

CITY OF ALBUQUERQUE
CONSTRUCTION PLANS
FOR
KIRTLAND CHANNEL IMPROVEMENTS
MULBERRY STREET TO UNIVERSITY BOULEVARD



LEGEND

x 68.86	EXISTING SPOT ELEVATION
66.96	NEW SPOT ELEVATION
—•—	FLOW DIRECTION ARROWS
⊗	GROUT / RIPRAP
-----	PROPERTY LINE
=====	EXISTING CURB & GUTTER
-----	EXISTING FEATURE
[Pattern]	CONCRETE
70.35 69.85	PROFILE ELEVATIONS
NEW EXISTING	

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET
2	PLAN & PROFILE STA. 10+17.67 TO STA. 13+50
3	PLAN & PROFILE STA. 13+50 TO STA. 17+00
4	PLAN & PROFILE STA. 17+00 TO STA. 20+20.08
5	PLAN & PROFILE STA. 20+20.08 TO STA. 23+39.08
6 - 7	LANDSCAPING PLANS
8 - 9	MISCELLANEOUS DETAILS

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



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the Contractor, Bender Construction, Inc., and by the City of Albuquerque, and reflects the construction as actually accomplished.

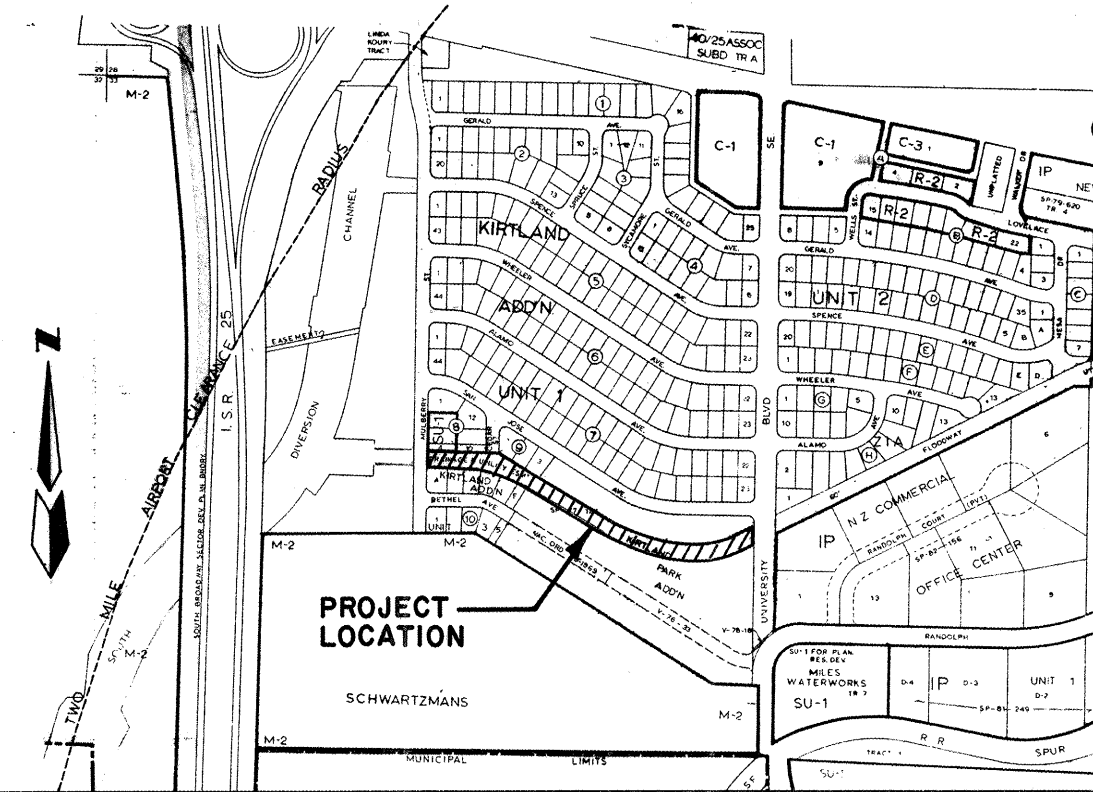
Mark Goodwin 6/6/91
Mark Goodwin, NMPE 8948

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

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

APPROVAL OF REVISIONS

		APPROVED FOR CONSTRUCTION
	PROJECT NO. 4155.90	<i>Philip Taylor</i> 11-13-90 SHEET 1 OF 9



VICINITY MAP ZONE ATLAS M-15
SCALE: NONE

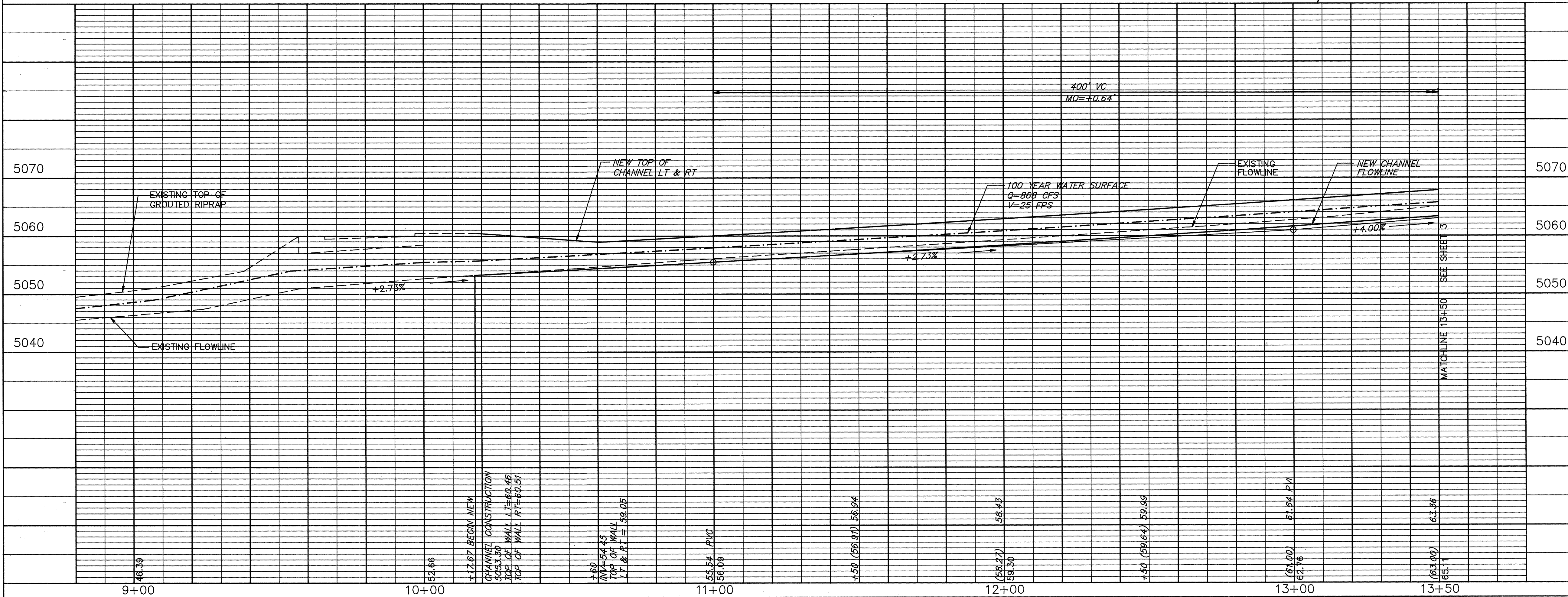
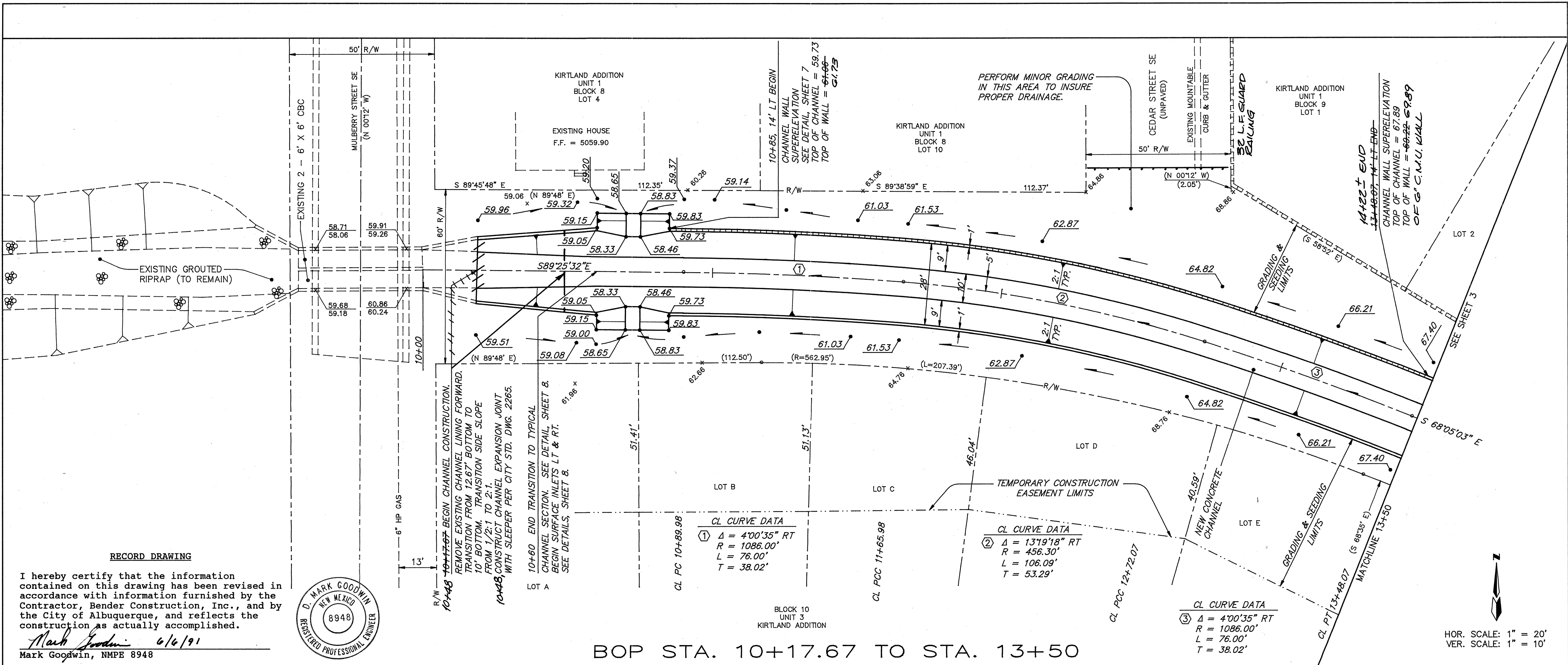
GENERAL NOTES

NOTICE TO CONTRACTORS

- CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
- ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION.
- ALL WORK WITHIN KIRTLAND PARK SHALL BE COORDINATED BY THE CONTRACTOR WITH THE CITY OF ALBUQUERQUE PARK MANAGEMENT DIVISION (857-8650). CONTRACTOR SHALL NOTIFY PARK MANAGEMENT 7 DAYS PRIOR TO COMMENCING CONSTRUCTION.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☐ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☐ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGE AFTER APPROVAL BY THE CITY ENGINEER OR WORK COMPLETED BY THE CONTRACTOR.

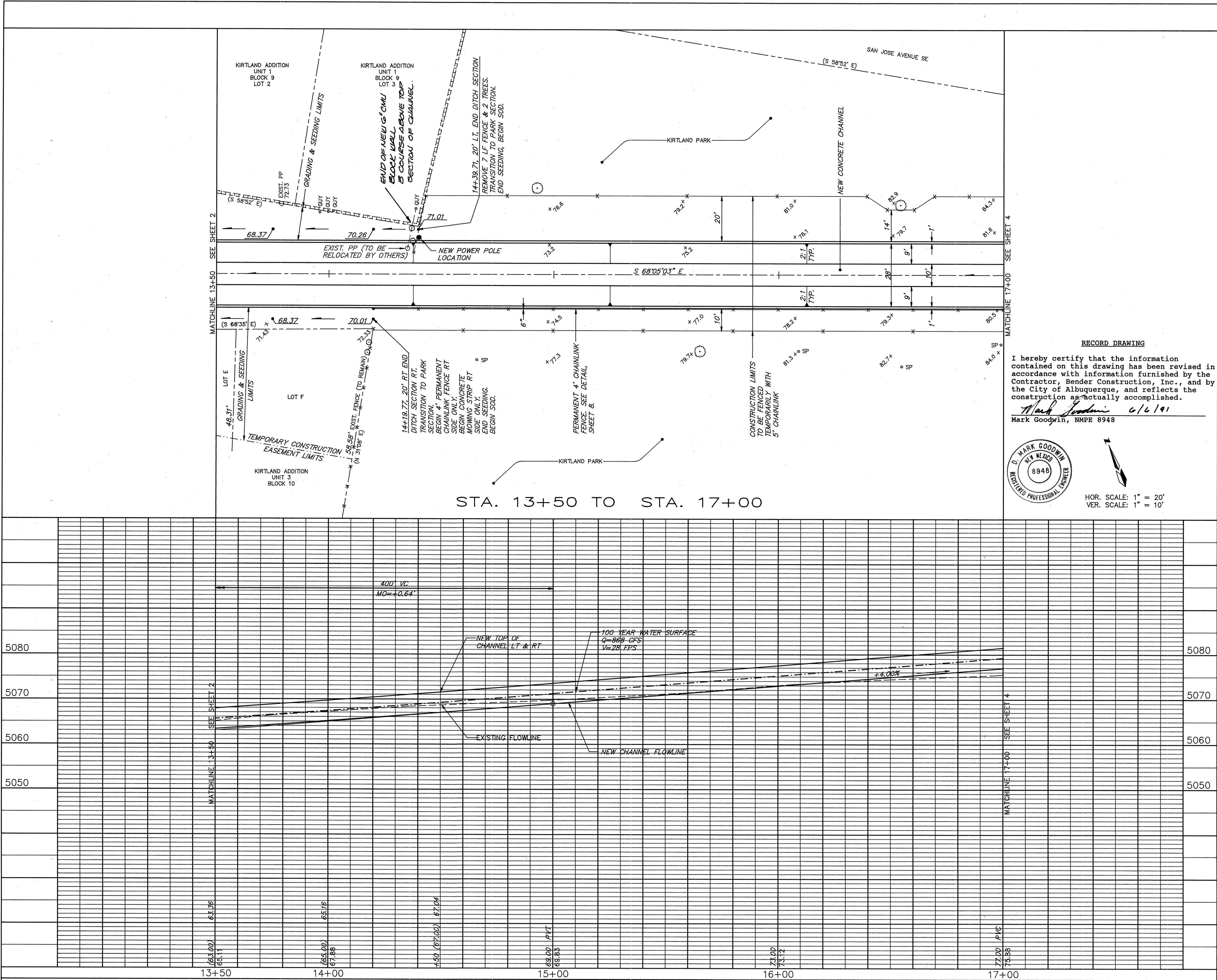


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: KIRTLAND CHANNEL IMPROVEMENTS
BOP STA. 10+17.67 TO STA. 13+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R. W. Kane	11/13/90	WATER	R. W. Kane	11-1-90
TRANSPORTATION	R. W. Kane	11/1/90	WASTE WATER	R. W. Kane	11-1-90
HYDROLOGY	R. W. Kane	11-9-90	DESIGN	R. W. Kane	11-9-90

PROJECT NO. 4155.90 MAP NO. M15 SHEET 2 OF 9



NOTES

1. REMOVAL OF THE 7 L.F. OF EXISTING FENCE SHALL BE INCIDENTAL TO THE CONTRACT AND SHALL BE INCLUDED IN THE CONTRACT PRICE.

AS BUILT INFORMATION

CONTRACTOR: **BENDER CONST. INC.**

WORK ORDER: **165-4**

DATE: **5/9/91**

INSPECTOR'S ACCEPTANCE BY: **MSA**

DATE: **4/9/91**

VERIFICATION BY: **MSA**

DATE: **4/9/91**

CORRECTIONS BY: **MSA**

DATE: **4/9/91**

RECORDED BY: **MSA**

DATE: **4/9/91**

NO. **5038.509**

BENCH MARKS

THE STATION MARK IS A STANDARD INSHC BRASS TABLET STAMPED, "STA 1-25-30", SET IN TOP OF A CONCRETE POST PROJECTING 0.2 FT. ABOVE GROUND. THE STATION IS LOCATED 1.8 MILES SOUTH OF DOWNTOWN ALBUQUERQUE, AT THE NORTHWEST CORNER OF THE HWY. 1-25 BRIDGE CROSSING OVER MILES ROAD (GIBSON BOULEVARD).

X = 383,916.04

Y = 1,477,272.06

Z = 5038.509

SURVEY INFORMATION

FIELD NOTES

NO. **1**

DATE **6/6/91**

BY **Mark Goodwin**

ENGINEER'S SEAL

DESIGNED BY **DMG**

DATE **8/90**

DRAWN BY **B/C**

DATE **8/90**

CHECKED BY **DMG**

DATE **8/90**

REVISIONS

NO. **1**

DATE **8/90**

REMARKS **DESIGN**

APPROVALS

ENGINEER **DMG**

DATE **11-1-90**

APPROVALS

ENGINEER **R.W. Kane**

DATE **11-1-90**

TRANSPORTATION **D. Kane**

DATE **11/1/90**

HYDROLOGY **D. Kane**

DATE **11-9-90**

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

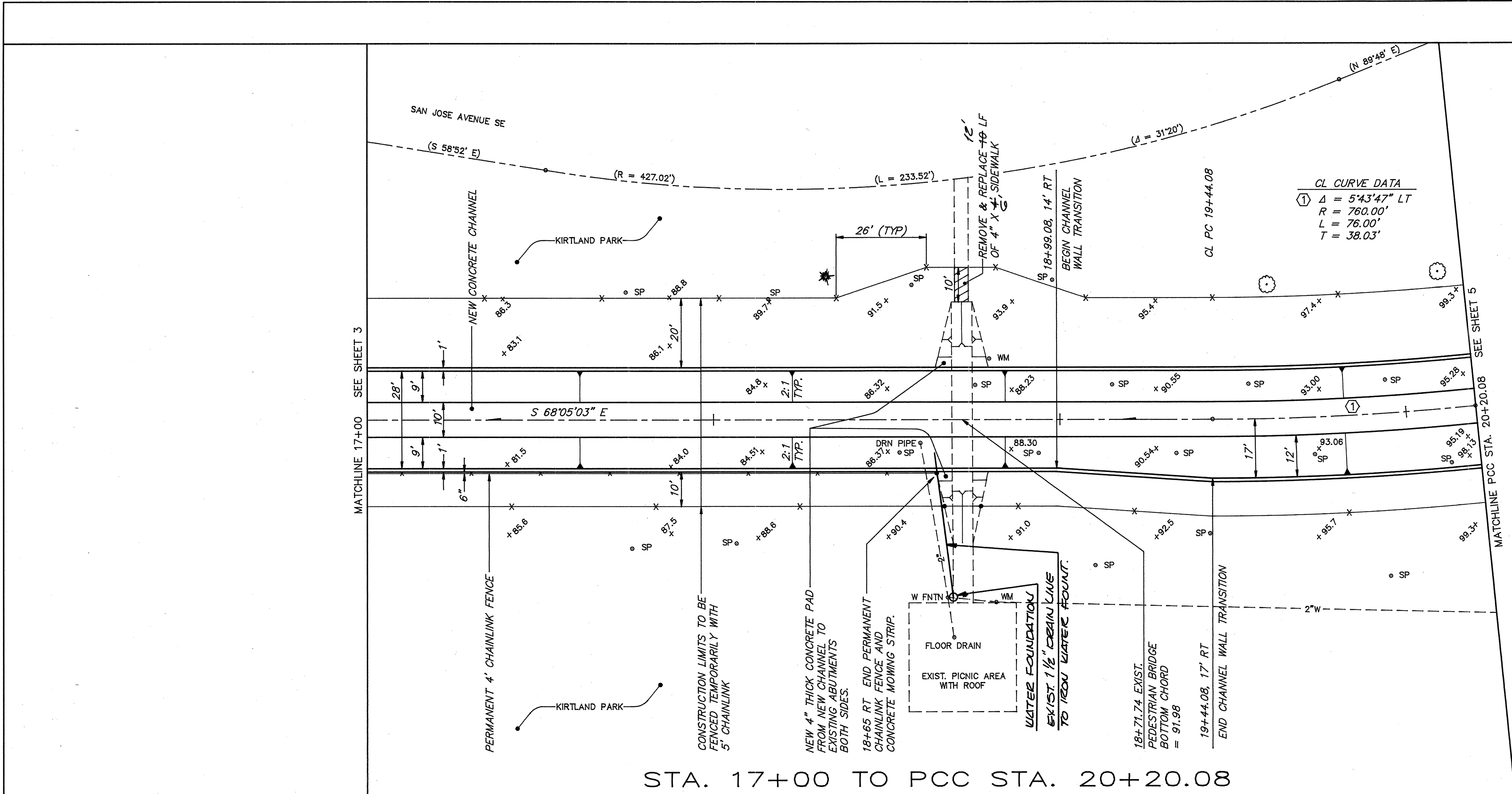
TITLE: **KIRTLAND CHANNEL IMPROVEMENTS**

STA. 13+50 TO STA. 17+00

PROJECT NO. **4155.90**

MAP NO. **M15**

SHEET **3** OF **9**



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the Contractor, Bender Construction, Inc., and by the City of Albuquerque, and reflects the construction as actually accomplished.

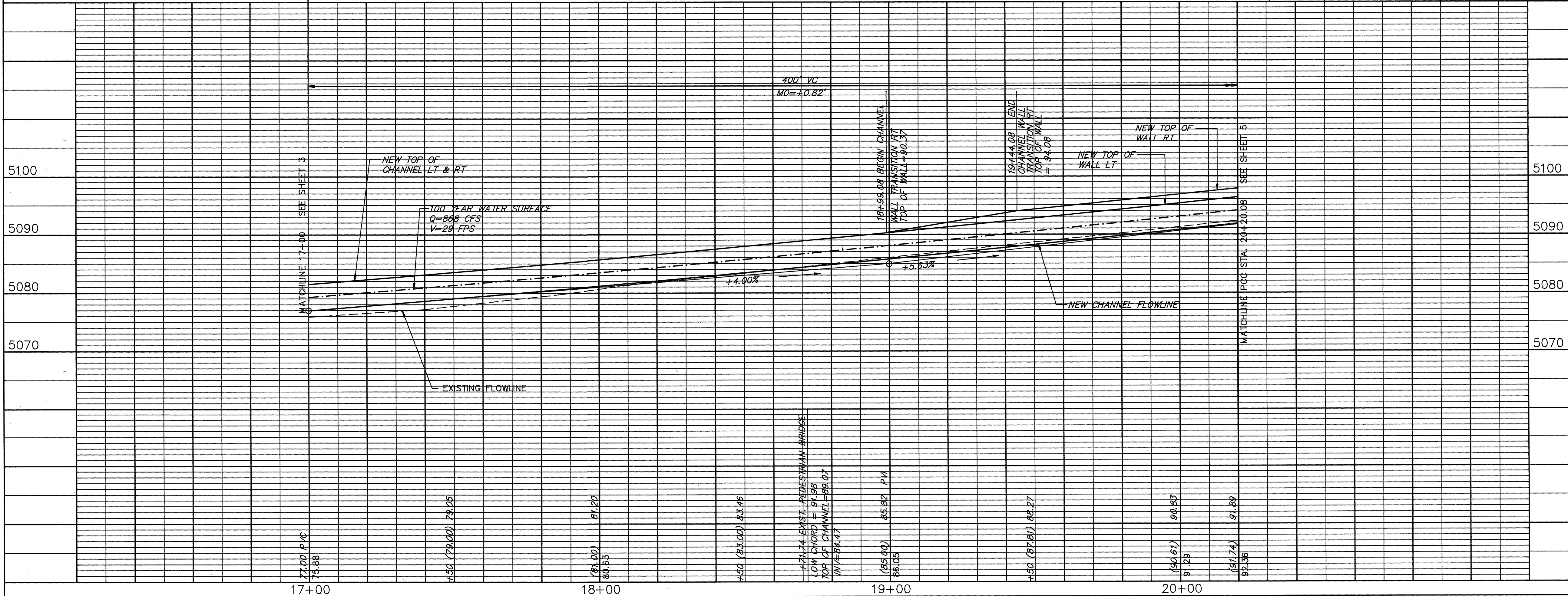
Mark Goodwin
Mark Goodwin, NMPE 8948



HOR. SCALE: 1" = 20'
VER. SCALE: 1" = 10'

NOTES

- EXISTING 2" PVC DRAIN LINE FROM PICNIC AREA IS TO BE TIED INTO NEW CHANNEL SIDE SLOPE.
- CONCRETE PADS AT BRIDGE ABUTMENTS SHALL BE PAID FOR UNDER THE SIDEWALK BID ITEM IN THE BID PROPOSAL.
- CONCRETE @ BRIDGE ABUTMENTS WERE PAID AS 7" THICK CHANNEL LINING.
- EXIST. WATER FOUNDATION HAD A 1 1/2" ORIGIN LINE IN EXIST. CONCRETE CHANNEL LEFT IN PLACE.



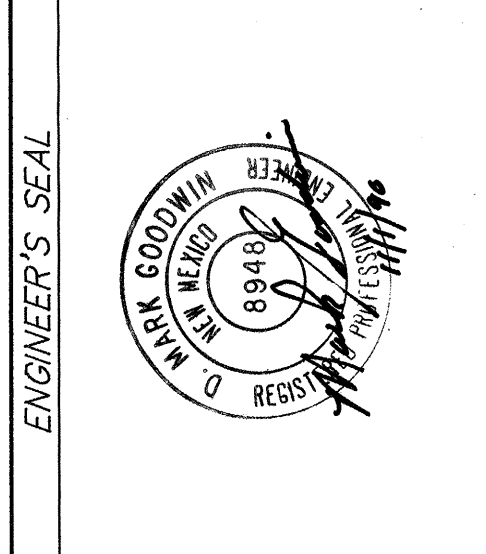
dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: KIRTLAND CHANNEL IMPROVEMENTS STA. 17+00 TO PCC STA. 20+20.08					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Randy Sheen	11/3/90	WATER	R.W. Kane	11-1-90
TRANSPORTATION	David H. Hume	11/1/90	WASTE WATER	R.W. Kane	11-1-90
HYDROLOGY	Mark Goodwin	11/1/90		D. Serna	11-1-90

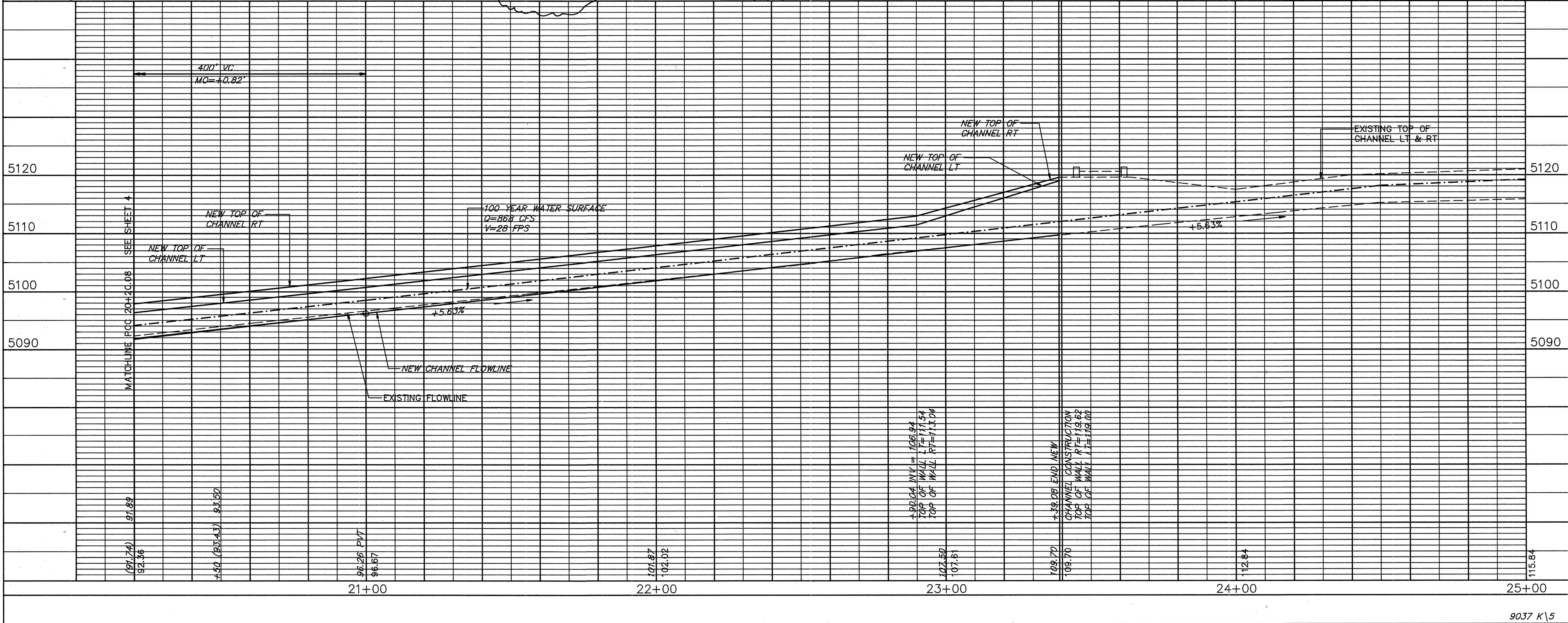
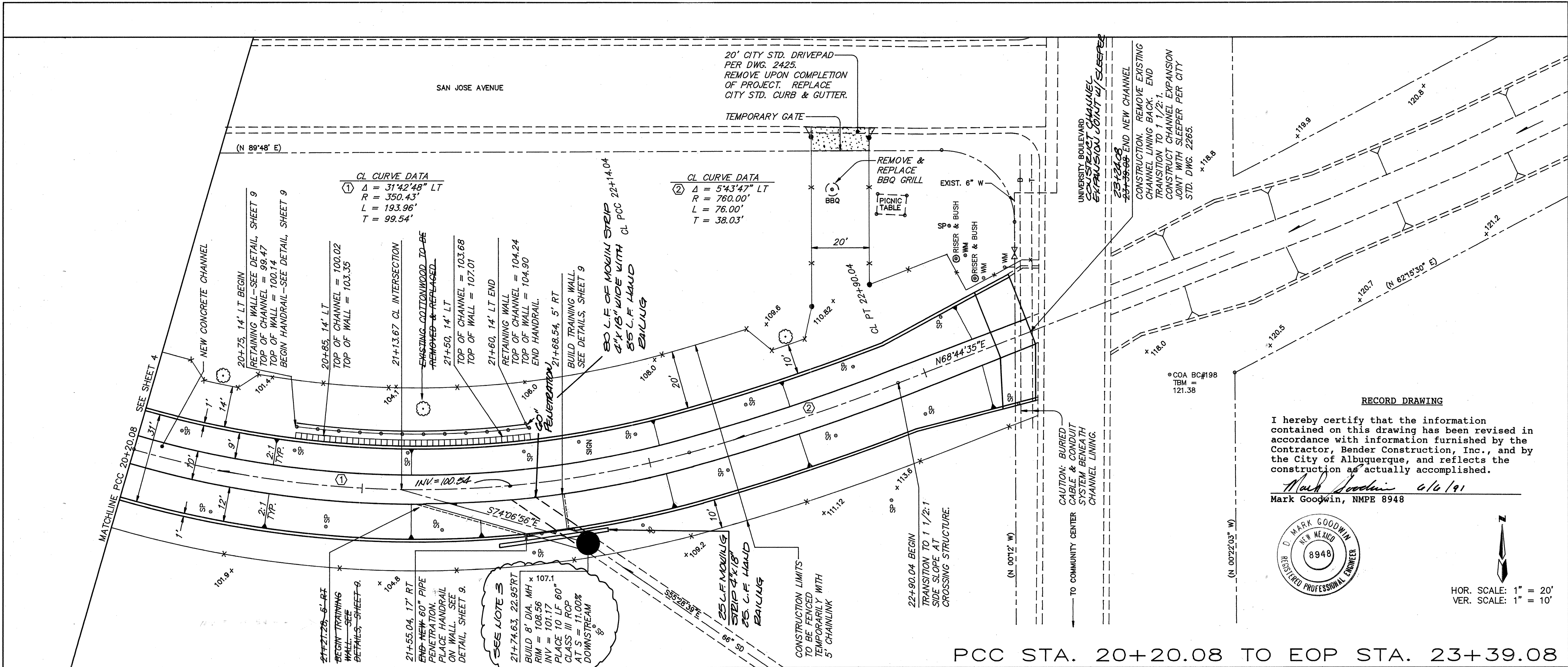
PROJECT NO. 4155.90 MAP NO. M15 SHEET 4 OF 9

SURVEY INFORMATION		FIELD NOTES	
NO.	BY	DATE	BY



ENGINEER'S SEAL		REVISIONS	
NO.	DATE	REMARKS	BY

DESIGNED BY	DMG	DATE	8/90
DRAWN BY	DMG	DATE	8/90
CHECKED BY	DMG	DATE	8/90



NOTES

1. THE REMOVAL AND REPLACEMENT OF THE EXISTING BBQ GRILL SHALL BE INCIDENTAL TO THE CONTRACT AND SHALL BE INCLUDED IN THE CONTRACT PRICE.

2. COST OF REMOVAL OF THE 20' DRIVEPAD AND PLACEMENT OF NEW CITY STD. CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF THE DRIVEPAD AS INDICATED IN THE BID PROPOSAL.

3. PROPOSED 8" DIA. M.H. WITH 10 L.F. OF 60" RCP WAS DELETED: SEE C.O.A. CHANGE ORDER #2.

RECORD DRAWING

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Mark Goodwin 6/6/91
Mark Goodwin, NMPE 8948

6/6/91

AS BUILT INFORMATION

CONTRACTOR: *BENDER CONSTRUCTION, INC.*

WORK: *KIRTLAND CHANNEL IMPROVEMENTS*

STAMPED BY: *MGA* DATE: *3/91*

DATE: *3/91*

FIELD NOTES: *MGA*

DATE: *6/91*

DRAWINGS: *MGA*

DATE: *6/91*

CORRECTIONS: *MGA*

DATE: *6/91*

RECORDED BY: *MGA*

DATE: *6/91*

NO. *5038-509*

ENGINEER'S SEAL

NO. DATE REMARKS REVISIONS DESIGN

DESIGNED BY *DWG* DATE *8/90*

DRAWN BY *BUG* DATE *8/90*

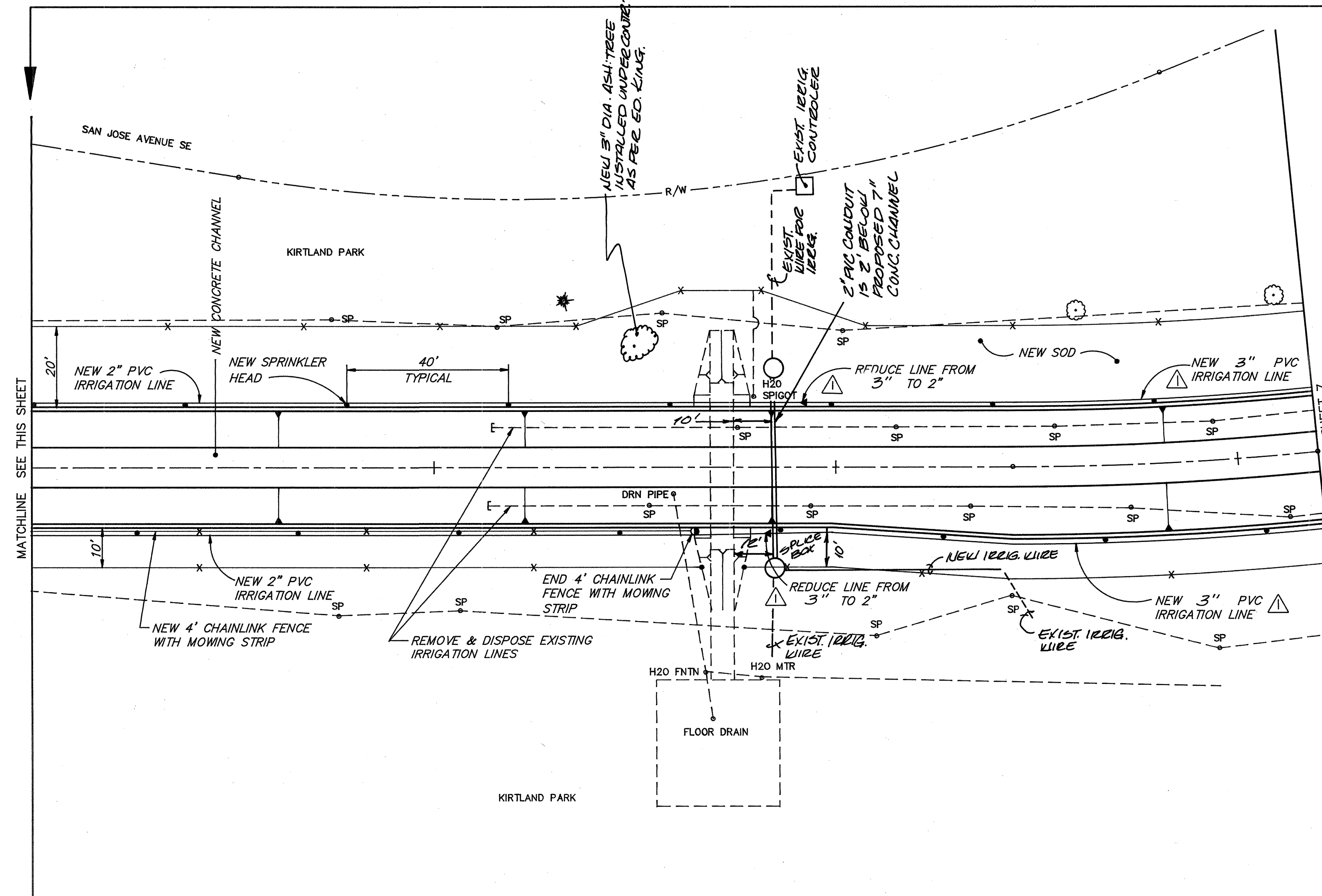
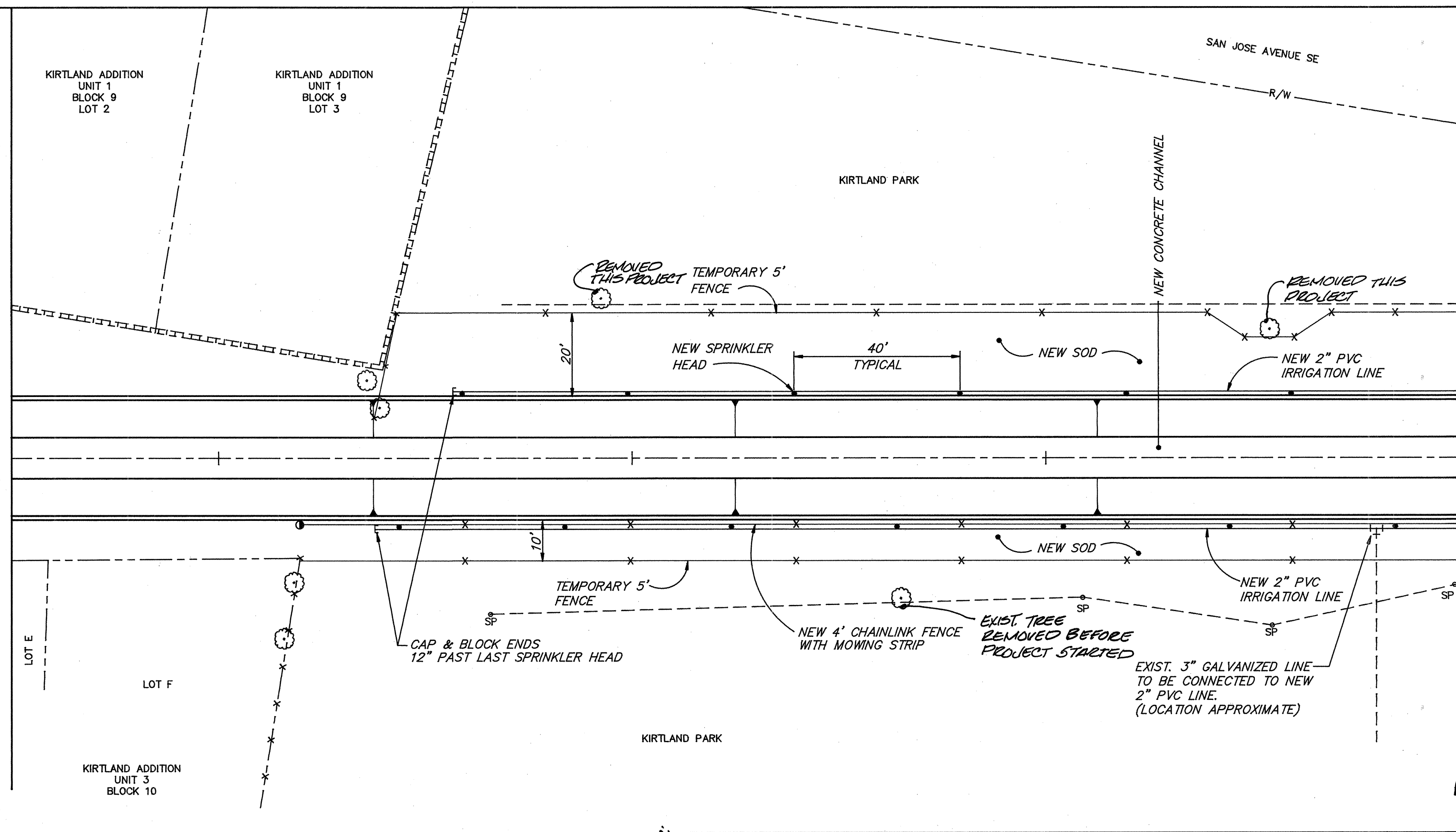
CHECKED BY *DWG* DATE *8/90*

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: KIRTLAND CHANNEL IMPROVEMENTS
PCC STA. 20+20.08 TO EOP STA. 23+39.08

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R.W. Kane</i>	<i>11/3/90</i>	WATER	<i>R.W. Kane</i>	<i>11-1-90</i>
TRANSPORTATION	<i>D. W. Hamlin</i>	<i>11/1/90</i>	WASTE WATER	<i>R.W. Kane</i>	<i>11-1-90</i>
HYDROLOGY	<i>D. W. Hamlin</i>	<i>11-1-90</i>		<i>D. Seema</i>	<i>11-9-90</i>

PROJECT NO. *4155.90* MAP NO. *M15* SHEET *5* OF *9*



HOR. SCALE: 1" = 20'



RECORD DRAWING

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Mark Goodwin 6/6/91
Mark Goodwin, NMPE 8948

LANDSCAPING LEGEND

○	FENCE POST
●	NEW SPRINKLER HEAD
⊙	EXISTING SPRINKLER HEAD
—	FENCING
⊗	EXISTING TREE

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

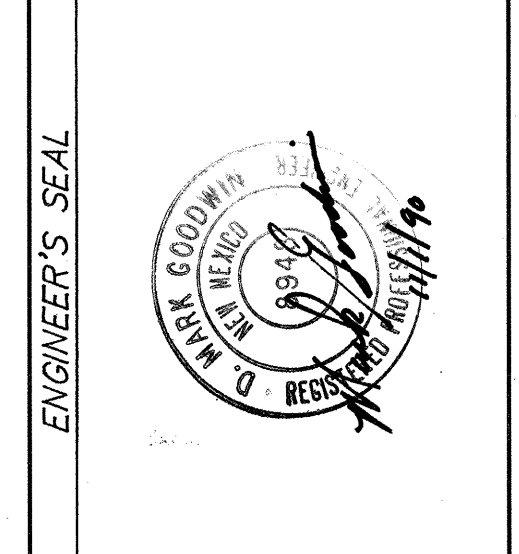
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

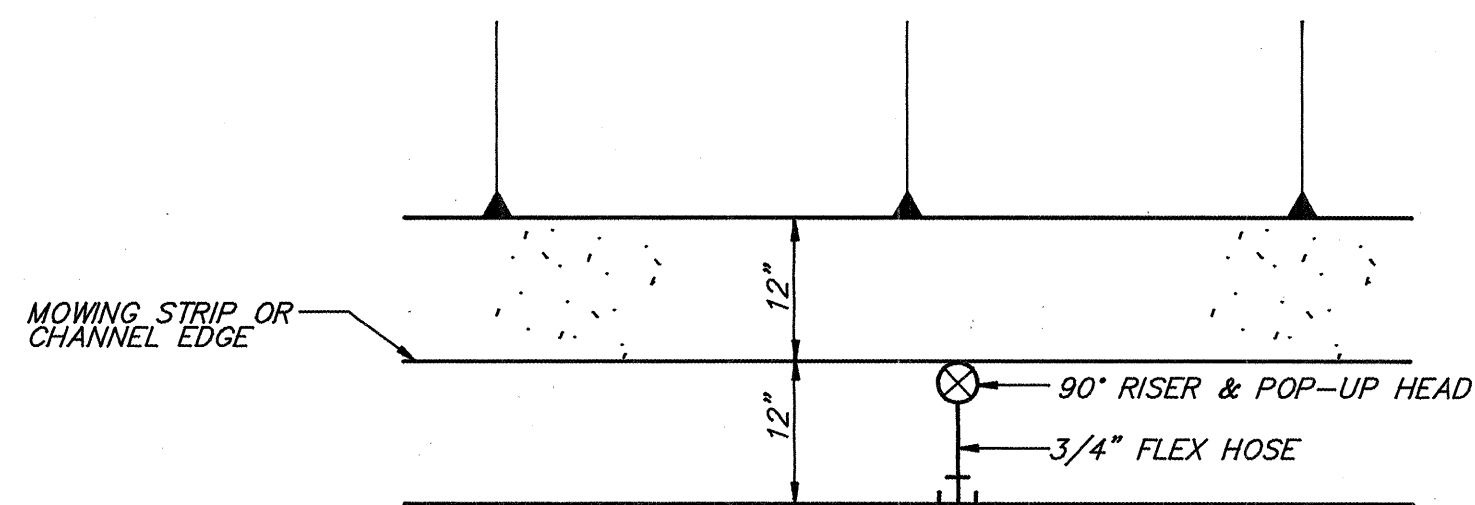
TITLE: KIRTLAND CHANNEL IMPROVEMENTS LANDSCAPING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. W. Kane</i>	11/13/90	WATER	<i>R. W. Kane</i>	11-1-90
TRANSPORTATION	<i>D. W. Kane</i>	11/1/90	WASTE WATER	<i>R. W. Kane</i>	11-1-90
HYDROLOGY	<i>D. W. Kane</i>	11-5-90	PAVING	<i>D. W. Kane</i>	11-9-90

PROJECT NO.	4155.90	MAP NO.	M15	SHEET	61	OF	9
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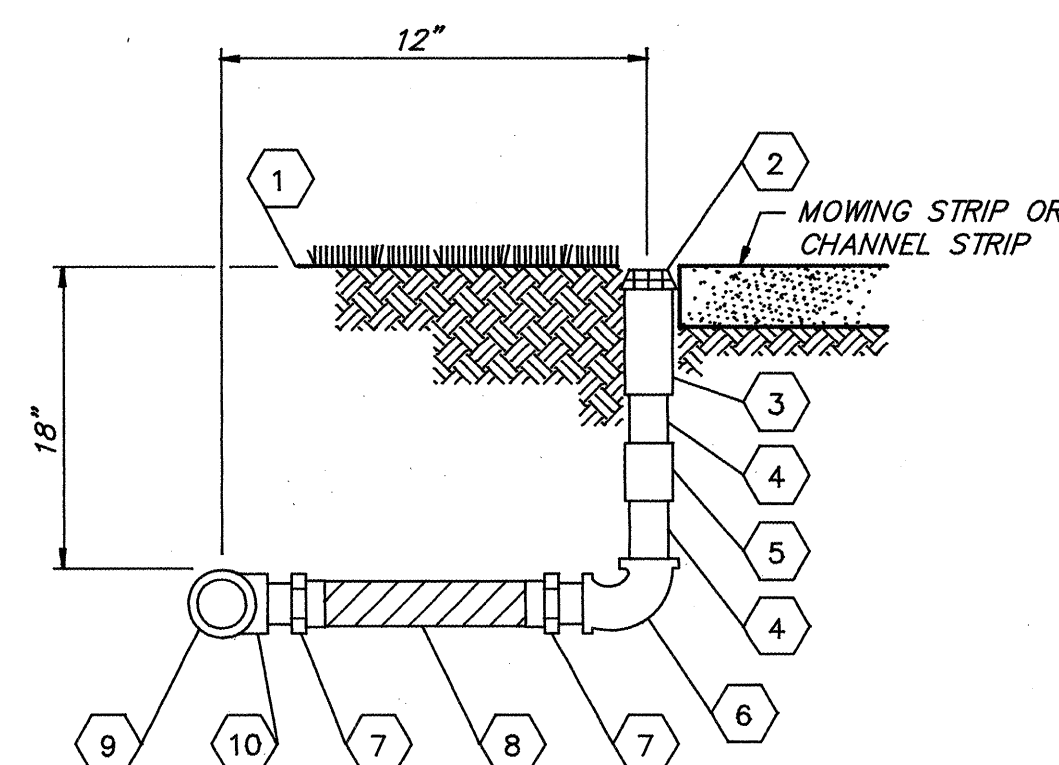
SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	THE STATION MARK IS A STANDARD NMHC BRASS TABLET STAMPED, "STA 1-25-30", SET IN TOP OF A CONCRETE POST PROJECTING 0.2 FT. ABOVE GROUND. THE STATION IS LOCATED 1.8 MILES SOUTH OF DOWNTOWN ALBUQUERQUE, AT THE NORTHWEST CORNER OF THE HWY. 1-25 BRIDGE CROSSING OVER MILES ROAD (GIBSON BOULEVARD).	CONTRACTOR	DATE
				BENDER CONST. INC.	11/9/91
				DESIGNED BY	DATE
				REVISIONS	DATE
				CORRECTED BY	DATE
				RECORDED BY	DATE
				NO.	5038.509
				Y	1,477,272.06
				Z	5038.509



NO.	DATE	REVISIONS	DESIGN	DATE
1	11/9/90	CHANGE 3/8" TO 3"	BY	11/9/90
2	11/9/90	REMARKS	BY	11/9/90
3	11/9/90	REVISIONS	BY	11/9/90
4	11/9/90	DESIGN	BY	11/9/90
5	11/9/90	DESIGN	BY	11/9/90
6	11/9/90	DESIGN	BY	11/9/90
7	11/9/90	DESIGN	BY	11/9/90
8	11/9/90	DESIGN	BY	11/9/90
9	11/9/90	DESIGN	BY	11/9/90
10	11/9/90	DESIGN	BY	11/9/90
11	11/9/90	DESIGN	BY	11/9/90
12	11/9/90	DESIGN	BY	11/9/90
13	11/9/90	DESIGN	BY	11/9/90
14	11/9/90	DESIGN	BY	11/9/90
15	11/9/90	DESIGN	BY	11/9/90



SCALE: NONE

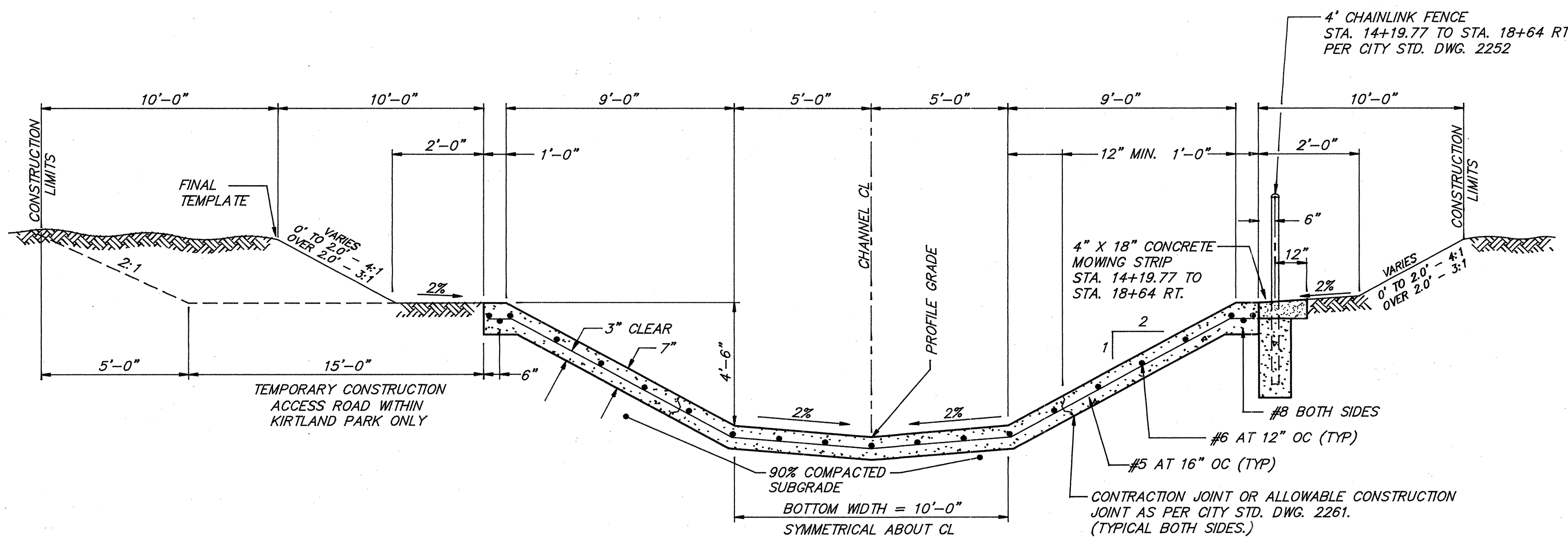


SCALE: NONE

- NOTE: FLEX CEMENT MUST BE USED AT FLEX HOSE & PVC CONNECTION

Mark Goodwin 6/6/91
Mark Goodwin, NMPE 8948

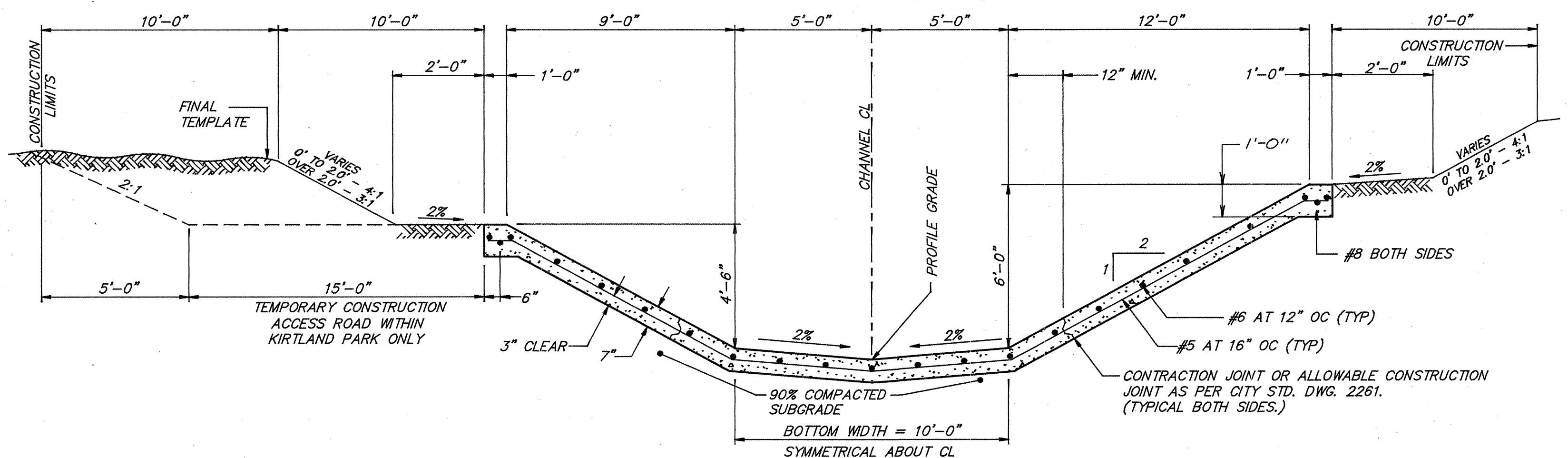
ADDENDUM NO. 1



TYPICAL CHANNEL SECTION — STA. 10+60 TO STA. 18+99.08

NOTE: LONGITUDINAL CONTRACTION JOINT AND/OR ALLOWABLE CONSTRUCTION JOINT LOCATIONS PER CITY STANDARD DRAWING 2261

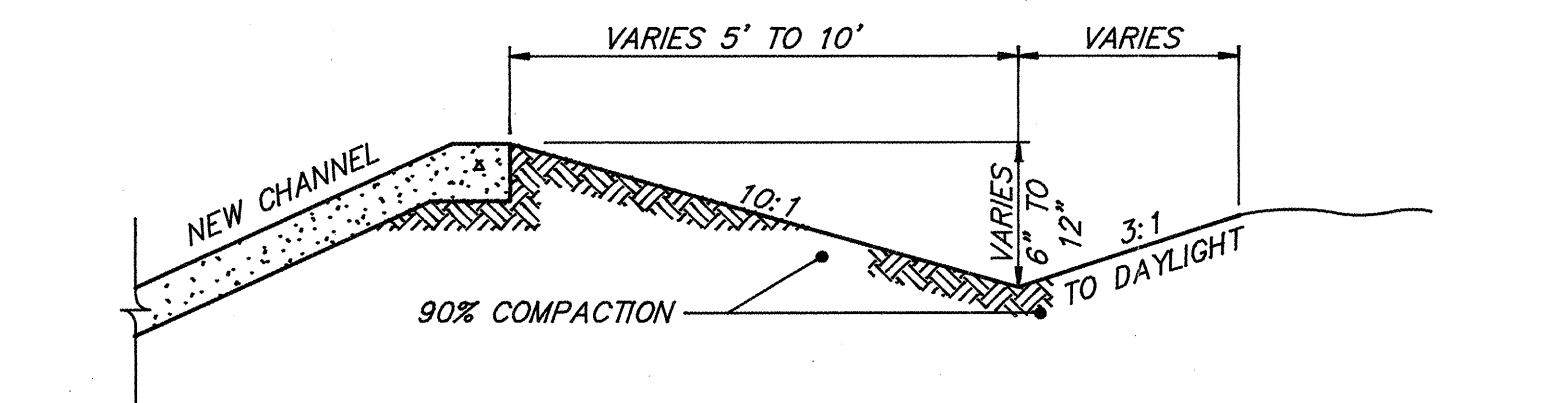
SCALE: NONE



TYPICAL CHANNEL SECTION — STA. 19+44.08 TO STA. 22+90.04

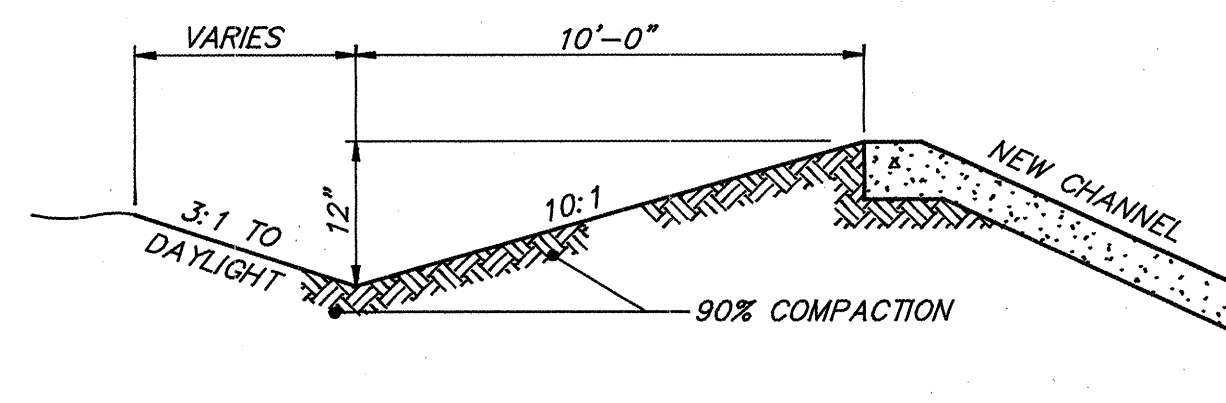
NOTE: LONGITUDINAL CONTRACTION JOINT AND/OR ALLOWABLE CONSTRUCTION JOINT LOCATIONS PER CITY STANDARD DRAWING 2261

SCALE: NONE



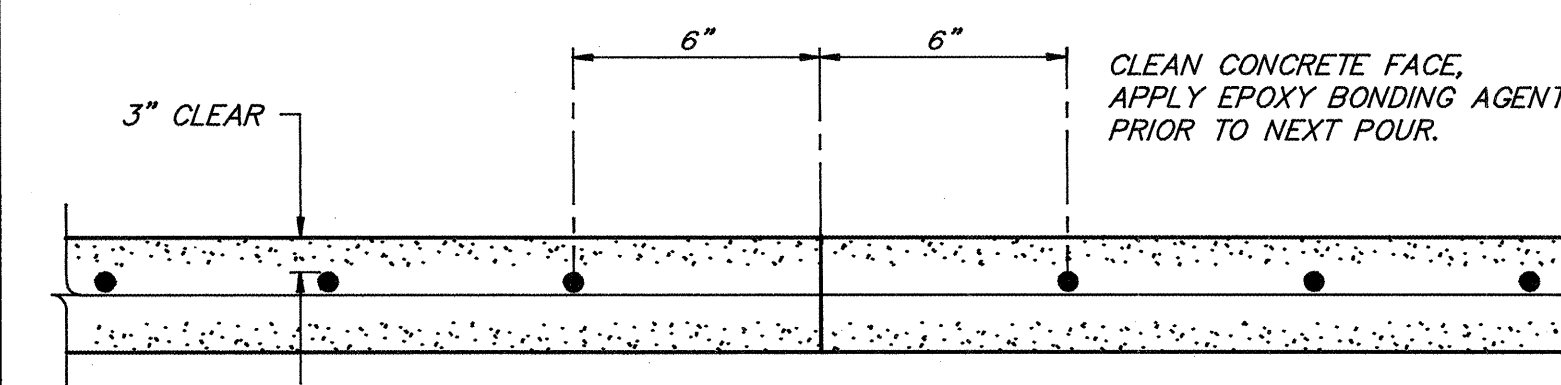
**TYPICAL DITCH — RIGHT SIDE
STA. 10+00 TO STA. 14+19.77**

SCALE: NONE



**TYPICAL DITCH — LEFT SIDE
STA. 10+00 TO 14+39.71**

SCALE: NONE



CONSTRUCTION JOINT DETAIL

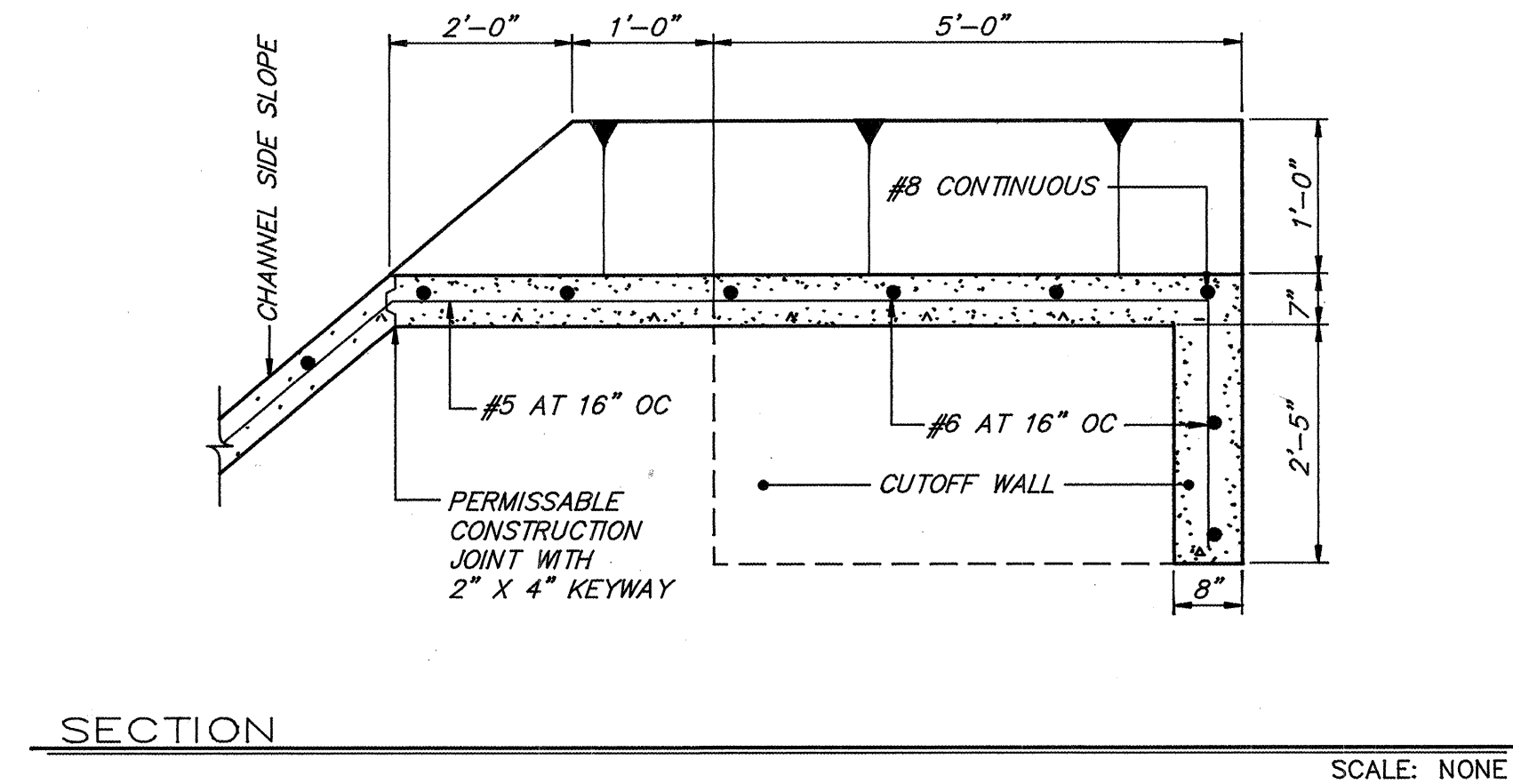
AS REQUIRED BY CHANNEL CONSTRUCTION

SCALE: NONE

RECORD DRAWING

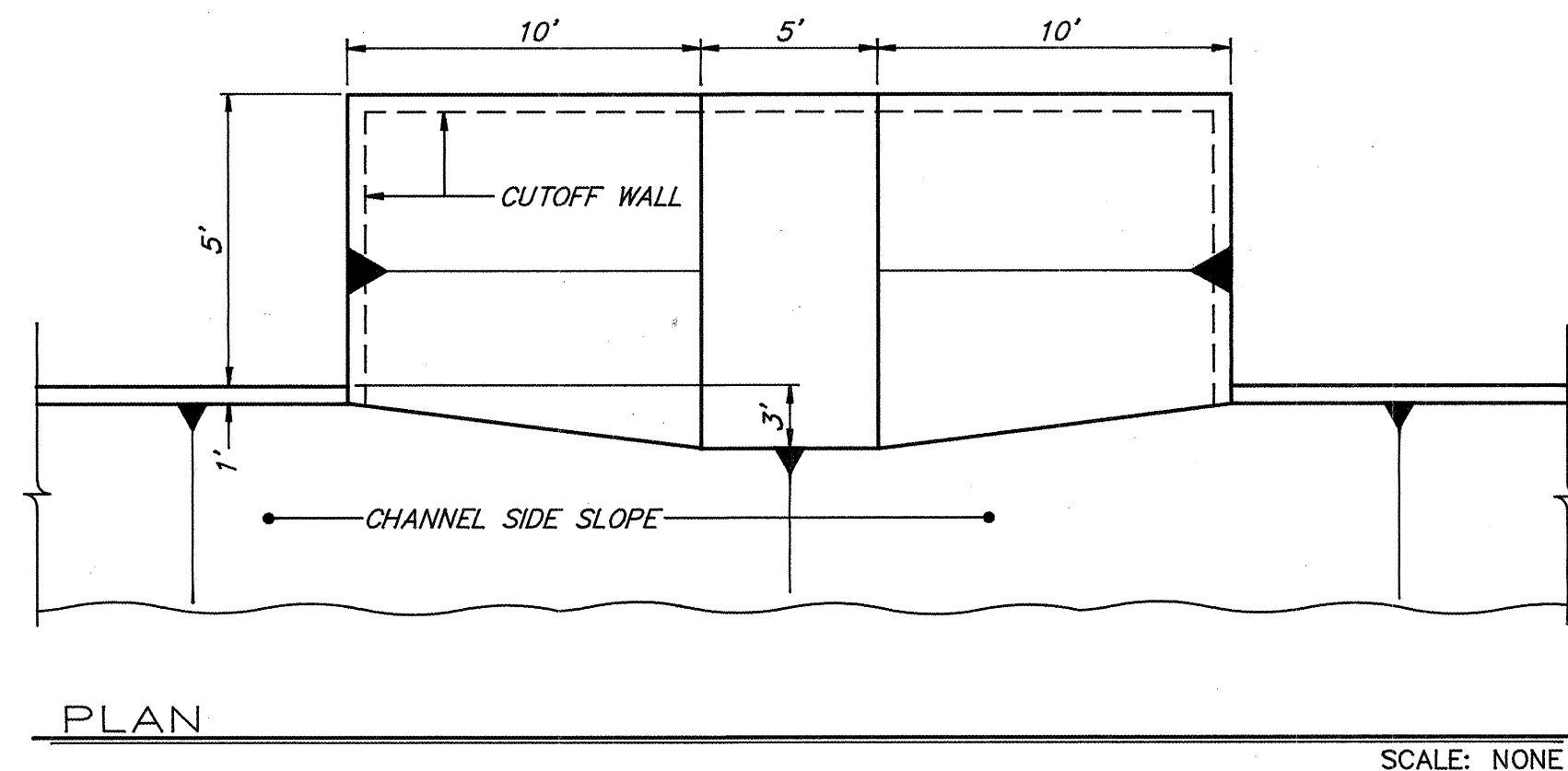
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Mark Goodwin, NMPE 8948



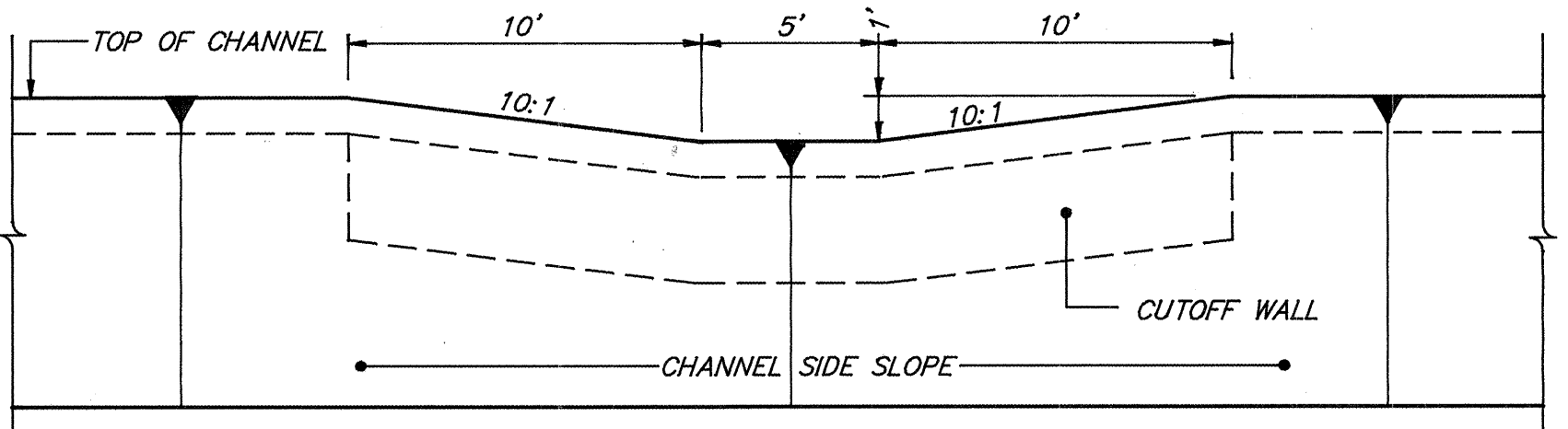
SECTION

SCALE: NONE



PLAN

SCALE: NONE



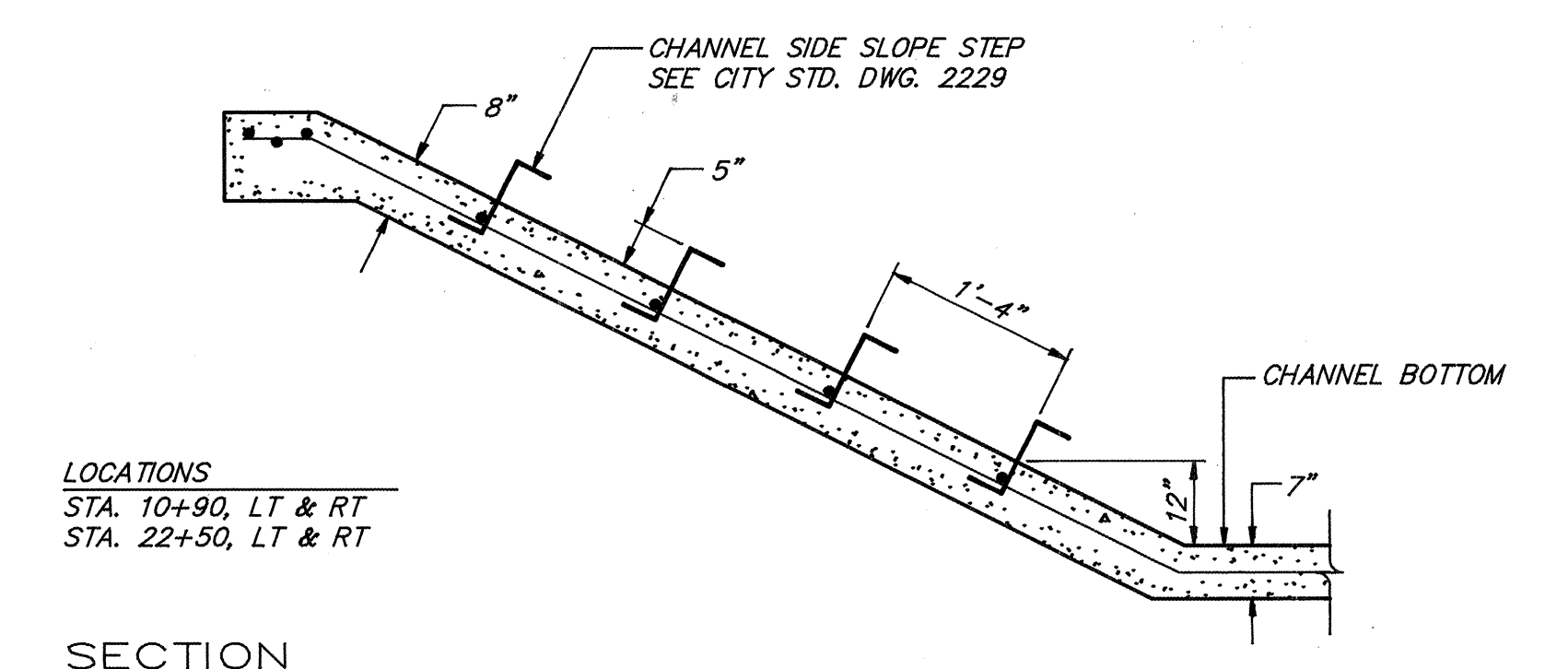
PROFILE

SCALE: NONE

CHANNEL RUNDOWN DETAILS

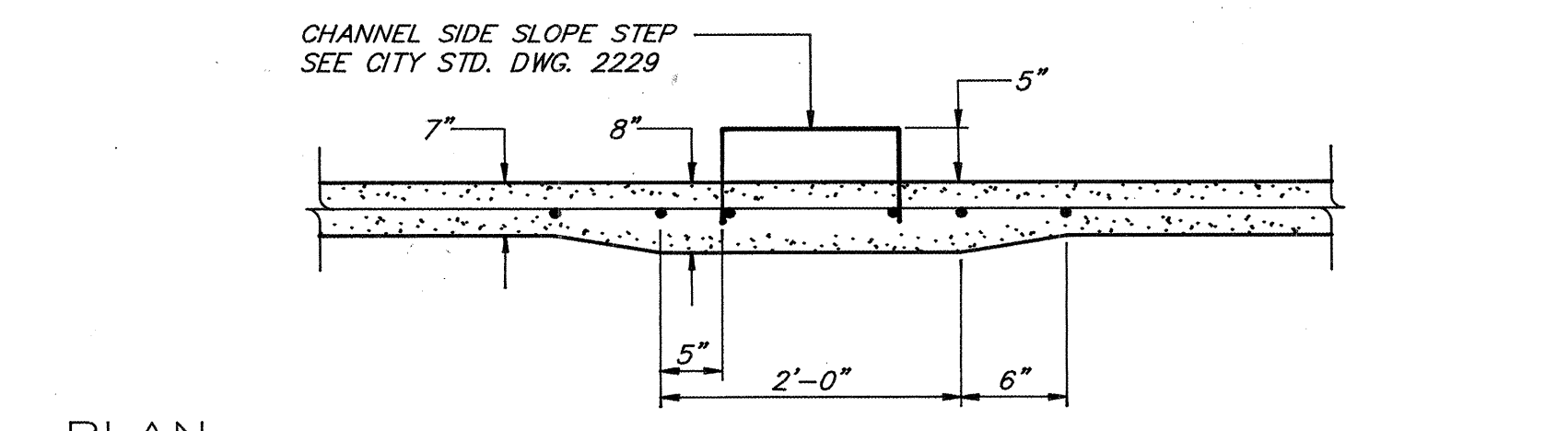
NOTE: SEE PLAN & PROFILE SHEETS FOR APPROPRIATE SPOT ELEVATIONS.

SCALE: NONE



SECTION

SCALE: NONE



PLAN

SCALE: NONE

CHANNEL LADDER DETAILS

SCALE: NONE

- NOTES**
- ALL CONCRETE EDGES SHALL BE CHAMFERED 3/4".
 - ALL REINFORCING STEEL SHALL BE SUPPORTED ON 3 1/2" SAND CHAIRS AT 5' SPACING MAXIMUM.
 - EXPANSION JOINTS WITH SLEEPER ARE TO BE PLACED WHERE NEW CONCRETE CHANNEL TIES TO EXISTING CONCRETE CHANNELS.
1. ALL CONC. WAS EDGED WITH 3/4" TOOLED EDGER.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 9155.900891

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
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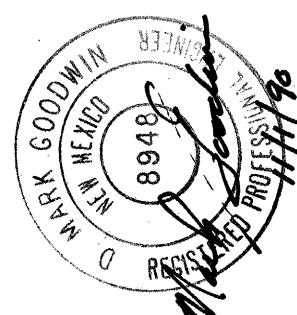
**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: KIRTLAND CHANNEL IMPROVEMENTS
MISCELLANEOUS DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. Kane</i>	11/13/90	WATER	<i>R.W. Kane</i>	11-1-90
TRANSPORTATION	<i>D. Scina</i>	11/1/90	WASTE WATER	<i>R.W. Kane</i>	11-1-90
HYDROLOGY	<i>D. Scina</i>	11-5-90	<i>Pauls</i>	<i>D. Scina</i>	11-9-90

PROJECT NO. 4155.90 MAP NO. M15 SHEET 8 OF 9

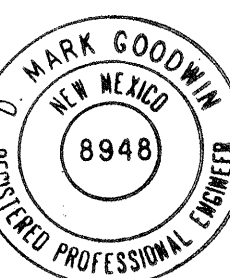
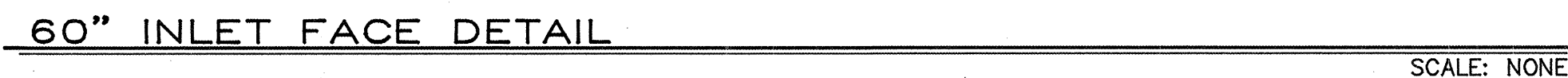
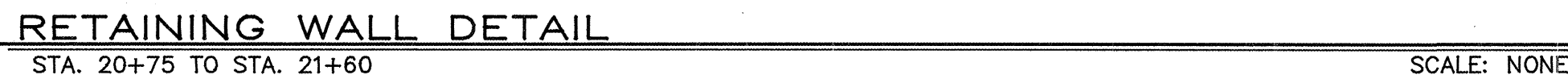
AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	BECKER CONST. INC.	WORK STATION	14+60	THE STATION MARK IS A STANDARD INCH BRASS TABLET	STAMPED, "STA 1-25-30", SET IN TOP OF A CONCRETE POST PROJECTING 0.2 FT. ABOVE GROUND. THE STATION IS LOCATED 1.8 MILES SOUTH OF DOWNTOWN ALBUQUERQUE, AT THE NORTHWEST CORNER OF THE HWY. 1-25 BRIDGE CROSSING OVER MILES ROAD (GIBSON BOULEVARD).	DATE	9/91	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
DESIGNED BY	DMG	FIELD CHECKED BY	DMG	DATE	9/91	NO.	DATE	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
RECORDED BY	DMG	DATE	6/91	DATE	6/91	NO.	DATE	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
NO.	5038.509	NO.	5038.509	NO.	5038.509	NO.	5038.509	NO.	5038.509	NO.	5038.509	NO.	5038.509	NO.	5038.509



NO.	DATE	REVISIONS	DESIGN	DATE	DATE
1	8/90	DMG	DMG	8/90	8/90
2	8/90	DMG	DMG	8/90	8/90

PROJECT NO.	MAP NO.	SHEET	OF
4155.90	M15	8	9

9037 K\TYPA



EXPANSION JOINT DETAIL

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: KIRTLAND CHANNEL IMPROVEMENTS
MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Roger Green</i>	<i>11/3/90</i>	WATER	<i>R.W. Kane</i>	<i>11-1-90</i>
TRANSPORTATION	<i>Paula Hyman</i>	<i>11/1/90</i>	WASTE WATER	<i>R.W. Kane</i>	<i>11-1-90</i>
HYDROLOGY	<i>J. C. Cunniff</i>	<i>11-5-90</i>	<i>Park</i>	<i>D. Scud</i>	<i>11-9-90</i>

PROJECT NO.	4155.90	MAP NO.	M15	SHEET	9	OF	9
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