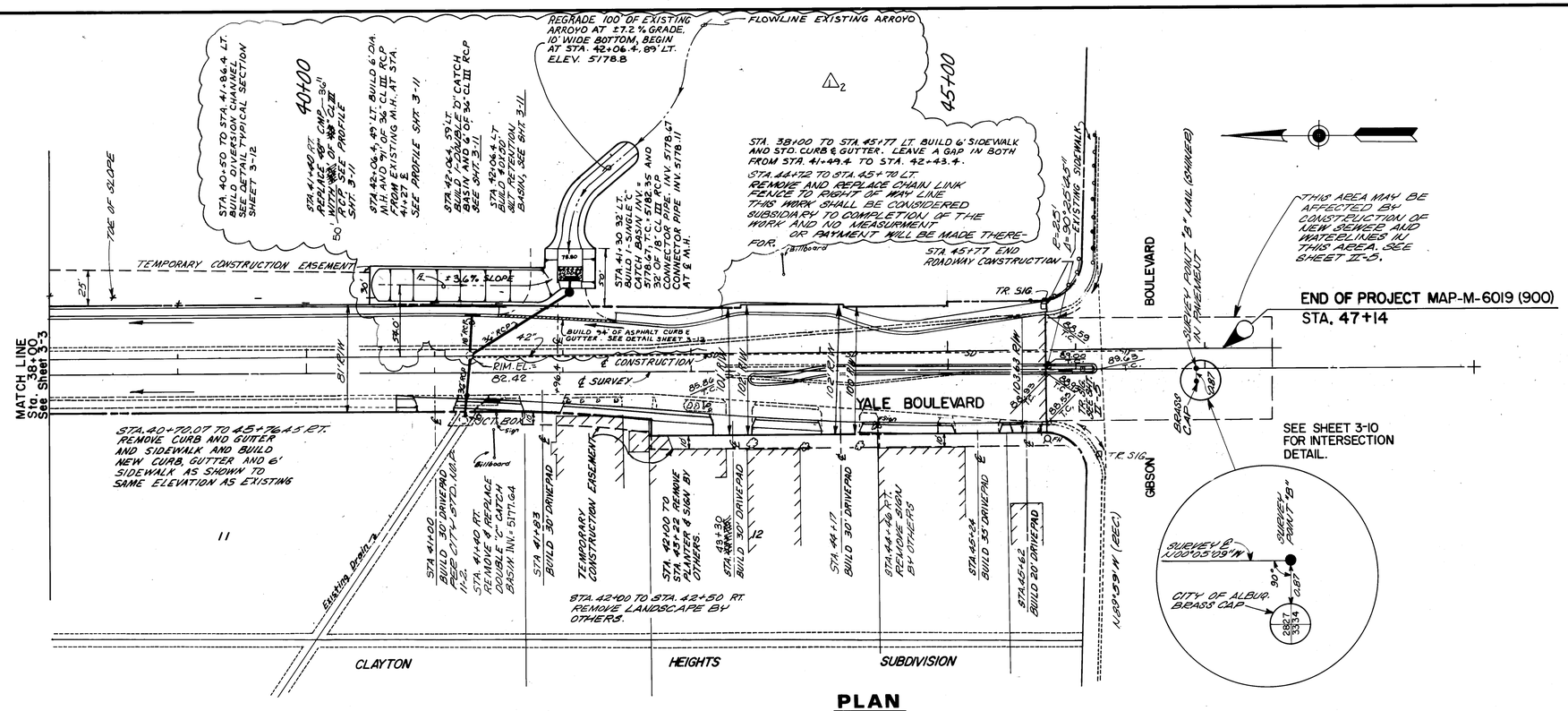
TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
PAVING-PLAN AND PROFILE
Sta. 25+00 to Sta. 38+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/14/85
A.C.E.-Design		1/21/85	Traffic		1-21-85
A.C.E.-Hydrology		1/14/85	Water		1/14/85

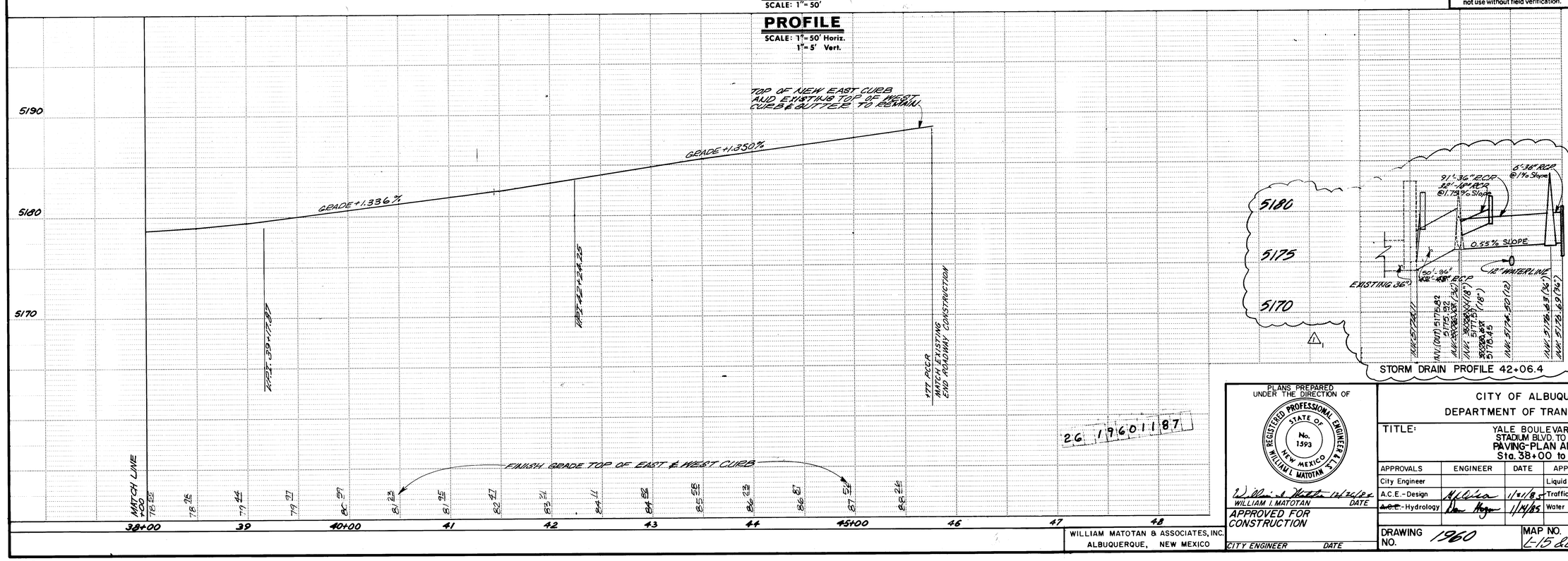
DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 3-3 OF

26 | 1960 | 1087

21



PLAN
SCALE: 1" = 50'



RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

26 19601187

WILLIAM MATOTAN & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1393 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
PAVING-PLAN AND PROFILE
Sta. 38+00 to Sta. 50+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E.-Design	[illegible]	1/21/85	Traffic	R.A. Pena	1-21-85
A.C.E.-Hydrology	[illegible]	1/14/85	Water	R. Pena	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 3-4 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 85/06
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE G-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
NO. 1-M16 LOCATED IN MIDDLE OF INTERSECTION OF YALE AND GIBSON
ELEV. 5190.03

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

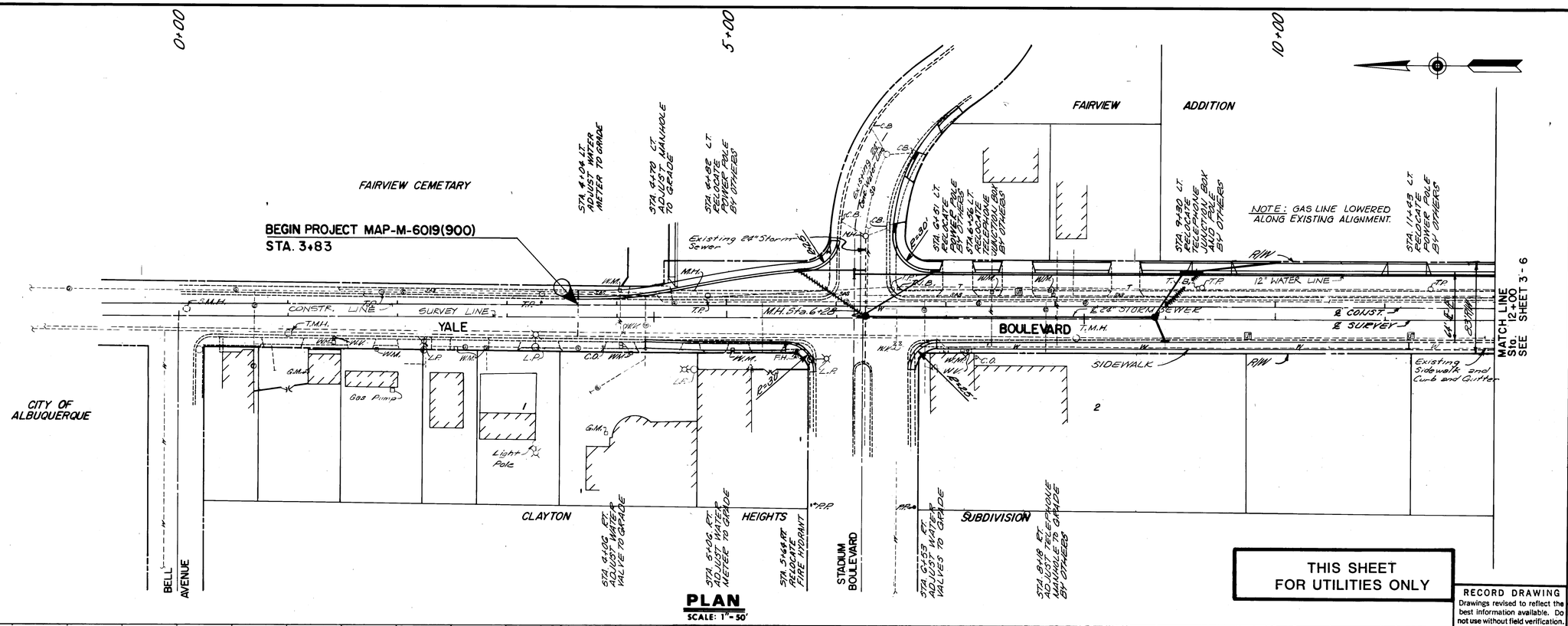
REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REVISIONS	BY
2	6-24-85	As-Built Revisions	W.M.A.
1		Revise Storm Sewer Location	S.A.M.

REMARKS

DESIGN
DESIGNED BY W.L.B. DATE 11/84
DRAWN BY G.M./L.G./L.T. DATE 11/84
CHECKED BY W.L.B./G.M. DATE 11/84

21

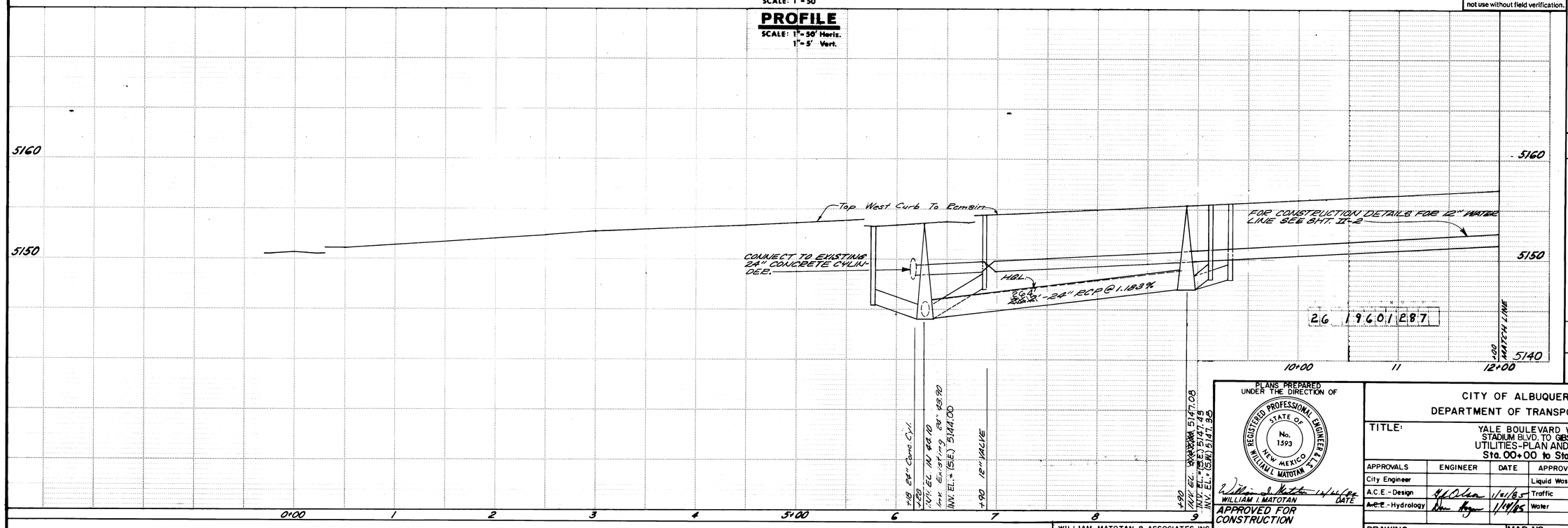


PLAN
SCALE: 1"=50'

THIS SHEET FOR UTILITIES ONLY

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PROFILE
SCALE: 1"=50' Horiz.
1"=5' Vert.



WILLIAM MATOTAN & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN — DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
UTILITIES-PLAN AND PROFILE
Sta. 00+00 to Sta. 12+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E. - Design		1/21/85	Traffic	N.A.	1-21-85
A.C.E. - Hydrology		1/14/85	Water	R. Pena	1/14/85

DRAWING NO.	MAP NO.	SHEET	OF
1960	L-15 & L-16	3-5	

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 8/5/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
NO. 1-L 16 N.E. CURB RETURN AT INTERSECTION OF YALE & ROSS
ELEV. 5156.097

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

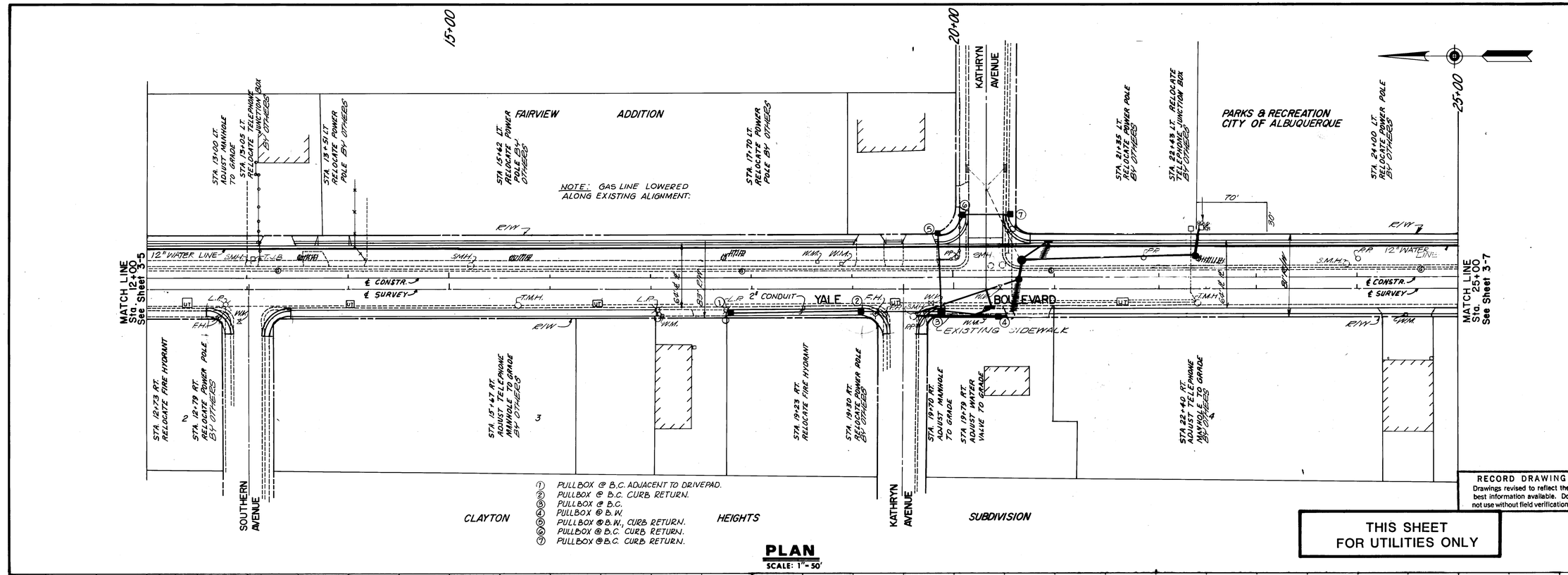
NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.

REVISIONS

DESIGN		DATE
DESIGNED BY	W.I.M.	11/84
DRAWN BY	G.M., L.C.B., L.L.T.	11/84
CHECKED BY	W.I.M., G.M.	11/84

21

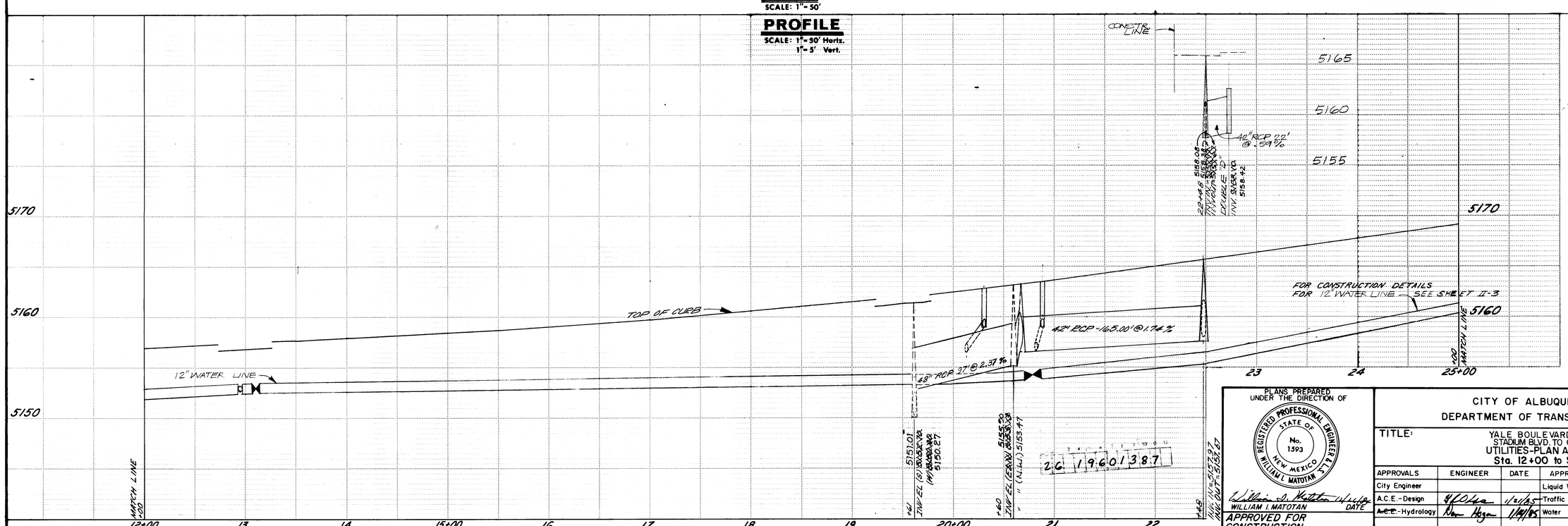
0726012



PLAN
SCALE: 1"=50'

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

THIS SHEET FOR UTILITIES ONLY



PROFILE
SCALE: 1"=50' Horiz.
1"=5' Vert.

WILLIAM MATOTAN & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & L.S. — STATE OF NEW MEXICO No. 1593 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
UTILITIES-PLAN AND PROFILE
Sta. 12+00 to Sta. 25+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Peña	1/14/85
A.C.E.-Design		1/21/85	Traffic		1-21-85 N/A
A.C.E.-Hydrology		1/14/85	Water	R. Peña	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 3-6 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 85/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

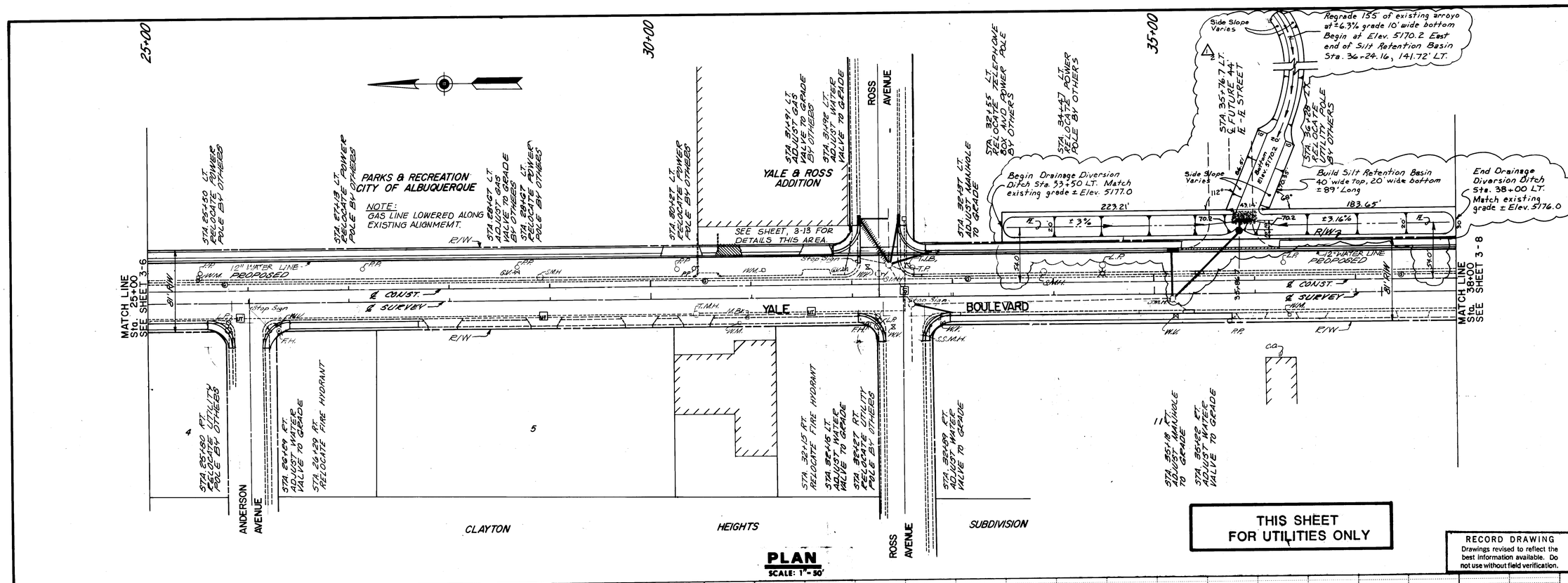
BENCH MARKS
NO. 2-L16 E.N.E. CURB RETURN AT INTERSECTION OF YALE AND KATHRYN
ELEV. 5162.66

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

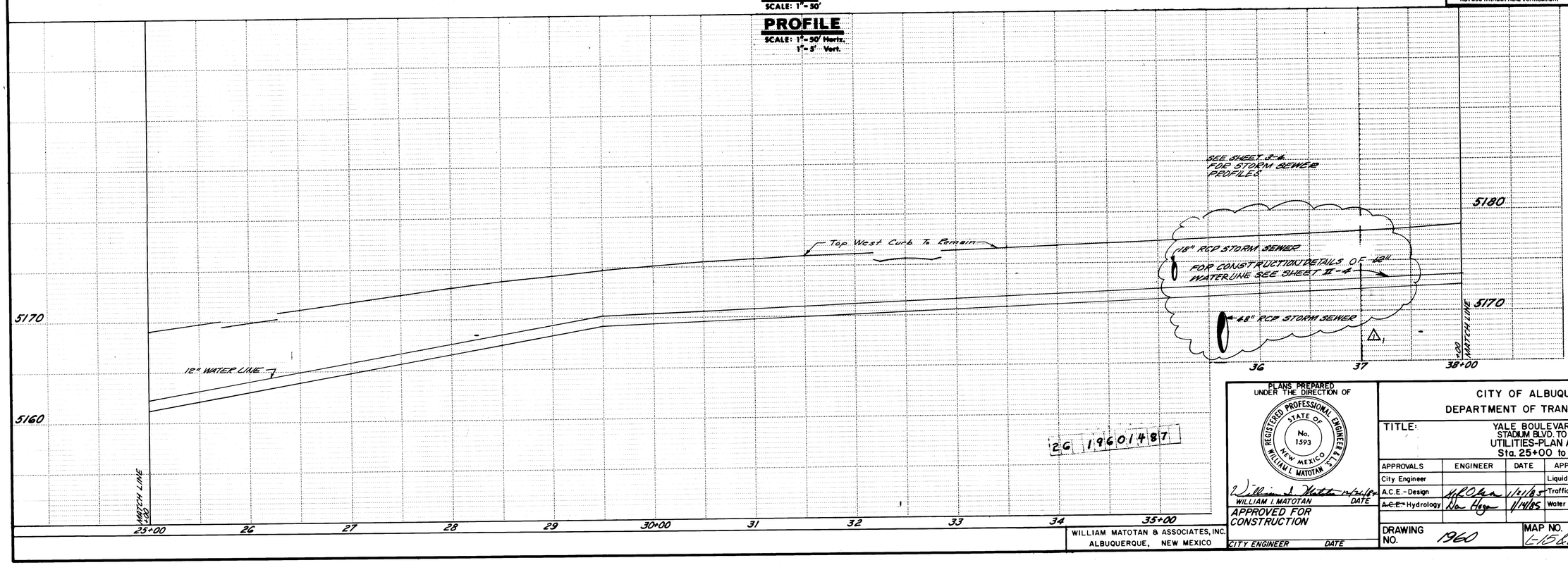
REFERENCES
MAP NO.
EST. NO.
W.O. NO.

REVISIONS
NO. DATE BY REMARKS
6-86 W.M.A. As-Built Revisions
DESIGNED BY M.L.B. DATE 11/84
DRAWN BY G.M., L.S., L.L.T. DATE 11/84
CHECKED BY M.L.B., G.M. DATE 11/84

21



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' Horiz.
1" = 5' Vert.

2G 19601487

AS BUILT INFORMATION	
CONTRACTOR Loomis Construction	
WORK STAKED BY City of Albuq.	DATE 85/86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY W.M.A.	DATE 6-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS
NO. 12-18 LOCATED AT N.E. NE CURB RETURN AT INTERSECTION OF YALE AND ROSS EL. 5177.097

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	W.O. NO.
EST. NO.	

NO.	DATE	BY	REMARKS
1	6-86	W.M.A.	As-Built Revisions
2	6-24-85	SAM.	Revise Storm Sewer Location

REVISIONS

		DATE
DESIGNED BY	W.L.B.	11/84
DRAWN BY	G.M.P./L.D./L.J.T.	11/84
CHECKED BY	W.L.B./G.M.	11/84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1593 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN — DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

WILLIAM MATOTAN & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

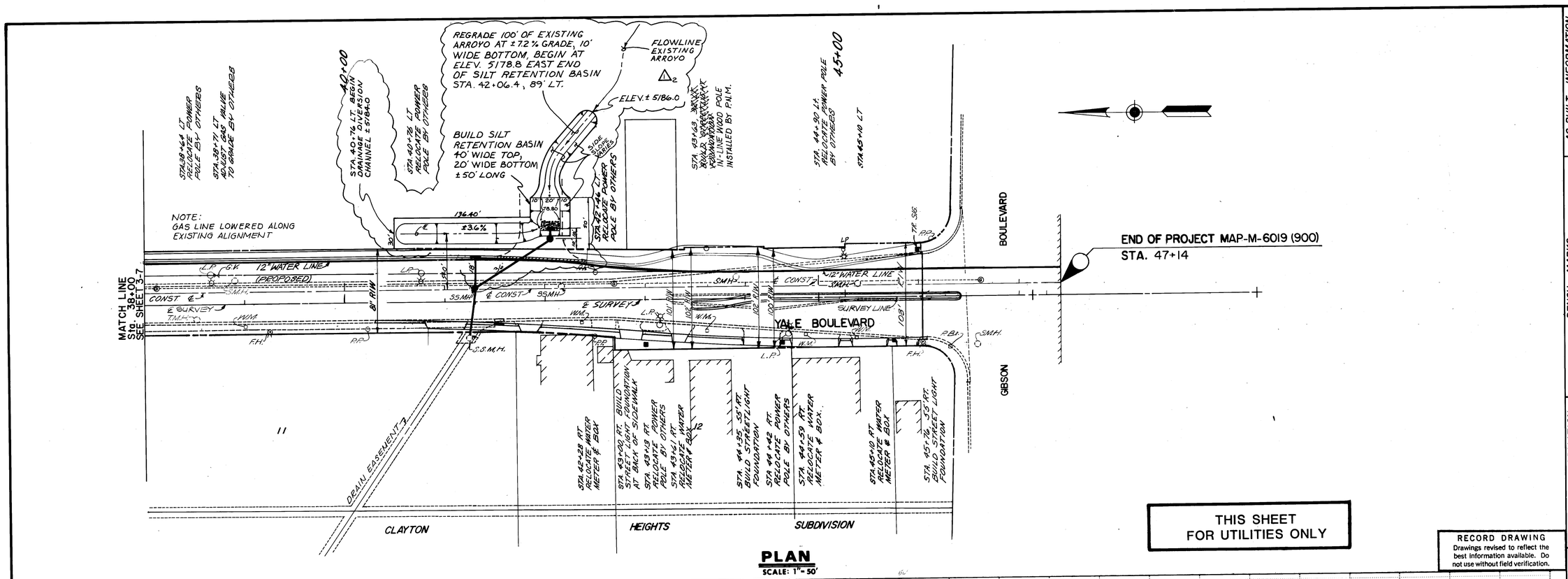
CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
UTILITIES-PLAN AND PROFILE
Sta. 25+00 to Sta. 38+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E.-Design	H.R. Olsen	1/14/85	Traffic	N.A. Gatt	1-21-85
~~A.C.E.~~ Hydrology	Don Hoge	1/14/85	Water	R. Pena	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 3-7 OF

21

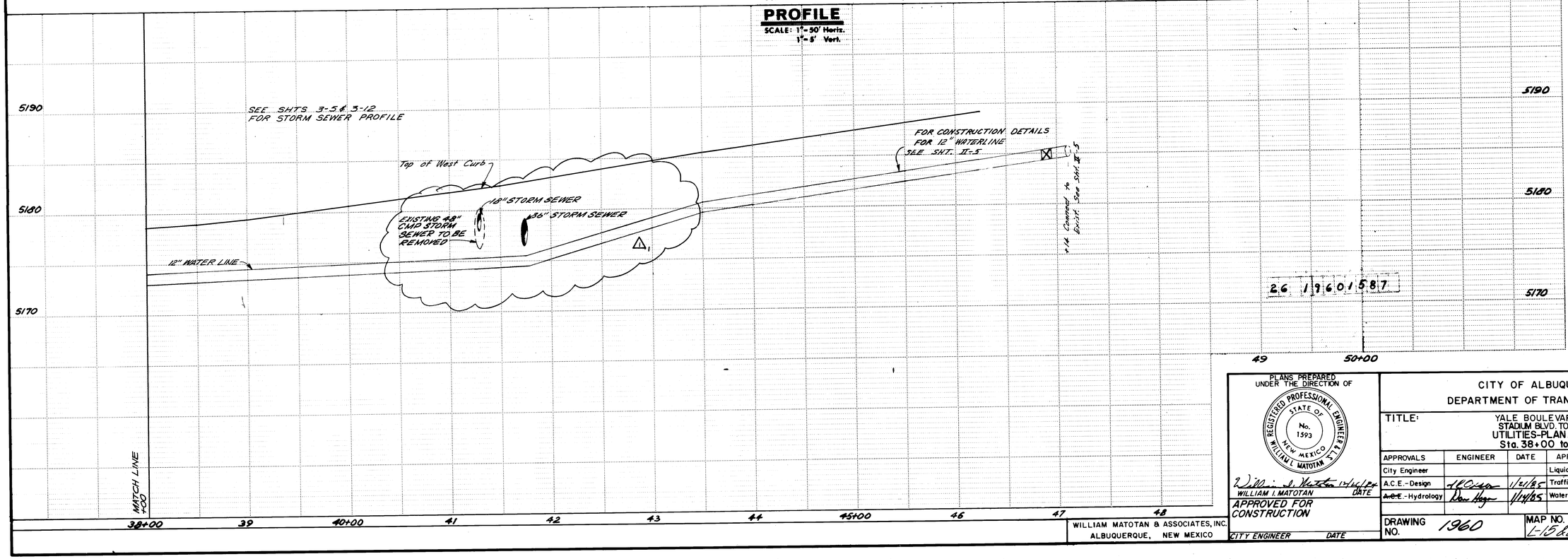


PLAN
SCALE: 1"=50'

THIS SHEET FOR UTILITIES ONLY

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PROFILE
SCALE: 1"=50' Horiz.
1"=5' Vert.



26 / 1960 / 587

AS BUILT INFORMATION	
CONTRACTOR	Loomis Construction
WORK WAS ACCEPTED BY	City of Albuq. DATE 85/86
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	W.M.A. DATE 6-86
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

NAIL & TAG LOCATED IN MIDDLE OF INTERSECTION OF YALE AND GIBSON
ELEV. 5190.03

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	W.O. NO.
EST. NO.	

NO.	DATE	BY	REMARKS
1	11/84	W.M.A.	As-Built Revisions
2	11/84	S.A.M.	Revise Storm Sewer Location

REVISIONS

		DATE
DESIGNED BY	M.L.B.	11/84
DRAWN BY	S.M./J.S./L.T.	11/84
CHECKED BY	M.L.B.	11/84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 1393 — WILLIAM I. MATOTAN
WILLIAM I. MATOTAN DATE 1/14/84

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

WILLIAM MATOTAN & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

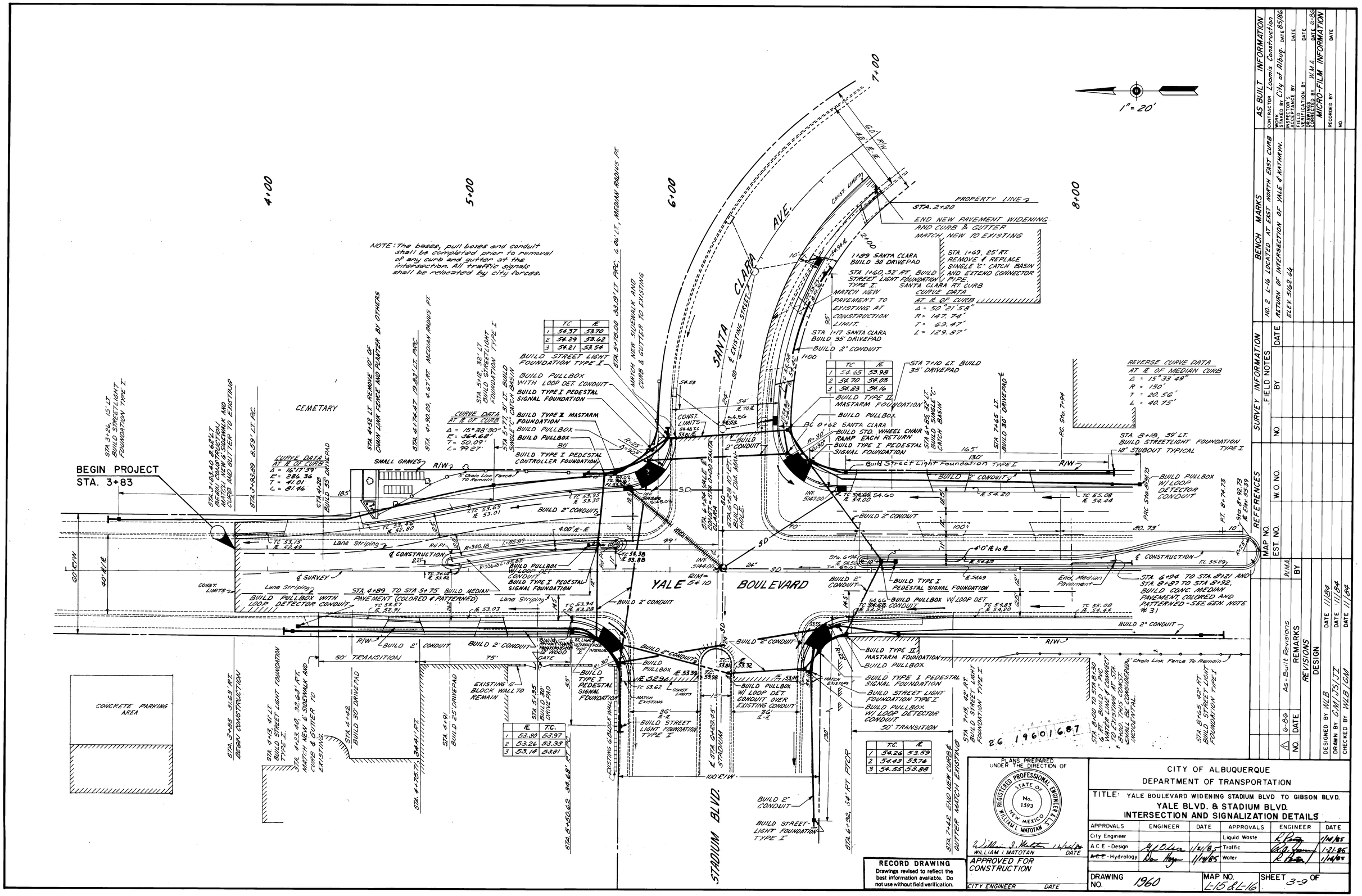
TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
UTILITIES-PLAN AND PROFILE
Sta. 38+00 to Sta. 50+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pérez	1/14/85
A.C.E.-Design	J.E. Olson	1/21/85	Traffic	N.A. Otero	1-21-85
~~A.C.E.~~-Hydrology	Don Hoge	1/14/85	Water	R. Pérez	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 3-8 OF

21

0128015


1" = 20'
4+00
5+00
6+00
7+00
8+00
NOTE: The bases, pull boxes and conduit shall be completed prior to removal of any curb and gutter at the intersection. All traffic signals shall be relocated by city forces.
BEGIN PROJECT
STA. 3+83
CEMETARY
SANTA CLARA AVE.
YALE BOULEVARD
STADIUM BLVD.
PROPERTY LINE
STA. 2+20
END NEW PAVEMENT WIDENING AND CURB & GUTTER MATCH NEW TO EXISTING
STA. 1+69, 25' RT. REMOVE & REPLACE SINGLE "C" CATCH BASIN AND EXTEND CONNECTOR PIPE.
1+89 SANTA CLARA BUILD 30' DRIVEPAD
STA. 1+60, 32' RT. BUILD STREET LIGHT FOUNDATION TYPE I.
MATCH NEW PAVEMENT TO EXISTING AT CONSTRUCTION LIMIT.
STA 1+17 SANTA CLARA BUILD 35' DRIVEPAD
BUILD 2" CONDUIT
CURVE DATA AT ℄ OF CURB
Δ = 50°21'58"
R = 147.74'
T = 69.47'
L = 129.87'
REVERSE CURVE DATA AT ℄ OF MEDIAN CURB
Δ = 15°33'49"
R = 150'
T = 20.56'
L = 40.75'
STA 7+10 LT. BUILD 35' DRIVEPAD
BUILD TYPE II MASTARM FOUNDATION
BUILD PULLBOX
BC 0+62 SANTA CLARA BUILD STD. WHEEL CHAIR RAMP EACH RETURN
BUILD TYPE I PEDESTAL SIGNAL FOUNDATION
STA 7+65 LT. BUILD 30' DRIVEPAD
STA. 8+18, 39' LT. BUILD STREETLIGHT FOUNDATION TYPE I
18" STUBOUT TYPICAL
BUILD PULLBOX W/LOOP DETECTOR CONDUIT
STA. 6+94 TO STA. 8+21 AND STA. 8+87 TO STA. 8+92. BUILD CONC. MEDIAN PAVEMENT, COLORED AND PATTERNED - SEE GEN. NOTE #31
STA. 3+26, 15' LT. BUILD STREETLIGHT FOUNDATION TYPE I
STA. 3+83.40 B.62' LT. BEGIN CONSTRUCTION AND MATCH NEW TO EXISTING CURB AND GUTTER
STA. 3+93.89 8.59' LT. P.C.
CURVE DATA AT ℄ OF CURB
Δ = 16°17'39"
R = 286.36
T = 41.01
L = 81.46
STA. 4+28 BUILD 35' DRIVEPAD
STA. 4+32 LT. REMOVE 10' OF CHAIN LINK FENCE AND PLANTER BY OTHERS
STA. 4+74.47 19.83' LT. P.C.
STA. 4+90.09, 4.67' RT. MEDIAN RADIUS PT.
STA. 5+12, 32' LT. BUILD STREETLIGHT FOUNDATION TYPE I
STA. 5+77, 31' LT. BUILD SINGLE "C" CATCH BASIN
STA. 5+75.00 33.19' LT. P.R.C. & 26' LT., MEDIAN RADIUS PT.
MATCH NEW SIDEWALK AND CURB & GUTTER TO EXISTING
BUILD STREET LIGHT FOUNDATION TYPE I
BUILD PULLBOX WITH LOOP DET. CONDUIT
BUILD TYPE I PEDESTAL SIGNAL FOUNDATION
CURVE DATA AT ℄ OF CURB
Δ = 15°38'30"
R = 364.68'
T = 50.09'
L = 99.27'
BUILD TYPE II MASTARM FOUNDATION
BUILD PULLBOX
BUILD PULLBOX
BUILD TYPE I PEDESTAL CONTROLLER FOUNDATION
SMALL GRAVES
3' Chain Link Fence To Remain
STA. 6+25 10' CENT. BUILD 4' DIA. MANHOLE
STA. 6+94 VALVE & CONCRETE STRUCTURE CLAIRA
STA. 6+65 LT. SINGLE "C" CATCH BASIN
BUILD 2" CONDUIT
BUILD Street Light Foundation TYPE I
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD 2" CONDUIT
BUILD TYPE I PEDESTAL SIGNAL FOUNDATION
BUILD PULLBOX W/ LOOP DET.
BUILD PULLBOX W/ LOOP DETECTOR CONDUIT
BUILD TYPE II MASTARM FOUNDATION
BUILD PULLBOX
BUILD TYPE I PEDESTAL SIGNAL FOUNDATION
BUILD STREET LIGHT FOUNDATION TYPE I
BUILD PULLBOX W/ LOOP DETECTOR CONDUIT
BUILD PULLBOX W/ LOOP DET. CONDUIT OVER EXISTING CONDUIT
BUILD STREET LIGHT FOUNDATION TYPE I
BUILD 2" CONDUIT
BUILD STREET-LIGHT FOUNDATION TYPE I
STA. 7+94 TO STA. 8+21 BUILD CONC. MEDIAN PAVEMENT, COLORED AND PATTERNED - SEE GEN. NOTE #31
STA. 8+00 TO STA. 8+30 6" PVC WATER LINE & CONNECT TO EXISTING AT STA. 8+21 - SHALL BE CONSIDERED INCIDENTAL.
STA. 8+45 42" RT. BUILD STREET LIGHT FOUNDATION TYPE I
STA. 7+42 END NEW CURB & GUTTER MATCH EXISTING
STA. 7+15, 42' RT. BUILD STREET LIGHT FOUNDATION TYPE I
STA. 6+92, 54' RT. P.T.O.P.
STA. 5+50.62 34.68' RT.
STA. 4+75.77, 34.41' RT.
STA. 4+91 BUILD 25' DRIVEPAD
STA. 4+42 BUILD 30' DRIVEPAD
STA. 4+23.40, 32.63' RT. MATCH NEW & SIDEWALK AND CURB & GUTTER TO EXISTING.
STA. 4+15, 41' LT. BUILD STREET LIGHT FOUNDATION TYPE I
STA. 3+83, 31.63' RT. BEGIN CONSTRUCTION
CONCRETE PARKING AREA
EXISTING 6' BLOCK WALL TO REMAIN
STA. 5+35 BUILD 30' DRIVEPAD
50' TRANSITION
75'
50' TRANSITION
Lane Striping
℄ CONSTRUCTION
℄ SURVEY
CONST. LIMITS
BUILD PULLBOX WITH LOOP DETECTOR CONDUIT
STA. 4+89 TO STA. 5+75 BUILD MEDIAN PAVEMENT (COLORED & PATTERNED)
4'0" ℄ to ℄
End Median Pavement
R/W
60' R/W
40' ℄ ℄
100' R/W
℄ STA. 6+25 STADIUM
Chain Link Fence To Remain
EXISTING 6' BLOCK WALL TO REMAIN
3' WOOD GATE
ST. LIGHT W/ MEDIAN BOLLARD INSTALLED
MATCH EXISTING
3G' ℄-℄
CONST. LIMITS
SD
S.D.
INV. 5147.00
INV. 5144.00
INV. 5150.0
R=340.18
L=185.87
R=1145.92
L=185.83
R=30
R=25
R=90
R=25
R=30
R=90
R=25
R=30
R=90
R=25
R=30

SIGN CODE	Nº OF SIGNS	TOTAL SIGN AREA SQ. FT.	POST LENGTHS				MOUNTING REQUIREMENTS						BASE-POSTS	
							FLANGED CHANNEL			DRIVEDOWN POSTS 0.1345 THICK		PORTABLE SIGN SUPPORT		
			LEFT	CTR.	RIGHT	TOTAL	2.25 Lb/Ft	3.00 Lb/Ft.	4.00 Lb/Ft	2 3/16" X 2 3/16"	2 1/2" X 2 1/2"		Nº	TOTAL LENGTH
						PHASE	III							
R3-2	(4)	(16)										(4)		
R3-7	(1)	(6.25)										(1)		
R3-7	1	6.25										(1)		
R4-7a	10	120										(10)		
W1-4L	5	(80)	11		11	(110)	✓			✓			10	35
W1-4R	(2)	(32)	11		11	(44)	✓			✓			4	14
W4-2L	(2)	(32)	11		11	(44)	✓			✓			4	14
W4-2R	(11)&4	(176)&64	11		11	(88)	✓			✓			8	35
W6-3	(6)	(96)	11		11	(132)	✓			✓			12	12
W20-1	(7)&1	(112)&16	11		11	(176)	✓			✓			14	56
W20-5L	(2)	(32)	11		11	(44)	✓			✓			4	14
W20-5R	(3)	(48)	11		11	(66)	✓			✓			6	21
W1-6L	(6)	(48)												
R11-2	(3)	(30)												
		-206.25-				-0-						-0-	-62-	-201-
						PHASE	IV							
R3-2	(2)	(8)										(2)		
R3-7	(1)	(6.25)										(1)		
R4-7a	(11)	(132)										(11)		
R4-7a	2	24										(2)		
W4-2L	(3)	(48)	11		11	(66)	✓			✓			6	21
W6-3	(8)&2	(128)&32	11		11	(220)	✓			✓			22	77
W20-1	(3)	(48)	11		11	(66)	✓			✓			6	21
W20-5L	(3)	(48)	11		11	(66)	✓			✓			6	21
R11-2	(2)&4	(120)&40												
		-96-				-0-						-0-	-40-	-140-
						PHASE	IV-A							
M4-9L	3	36		9		(27)	✓			✓			3	10.5
R3-1	1	4										(1)		
R3-2	(1)	(4)										(1)		
R3-7	(2)	(12.5)	11		11	(44)	✓			✓		(1)	2	7
R3-7	1	6.25										(1)		
R4-7a	(11)	(121)										(11)		
W4-2L	(5)	(80)	11		11	(110)	✓			✓		(2)	6	21
W6-3	(8)	(128)	11		11	(176)	✓			✓			16	56
W6-3	2	32	11		11	(44)	✓			✓			4	14
W20-1	6	96	11		11	(132)	✓			✓			12	42
W20-3	3	48	11		11	(66)	✓			✓			6	21
W20-5L	(4)	(64)	11		11	(88)	✓			✓			8	28
W20-5L	1	16	11		11	(22)	✓			✓			2	7
W20-5C	2	32	11		11	(44)	✓			✓			4	14
M4-9R	1	12	11		11	(16) & 6	✓			✓			2	7
G20-5	2	30	11		11	44	✓			✓			4	14
R11-2	(13)	(130)												
R11-4	(1)	(12.5)												
M4-10R	6	66												
		-378.25-				-50-						-0-	-69-	-241.5-

▲ Mount On Special Portable Support - See Sheet__-__ For Details.
( ) Sign(s) And Or Support(s) Used In Other Construction Phase(s). No Additional Payment Therefore.
✶ No Additional Post Needed Sign To Be Mounted On Common Post With Another Sign
● Mount Back-To-Back

SUMMARY OF QUANTITIES.

ITEM Nº	BID ITEM	UNITS	PHASE III	PHASE IV	PHASE IV-A
702000	Construction Signing	Sq. Ft.	206.25	96	378.25
702003	Steel Posts and Base Posts				
	for Construction Signing	Lin. Ft.	0	0	50
702015	Barricade-Type III - 8'	Each	0	0	0
702035	Vertical Panel, Back to Back				
	Type	Each	0	9	3
702045	Portable Sign Support	Each	0	0	0
702050	Channelizing Device (Barrel)	Each	0	0	0
	Type "B"				

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 6-5-86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	WMA

REVISIONS

DESIGN
DESIGNED BY WLB DATE 11-84
DRAWN BY CMM/JS/JJ DATE 11-84
CHECKED BY WLB/GMM DATE 11-84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & LS STATE OF NEW MEXICO No. 1593 WILLIAM I. MATOTAN
William I. Matotan 11/26/84
WILLIAM I. MATOTAN DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - SUMMARY OF QUANTITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Peña	1/14/85
A.C.E.-Design	N. Oliva	1/21/85	Traffic	[illegible]	1-21-85
~~A.C.E.~~-Hydrology	D. Hoge	1/14/85	Water	R. Peña	1/14/85

DRAWING NO. 1960 MAP NO. L-15 & L-16 SHEET 4-12 OF

26 19603387

CHECKED BY
DRAWN BY
DESIGNED BY

27

SIGN CODE	Nº OF SIGNS	TOTAL SIGN AREA SQ. FT.	POST LENGTHS				MOUNTING REQUIREMENTS						BASE-POSTS	
							FLANGED CHANNEL			DRIVEDOWN POSTS 0.1345 THICK		PORTABLE SIGN SUPPORT		
			LEFT	CTR.	RIGHT	TOTAL	2.25 Lb/Ft	3.00 Lb/Ft.	4.00 Lb/Ft	2 3/16" X 2 3/16"	2 1/2" X 2 1/2"		Nº	TOTAL LENGTH
						PHASE	IV-B							
R1-1	(1)	(6.25)										(1)		
R3-2	(3)	(12)										3		
R3-7	(2)	(12.5)										(2)		
R4-7a	(14)	(168)										(14)		
R4-8	1	5	9		9	(18)	✓			✓			2	7
W1-6	1	8										(1)		
W1-4L	(1)	(16)	11		11	(22)	✓			✓			2	7
W4-2L	(1)	(16)	11		11	(22)	✓			✓			2	7
W4-2R	(1)	(16)	11		11	(22)	✓			✓			2	7
W4-2R	3	48	11		11	(66)	✓			✓			6	21
W6-3	(10)	(160)	11		11	(154)	✓			✓		3	14	48
W20-1	(7)	(112)	11		11	(154)	✓			✓			14	49
W20-5L	(1)	(16)	11		11	(22)	✓			✓			2	7
W20-5R	(2)	(32)	11		11	(44)	✓			✓			4	14
W13-1	1	2.25												
R11-2	(16)&6	(160)&60												
		-123.25-				-0-						-6-	-48-	-167-

▲ Mount On Special Portable Support - See Sheet__-__ For Details.
( ) Sign(s) And Or Support(s) Used In Other Construction Phase(s). No Additional Payment Therefore.
✱ No Additional Post Needed Sign To Be Mounted On Common Post With Another Sign
● Mount Back-To-Back

SUMMARY OF QUANTITIES.

ITEM Nº	BID ITEM	UNITS	PHASE IV-B	SEWER EXCAVATION PROTECTION		TOTAL
702000	Construction Signing	Sq. Ft.	123.25			1896
702003	Steel Posts and Base Posts					
	for Construction Signing	Lin. Ft.	0			819
702015	Barricade;-Type III - 8'	Each	0	31		82
702035	Vertical Panel, Back to Back					
	Type	Each	10			109
702045	Portable Sign Support	Each	6			24
702050	Channelizing Device (Barrel)	Each	0			384
	Type "B"					

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 85/86
INSPECTOR'S FIELD ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWINGS CORRECTED BY W.M.A. DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
W.O. NO.
EST. NO.
MAP NO.

NO.	DATE	REMARKS	BY
1	6-86	As-Built Revisions	W.M.A.

REVISIONS

DESIGN
DESIGNED BY WLB DATE 11-84
DRAWN BY GM/TS/JT DATE 11-84
CHECKED BY WLB/GM DATE 11-84

PLANS PREPARED UNDER THE DIRECTION OF
REGISTERED PROFESSIONAL ENGINEER & LS STATE OF NEW MEXICO No. 1593 WILLIAM L. MATOTAN
William L. Matotan 12/26/84
WILLIAM L. MATOTAN DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - SUMMARY OF QUANTITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E. - Design	Gill Sun	1/21/85	Traffic	[illegible]	1-21-85
~~A.C.E.~~ Hydrology	Don Hazen	1/14/85	Water	R. Pena	1/14/85

DRAWING NO. 1960 MAP NO. L-15 & L-16 SHEET 4-13 OF

DESIGNED BY ____ CHECKED BY ____ DRAWN BY ____

27

F.H.W.A. Region No.	STATE		SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	119		

CHART TO DETERMINE POST SIZE

	H	H in feet: 5	6	7	8	9	10	11	12	13	14	15	16
2½ x 2½	PER POST	4.0	[illegible]	3.5	3.0	2.7	2.4	2.2	2.0	1.9	1.7		
		7.5	6.2	5.3	4.7	4.1	3.7	3.4	3.1	2.9	2.7		
		10.5	8.8	7.5	6.6	5.8	5.3	4.8	4.4	4.0	3.8		
		14.0	11.7	10.0	8.8	7.7	7.1	6.4	5.9	5.3	5.1		
[illegible] x 2½"	SIGN AREA	16.7	13.9	11.9	10.4	9.3	8.3	7.6	7.0	6.4	6.0	5.6	5.2
[illegible] x 2½"		22.2	18.5	15.8	13.8	12.3	11.1	10.1	9.2	8.5	7.9	7.4	6.9

EXAMPLE:

[illegible] SIZE AND NUMBER OF POSTS TO USE WITH SIGN 4'x4' AREA = 16 ft²

[illegible] SIGN HEIGHT FROM ROADWAY CROSS SECTION IN CONJUNCTION WITH SIGN SIZE [illegible] POST (H) IS FROM THE GROUND ELEVATION AT THE BASE OF THE LONGEST POST TO [illegible] OF SIGN.

SOLUTION:

[illegible] ROADWAY CROSS SECTION, CLEARANCE TO BOTTOM OF SIGN = 9.5'

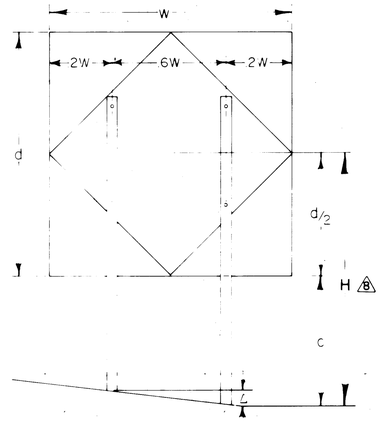
[illegible] 5.5' $d_2 = 4 - 2$

[illegible] HEIGHT 11.5 SAY 12'

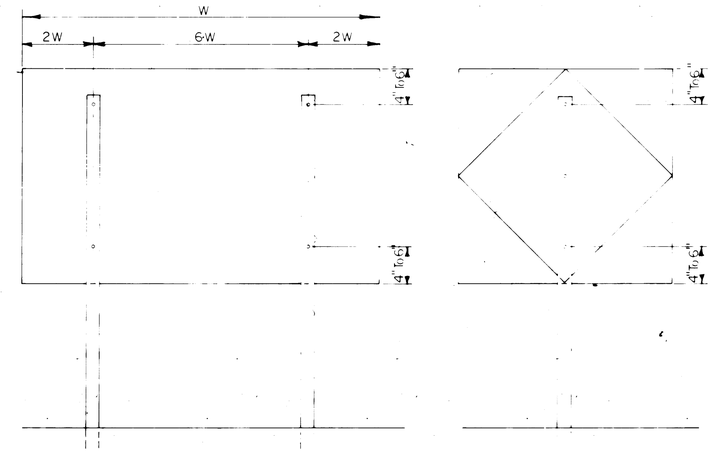
[illegible] SIZE POST IS NEEDED FOR A = 16 ft² WOULD BE 2½ (NORMALLY NOT USED TO 12' [illegible] SIGN AREA PER POST $A_p = 16/2 = 8$ ft² PER POST

[illegible] POST AT TOP WHERE H = 12' PROCEED DOWNWARD TO AN AREA EQUAL TO OR GREATER [illegible] AREA PER POST. THEN PROCEED TO THE LEFT TO FIND THE REQUIRED POST SIZE [illegible] POST TO BE A 2½ x 2½ 10 GA POST

[illegible] LENGTH OF THE LONGER POST WILL THEN BE THE 9.5' FROM GROUND LINE TO BOTTOM [illegible] THE SIGN HEIGHT (5.0 IN THIS CASE) PLUS THE 1.5' IN THE GROUND FOR A TOTAL [illegible] THE OTHER POST LENGTH WILL BE 16.0 MINUS THE DIFFERENCE (4.0 IN THIS CASE [illegible] P. 5.5')



POST SIZE CALCULATION



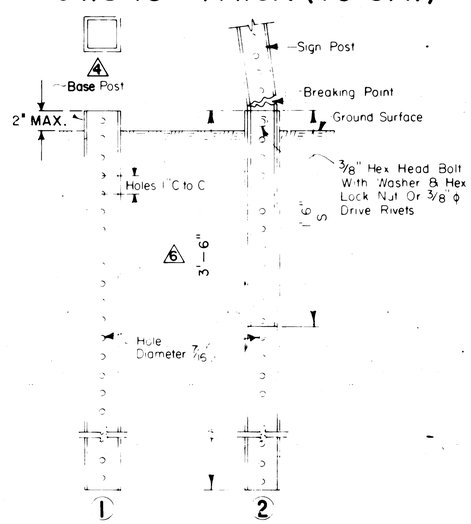
POST SPACING & SIGN MOUNTING

NOTE WHERE 3 POSTS ARE USED SPACING SHOULD BE 15W – 35W – 35W – 15W

NOTES:

1. MATERIALS AND WORKMANSHIP SHALL CONFORM TO NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM PERFORATED STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET. ALL HOLES TO BE 7/16" ϕ.
3. THE STEEL POSTS SHALL CONFORM TO **COMMERCIAL QUALITY ASTM DESIGNATION** A 446 GRADE A ZINC COATED (G 90) ASTM A 525. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED **OF 0.1046" THICK OR 0.1345" THICK.** ROLL FORMED CARBON STEEL WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL AND EXTERNALLY SCARFED TO AGREE WITH CORNER RADII. STANDARD OUTSIDE CORNER RADIUS SHALL BE 5/32" PLUS OR MINUS 1/64".
4. **BOLTS AND NUTS SHALL BE CARBON STEEL A-307 OR STAINLESS STEEL A-193.**
5. DRIVING CAPS MUST BE USED TO DRIVE POSTS 1'-6".
6. △5 BASE POST SLEEVE IS REQUIRED WITH **0.1046" THICK POST, BUT NOT WITH 0.1345" THICK.**
7. △4 3" X 3" X 4' 0" BASE POST OF 3/16" WALL THICKNESS TO BE USED WITH 2½" X 2½" 0.1345 POST.
8. POSTS SHALL HAVE A MINIMUM COLD FORMED YIELD STRESS OF 40,000 PSI.
9. △9 DESIGN IS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 1976.
   WIND LOAD: 90 LBS./SQ.FT (70 MPH)
   SOIL BEARING CAPACITY: 3 K/SQ.FT.
10. CARBON STEEL NUTS, BOLTS AND WASHERS SHALL BE HOT DIP GALVANIZED A-153, CLASS D; ZINC COATED A-164, TYPE LS (0.0005 THICKNESS); OR CADMIUM COATED A 165, TYPE OS (0.0003 THICKNESS).
11. △10 **AS AN ALTERNATE TO GALVANIZING, STEEL POSTS AND BASE POSTS MAY BE PAINTED WITH A GREEN MODIFIED POLYESTER PAINT MEETING THE COLOR REQUIREMENTS OF FS 595-A (COLOR NO. 14109). METHOD OF APPLICATION SHALL BE BY ELECTRODEPOSITION TO A MINIMUM 1 MIL THICKNESS. FINISHED POSTS SHALL HAVE A SMOOTH, UNIFORM FINISH FREE FROM DEFECTS AFFECTING STRENGTH OR APPEARANCE.**

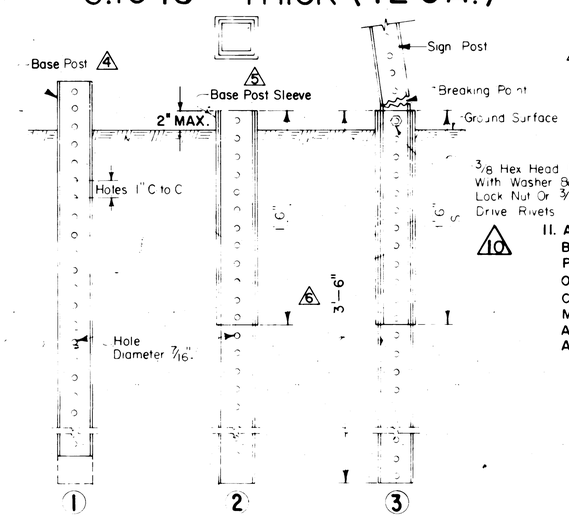
POSTS 0.1345" THICK (10 GA.)



GROUND INSTALLATION

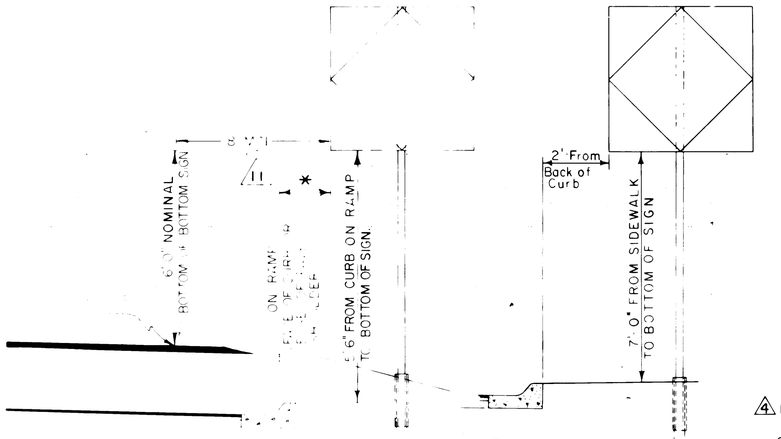
△4 1. DRIVE BASE POST UNTIL ONE HOLE IS EXPOSED ABOVE GROUND FOR RIVET OR BOLT INSTALLATION.
2. INSERT SIGN POST 1'6" AND FASTEN WITH 2 EACH 3/8" ϕ DRIVE RIVET OR A 3/8" ϕ BOLT.
3. THE HOLE PATTERN SHOWN IS ONLY REQUIRED IN THE AREA OF THE BREAKAWAY INFLUENCE AND AT THE SIGN PANEL LOCATION (HOLES MAY BE FIELD DRILLED).

POSTS 0.1046" THICK (12 GA.)



GROUND INSTALLATION

△4 1. DRIVE BASE POST TO WITHIN THREE OR FOUR INCHES OF SURFACE BASE POST IS NEXT SIZE LARGER SECTION THAN SIGN POST.
△5 △4 2. PRE-CUT BASE POST SLEEVE (of next size larger tube) SO THAT THE HOLES WILL MATCH AND STILL BE FLUSH WITH TOP OF THE BASE POST. DRIVE BASE POST SLEEVE UNTIL HOLES MATCH AS NOTED ABOVE, THEN DRIVE BOTH THE BASE POST SLEEVE AND THE BASE POST UNTIL ONE HOLE IS EXPOSED ABOVE GROUND FOR BOLT CONNECTION.
3. INSERT SIGN POST 1'-6" FASTEN WITH 2 EACH 3/8" ϕ DRIVE RIVETS OR A 3/8" ϕ BOLT.
4. THE HOLE PATTERN SHOWN IS ONLY REQUIRED IN THE AREAS OF THE BREAKAWAY INFLUENCE AND AT THE SIGN PANEL LOCATION (HOLES MAY BE FIELD DRILLED).



ROADWAY SIDEWALK

POST INSTALLATION

* 3' MIN. FROM FACE OF CURB OR

** 6' MIN. FROM EDGE OF PAVED SHOULDER

IDENT. NO.	DESCRIPTION	DATE	BY
10	ADDED NOTE No. 11	8/6/80	TGM
9	REVISED NOTE No. 9	9/24/79	TM
8	CORRECTED LETTER REFERENCE	7-24-78	TGM
7	ADDED LARGER POST SIZE TO CHART	2-28-78	TGM
6	REV. BASE POST DIMENSION	12-5-77	T.M.
5	ANCHOR SLEEVE TO BASE POST SLEEVE	12-5-77	T.M.
4	SIGN POST ANCHOR TO BASE POST	12-5-77	T.M.
3	Rev. Note 4 & Add Note 10	6-6-77	J.G.
2	Rev. Note 4	3-31-77	T.M.
1	Rev. Offset Distance	5/14/75	T.M.

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY DEPARTMENT

DESIGN LOADS FOR SQUARE TUBING POSTS

DESIGNED BY JG
DRAWN BY JH
CHECKED BY JG

APPROVAL
RECOMMENDED - TRAFFIC ENGINEER DATE
APPROVED ENGINEER OF DESIGN DATE

SERIAL Sn 75-1 SHEET OF

2.6 1 9 6 0 3 5 8 7

NO. SHEET NO. 5-1

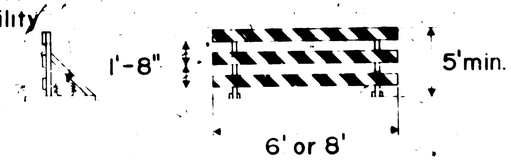
Stands may be detachable for portability. Type "I" Barricades have two (2) reflectorized rail faces (one in each direction). The stand materials may be metal, wood or other suitable light weight materials of structural soundness.

TYPICAL
TYPE "I" BARRICADE

Type "II" Barricades have four (4) reflectorized rail faces (two in each direction). Folding stands shall be of materials similar to Type "I" Barricade stands.

TYPICAL
TYPE "II" BARRICADE

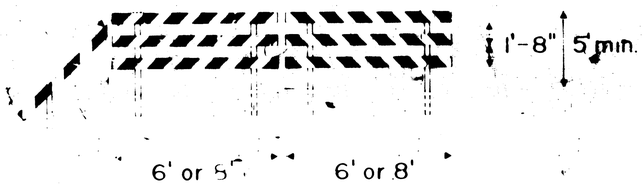
Sand bags for added stability



Type "III" Barricade framing and supports shall be 2"x2" min.-12Ga., square metal tubing or drivedown posts.

TYPICAL
MOVABLE TYPE "III" BARRICADE

Wing Rail

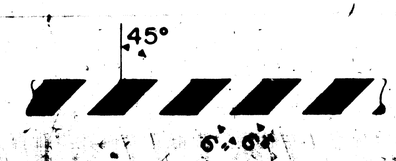


Type "III" Barricades have 3 reflectorized rail faces when facing traffic in one direction; 6 if facing traffic in two directions. Wing Rail may be fitted to the back of the top rail attached by two 5/16" bolts, nuts, and washers.

TYPICAL
FIXED TYPE "III" BARRICADE

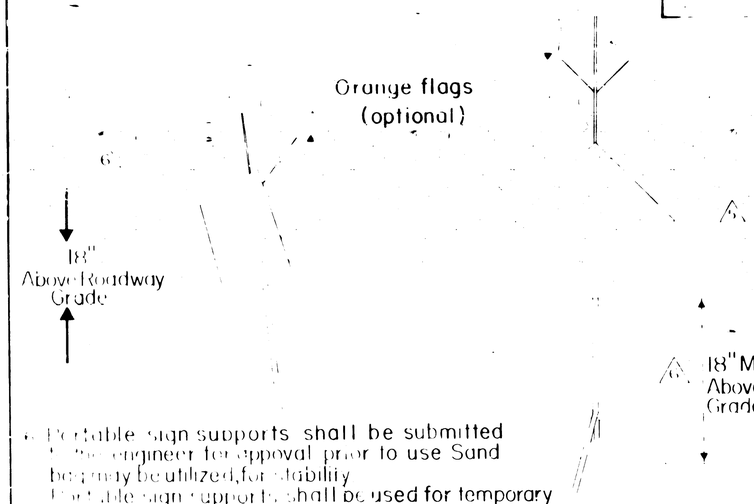
BARRICADES - CHARACTERISTICS

	I	II	III
WIDTH OF RAIL	8"min.-12"max.	8"min.-12"max.	8"min.-12"max.
LENGTH OF RAIL	6' to 8'	3'min.-4'max.	6' or 8'
WIDTH OF STRIPES	6 ins.	6 ins.	6 ins.
HEIGHT	3 ft. min.	3 ft. min.	5 ft. min.
TYPE OF FRAME	Demountable or heavy "A" frame	Light "A" frame	Posts or skids
FLEXIBILITY	Essentially movable	Portable	Essentially permanent



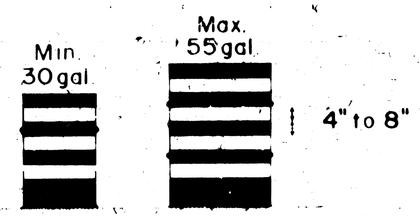
Rail shall be 1/2" min. 5 ply sign grade plywood or 2"x 8" S4S quality wood. On Types "I" and "II", metal rails, if used, must be light weight material, commensurate with structural soundness. Stripes shall slant downward at 45° toward the side which traffic is to pass.

DETAIL OF BARRICADE
RAIL STRIPING



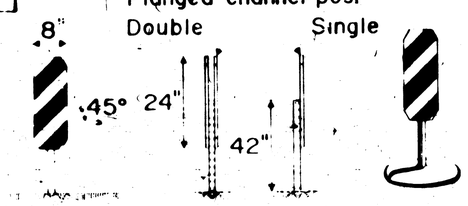
1. Portable sign supports shall be submitted to the engineer for approval prior to use. Sand bags may be utilized for stability.
2. Portable sign supports shall be used for temporary roadway construction operation only.

PORTABLE SIGN SUPPORT (TYPICAL)



With three (3) orange stripes minimum and alternating white stripes, all reflective tape or sheeting.

CHANNELIZATION DEVICES
(BARRELS)



Panels to be 0.060 min., 6061-T6, or 5052-H38 aluminum alloy mounted on 1 1/2" min. square steel tubing post or 1.33 lb/ft. min. flanged channel post. Stripes shall slant downward at 45° toward the side which traffic is to pass. For temporary installation the post may be set to 3 ft. below ground or the panels may be mounted on stanchions.

CHANNELIZATION DEVICES
(VERTICAL PANELS)

26 1960 3687

GENERAL NOTES

1. All signs, sign materials, beacons, and barricade warning lights shall conform to the standards set forth in the M.U.T.C.D. 1978 edition.
2. The entire area of orange and white stripes shall be reflectorized on all barricades, barrels, vertical panels or other channelization devices when used on construction, detours, or participating connections, by use of reflective sheeting or tape.
3. Red and white barricades may be used to mark the end of a road, street, or highway where there is no crossroad or outlet at locations considered permanent and semi permanent closures or termination of roadways.
4. Flashing beacons or steady burn lights, when used on barricades, shall be positioned above the top rail of the barricade, facing traffic.
5. High intensity flashing beacons shall be used to mark obstructions or hazards. Type "C" steady burn light may be used for delineation at night.
6. All barricade framing and supports, other than galvanized metal, shall be painted white.

IDENT NO	DESCRIPTION	DATE	BY
6	REVISED PORT SIGN SUPPORT DETAILS	3/15/80	T.G.M.
5	REVISED PORT SIGN SUPPORT DETAILS	1/31/80	T.G.M.
4	REVISED NOTE No.1	9/24/79	T.G.M.
3	ADDED 5052-H38 ALUMINUM ALLOY	5/9/78	T.G.M.
2	ADDED FLANGED CHANNEL POST	5/4/78	T.G.M.
1	REMOVED BUNCELEA GANGE DIMENSION	12/8/77	T.G.M.

*REVISIONS OR CHANGE NOTICES

NEW MEXICO
STATE HIGHWAY DEPARTMENT

BARRICADES AND CHANNELIZATION DEVICES

JOB
JOB
JOB

APPROVAL
RECOMMENDED TRAFFIC ENGINEER
APPROVED ENGINEER OF DESIGN

SERIAL No. 77-

5-2

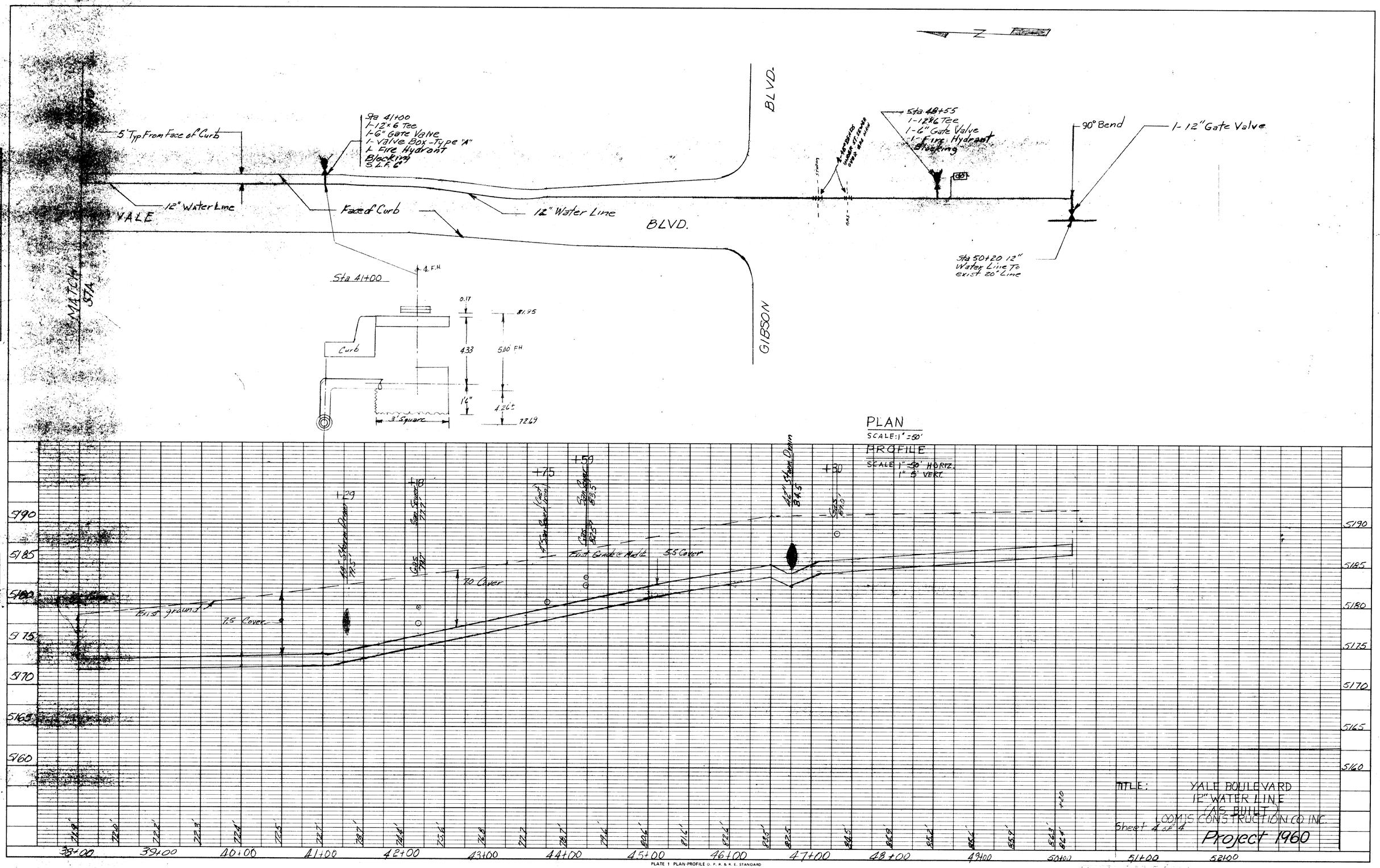
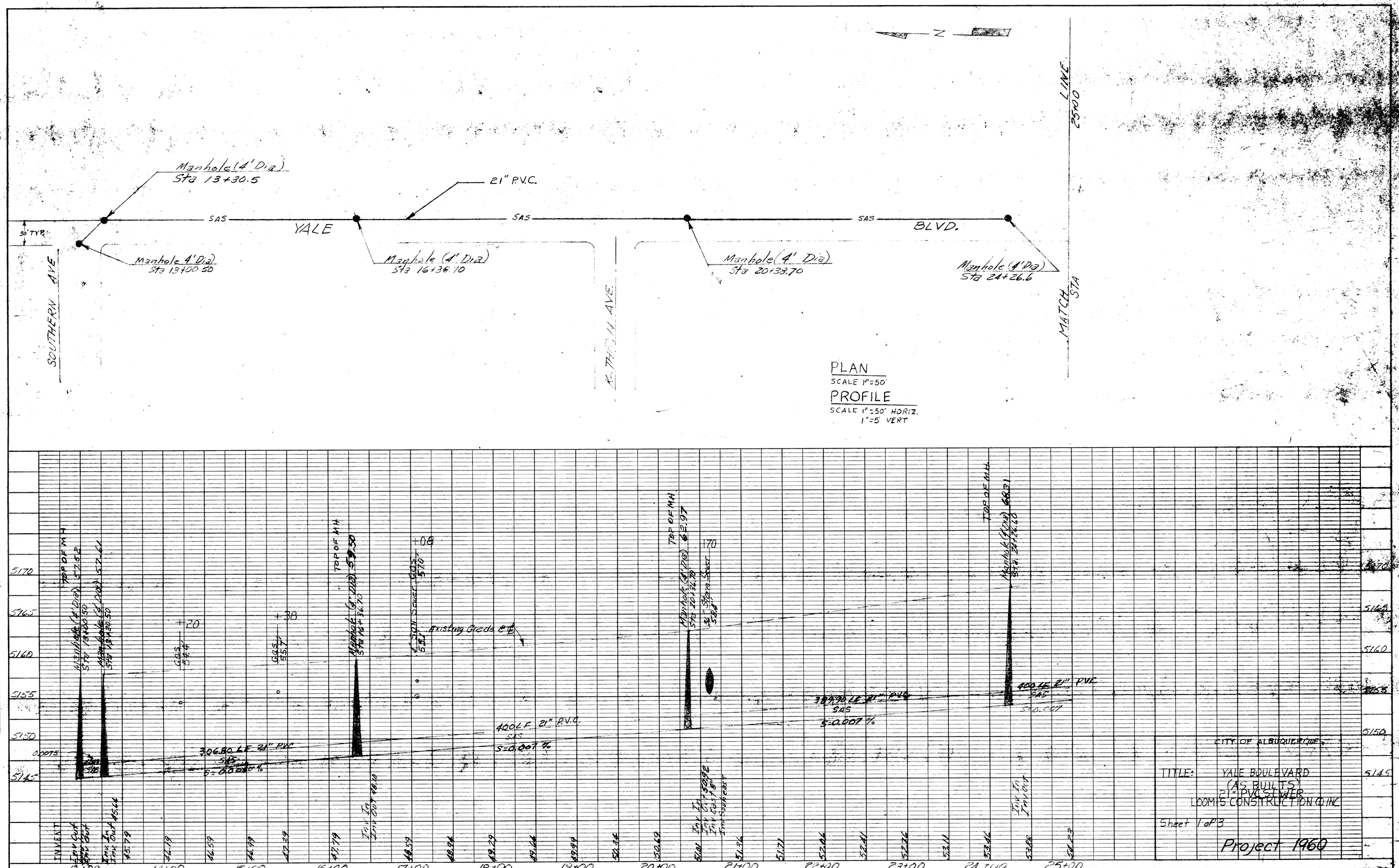
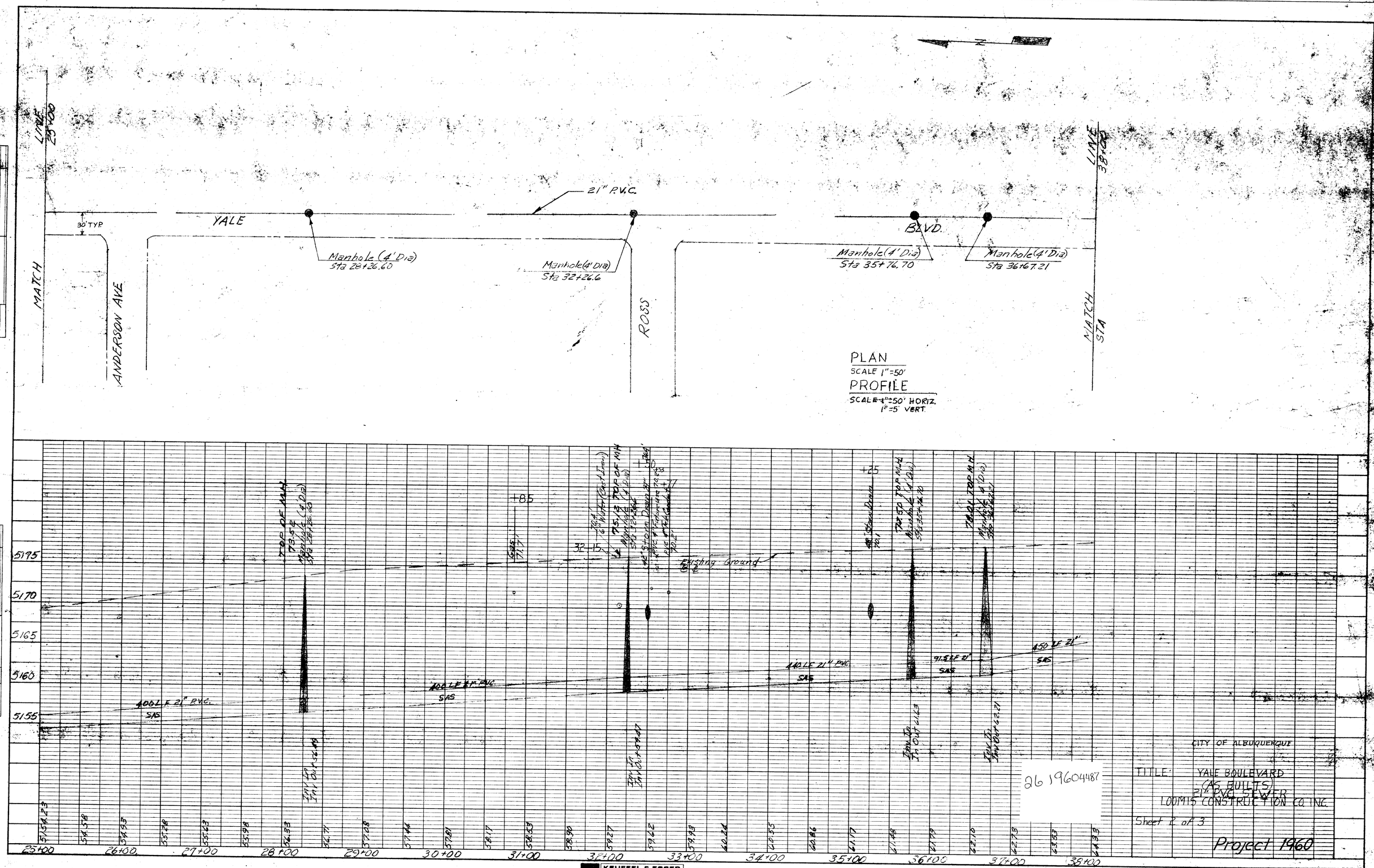
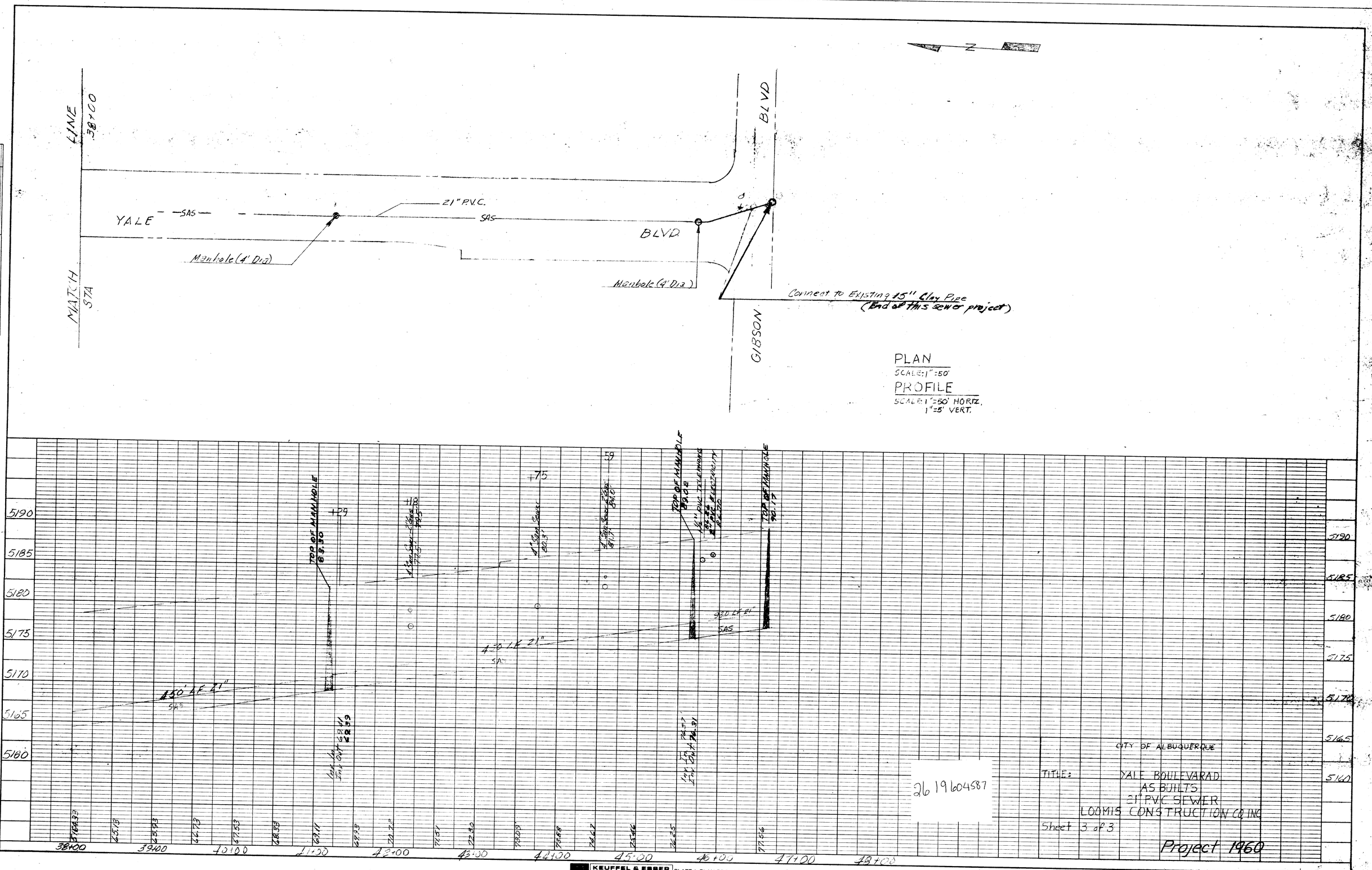


PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD

DIETZGEN CORPORATION


N
Manhole (4' Dia)
Sta 13+30.5
21" P.V.C.
SAS
YALE
SAS
SAS
BLVD.
30' TYP.
Manhole 4' Dia
Sta 13+00.50
Manhole (4' Dia)
Sta 16+36.10
Manhole (4' Dia)
Sta 20+33.70
Manhole (4' Dia)
Sta 24+26.6
SOUTHERN AVE.
K. TAFOYA AVE.
MATCH LINE
25+00 STA
PLAN
SCALE 1"=50'
PROFILE
SCALE 1"=50' HORIZ.
1"=5' VERT
TOP OF MH
Manhole (4' Dia) 6762
Manhole (4' Dia) 6757
Manhole (4' Dia) 6759
Manhole (4' Dia) 6770
Manhole (4' Dia) 6797
Manhole (4' Dia) 6831
Existing Grade
306.80 LF 21" PVC
SAS
S=0.0080 %
400 LF 21" P.V.C.
SAS
S=0.007 %
388.90 LF 21" PVC
SAS
S=0.007 %
400 LF 21" PVC
SAS
S=0.007
GAS
INVERT
Inv. In
Inv. Out
5170
5165
5160
5155
5150
5145
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
CITY OF ALBUQUERQUE
TITLE: YALE BOULEVARD
(AS BUILTS)
21" PVC SEWER
LOOMIS CONSTRUCTION CO. INC.
Sheet 1 of 3
Project 1960
PLAN
SURVEYED
PLOTTED
NOTE BOOK
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NO.
DATE
BY
PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
B. M.'s NOTED
STRUCTURE NOTATNS CH'KD
NO.
DATE
BY
KEUFFEL & ESSER
A Kimball Company
PLATE 1, PLAN-PROFILE
48 7004 Made in U.S.A.
2 1 1960 4 3 8 7


PLAN
SCALE 1"=50'
PROFILE
SCALE 1"=50' HORIZ.
1"=5' VERT.
MATCH LINE 25+00
MATCH LINE 38+00
MATCH STA
YALE
BLVD.
ANDERSON AVE
ROSS
30' TYP
21" P.V.C.
Manhole (4' Dia)
Sta 28+26.60
Manhole (4' Dia)
Sta 32+26.6
Manhole (4' Dia)
Sta 35+76.70
Manhole (4' Dia)
Sta 36+67.21
TOP OF MH
Existing Ground
400 LF 21" P.V.C.
SAS
440 LF 21" P.V.C.
91.5 LF 21"
450 LF 21"
5195
5170
5165
5160
5155
25+00
26+00
27+00
28+00
29+00
30+00
31+00
32+00
33+00
34+00
35+00
36+00
37+00
38+00
CITY OF ALBUQUERQUE
26 19604487
TITLE: YALE BOULEVARD
(AS BUILTS)
21" PVC SEWER
LOOMIS CONSTRUCTION CO. INC.
Sheet 2 of 3
Project 1960
PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER
48 7004 Made in U.S.A.
26 19604487


N
LINE
38+00
MATCH
STA
YALE
SAS
21" P.V.C.
SAS
Manhole (4' Dia)
BLVD
BLVD
Manhole (4' Dia)
Connect to Existing 15" Clay Pipe
(End of this sewer project)
GIBSON
PLAN
SCALE: 1" = 50'
PROFILE
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.
5190
5185
5180
5175
5170
5165
5160
TOP OF MANHOLE
89.90
+29
+75
59
TOP OF MANHOLE
89.08
TOP OF MANHOLE
90.17
420 LF 21"
SA
930 LF 21"
SAS
150 LF 21"
SA
38+00
39+00
40+00
41+00
42+00
43+00
44+00
45+00
46+00
47+00
48+00
26 19604587
CITY OF ALBUQUERQUE
TITLE: YALE BOULEVARAD
AS BUILTS
21" PVC SEWER
LOOMIS CONSTRUCTION CO INC
Sheet 3 of 3
Project 1960
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'S NOTED
STRUCTURE NOTATNS CH'KD
NOTE BOOK
NO.
BY
DATE
KEUFFEL & ESSER
A KRATOS Company
48 7004 Made in U.S.A.
PLATE 1, PLAN-PROFILE
26 19604587

SIGN CODE	Nº OF SIGNS	TOTAL SIGN AREA SQ. FT.	POST LENGTHS				MOUNTING REQUIREMENTS						BASE-POSTS	
							FLANGED CHANNEL			DRIVEDOWN POSTS 0.1345 THICK		PORTABLE SIGN SUPPORT		
			LEFT	CTR.	RIGHT	TOTAL	2.25 Lb/Ft.	3.00 Lb/Ft.	4.00 Lb/Ft.	2 3/16" X 2 3/16"	2 1/2" X 2 1/2"		Nº	TOTAL LENGTH
						PHASE	I							
R3-7	1	6.25	9 1/2		9 1/2	19	✓			✓			2	7
R4-7a	11	132										11		
W4-2L	3	48	11		11	66	✓			✓			6	21
W6-3	8	128	11		11	176	✓			✓			16	56
W20-1	3	48	11		11	66	✓			✓			6	21
W20-5L	3	48	11		11	66	✓			✓			6	21
R11-2	12	120												
		-530.25-				-393-							-36-	-126-
						PHASE	II							
R1-1	6	36										(6)		
R3-7	(1)	(6.25)	9 1/2		9 1/2	(19)	✓			✓			6	21
R4-7a	(3)	(36)										(3)		
W1-4L	4	64	11		11	(88)	✓			✓			8	28
W1-4R	2	32	11		11	(44)	✓			✓			4	14
W4-2L	(2)	(32)	(11)		(11)	(44)	✓			✓			4	14
W4-2R	1	16	11		11	(22)	✓			✓			2	7
W6-3	(7)	(112)	11		11	(154)	✓			✓			14	49
W20-1	(3)	(48)	11		11	(22)& 44	✓			✓			6	21
W20-5L	(2)	(32)	11		11	44	✓			✓			6	14
W20-5R	1	16	11		11	22							2	7
R11-2	(2)	(20.0)												
R11-4	2	25												
W20-3	1	16										(1)		
		-217.5-				-110-						-0-		-175-
						PHASE	II-A							
R3-2	13	52										(9)		
R4-7a	(6)	(72)										(2)& 4		
W1-4L	(4)	(64)	11		11	(88)	✓			✓			8	28
W1-4L	2	32	11		11	(44)							4	14
W1-4R	(1)	(16)	9		9	(18)	✓			✓			2	7
W4-2L	(3)	(48)	11		11	(66)	✓			✓			6	21
W4-2L	3	48	11		11	(66)	✓			✓			6	21
W6-3	(8)	(128)	11		11	(176)	✓			✓		2	8	28
W8-1	2	12.5	11		11	(22)	✓			✓		1	2	7
W20-1	(3)	(48)	11		11	(22)& 44	✓			✓			6	21
W20-1	4	64	11		11	88	✓			✓			8	28
W20-5L	(3)	(48)	11		11	66	✓			✓			6	21
W20-5L	1	16	11		11	22	✓			✓			2	7
W20-5R	(1)	(16)	11		11	2	✓			✓			2	7
W20-5R	2	32	11		11	44	✓			✓			2	7
W1-6	11	88												
R11-2	(11)	(110)												
R11-4	(2)	(25)												
		-344.5-				-266-						-7-	-62-	-217-

▲ Mount On Special Portable Support - See Sheet __-__ For Details.
( ) Sign(s) And Or Support(s) Used In Other Construction Phase(s). No Additional Payment Therefore.
✱ No Additional Post Needed Sign To Be Mounted On Common Post With Another Sign
● Mount Back-To-Back

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,(THREE) 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,(THREE) 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 (SEVEN) 7 FEET ABOVE SIDEWALK LEVEL. EXISTING POSTS MAY BE USED AT SOME LOCATIONS, WITH THE APPROVAL OF THE PROJECT ENGINEER. PORTABLE SIGNS SUPPORTS WILL BE ACCEPTABLE AS AN ALTERNATE FOR SIGNS WHICH ARE IN PLACE FOR LESS THAN ONE (1) WEEK.
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 (THREE) 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 MOTORISTS 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 BUSINESS 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, OR 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 POSTS, PORTABLE SIGN SUPPORTS OR TYPE III BARRICADES.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING AND INSTALLING "IMPENDING CONSTRUCTION" SIGNS, SUBSEQUENT TO THE AWARD OF THE CONTRACT, AND NO LESS THAN SEVEN (7) DAYS PRIOR TO THE FIRST DAY OF EXPECTED CONSTRUCTION WORK. (SEE SPECIAL PROVISIONS, SECTION 3A, OF THE PROJECT SPECIFICATIONS.)

SUMMARY OF QUANTITIES.

ITEM Nº	BID ITEM	UNITS	PHASE I	PHASE II	PHASE II-A
702000	Construction Signing	Sq. Ft.	530.25	217.5	344.5
702003	Steel Posts and Base Posts for Construction Signing	Lin. Ft.	393	110	266
702015	Barricade-Type III-8'	Each	17	18	16
702035	Vertical Panel, Back to Back Type	Each	87	0	0
702045	Portable Sign Support	Each	11	0	7
702050	Channelizing Device (Barrel) Type "B"	Each	190	27	167

26. CONTRACTOR SHALL CONSTRUCT A TEMPORARY 24' WIDE ROAD TO THE EAST OF THE PRESENT ROAD USING NEWLY OBTAINED RIGHT-OF-WAY AND CONSTRUCTION EASEMENT IN SUCH A WAY THAT TWO-WAY TRAFFIC MAY BE MAINTAINED ON THE ROAD DURING THE INSTALLATION OF THE SEWER LINE. DRAINAGE STRUCTURES AT STATIONS SHALL BE EXTENDED USING PIPE OF THE SAME DIAMETER AS EXISTING PIPE. THE PIPE SHALL BE FURNISHED BY THE CONTRACTOR AND REMAINS HIS PROPERTY AFTER REMOVAL. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE SEWER LINE.
27. WHENEVER THE TEMPORARY ROAD SHIFTS TO AN AREA WHERE PAVEMENT HAS BEEN REMOVED, TEMPORARY PAVEMENT OR PERMANENT PAVEMENT SHALL BE PLACED BEFORE TRAFFIC IS TRANSFERRED.

19603287

RECORD DRAWING
Drawings revised to reflect the best information available. Do not use without field verification.

PLANS PREPARED UNDER THE DIRECTOR OF
REGISTERED PROFESSIONAL ENGINEER & LS — STATE OF NEW MEXICO — No. 1393 — WILLIAM L. MATOTAN
WILLIAM L. MATOTAN 1/4/85 DATE
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE
DEPARTMENT OF TRANSPORTATION

TITLE: YALE BOULEVARD WIDENING
STADIUM BLVD. TO GIBSON BLVD.
TRAFFIC CONTROL - SUMMARY OF QUANTITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste	R. Pena	1/14/85
A.C.E.-Design		1/21/85	Traffic		1-21-85
A.C.E.-Hydrology	Don Hogan	1/14/85	Water	R. Pena	1/14/85

DRAWING NO. 1960 | MAP NO. L-15 & L-16 | SHEET 4-11 OF

AS BUILT INFORMATION
CONTRACTOR Loomis Construction
WORK STAKED BY City of Albuq. DATE 85/86
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY WMA DATE 6-86
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST. NO.

REVISIONS
NO. DATE REMARKS BY
1 6-86 As-Built Revisions WMA

DESIGN
DESIGNED BY WLB DATE 11-84
DRAWN BY GM/JS/JT DATE 11-84
CHECKED BY WLB/GM DATE 11-84

DESIGNED BY
DRAWN BY
CHECKED BY
0726039

27