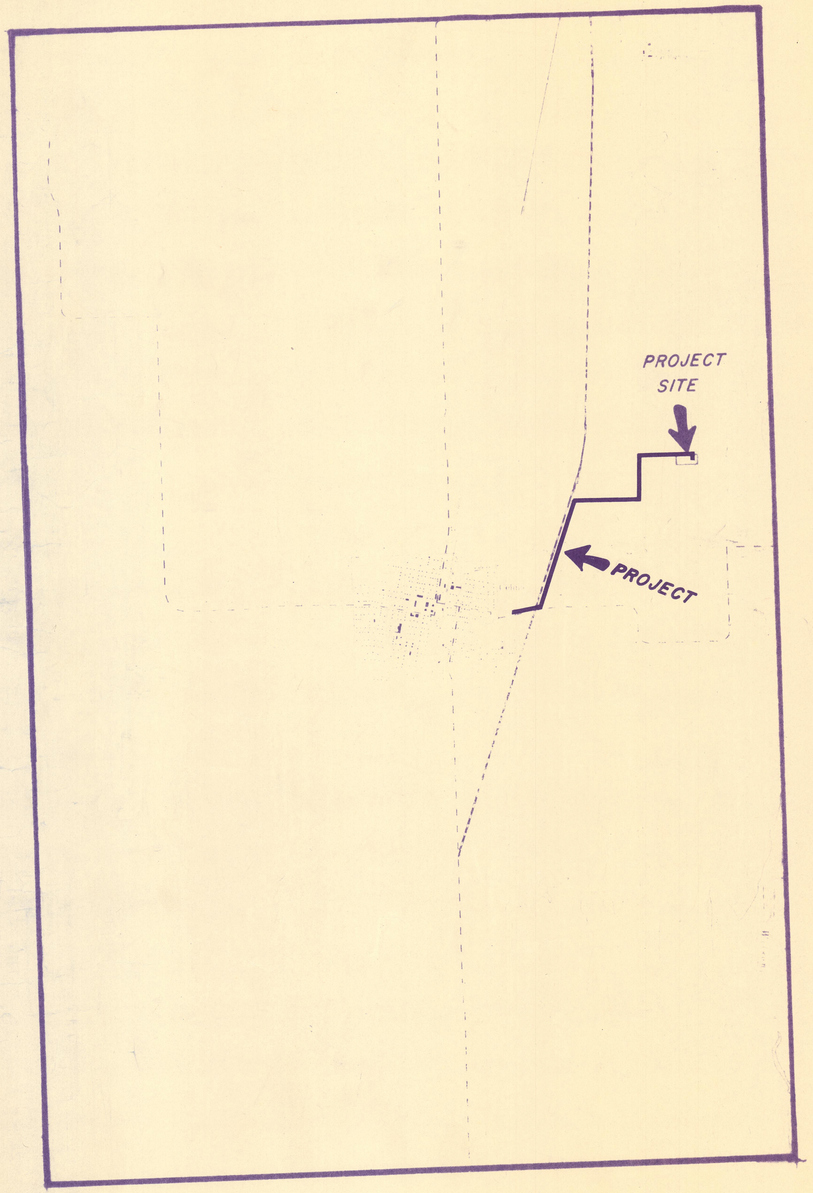
#4



CITY OF CELINA, TEXAS

CONTRACT NO. 2

WATER MAIN AND APPURTENANCES

MAYOR — LLOYD RUCKER

— CITY COUNCIL —

JUDY CROWDER
RANDY GRUMBLES
MARY LAWSON
JERRY LEHEW
BILL STELZER

PUBLIC WORKS SUPERINTENDENT - FRANK SVABODA

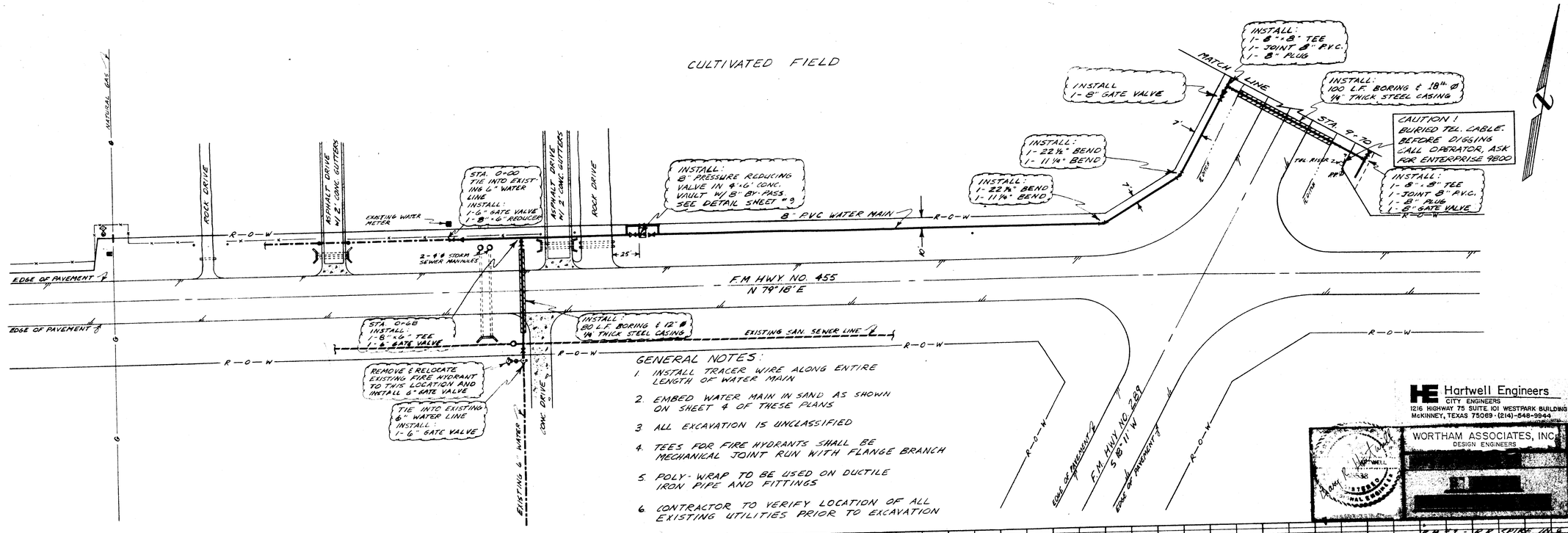
CITY SECRETARY - JULIA GARY

NOVEMBER, 1986

Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 · (214)-548-9944

WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS

Water main up to CR 96 well



GENERAL NOTES:

1. INSTALL TRACER WIRE ALONG ENTIRE LENGTH OF WATER MAIN
2. EMBED WATER MAIN IN SAND AS SHOWN ON SHEET 4 OF THESE PLANS
3. ALL EXCAVATION IS UNCLASSIFIED
4. TEES FOR FIRE HYDRANTS SHALL BE MECHANICAL JOINT RUN WITH FLANGE BRANCH
5. POLY-WRAP TO BE USED ON DUCTILE IRON PIPE AND FITTINGS
6. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION

Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 - (214)-548-3944
WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS

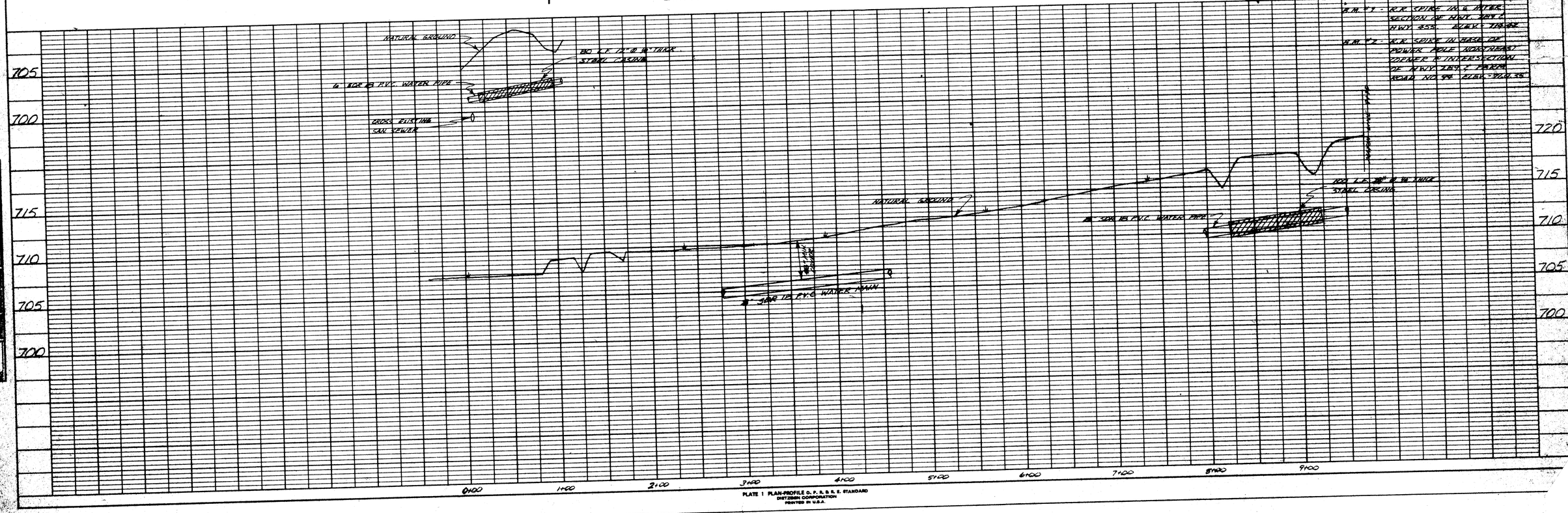
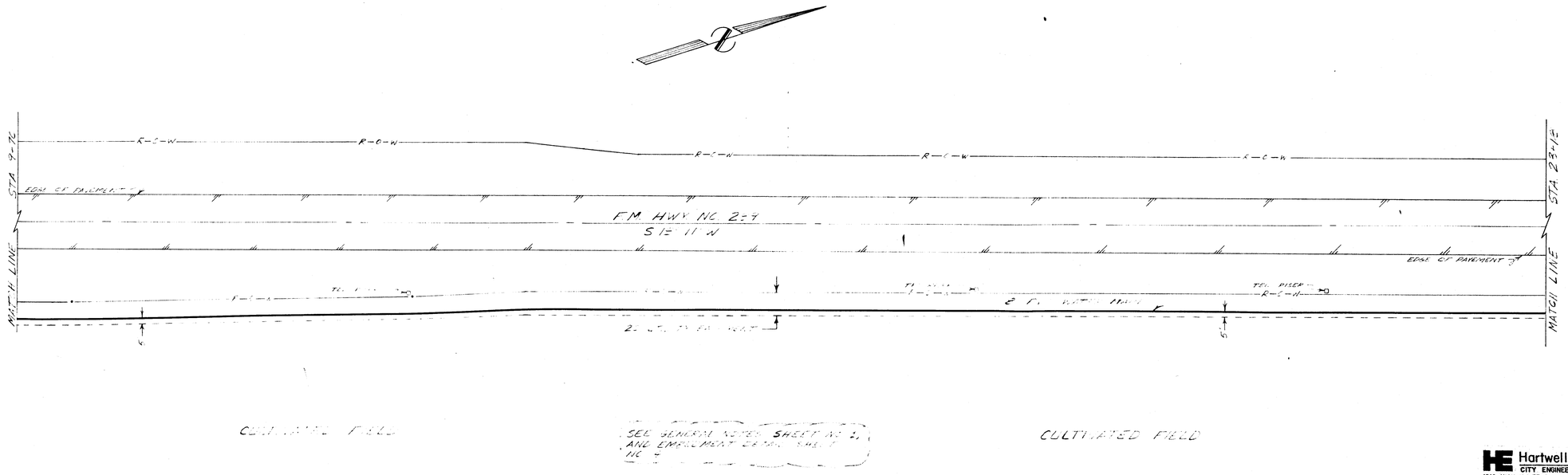


PLATE 1 PLAN-PROFILE O. P. & B. & E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.



Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 · (214)-548-9944

WORTHAM ASSOCIATES, INC. DESIGN ENGINEERS	DATE: FEB. 1986	
CITY OF CELINA, TX	SCALE: 1"=50' HOR. 1"=5' VER.	
8" WATER TRANSMISSION LINE	DESIGNED: J.R.W.	
	DRAWN: A.W.S.	
	CHECKED: J.R.W.	
	JOB NO.	
	SHEET 2 OF 10	

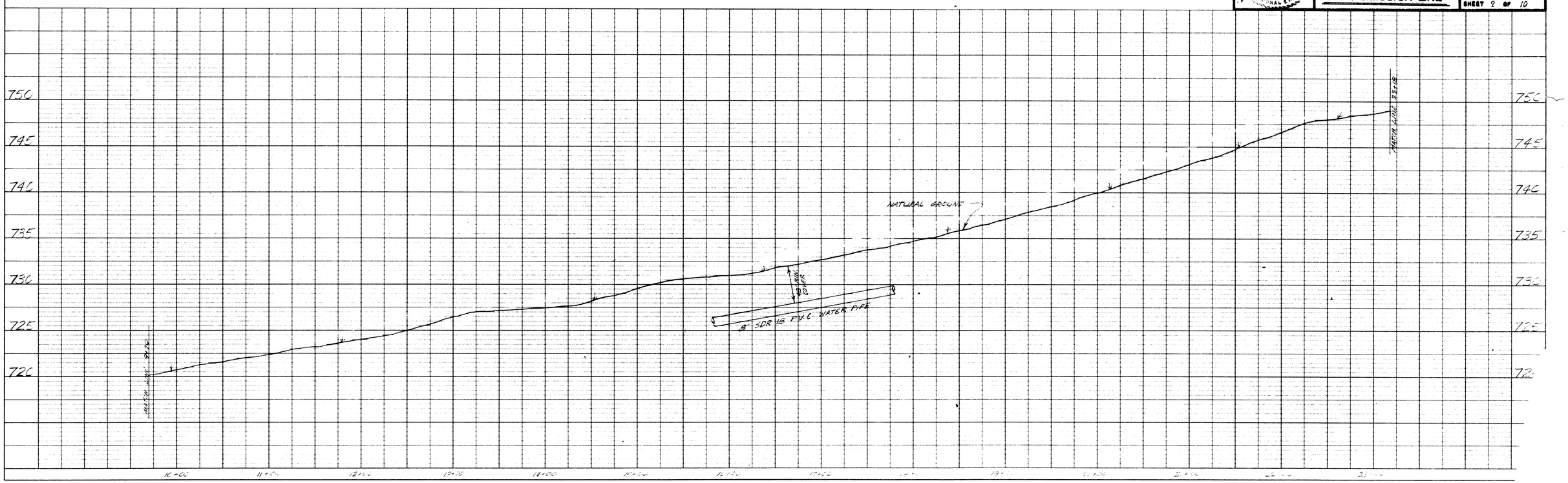
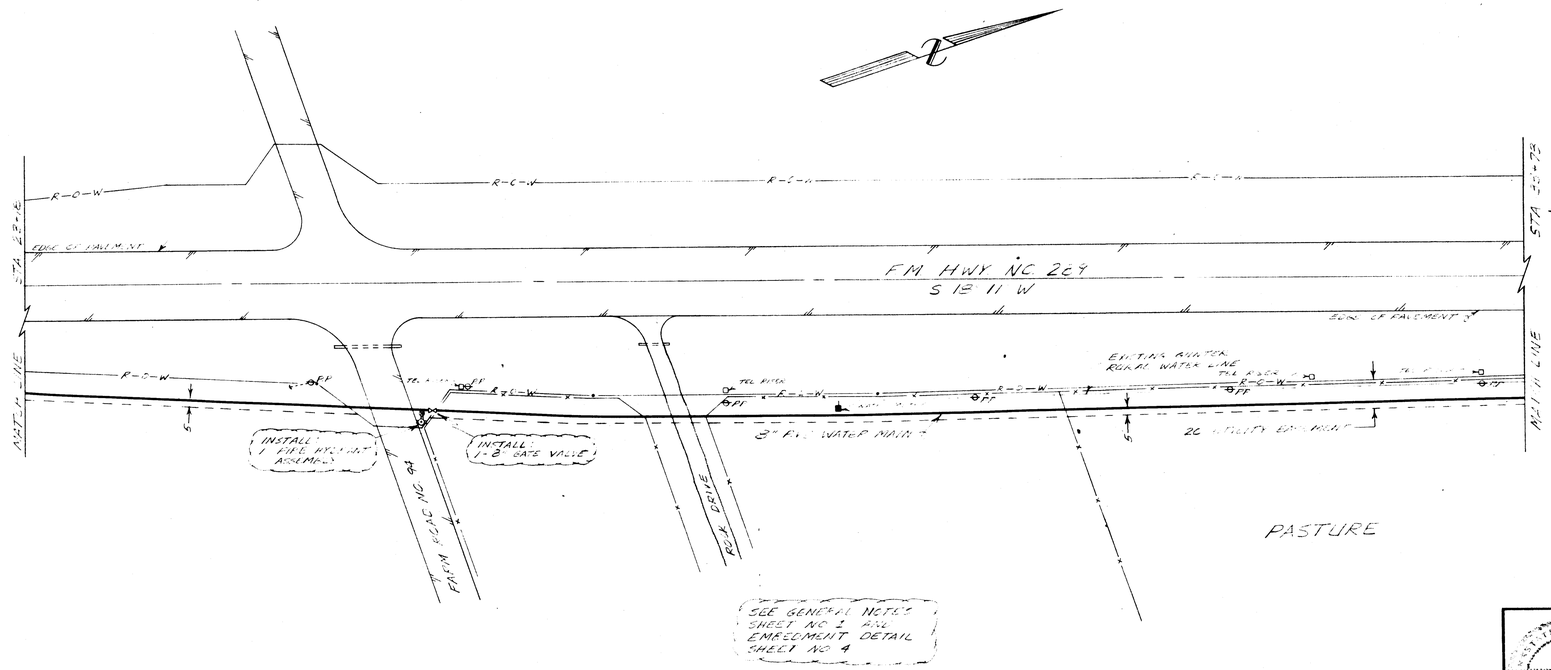


PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.

PLAN — NOTE BOOK No. — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — BY — DATE

PROFILE — NOTE BOOK No. — SURVEYED — PLOTTED — GRADES CHECKED — B.M.'s NOTED — STRUCTURE NOTATIONS CHECKED — BY — DATE



Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 · (214)-548-9944

WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS

CITY OF CELINA, TX

8" WATER TRANSMISSION LINE

DATE:	[illegible]
SCALE:	[illegible]
DESIGNED:	[illegible]
DRAWN:	[illegible]
CHECKED:	[illegible]
JOB NO.	
SHEET	3 OF 10

PLAN		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
No.			

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B. M.'s NOTED		
No.	STRUCTURE NOTATIONS CHECKED		

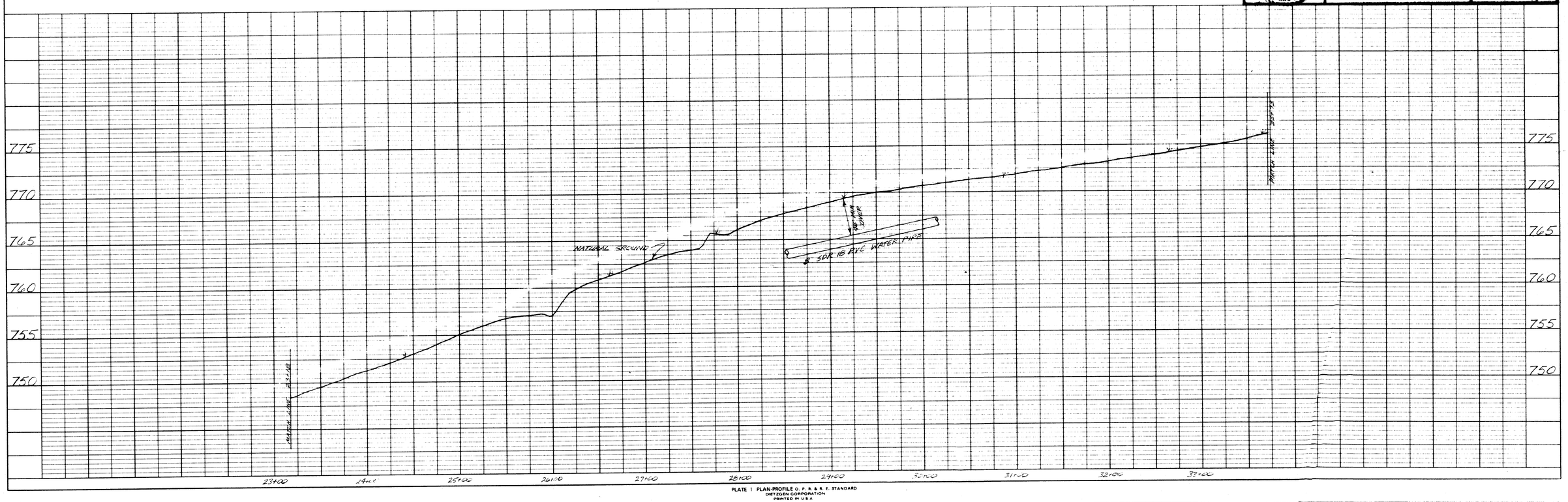
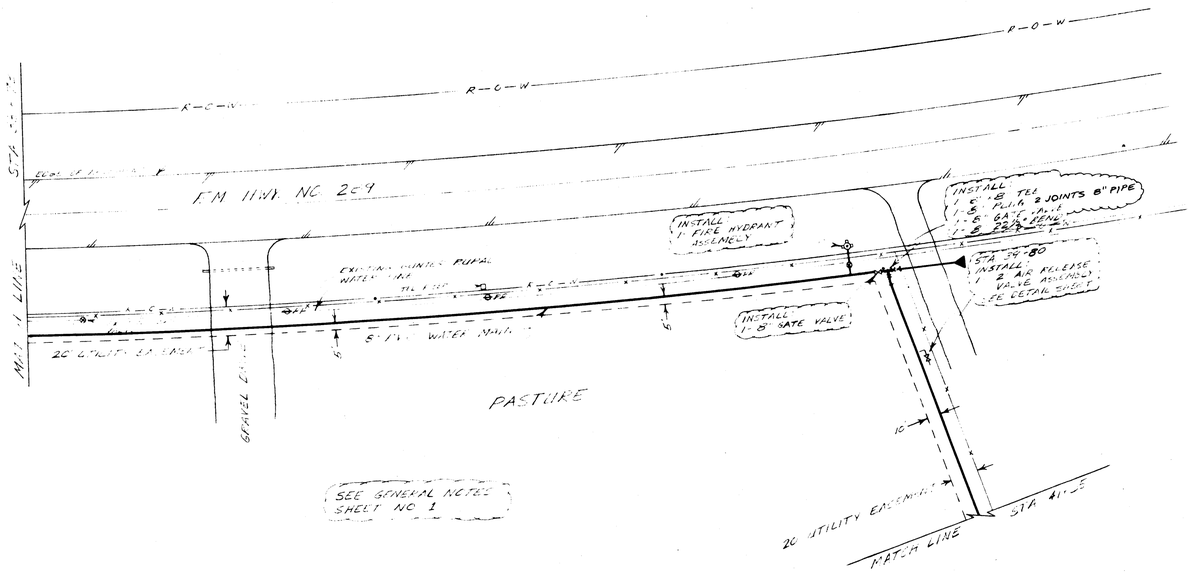
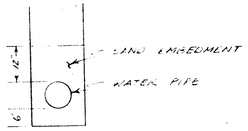
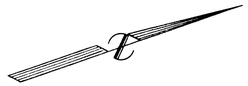


PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.





WATER LINE EMBEDMENT DETAIL
NO SCALE



Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 · (214)-548-9944

WORTHAM ASSOCIATES, INC. DESIGN ENGINEERS	DATE: F.E.B. 1966
CITY OF CELINA, TX	SCALE: [illegible]
8" WATER TRANSMISSION LINE	DESIGNED: [illegible]
	DRAWN: [illegible]
	CHECKED: J.R.W.
	JOB NO.
	SHEET 4 OF 10

PLAN	
NOTE BOOK	SURVEYED
No.	PLOTTED
	ALIGNMENT CHECKED
	RT. OF WAY CHECKED
	BY
	DATE

PROFILE	
NOTE BOOK	SURVEYED
No.	PLOTTED
	GRADES CHECKED
	B. M.'s NOTED
	STRUCTURE NOTATIONS CHECKED
	BY
	DATE

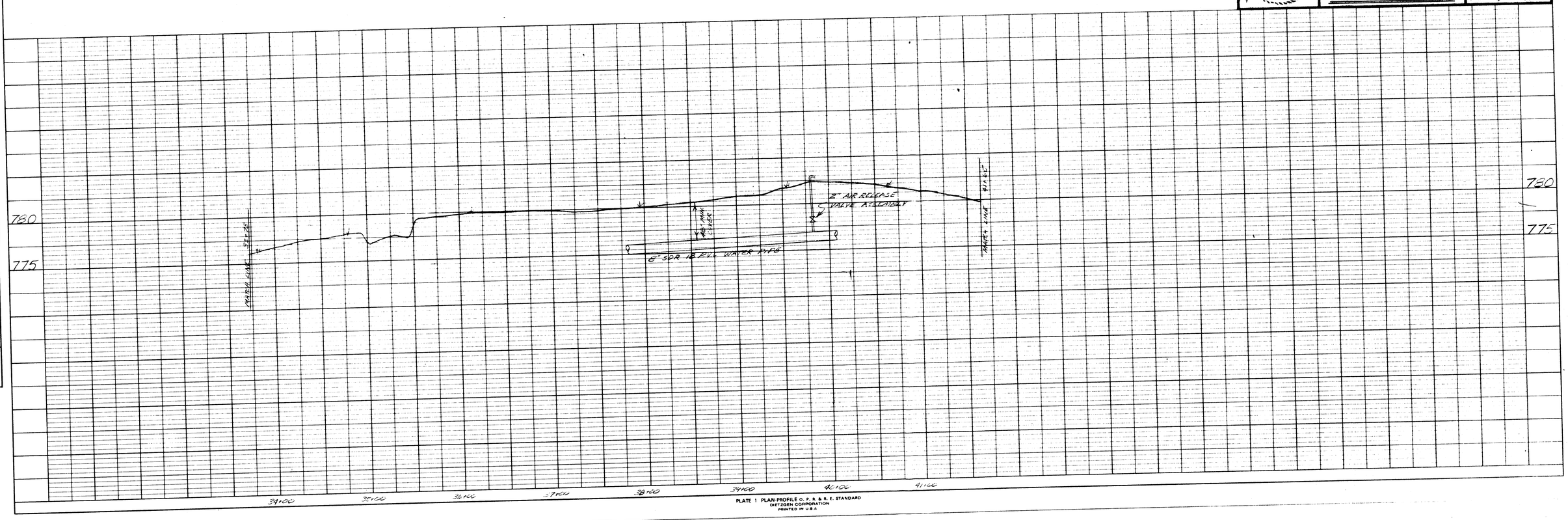
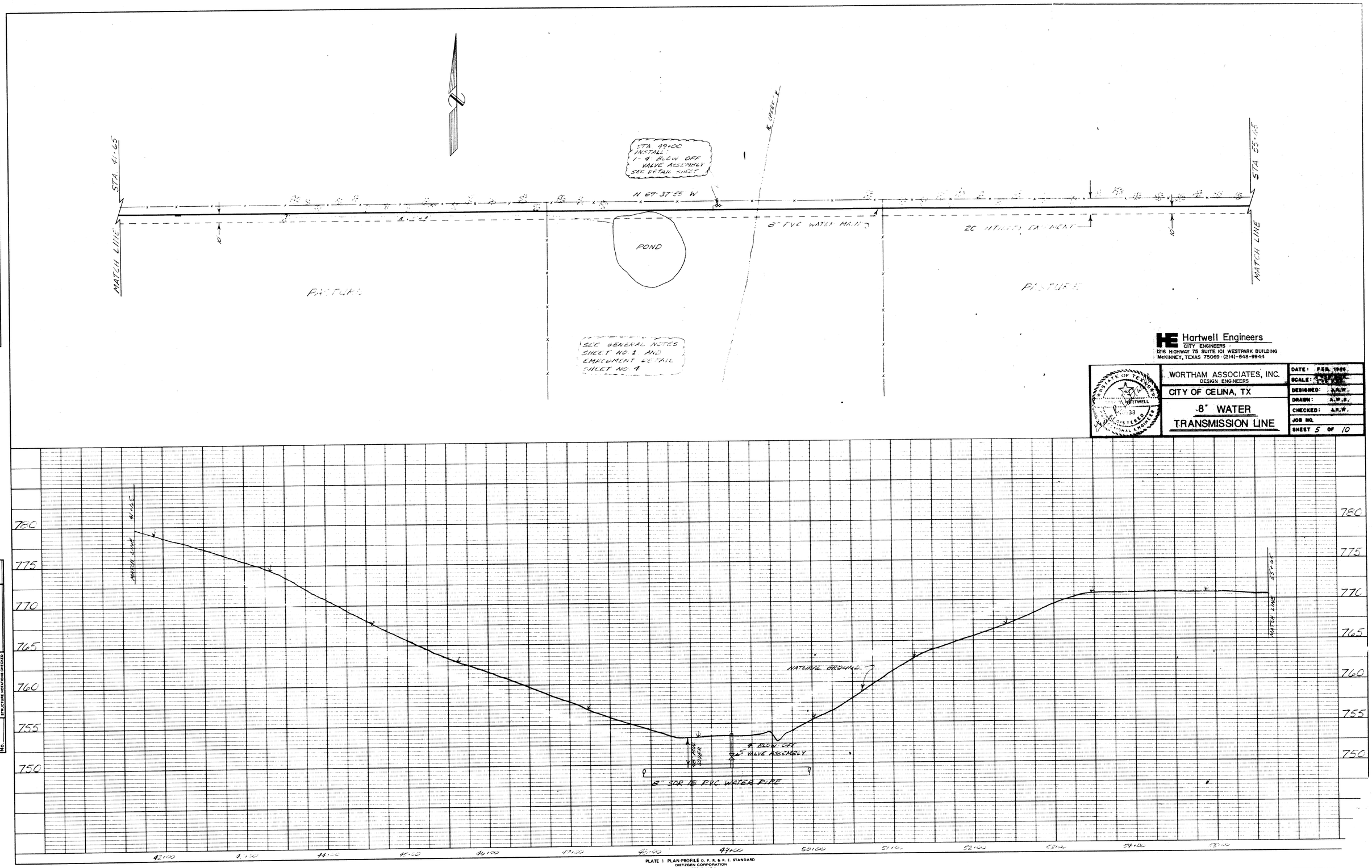
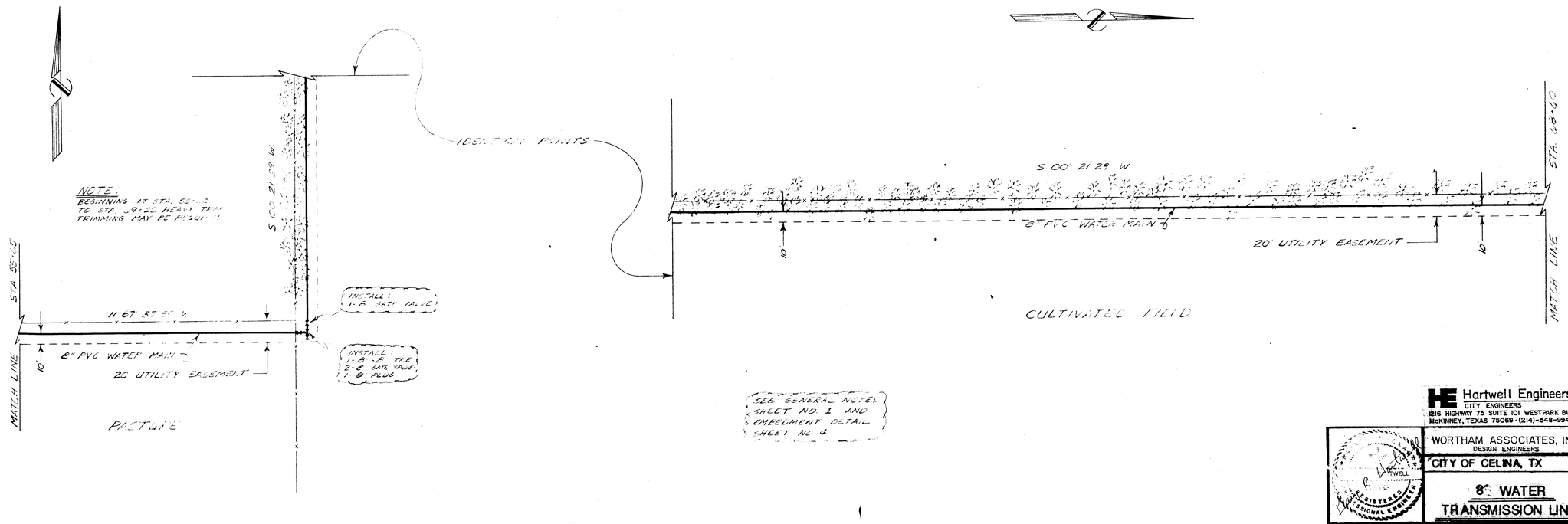
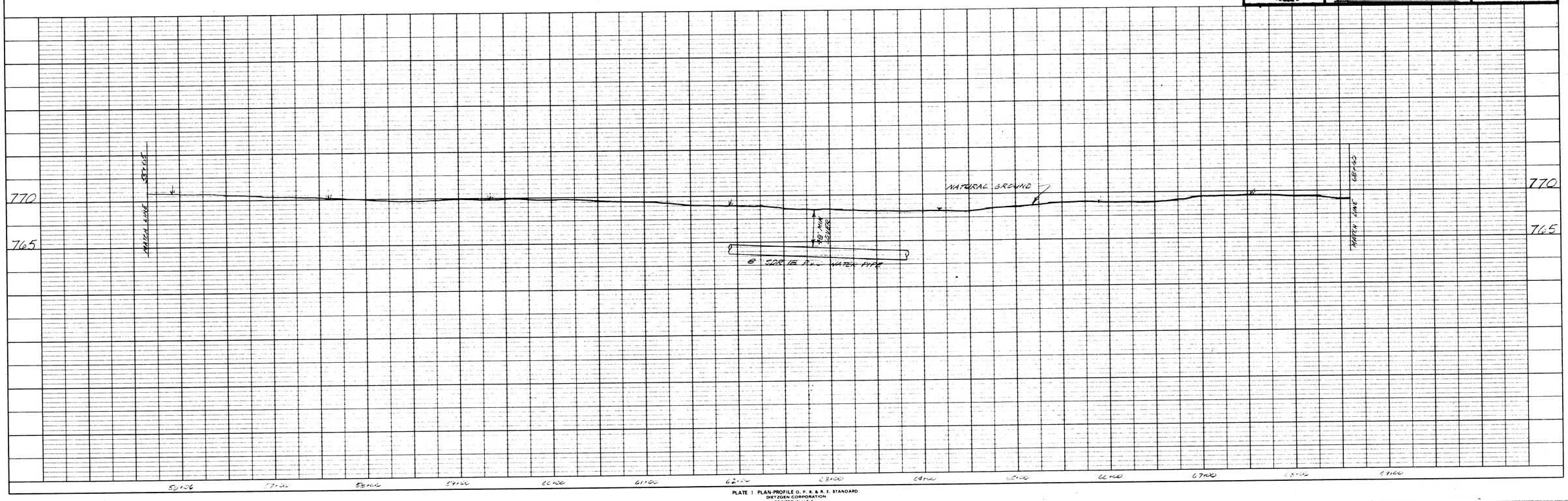


PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.


STA 41+65
MATCH LINE
STA 49+00
INSTALL
1-4" BLOW OFF
VALVE ASSEMBLY
SEE DETAIL SHEET
N 69° 37' 55" W
POND
8" PVC WATER MAIN
20' UTILITY EASEMENT
10'
PASTURE
SEE GENERAL NOTES
SHEET NO. 2 AND
EMBEDMENT DETAIL
SHEET NO. 4
STA 55+65
MATCH LINE
PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
PLAN-PROFILE CHECKED
BY
DATE
PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE
780
775
770
765
760
755
750
MATCH LINE
STA 41+65
NATURAL GROUND
4' BLOW OFF
VALVE ASSEMBLY
8" SDR 18 PVC WATER PIPE
STA 55+65
MATCH LINE
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
50+00
51+00
52+00
53+00
54+00
55+00
Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 (214)-548-9944
STATE OF TEXAS
HARTWELL
33
REGISTERED ENGINEER
WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS
CITY OF CELINA, TX
8" WATER
TRANSMISSION LINE
DATE: FEB. 1986
SCALE: 1" = 100'
DESIGNED: A.R.W.
DRAWN: A.W.B.
CHECKED: A.R.W.
JOB NO.
SHEET 5 OF 10
PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.





PLAN	BY	DATE
SURVEYED		
PLOTTED		
PLANIMETRY CHECKED		
NOTE BOOK	ALL DIMENSIONS	
No.	AT, OF MAT CHECKED	

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
NOTE BOOK	B. M. X NOTED	
No.	STRUCTURE NOTATIONS CHECKED	

Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 · (214)-548-9944

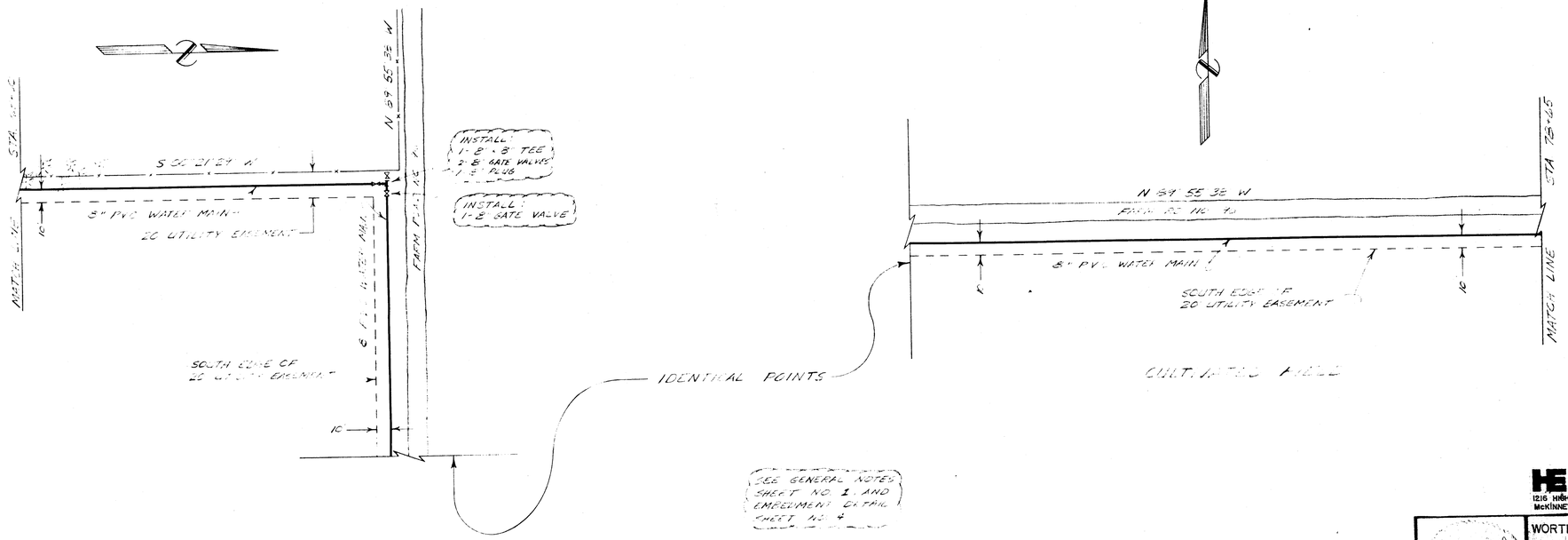
WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS

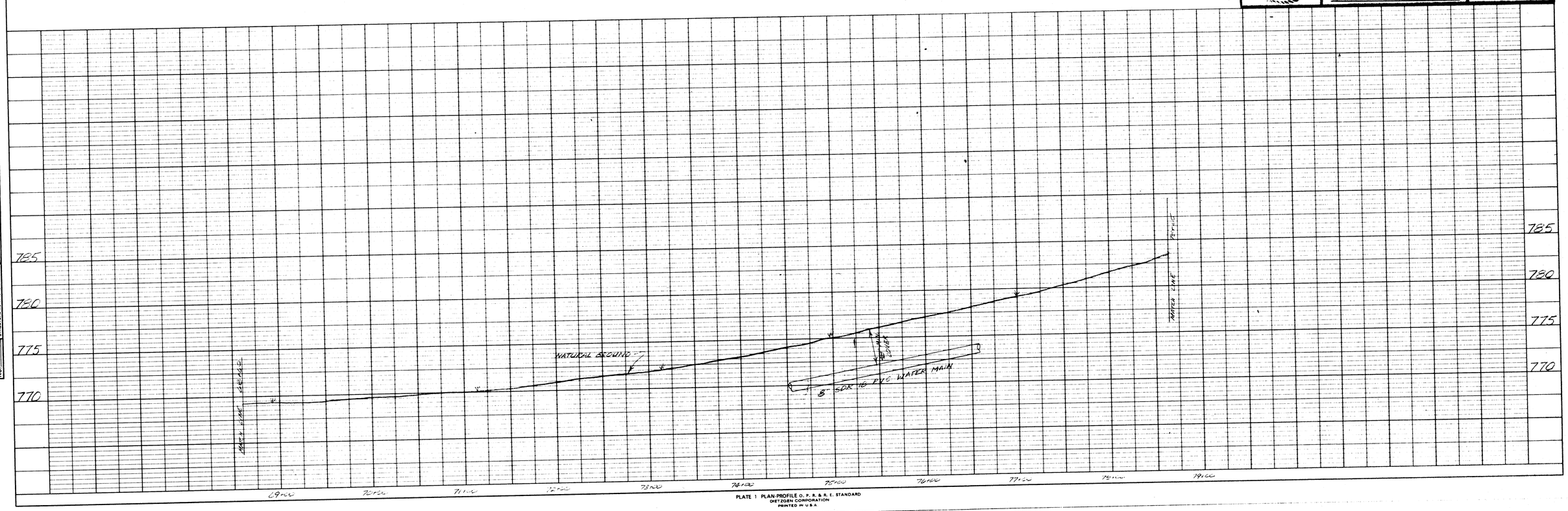
CITY OF CELINA, TX

8" WATER TRANSMISSION LINE

DATE:	FEB. 1996
SCALE:	[illegible]
DESIGNED:	[illegible]
DRAWN:	[illegible]
CHECKED:	[illegible]
JOB NO.	
SHEET	6 OF 10

PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.





PLAN		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
No.	PT. OF INT. CHECKED		

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B.M. NOTED		
No.	STRUCTURE NOTATIONS CHECKED		

Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 (214)-548-9944

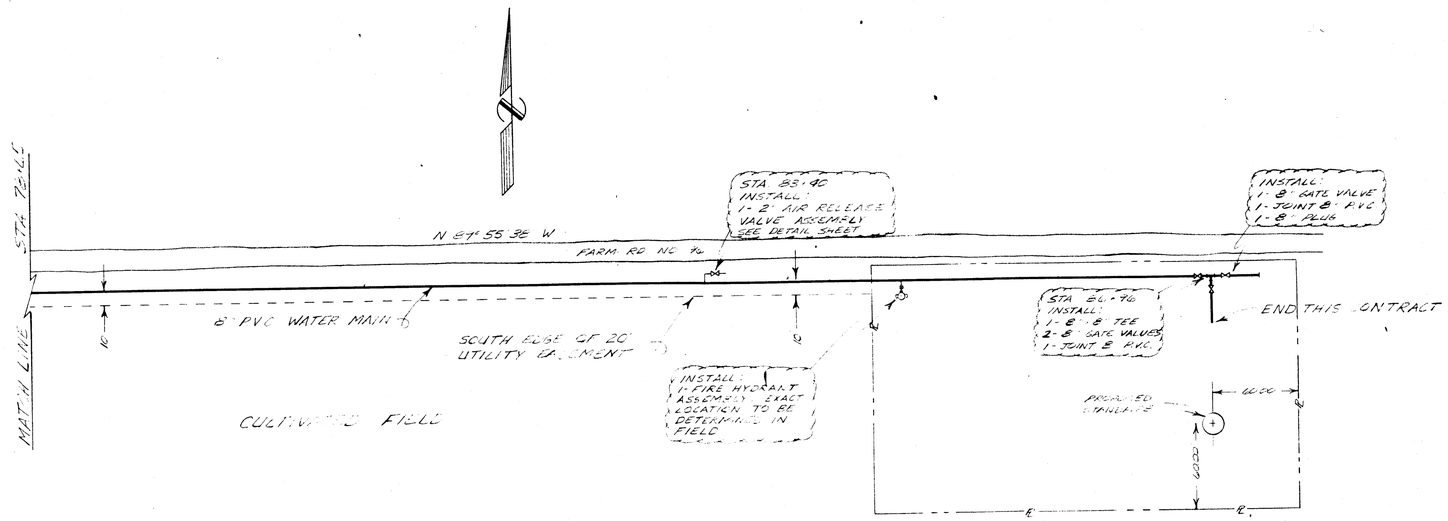
WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS

CITY OF CELINA, TX

8" WATER
TRANSMISSION LINE

DATE:
SCALE:
DESIGNED:
DRAWN:
CHECKED:
JOB NO.
SHEET 7 OF 10

PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.



SEE GENERAL NOTES
SHEET NO 1, AND
EMBEDMENT DETAIL
SHEET NO 4

Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 (214)-548-9944

STATE OF TEXAS
GARY R. HARTWELL
46538
REGISTERED
PROFESSIONAL ENGINEER

WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS

CITY OF CELINA, TX

8" WATER
TRANSMISSION LINE

DATE:	FEB. [illegible]
SCALE:	[illegible]
DESIGNED:	[illegible]
DRAWN:	[illegible]
CHECKED:	[illegible]
JOB NO.	
SHEET	3 OF 10

PLAN		
NOTE BOOK No.	SURVEYED	
	PLOTTED	
	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	

BY	DATE

PROFILE		
NOTE BOOK No.	SURVEYED	
	PLOTTED	
	GRADES CHECKED	
	B.M. & STRUCTURE NOTATIONS CHECKED	

BY	DATE

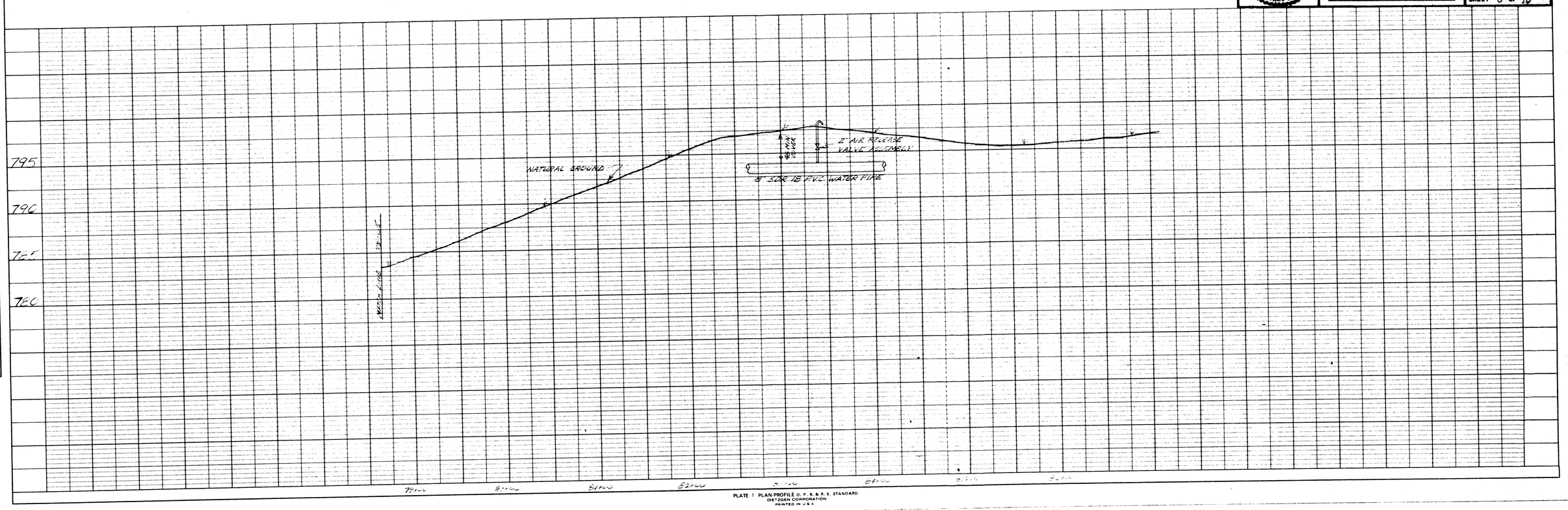
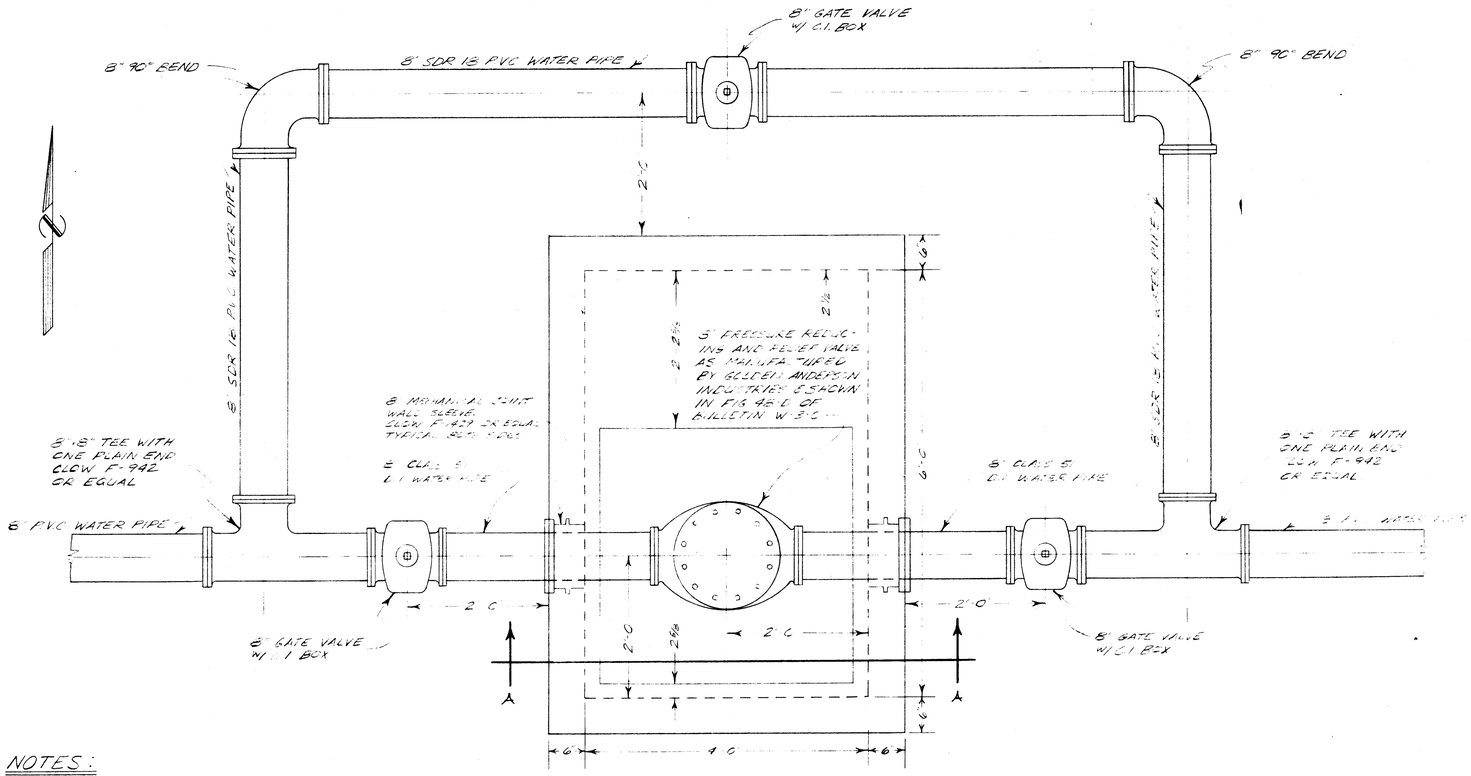


PLATE 1 PLAN-PROFILE O. P. R. & R. E. STANDARD
DIETZGEN CORPORATION
PRINTED IN U.S.A.

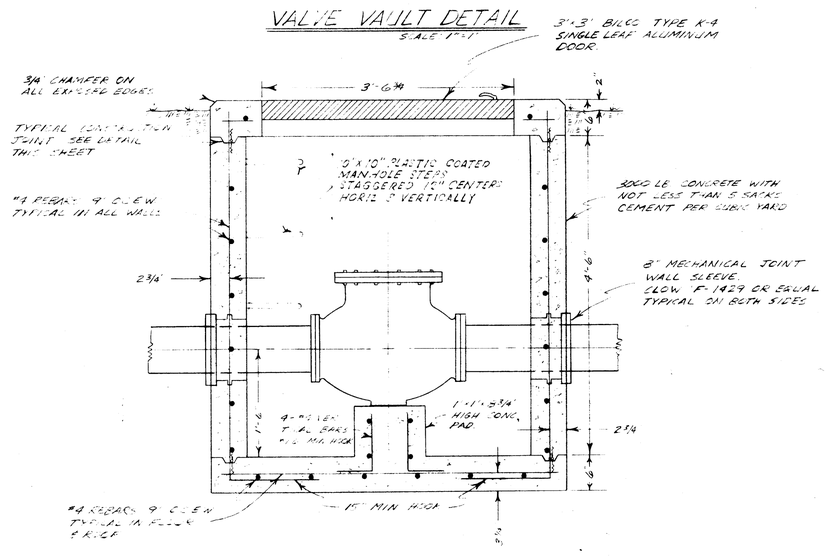


VALVE VAULT DETAIL

SCALE 1"=1'

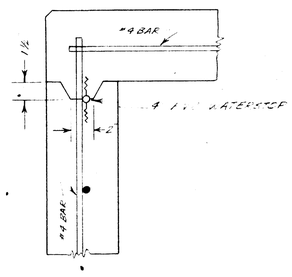
NOTES:

1. VALVE VAULT SHALL BE WATERTIGHT



SECTION A-A

SCALE: 1"=1'



TYPICAL CONSTRUCTION JOINT DETAIL

SCALE: 1"=1½"

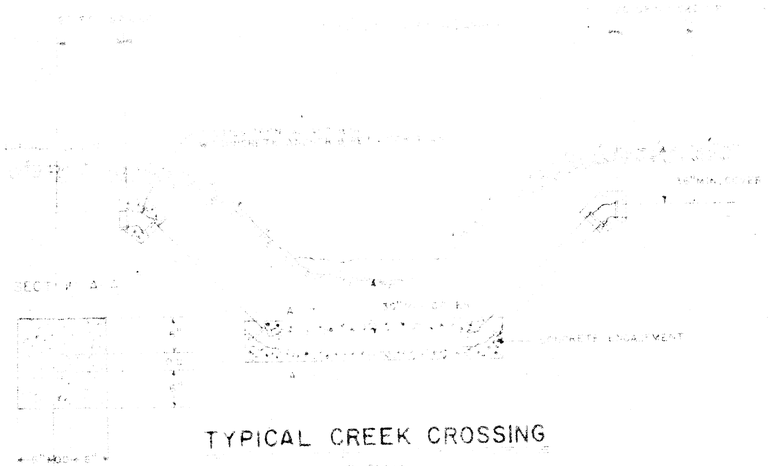
STATE OF TEXAS
GARY R. HARTWELL
68633
LICENSED
PROFESSIONAL ENGINEER

Hartwell Engineers
CITY ENGINEERS
1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 · (214)-548-9944

WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS

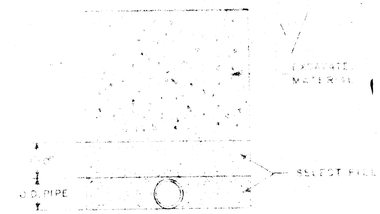
CITY OF CELINA, TEXAS

VALVE VAULT DETAILS



TYPICAL CREEK CROSSING

NO SCALE



WATER EMBEDMENT DETAIL

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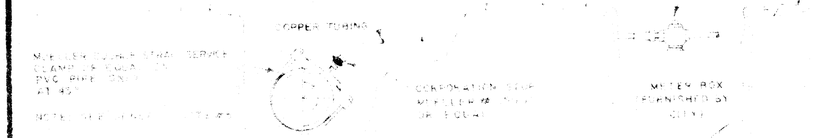
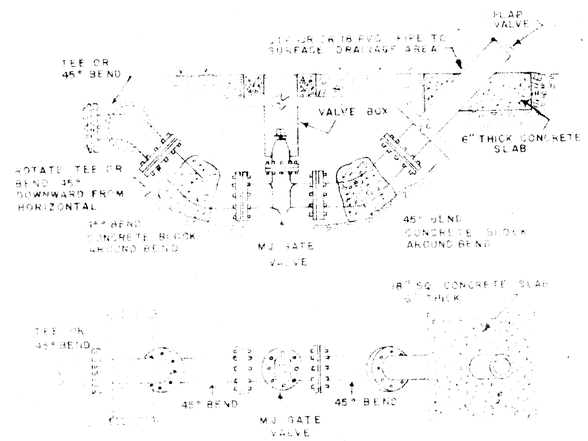


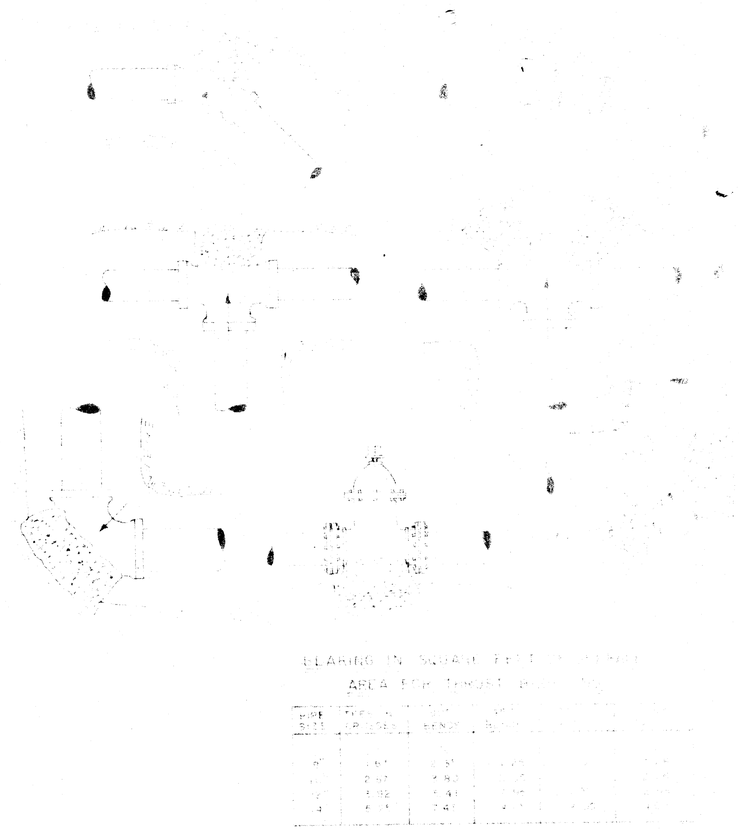
TYPICAL NEW SERVICE CONNECTION

NO SCALE



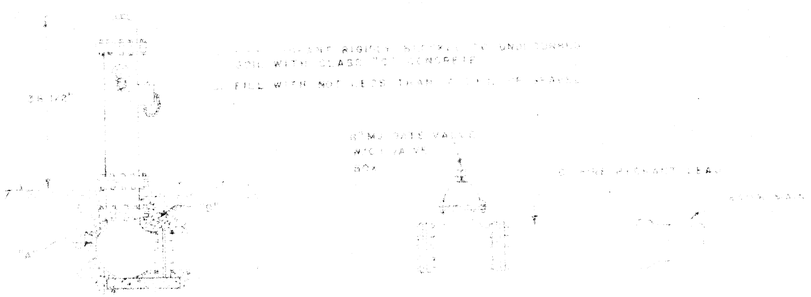
TYPICAL DETAILS
BLOW-OFF ASSEMBLY

NO SCALE



THRUST BLOCK DETAILS

NO SCALE



3/4" AWWA IMPROVED
FIRE HYDRANT INSTALLATION

TYPICAL ROAD CROSSING DETAIL

Hartwell Engineers
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1216 HIGHWAY 75 SUITE 101 WESTPARK BUILDING
McKINNEY, TEXAS 75069 · (214)-548-9944

WORTHAM ASSOCIATES, INC.
DESIGN ENGINEERS