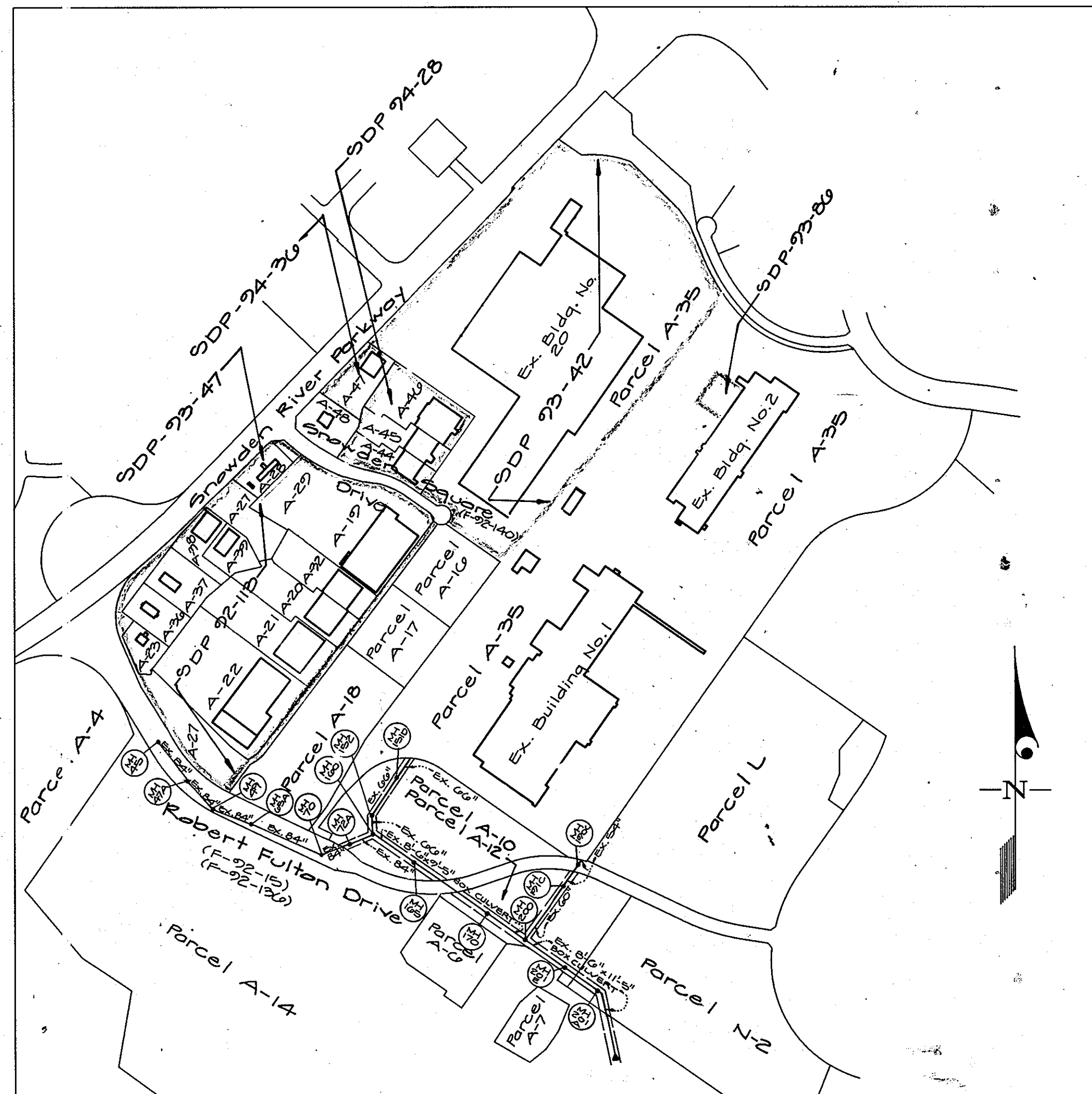


STORM DRAINS

GATEWAY COMMERCE CENTER

SIXTH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=600'

OWNER/DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

APPROVED: DEPARTMENT OF PUBLIC WORKS	<i>Phillip Seaman</i>	7/17/96
CHIEF, BUREAU OF ENGINEERING		DATE
APPROVED: DEPARTMENT OF PLANNING AND ZONING	<i>John Swannery</i>	8/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH		DATE
APPROVED: DEPARTMENT OF PUBLIC WORKS	<i>Andrew M. Daniels</i>	12-22-95
CHIEF, BUREAU OF HIGHWAYS		DATE
APPROVED: DEPARTMENT OF PUBLIC WORKS	<i>William J. ...</i>	7/17/96
CHIEF, LAND DEVELOPMENT DIVISION MK		DATE



CK Johnson

811

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE · SUITE 250 · BURTONSVILLE OFFICE PARK · BURTONSVILLE, MD. 20866

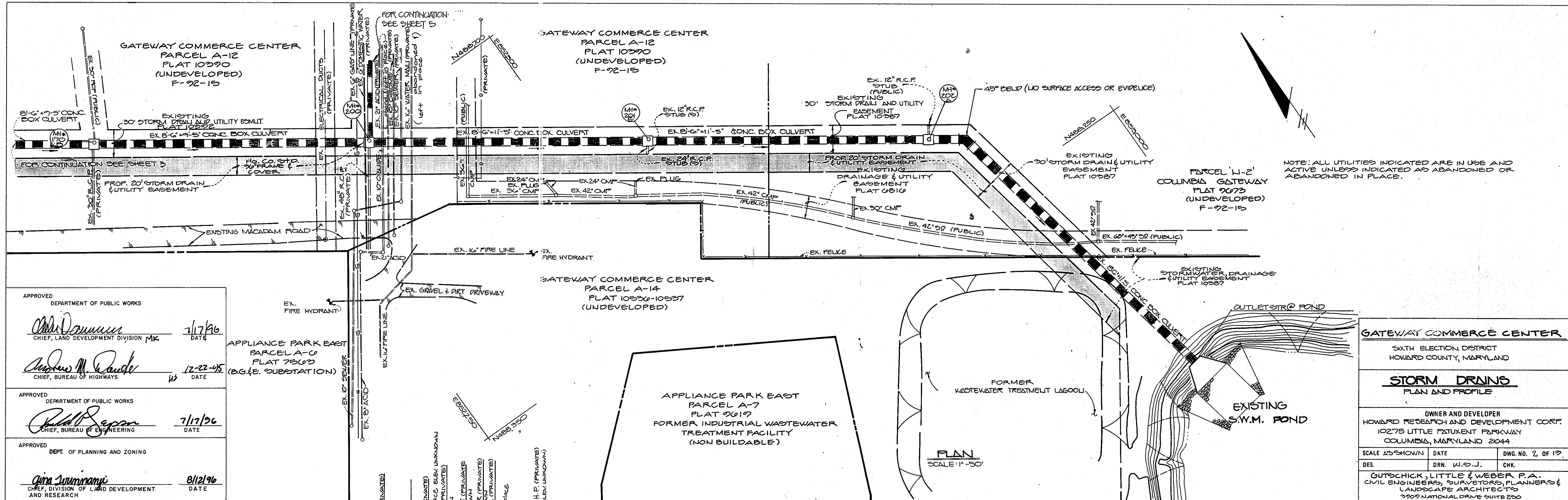
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.

Cover sheet			
Phase I Storm Drain Dedication			
Gateway Commerce Center			
Sixth Election District		Howard County, Maryland	
DES.:	SCALE	ZONING	G.L.W. FILE No.
DRN.:	1" = 600'		91-055
W.S.J.:	DATE	TAX MAP No.	SHEET
CHK.:	December 1993	42	1 of 13

F-92-1000(DPW)

F 92-997



DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	

APPROVED DEPARTMENT OF PUBLIC WORKS
Chris J. ... 7/17/96
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Andrew M. ... 12-22-95
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Paul ... 7/17/96
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED DEPT. OF PLANNING AND ZONING
Jim ... 8/12/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

GATEWAY COMMERCE CENTER
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

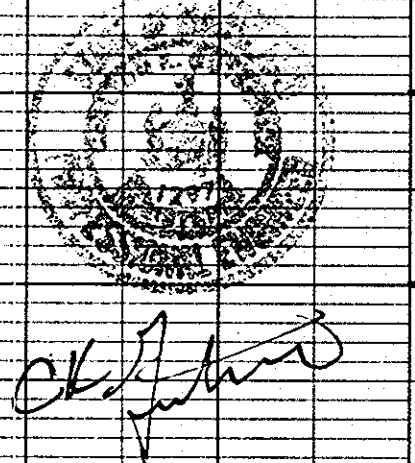
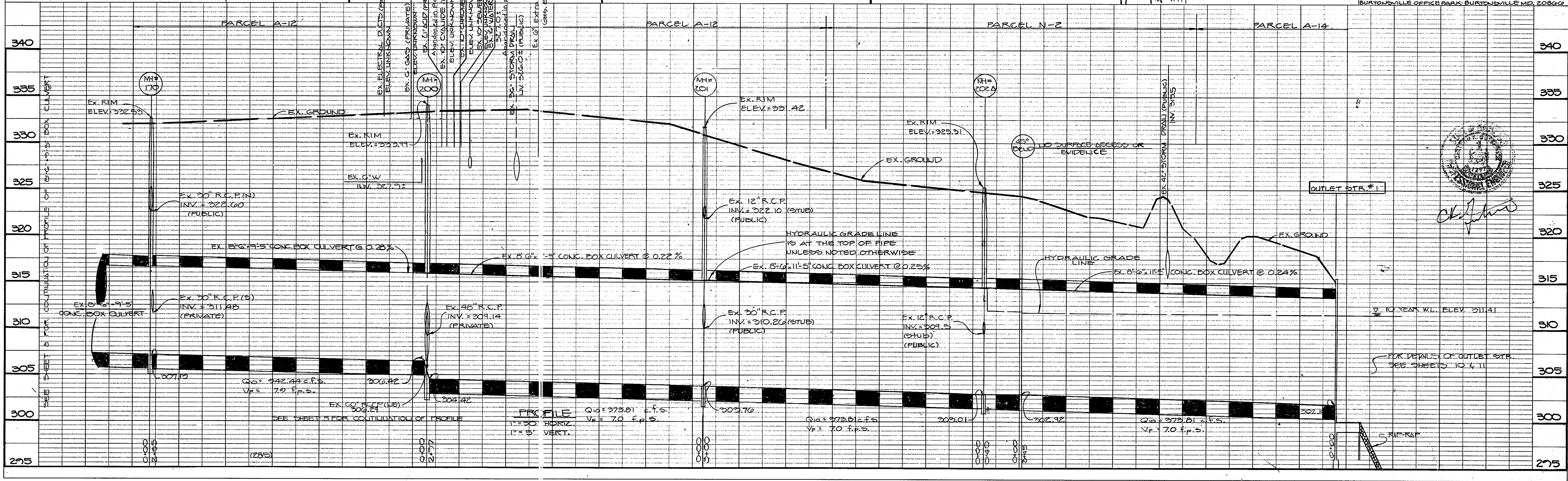
STORM DRAINS
 PLAN AND PROFILE

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE DWG. NO. 2 OF 12
 DES. DRN. W.S.J. CHK.

GUTSCHICK, LITTLE & WEBER P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS &
 LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE SUITE 250
 BURTONSVILLE OFFICE PARK, BURTONSVILLE MD, 20866

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	



1158

199-26

DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
NOTE BOOK NO.	

APPROVED
DEPARTMENT OF PUBLIC WORKS

William M. Damann 7/17/96
CHIEF, LAND DEVELOPMENT DIVISION MK DATE

Andrew M. Quaker 12-22-95
CHIEF, BUREAU OF HIGHWAYS MS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS

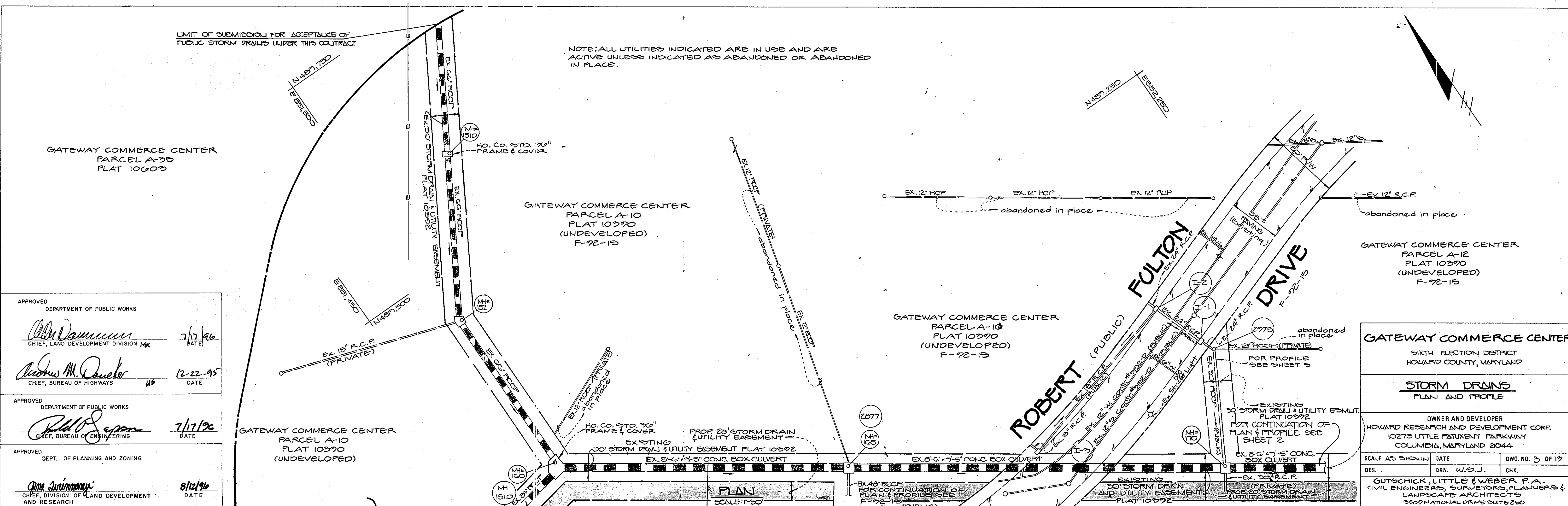
Paul W. Eason 7/17/96
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPT. OF PLANNING AND ZONING

Ann Swinnery 8/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

LIMIT OF SUBMISSION FOR ACCEPTANCE OF PUBLIC STORM DRAINS UNDER THIS CONTRACT

NOTE: ALL UTILITIES INDICATED ARE IN USE AND ARE ACTIVE UNLESS INDICATED AS ABANDONED OR ABANDONED IN PLACE.



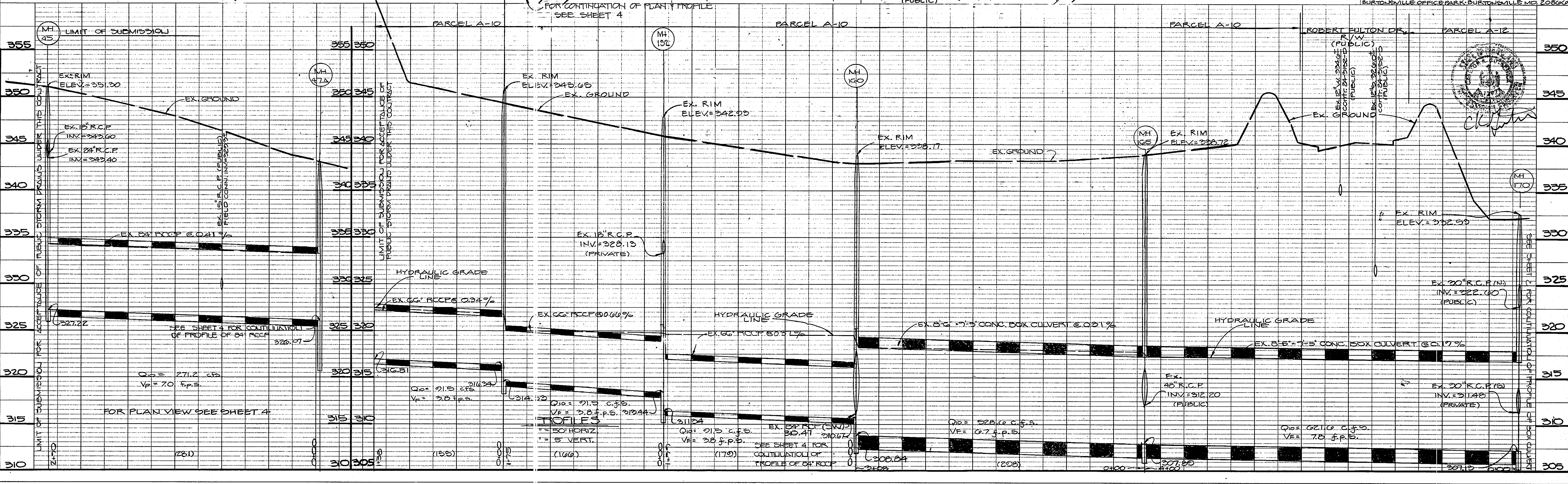
GATEWAY COMMERCE CENTER
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

STORM DRAINS
PLAN AND PROFILE

OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE DWG. NO. 3 OF 19
DES. DRN. W.S.J. CHK.

GUTSCHICK, LITTLE & WEBER P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE SUITE 250
BURTONSVILLE OFFICE PARK, BURTONSVILLE MD 20886



1158

F-92-997

1158

DATE	
BY	
SURVEYED	
ALIGNED	
NOTED	
NO.	
PLAN	
NO.	

DATE	
BY	
SURVEYED	
GRADES CHECKED	
NOTED	
NO.	
PROFILE	
NO.	

NOTE: ALL UTILITIES INDICATED ARE IN USE AND ACTIVE UNLESS INDICATED AS ABANDONED OR ABANDONED IN PLACE.

GATEWAY COMMERCE CENTER
PARCEL A-27
PLAT 10541
(ODP-92-113)

GATEWAY COMMERCE CENTER
PARCEL A-18
PLAT 10541
(UNDEVELOPED)

GATEWAY COMMERCE CENTER
PARCEL A-35
PLAT 10603

GATEWAY COMMERCE CENTER
PARCEL A-10
PLAT 10390
(UNDEVELOPED)

ROBERT FULTON DRIVE (PUBLIC) (F-92-136)

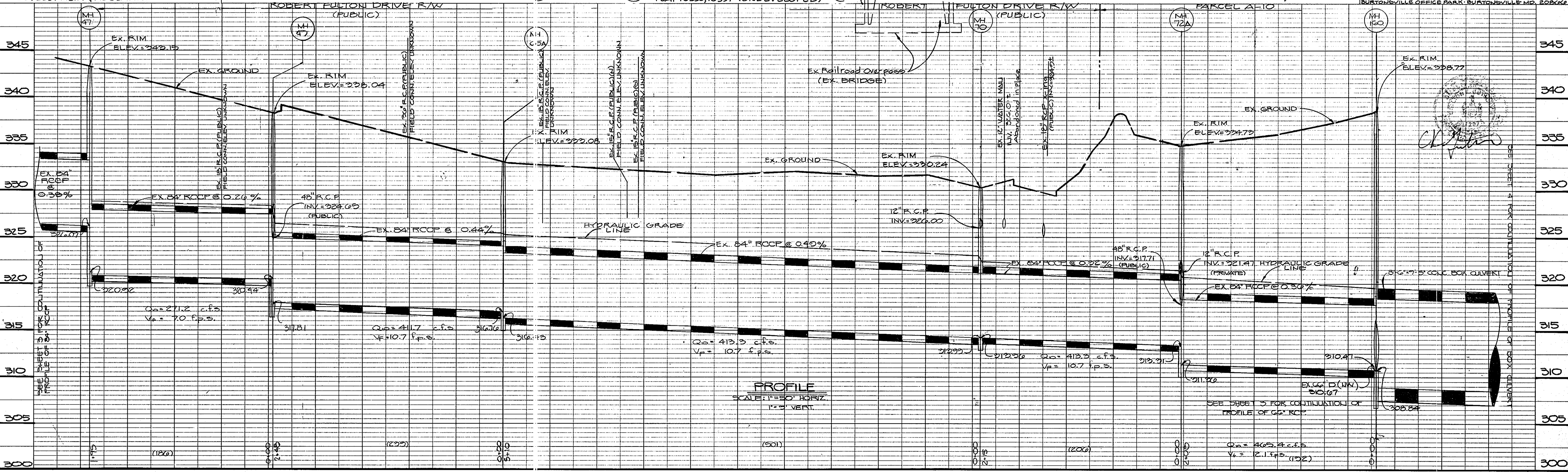
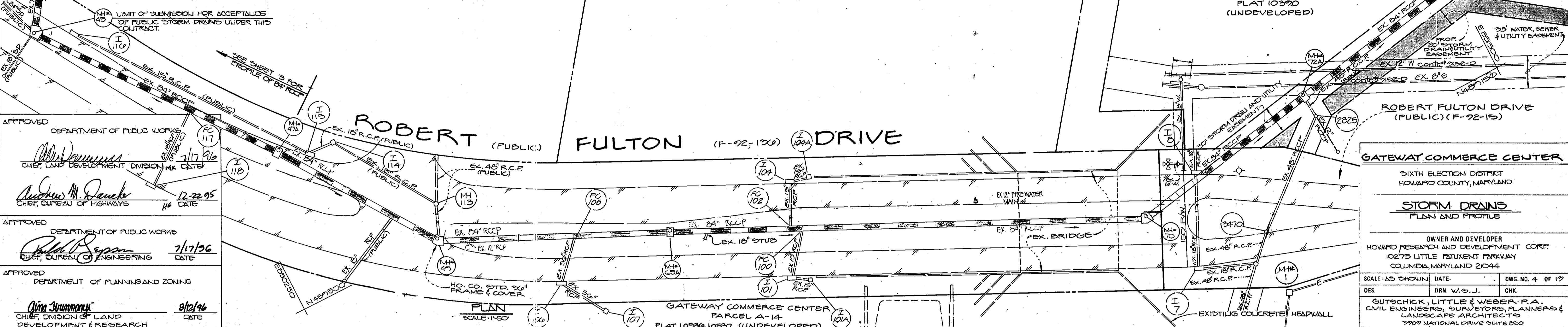
GATEWAY COMMERCE CENTER
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

STORM DRAINS
PLAN AND PROFILE

OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

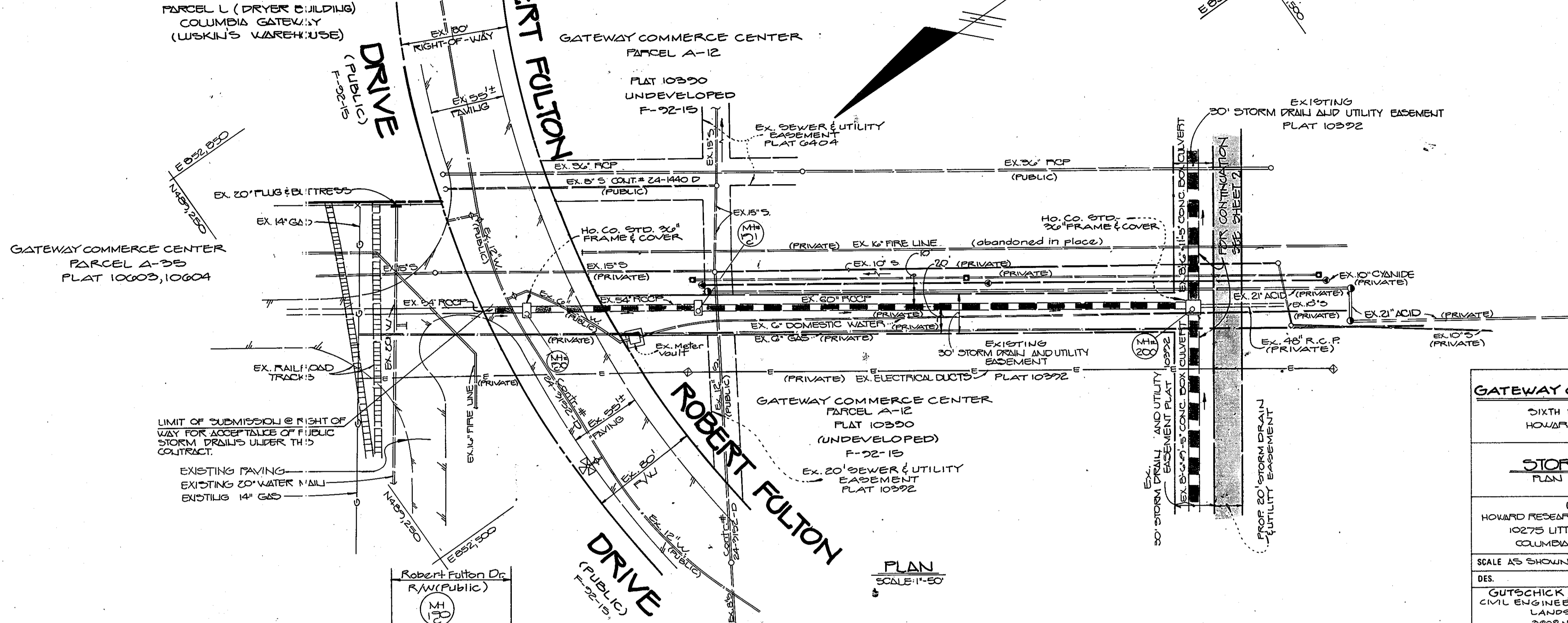
SCALE: AS SHOWN DATE DWG. NO. 4 OF 12
DES. DRN. W.S.J. CHK.

GUTSCHICK, LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS &
LANDSCAPE ARCHITECTS
3900 NATIONAL DRIVE SUITE 250
BURTONSVILLE OFFICE PARK, BURTONSVILLE, MD 20866



F 92-111

NOTE: ALL UTILITIES INDICATED ARE IN USE AND ACTIVE UNLESS INDICATED AS ABANDONED OR ABANDONED IN PLACE.



APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature]
CHIEF, LAND DEVELOPMENT DIVISION MK
7/17/96 DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature]
CHIEF, BUREAU OF HIGHWAYS
12-22-98 DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature]
CHIEF, BUREAU OF ENGINEERING
7/17/96 DATE

APPROVED
DEPT. OF PLANNING AND ZONING
[Signature]
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
8/12/96 DATE

GATEWAY COMMERCE CENTER
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

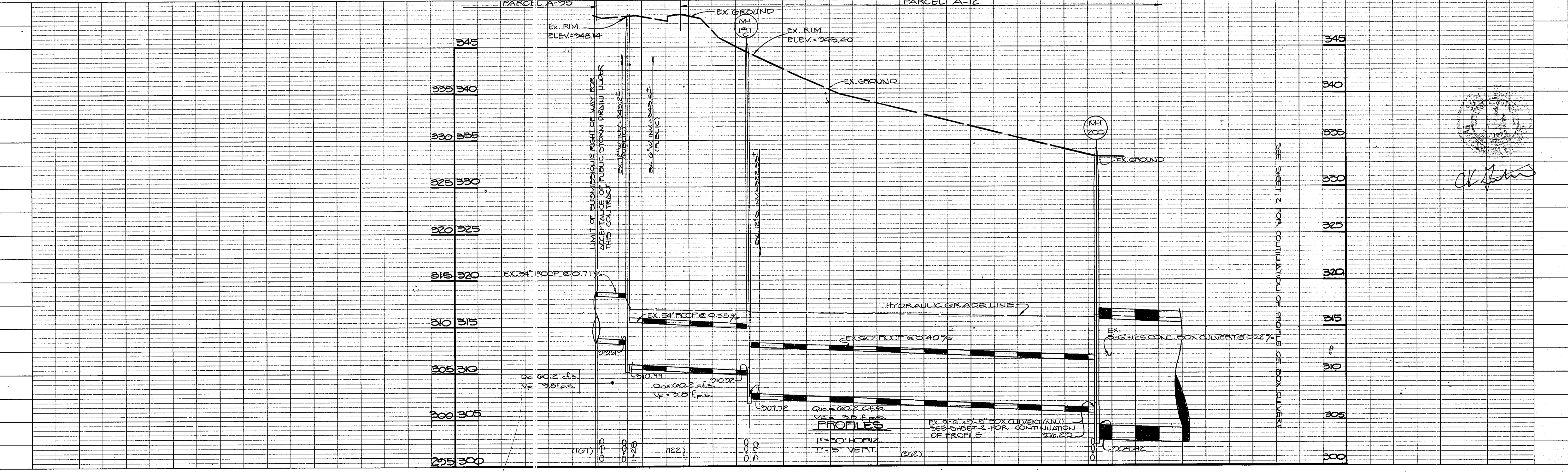
STORM DRAINS
PLAN AND PROFILE

OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE DWG. NO. 5 OF 17

DES. DRN. J. SMITH CHK.

GUTSCHICK, LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS &
LANDSCAPE ARCHITECTS
7809 NATIONAL DRIVE SUITE 250
BURTONSVILLE OFFICE PARK, BURTONSVILLE, MD 20866



PLAN

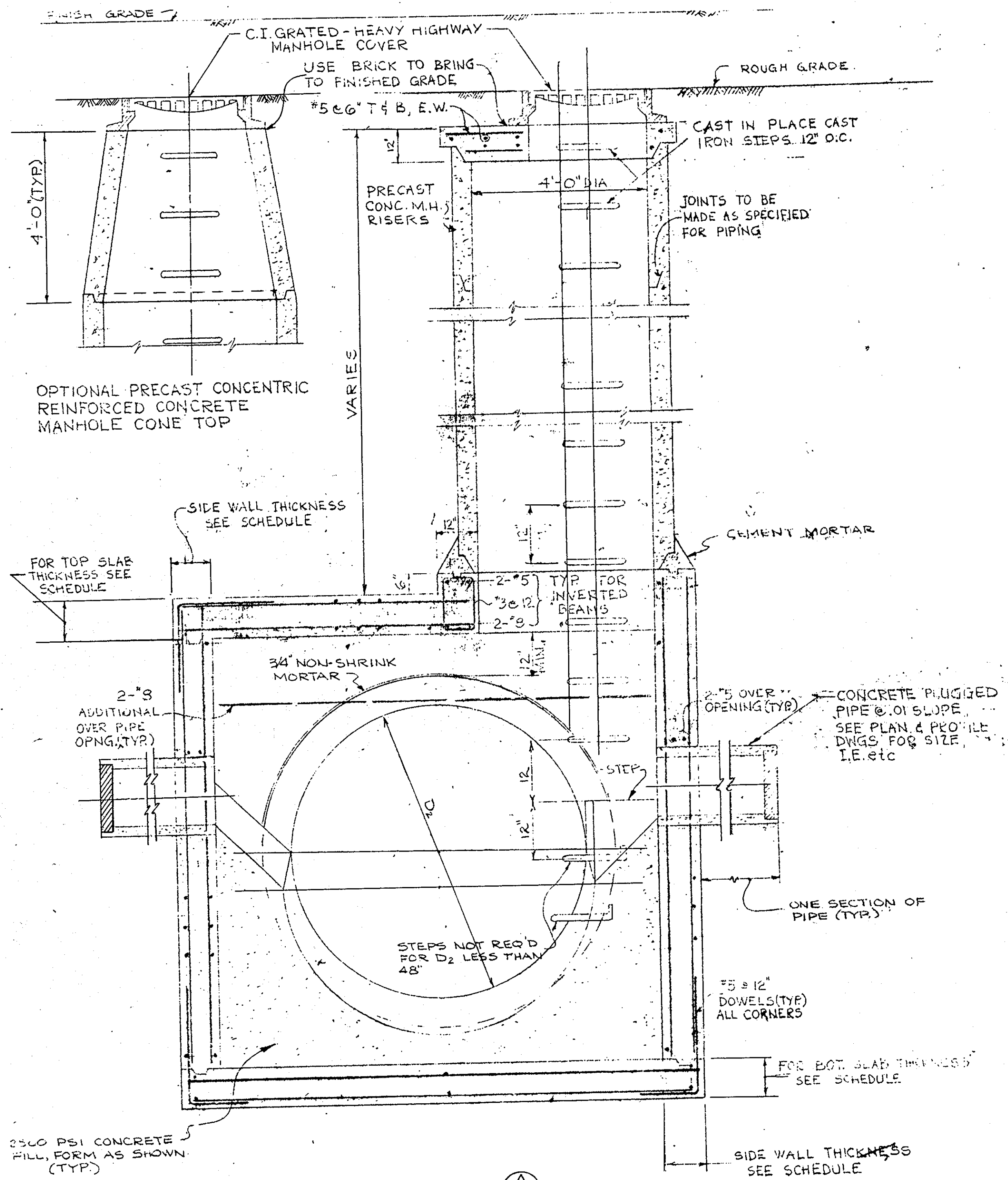
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BY	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK NO.	

PROFILE

DATE	
BY	
SURVEYED	
GRADES CHECKED	
S.M. NOTES	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	

1198

165-263



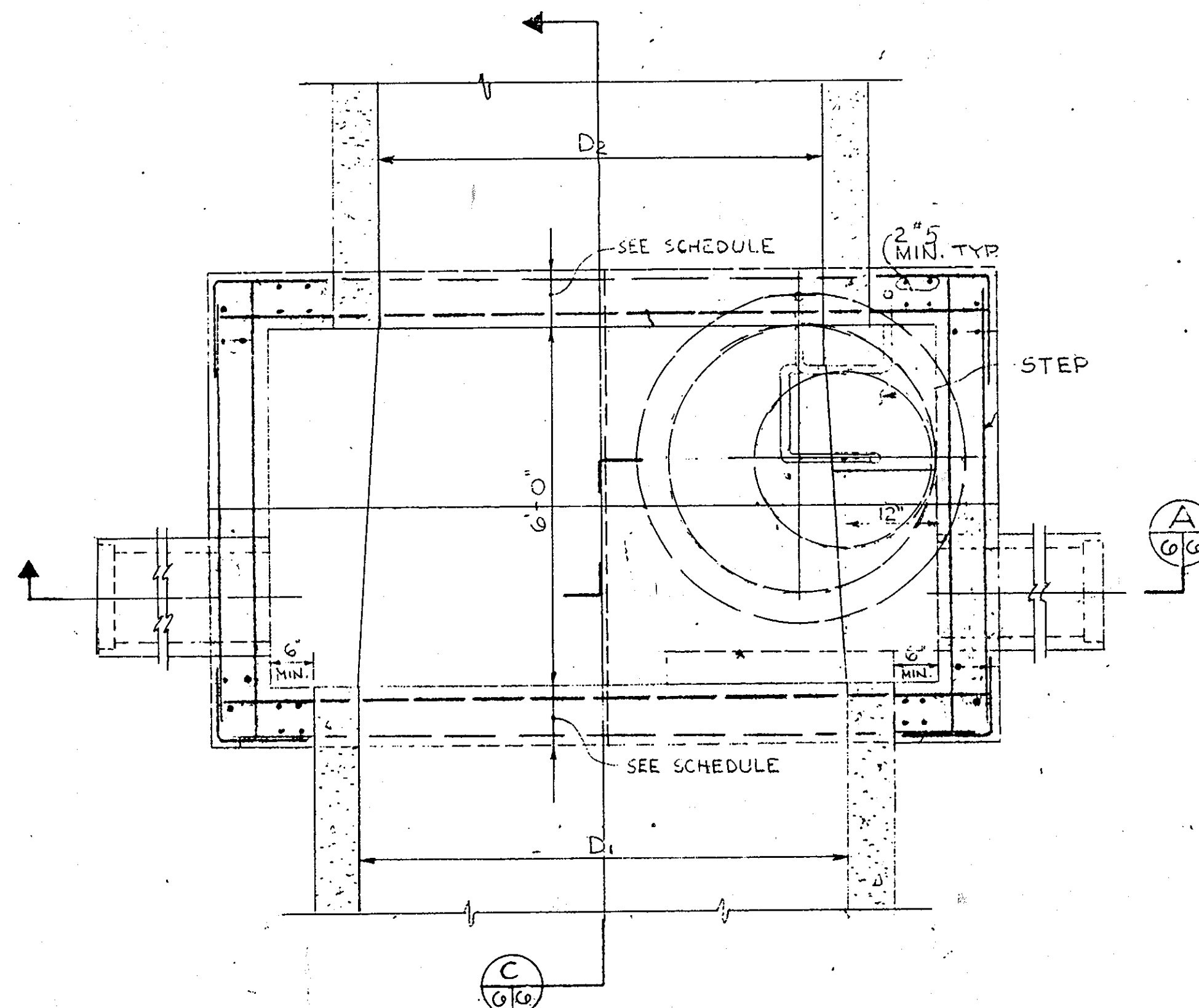
SECTION A-A

DETAILS OF TYPICAL STORM SEWER MANHOLE

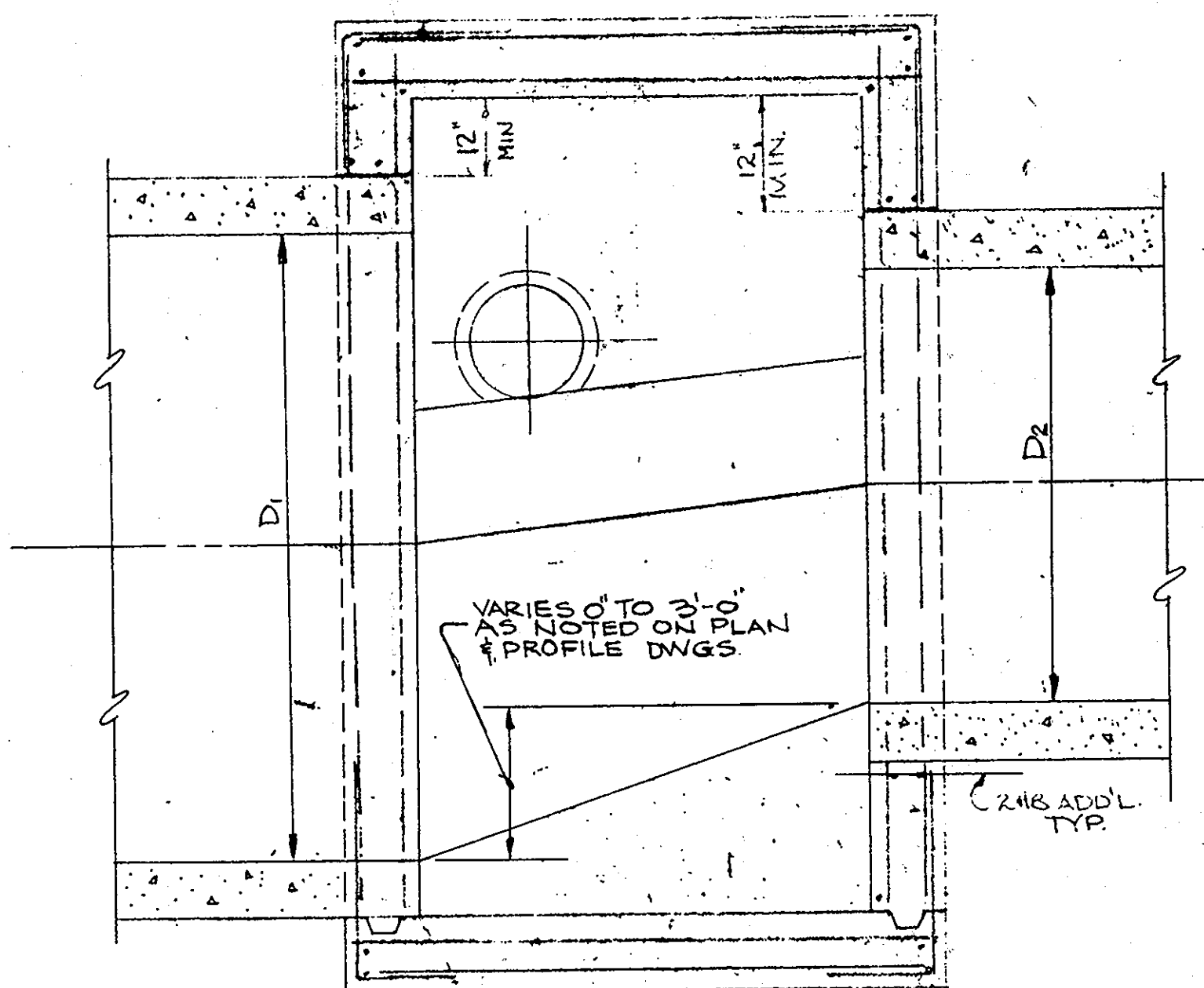
NO SCALE

TYPE	TOP SLAB		BOTTOM SLAB		SIDE WALLS	
	THICKNESS	STEEL (SS)	THICKNESS	STEEL (SS)	THICKNESS	STEEL (I.E. HORIZ)
A	12"	#6@6 BOT	12"	#7@6 TOP	12"	#5@6
B	12"	#7@6 BOT	14"	#7@6 TOP	12"	#6@6
C	12"	#7@6 BOT	14"	#7@6 TOP	12"	#6@6
D	14"	#7@6 BOT	16"	#7@6 TOP	12"	#7@6
E	16"	#7@6 BOT	16"	#7@6 TOP	12"	#7@6

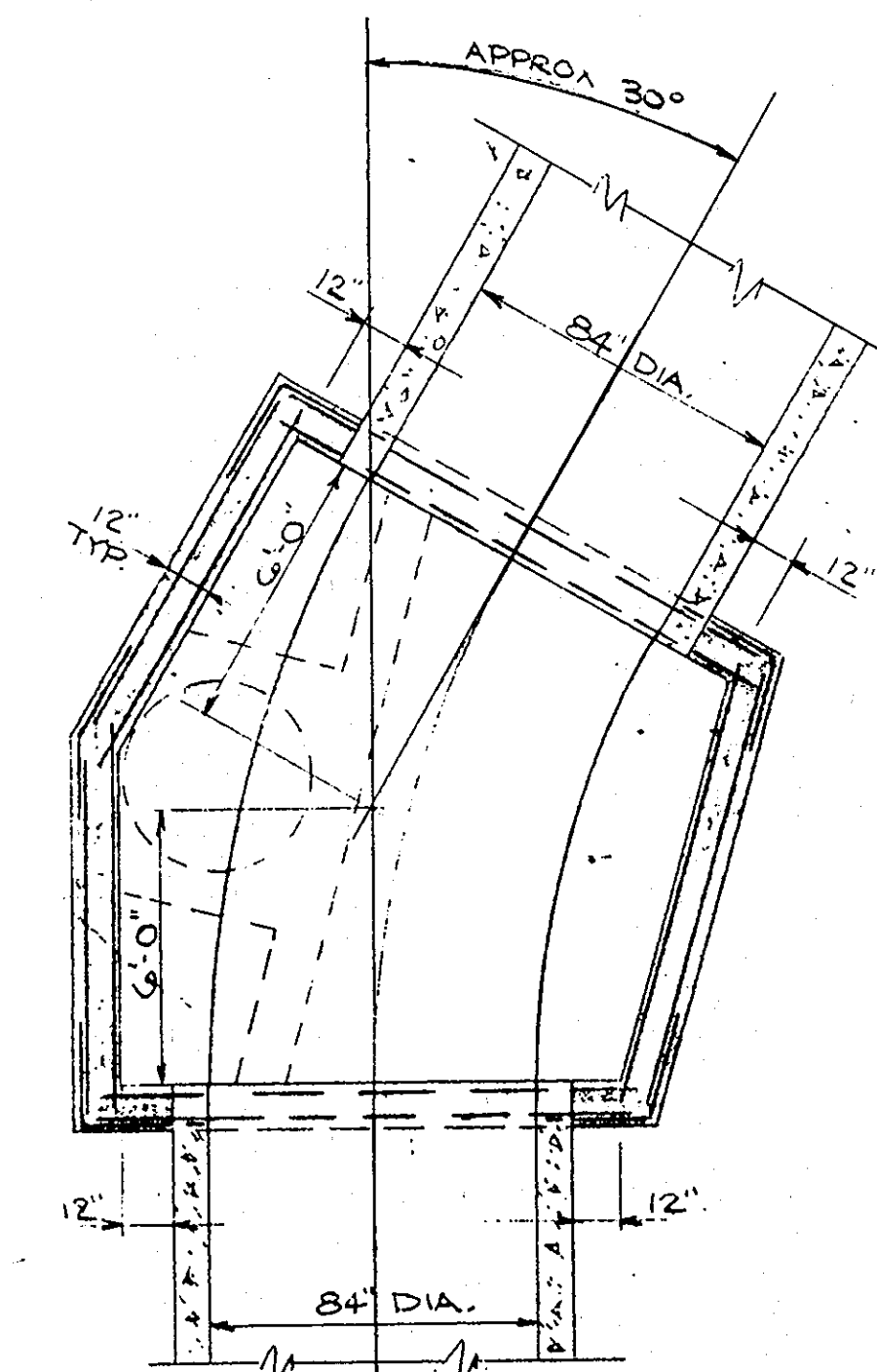
(SS) INDICATES SHORT SPAN IN MANHOLE.
ALL STEEL NOT DESIGNATED SHALL BE #5@12".



PLAN



SECTION C-C



PLAN - M.H.# 49

STRUCTURE	STRUCTURE SCHEDULE				
	TOP ELEV.	INV. IN.	INV. OUT.	NORTH COORDINATE	EAST COORDINATE
MH 45 *	352.20	322.17	327.22	489893.884	850128.634
MH 47A *	342.15	320.07	320.92	489661.952	850303.704
MH 49 *	338.04	320.44	317.81	489481.110	850438.934
MH 65A *	333.08	316.76	316.45	489365.290	850658.805
MH 70 *	330.24	315.99	315.20	489184.556	851094.578
MH 72A *	324.73	313.31	311.30	489194.541	851308.955
MH 160 *	328.77	310.47	308.84	489256.760	851507.492
MH 165A *	328.72	307.89	307.89	489080.223	851760.373
MH 170D *	328.59	307.13	307.13	488850.848	852088.083
MH 200 *	328.99	306.42	304.42	488681.593	852329.986
MH 201E *	321.42	302.76	302.76	488510.571	852573.208
MH 202A *	328.31	302.01	302.01	488338.369	852819.593
MH 151D *	348.65	316.34	314.33	489600.000	851608.570
MH 152 *	342.93	313.24	311.24	489455.457	851510.675
HEADWALL *		302.10		487981.782	852915.999
MH 191 *	345.40	310.32	307.72	488983.475	852543.536
MH 190C *	348.14	313.61	310.99	489089.025	852617.073

* DELETED FIELD LOCATION BY FISHER, COLLINS AND CARTER LLC, TAKEN FROM GENERAL ELECTRIC APPLIANCE PARK - EAST AD-DULTO, NJ 5045-00

GENERAL NOTES:

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS, EXCEPT AS NOTED.
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM-A-615-60 GRADE 40.



Cliff J. Taylor

APPROVED
DEPARTMENT OF PUBLIC WORKS

Cliff J. Taylor 7/17/96
CHIEF, LAND DEVELOPMENT DIVISION MK DATE

Andrew M. Dwyer 12-22-95
CHIEF, BUREAU OF HIGHWAYS HS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS

Paul J. Ryan 7/17/96
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPT OF PLANNING AND ZONING

Cliff J. Taylor 8/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE

Gateway Commerce Center
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 30, 42 & 43 PARCEL 307

STORM DRAIN DETAILS

OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

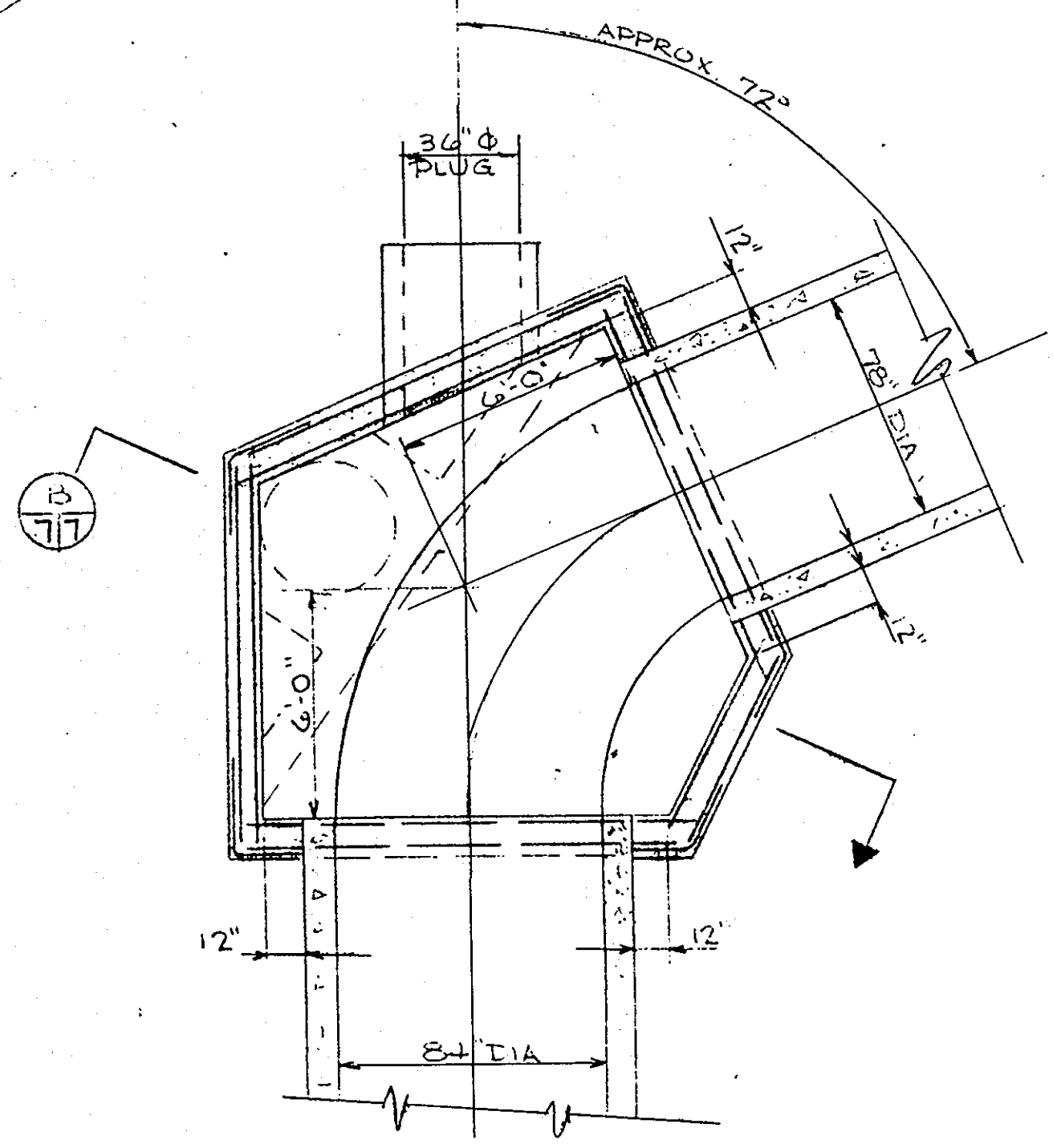
NO. SCALE DATE APRIL 30, 1997 DWG. NO. 6 OF 13
DES. M. TAYLOR DRN. J. SMITH CHK. C. PROVO

APPROVED
DEPARTMENT OF PUBLIC WORKS
Chas. Williams 1/17/96
CHIEF, LAND DEVELOPMENT DIVISION MIC DATE

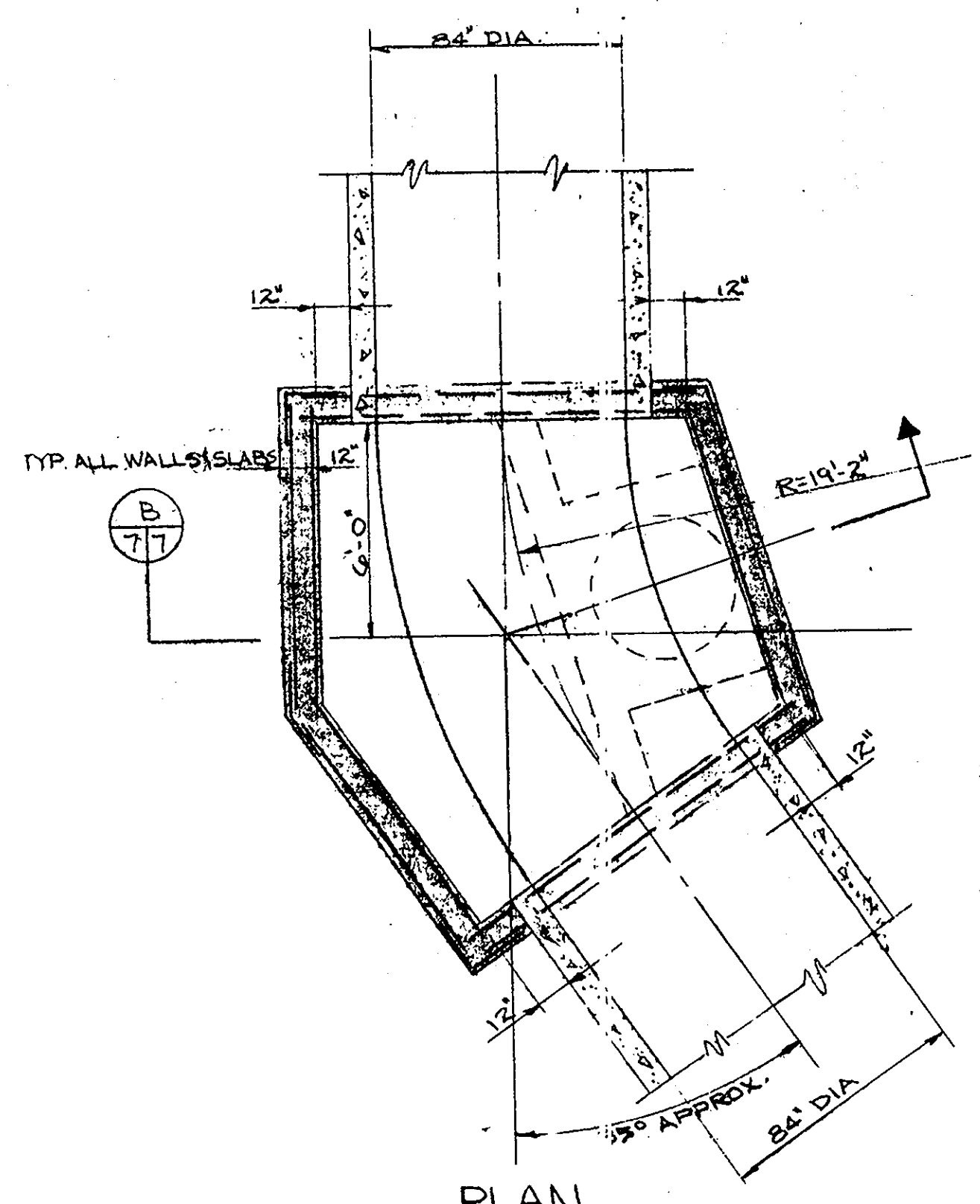
Robert M. Parker 12/22/95
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Paul S. ... 7/17/96
CHIEF, BUREAU OF ENGINEERING DATE

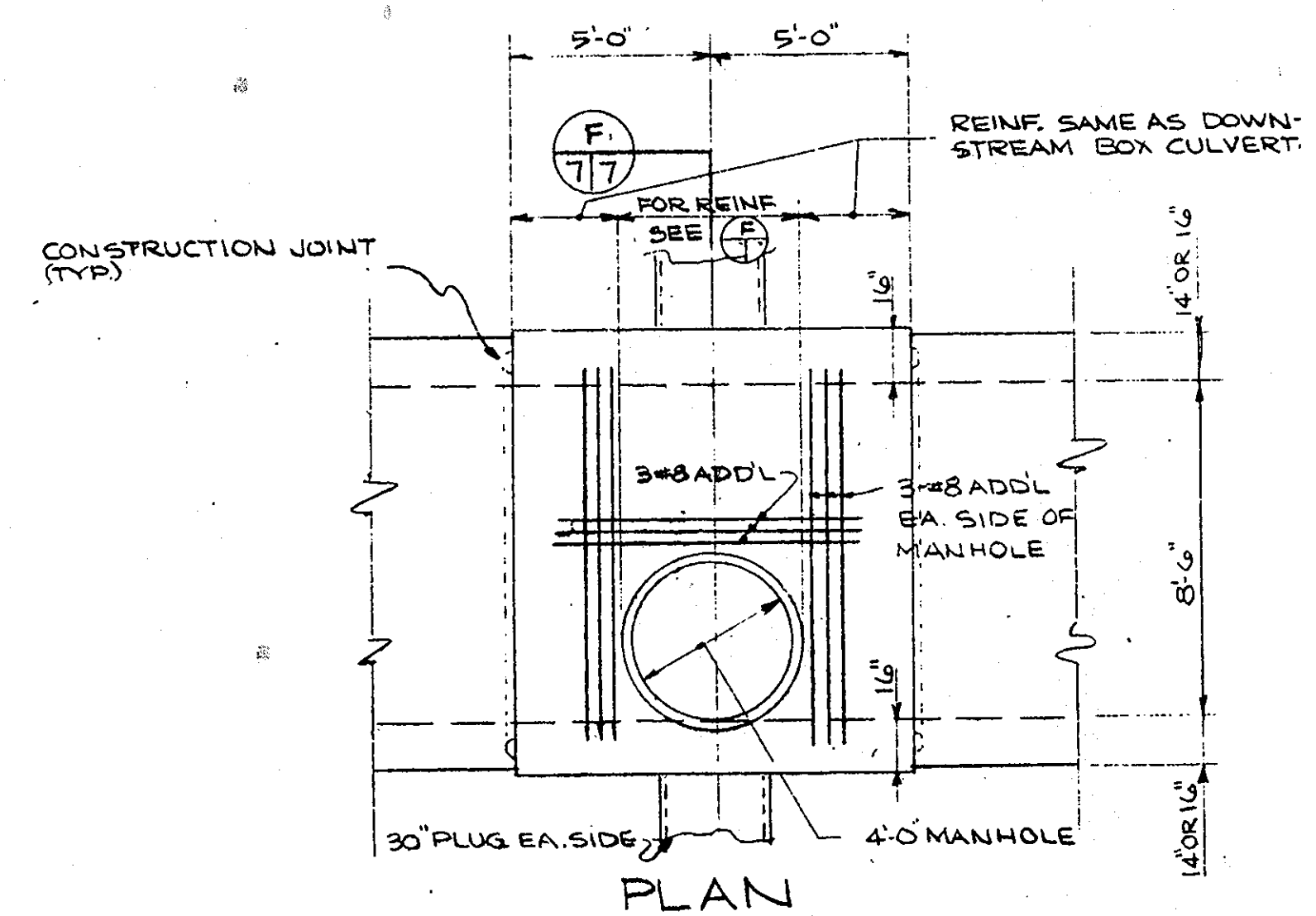
APPROVED
DEPT. OF PLANNING AND ZONING
Jim ... 8/2/96
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE



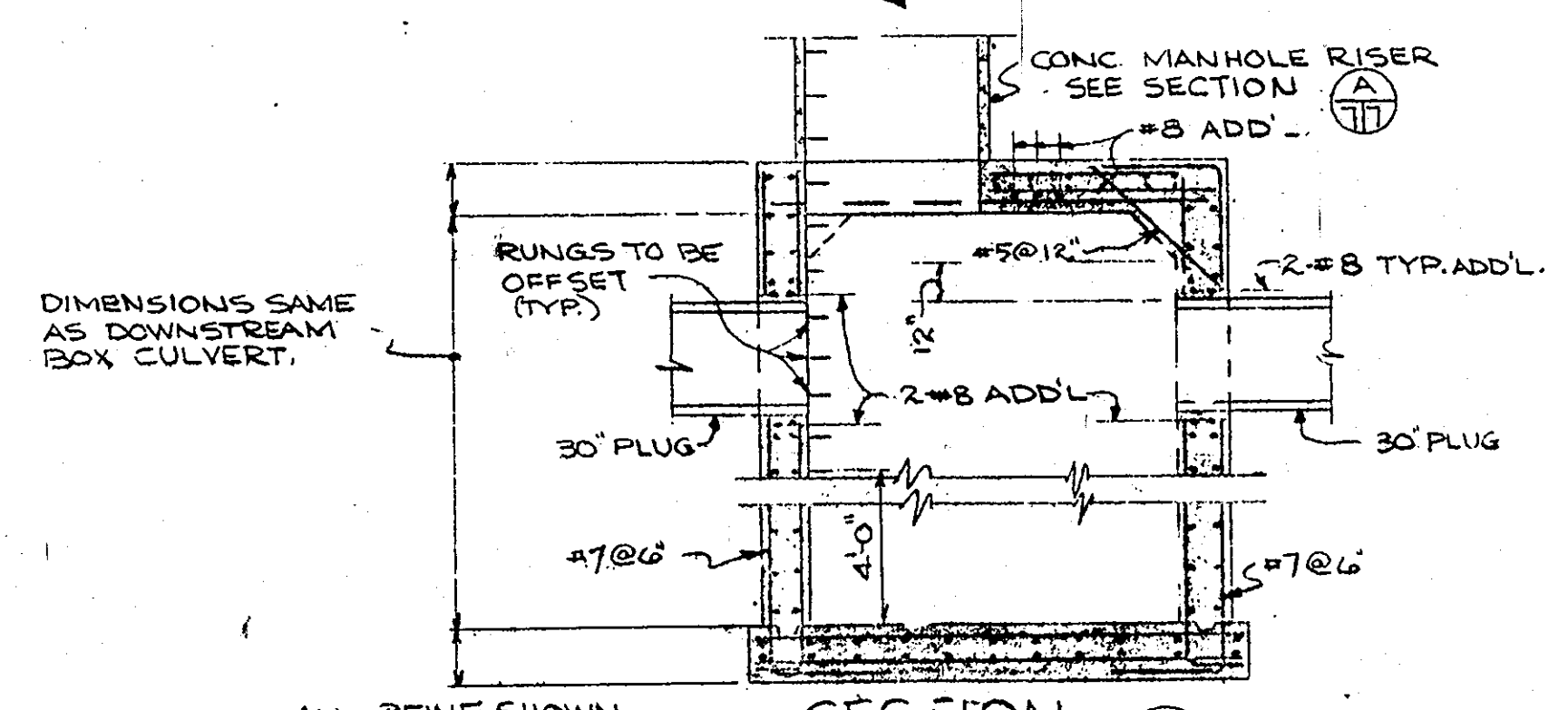
PLAN
MANHOLE #45



PLAN
MANHOLE #70

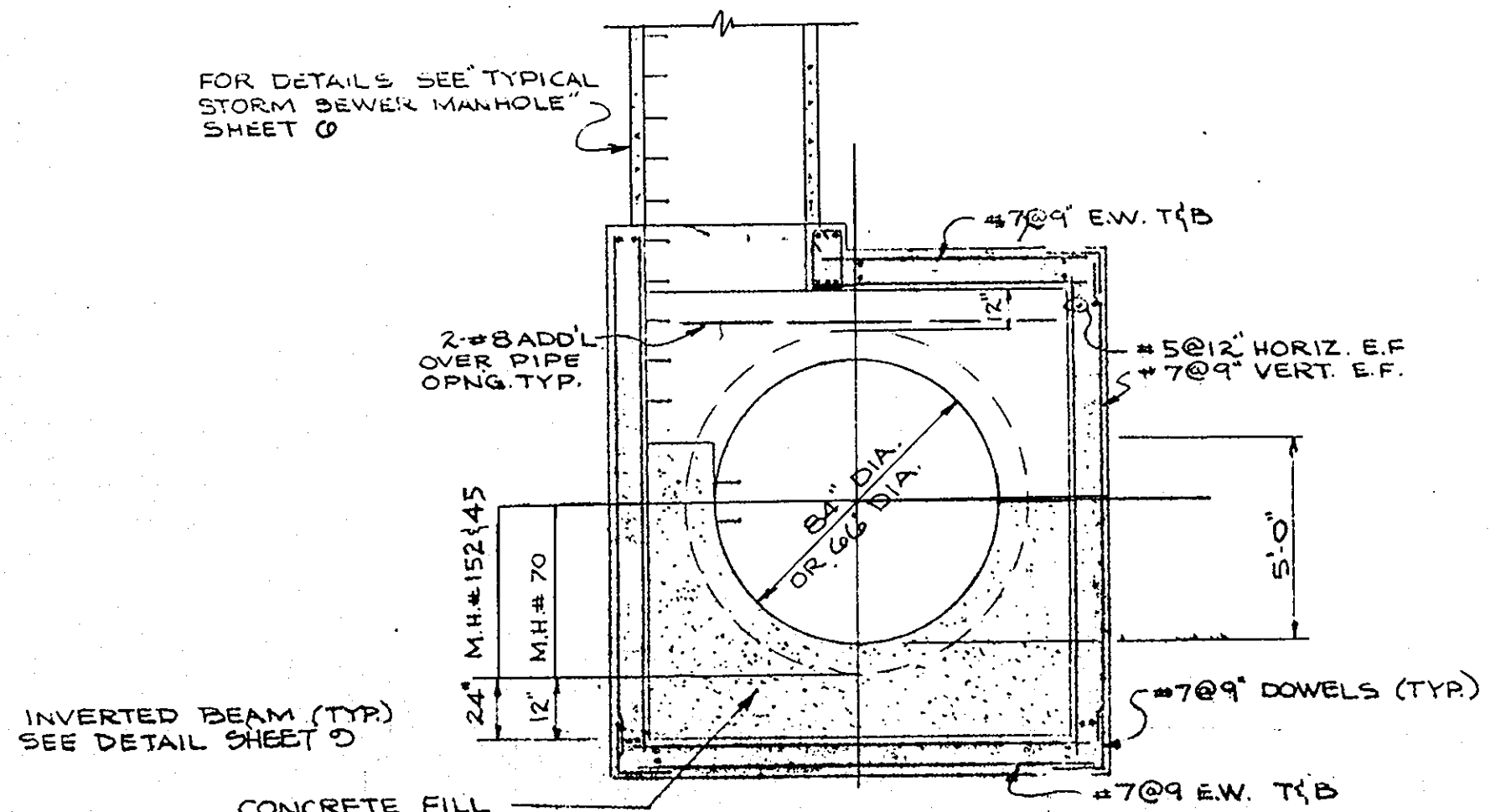


PLAN



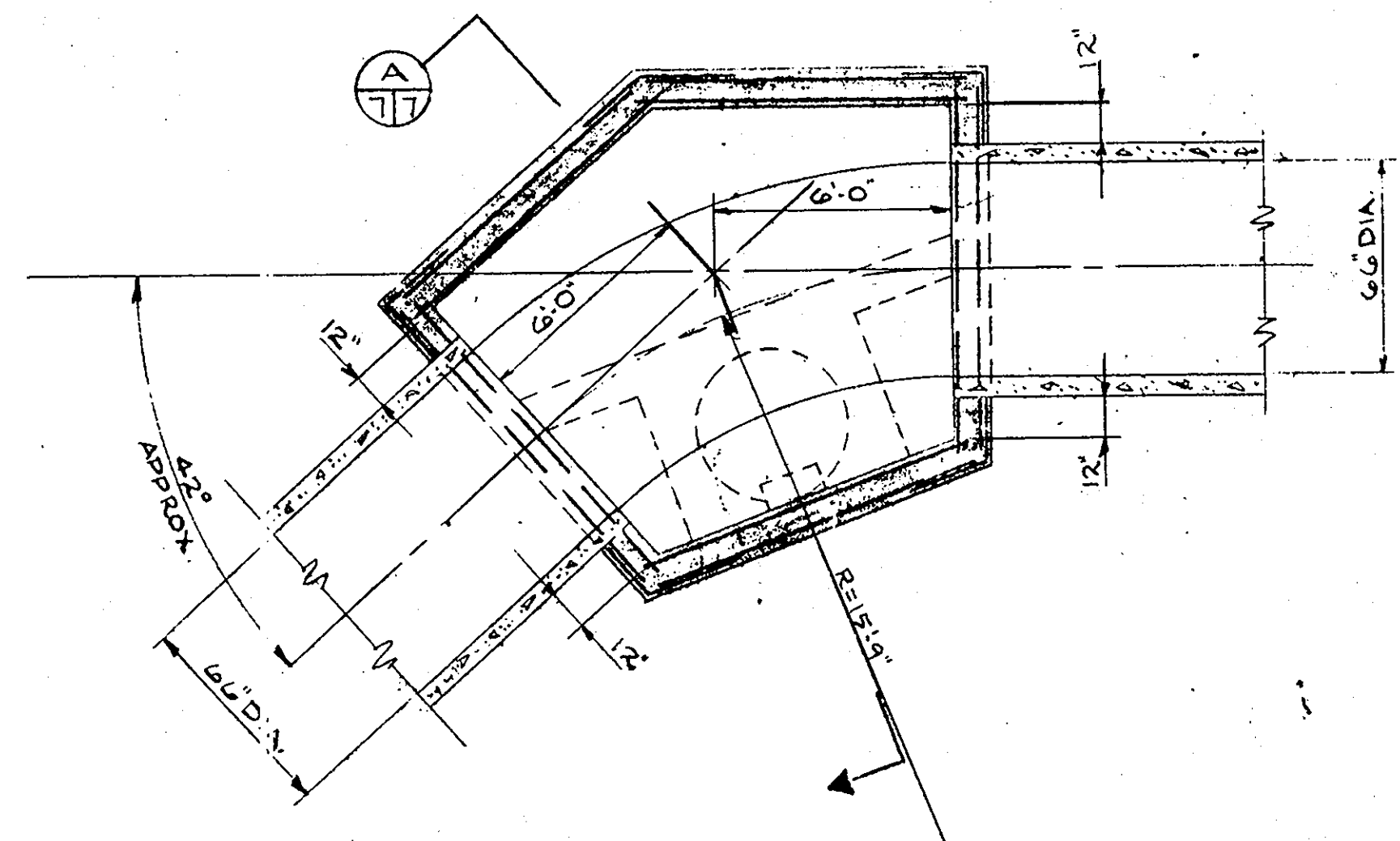
SECTION (F)

TYPICAL MANHOLE DETAIL
FOR BOX CULVERT

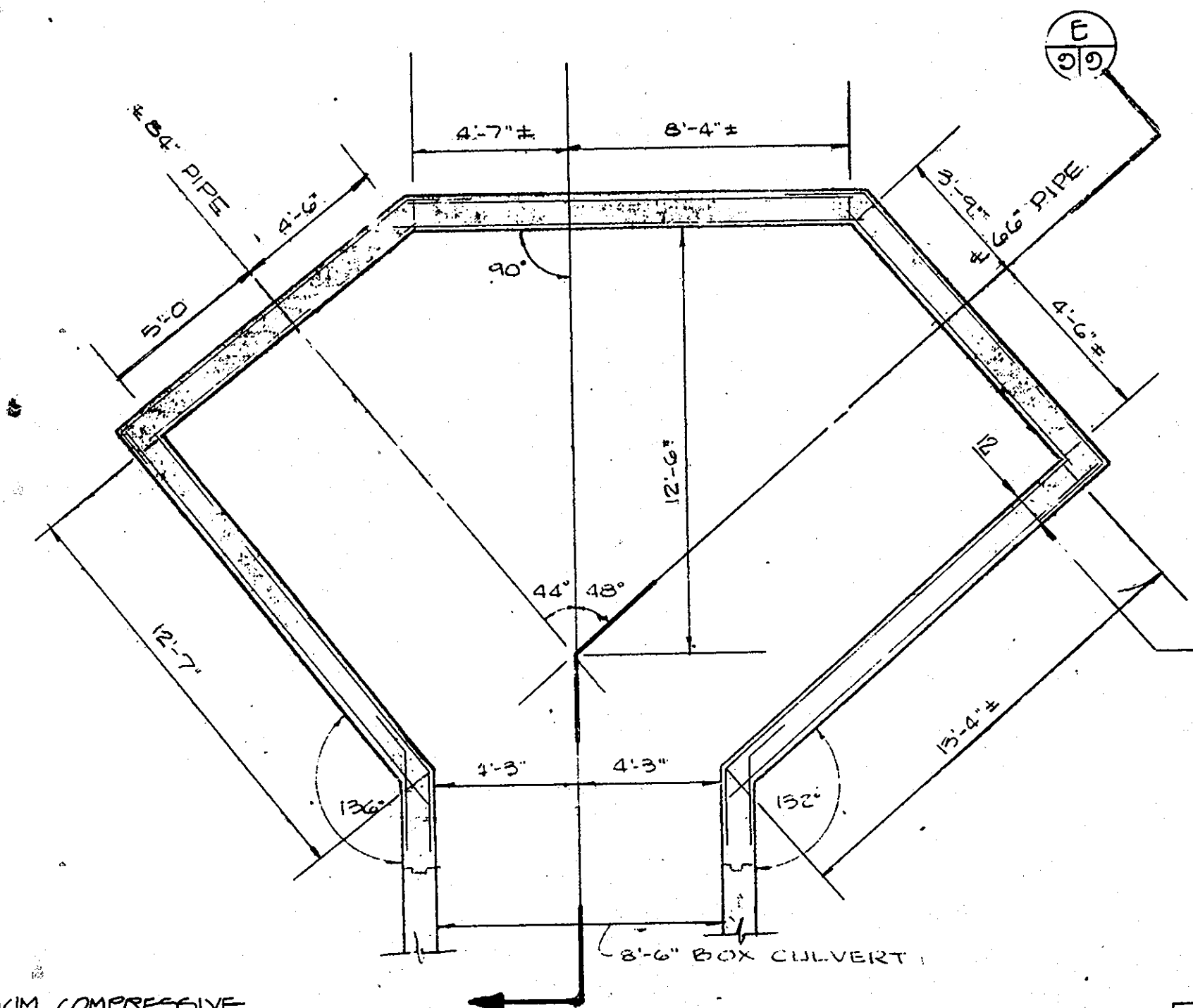


SECTION (A)

SECTION (B) OPP. HAND



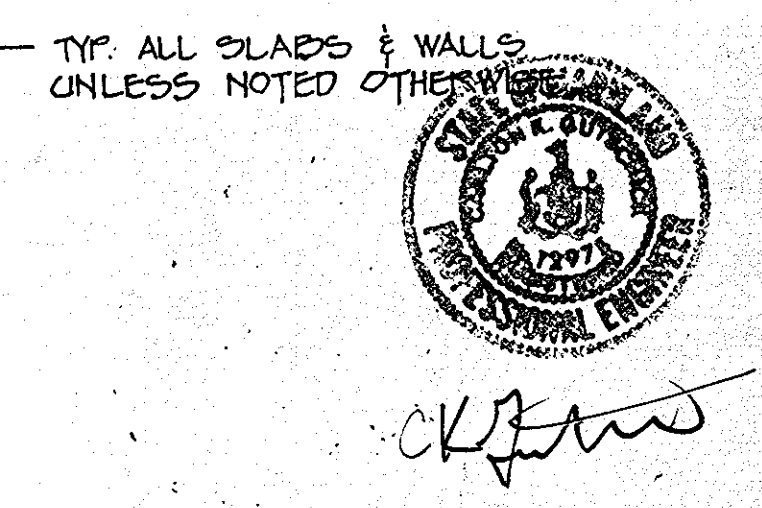
PLAN
MANHOLE #152



PLAN (REVISED)
MANHOLE #160

SEE VOID PLAN FOR STEEL LAYOUT

- GENERAL NOTES:
- 1) ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. @ 28 DAYS, EXCEPT AS NOTED.
 - 2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM - A-615-68 GRADE 40.



Gateway Commerce Center
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 30, 42 & 43 PARCEL 307

STORM DRAIN DETAILS

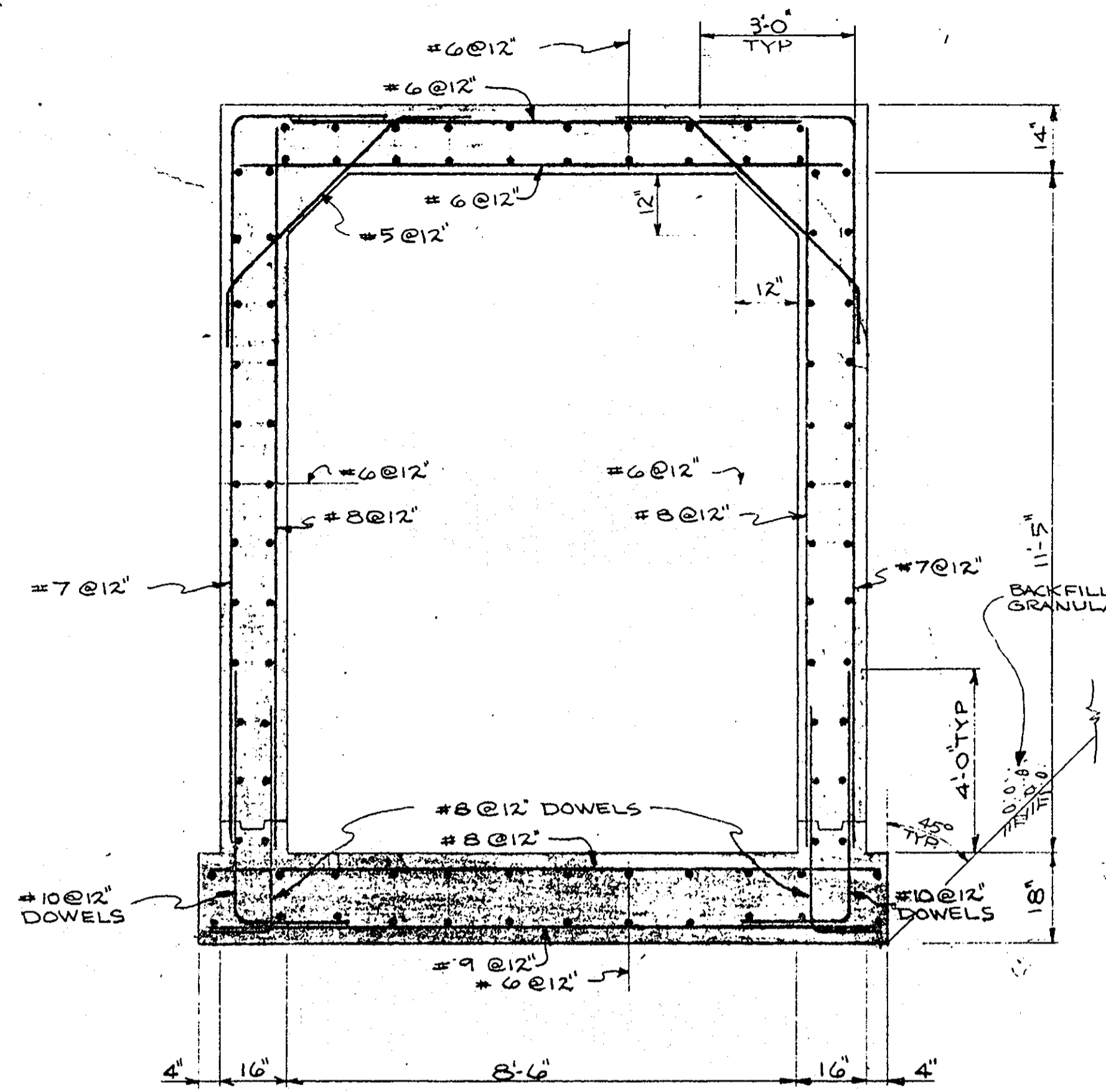
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10273 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

SCALE NONE DATE APRIL 30, 1997 DWG. NO. 7 OF 13
DES. M. TAYLOR BRN. J. ... CHK. ...

F-92-1000 (DPW)

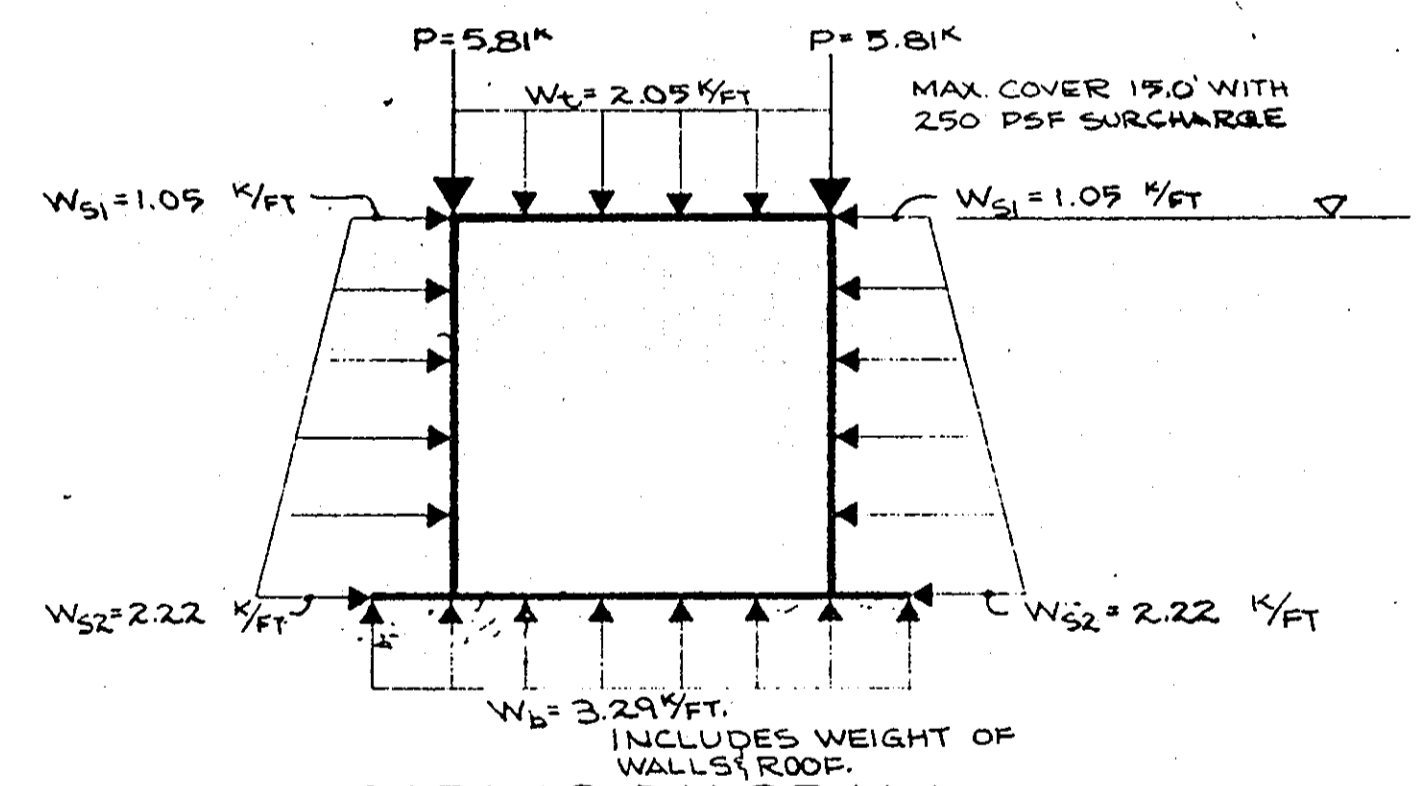
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46-291



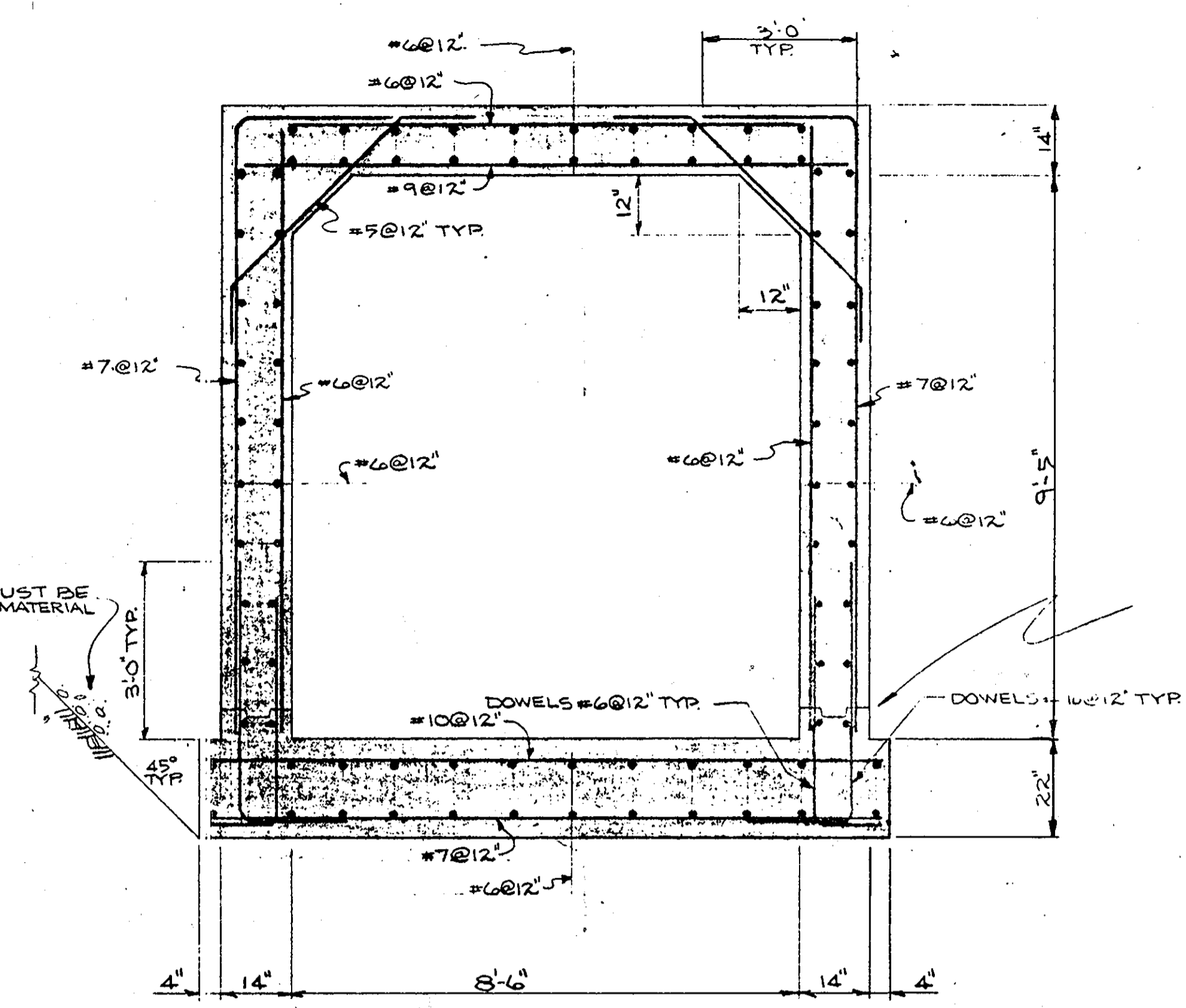
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CONCRETE THIS DETAIL TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.



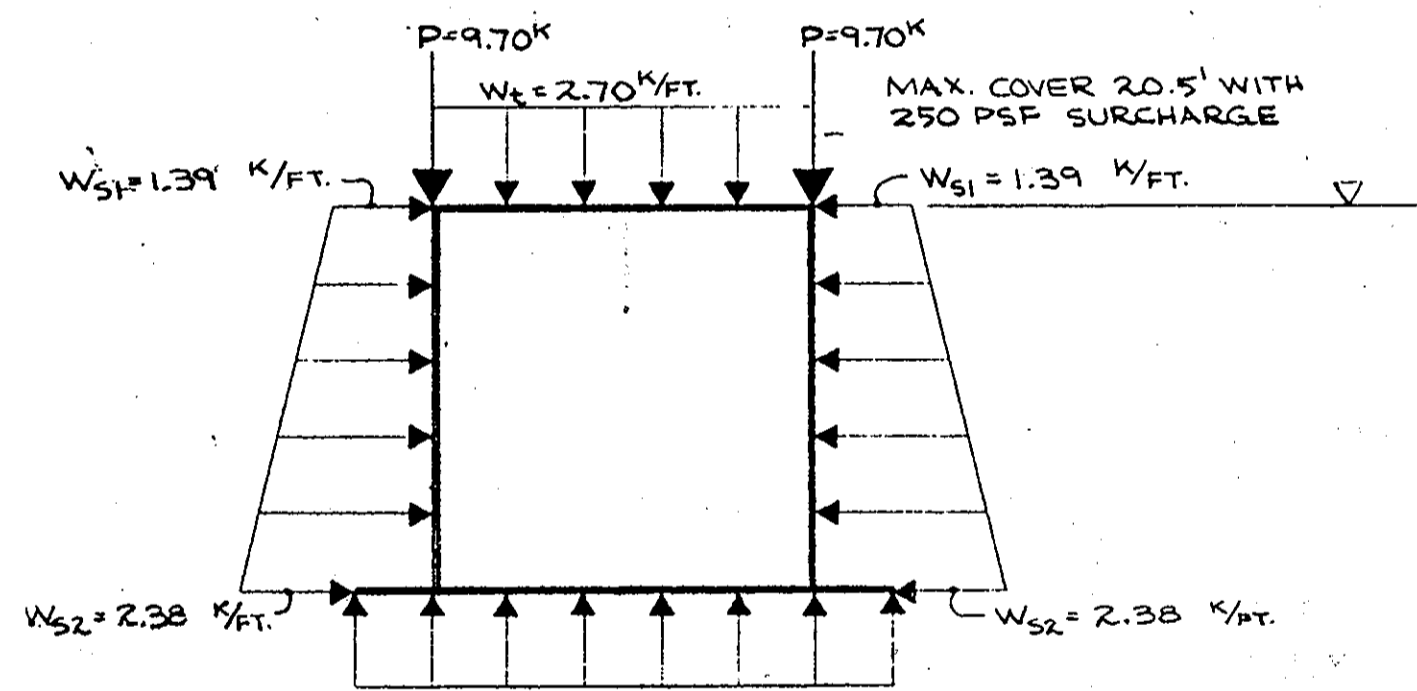
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TYPICAL 11'-5" DEEP BOX CULVERT DETAIL
M.H.#200 TO OUTLET STRUCTURE



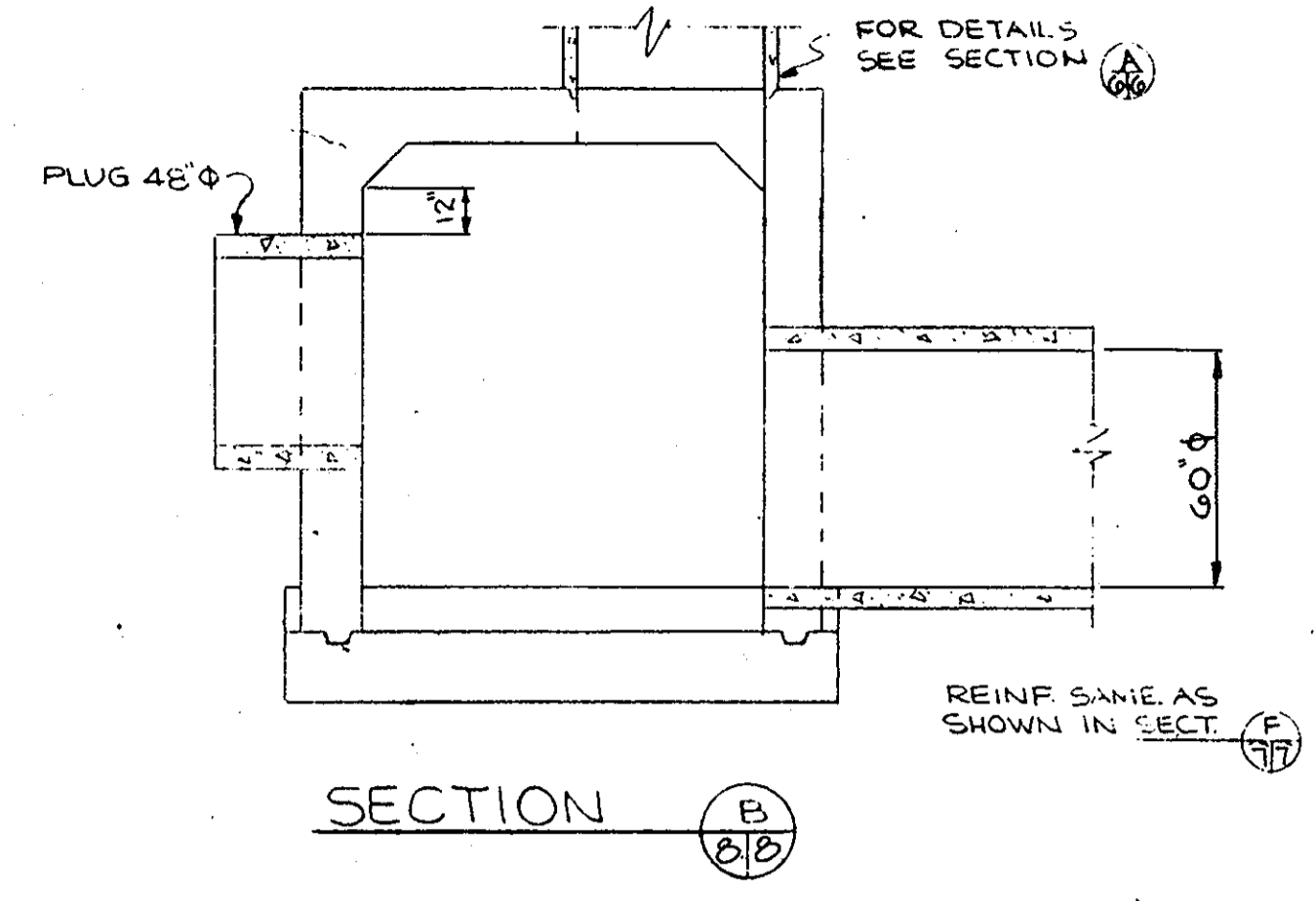
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CONCRETE THIS DETAIL TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.



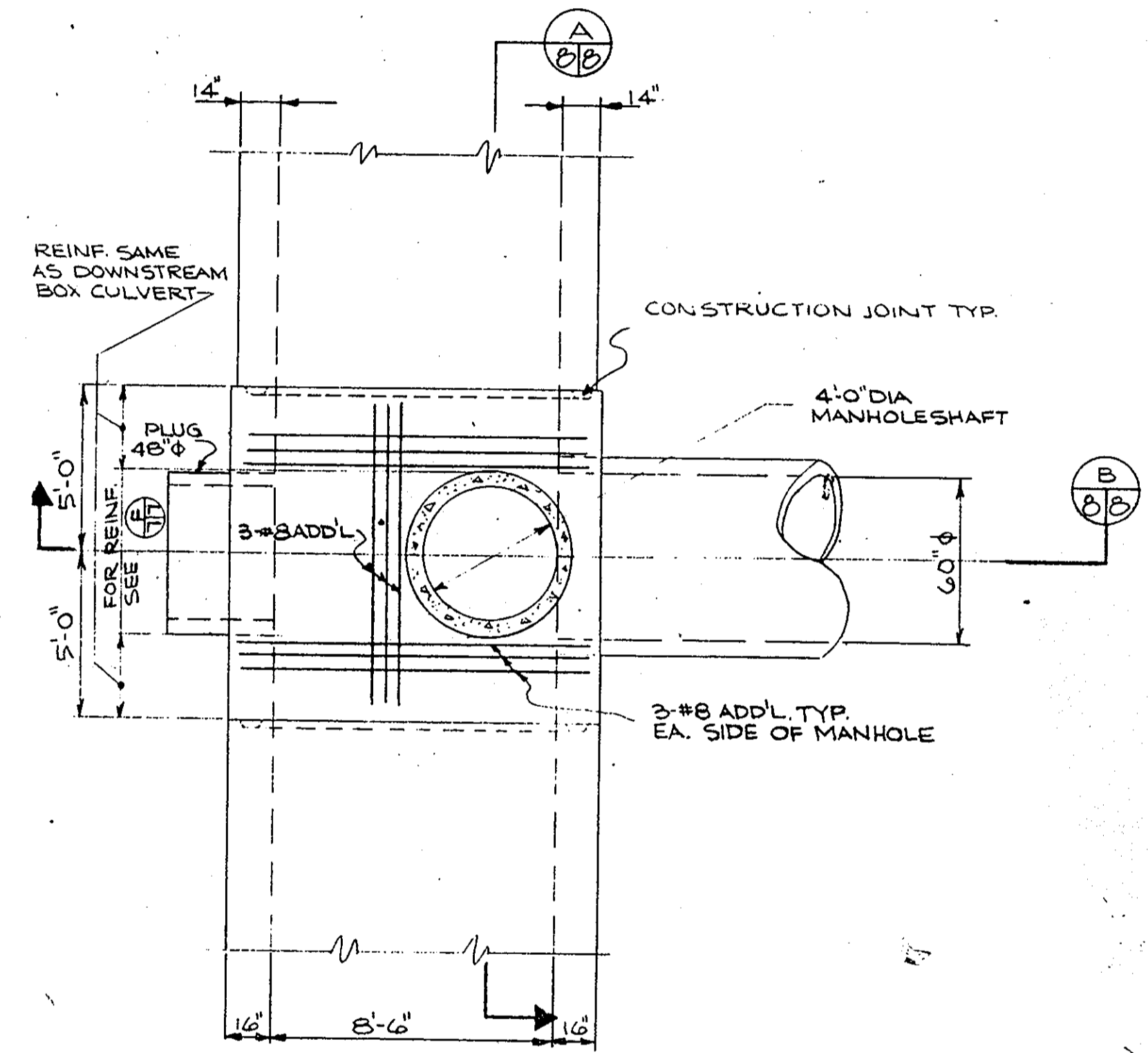
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TYPICAL 9'-5" DEEP BOX CULVERT DETAIL
M.H.#160 TO M.H.#165A

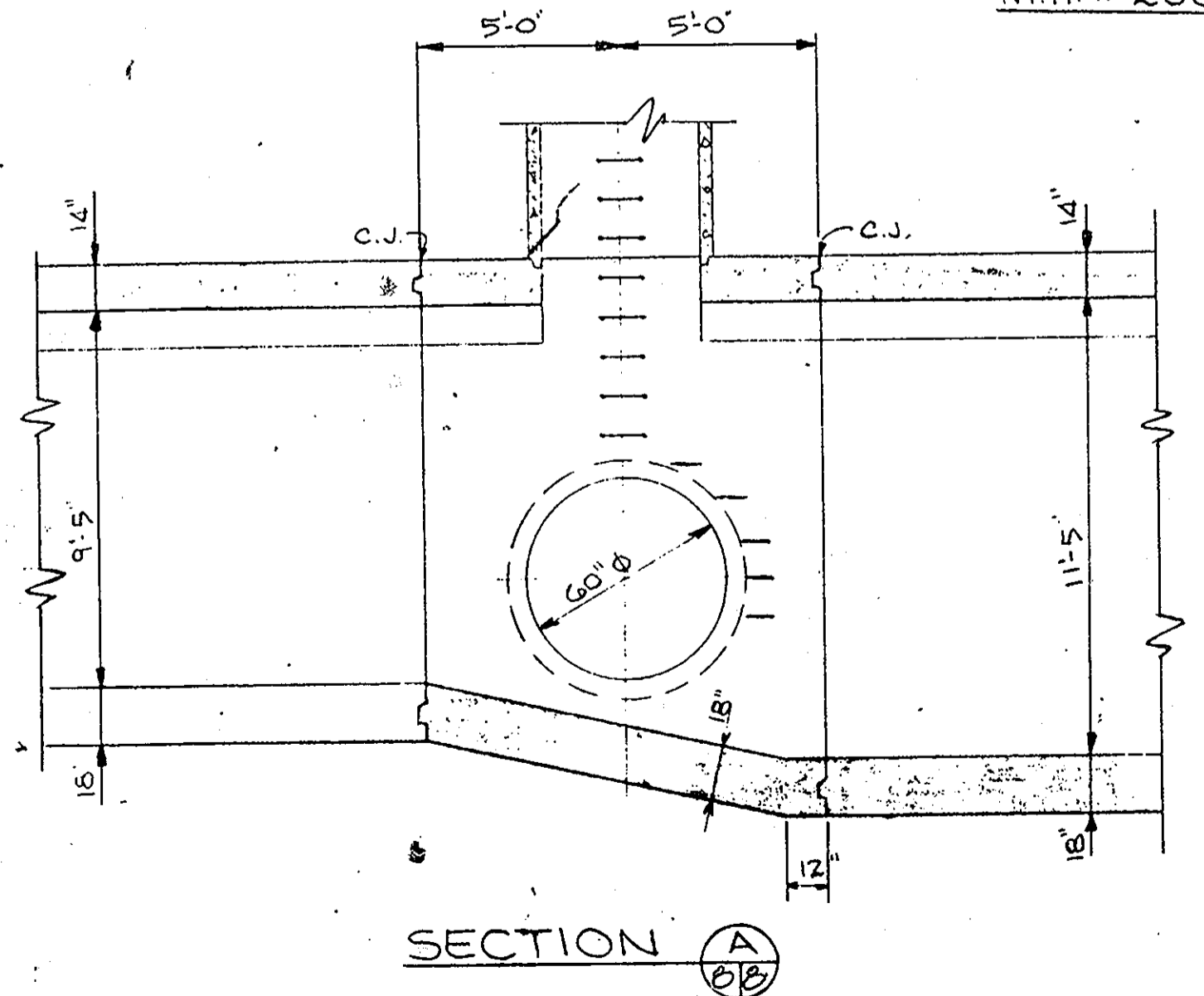


SECTION B

AS BUILT, NOTE: CONC. CURB 6" HIGH POURED MONOLITHIC WITH BASE.



PLAN
M.H.#200



SECTION A

- GENERAL NOTES:
- 1) ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI. @ 28 DAYS, EXCEPT AS NOTED.
 - 2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM - A-615-68 GRADE 40.



APPROVED	DEPARTMENT OF PUBLIC WORKS	
<i>William M. Daniels</i>	CHIEF, LAND DEVELOPMENT DIVISION MKC	7/17/96 DATE
<i>Richard M. Daniels</i>	CHIEF, BUREAU OF HIGHWAYS	12-22-95 DATE
APPROVED	DEPARTMENT OF PUBLIC WORKS	
<i>Richard M. Daniels</i>	CHIEF, BUREAU OF ENGINEERING	7/17/96 DATE
APPROVED	DEPT. OF PLANNING AND ZONING	
<i>Jim Jaraman</i>	CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	8/12/96 DATE
Gateway Commerce Center		
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP DC-42.443 PARCEL 507		
STORM DRAIN DETAILS		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUKENT PARKWAY COLUMBIA, MARYLAND 21044		
SCALE NONE	DATE APRIL 20, 1997	DWG. NO. 2 OF 13
DES. M. TAYLOR	DRN. J. SMITH	CHK. C. OROVO

1158

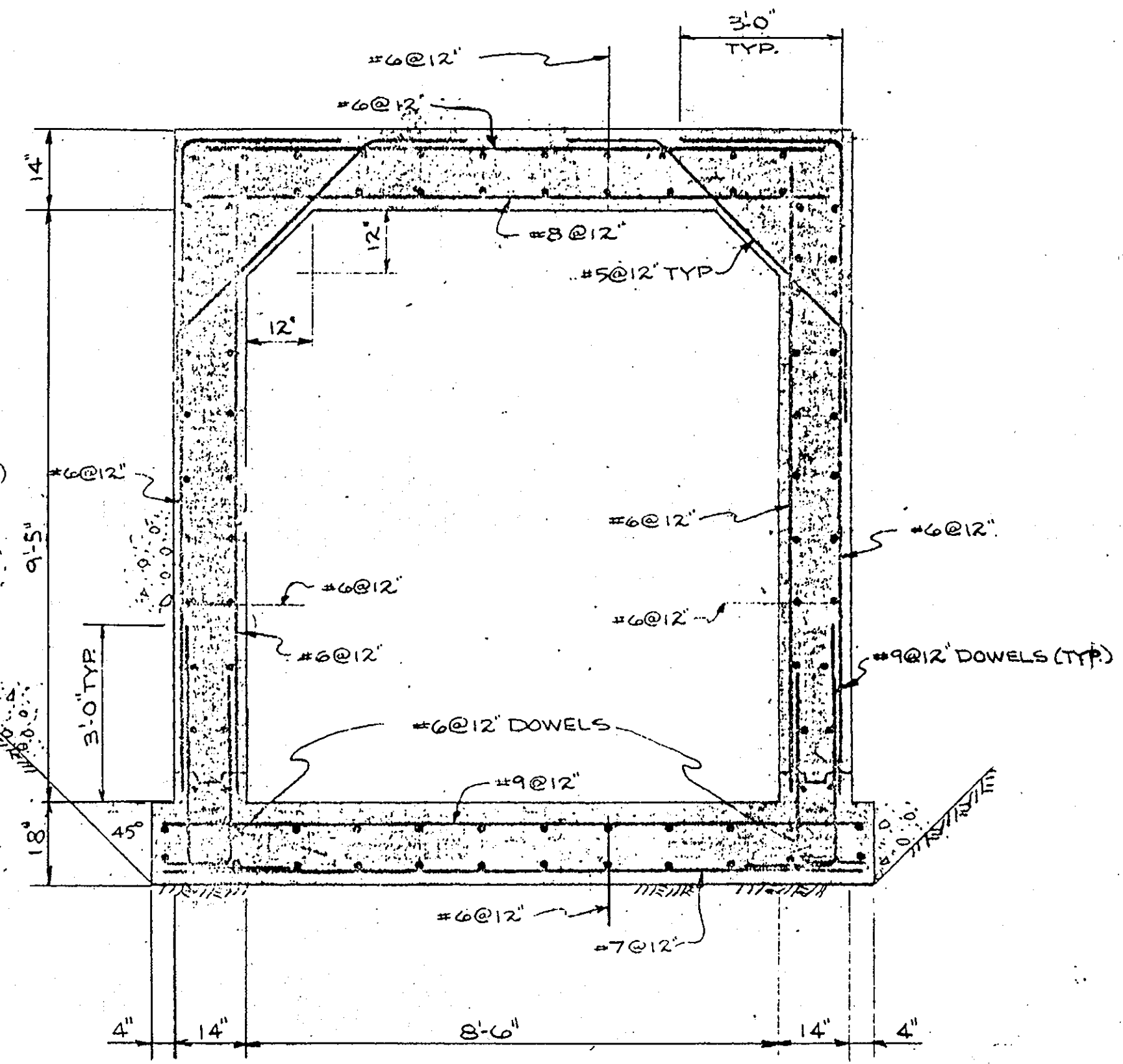
F-92-99

APPROVED
DEPARTMENT OF PUBLIC WORKS
W. D. ... 7/17/96
CHIEF, LAND DEVELOPMENT DIVISION, MK DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Robert M. ... 12/22/95
CHIEF, BUREAU OF HIGHWAYS DATE

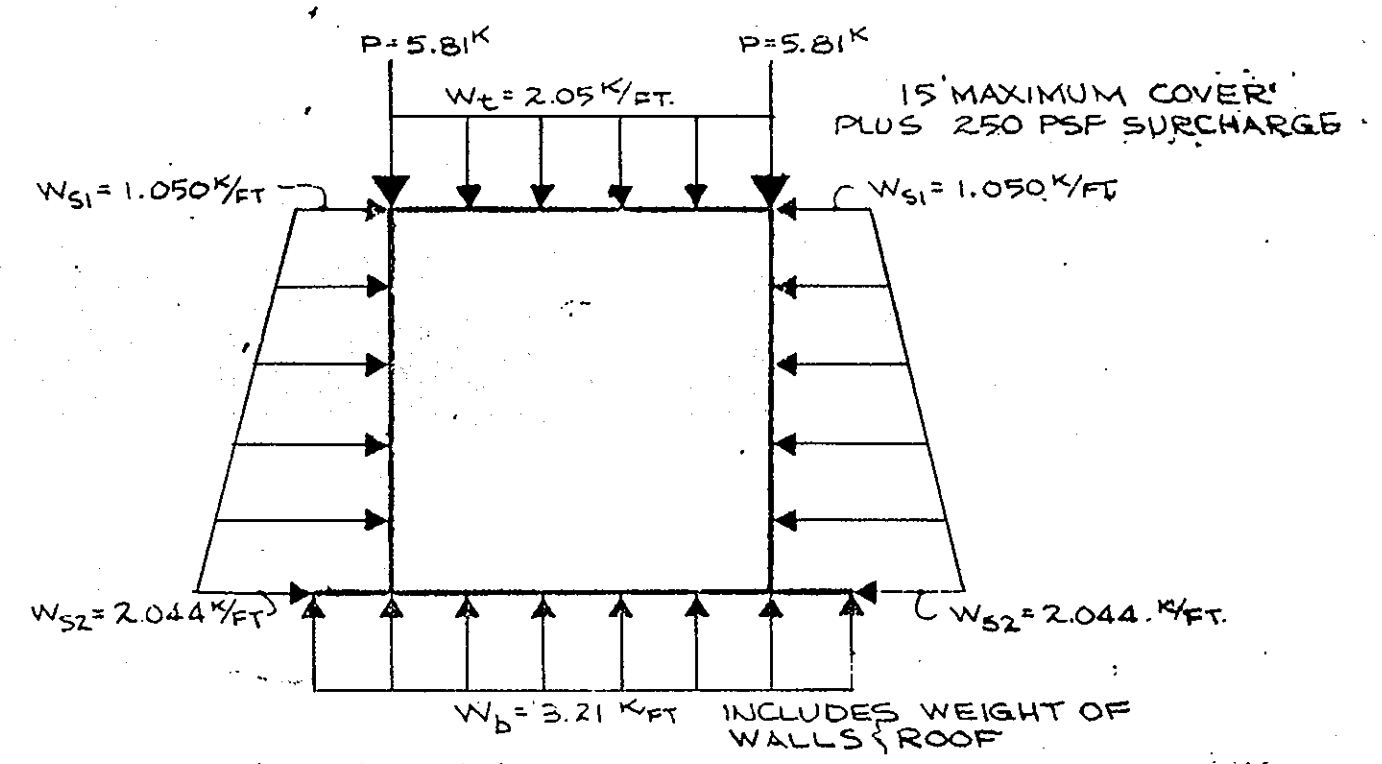
APPROVED
DEPARTMENT OF PUBLIC WORKS
Paul B. ... 7/17/96
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPT. OF PLANNING AND ZONING
Jim ... 8/12/96
CHIEF, Division of Land Development and Research DATE



SECTION

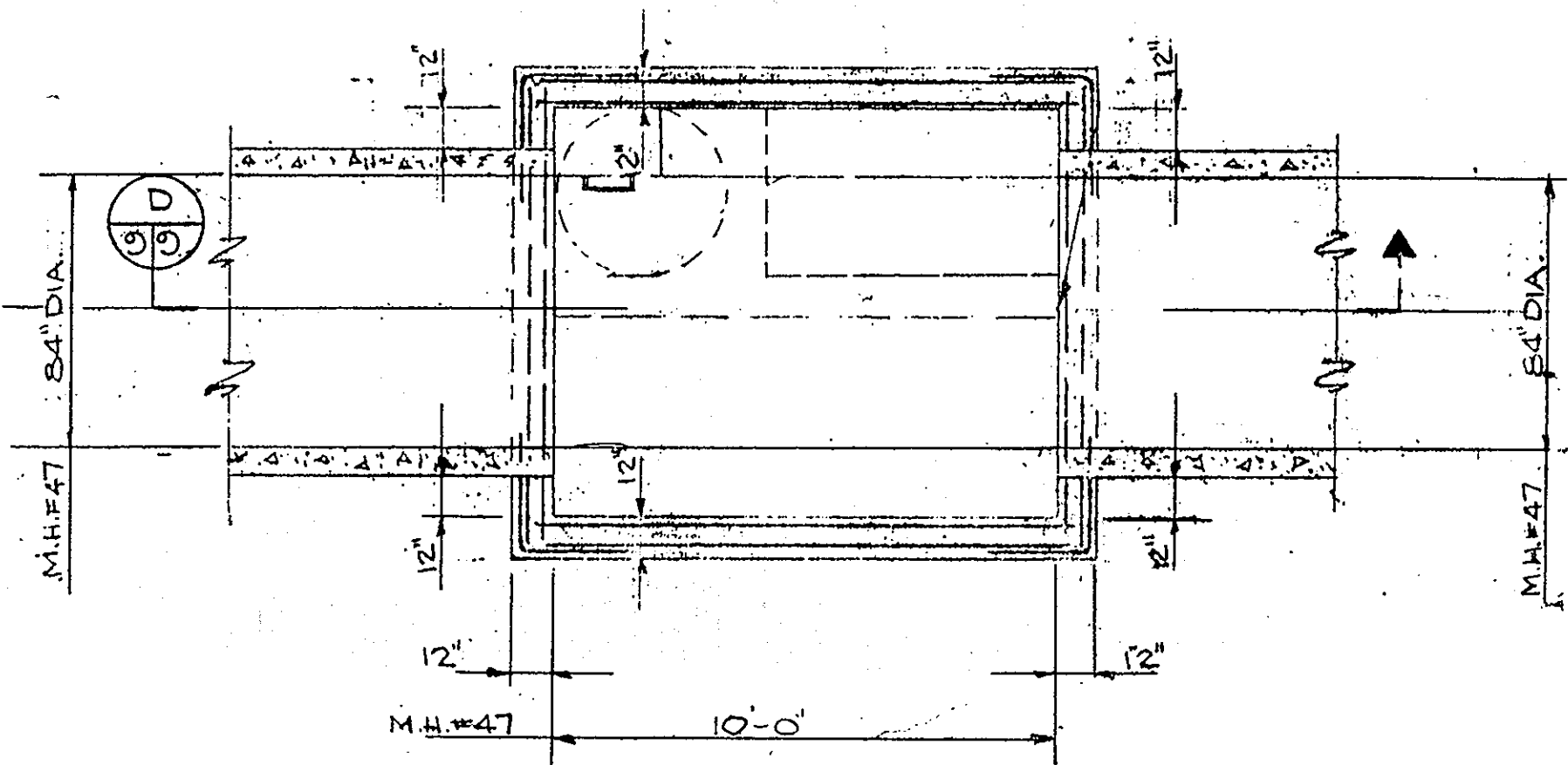
ALL CONCRETE THIS DETAIL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.



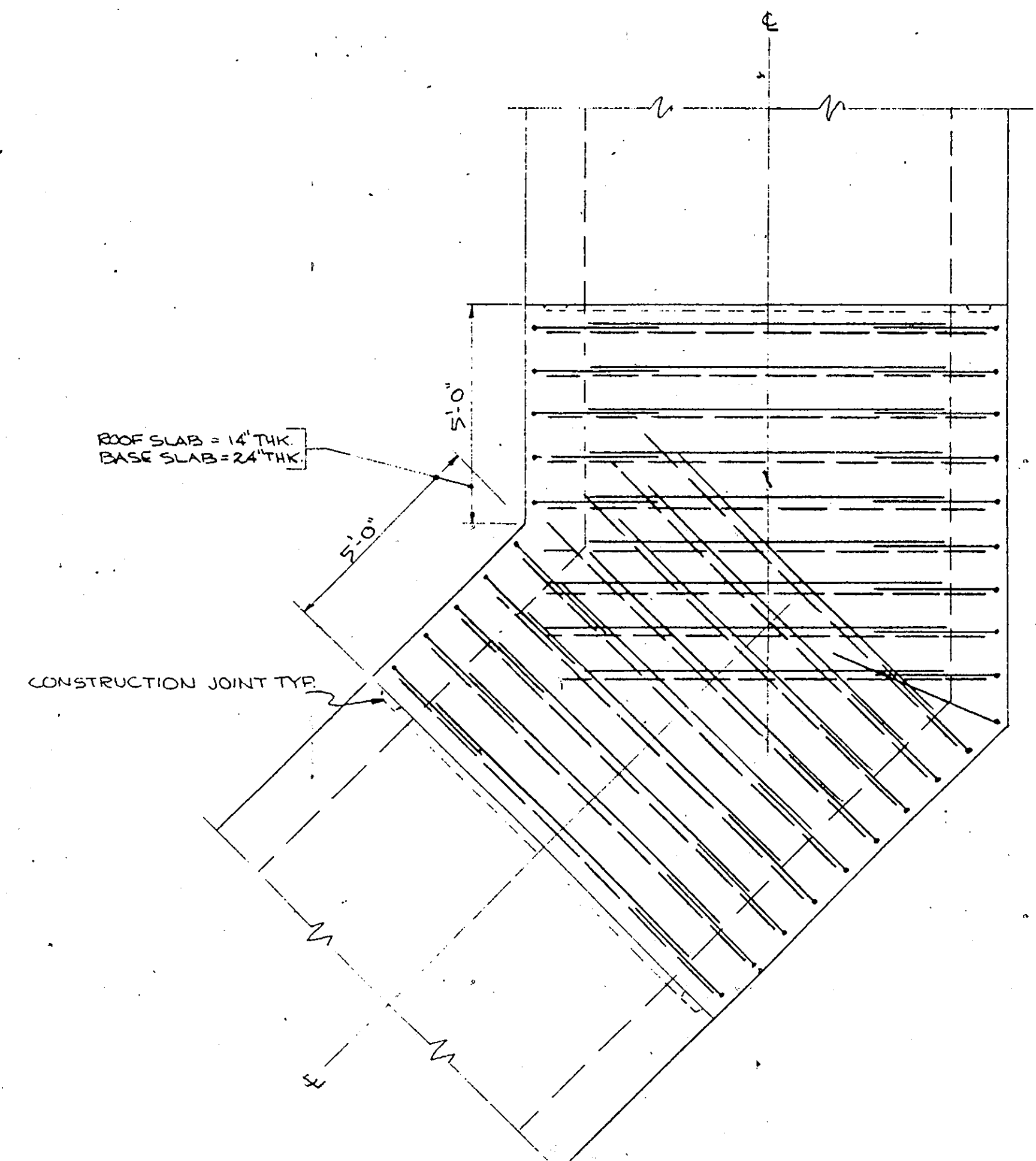
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TYPICAL 9'-5" DEEP BOX CULVERT DETAIL

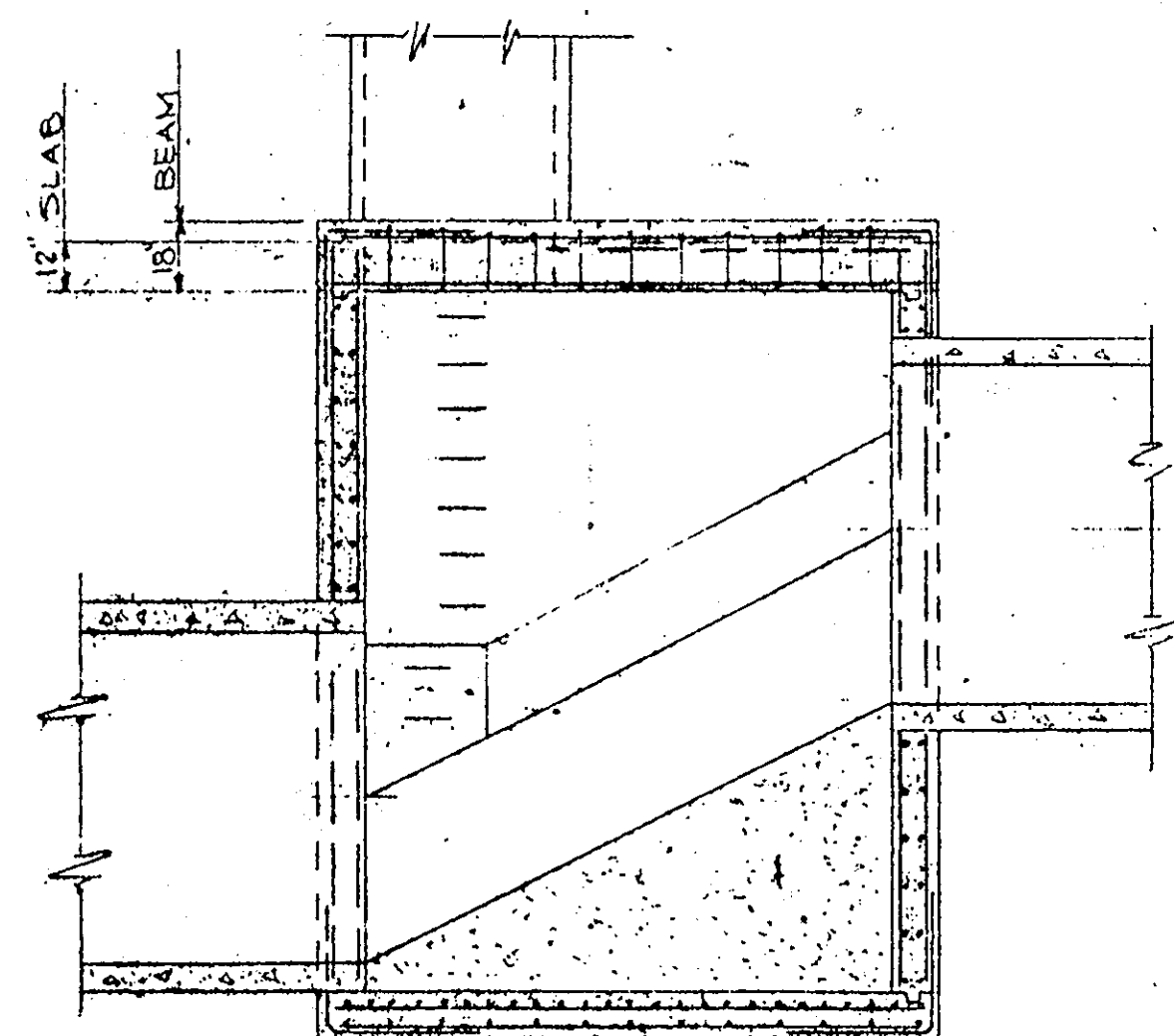
M.H. #167A TO M.H. #200



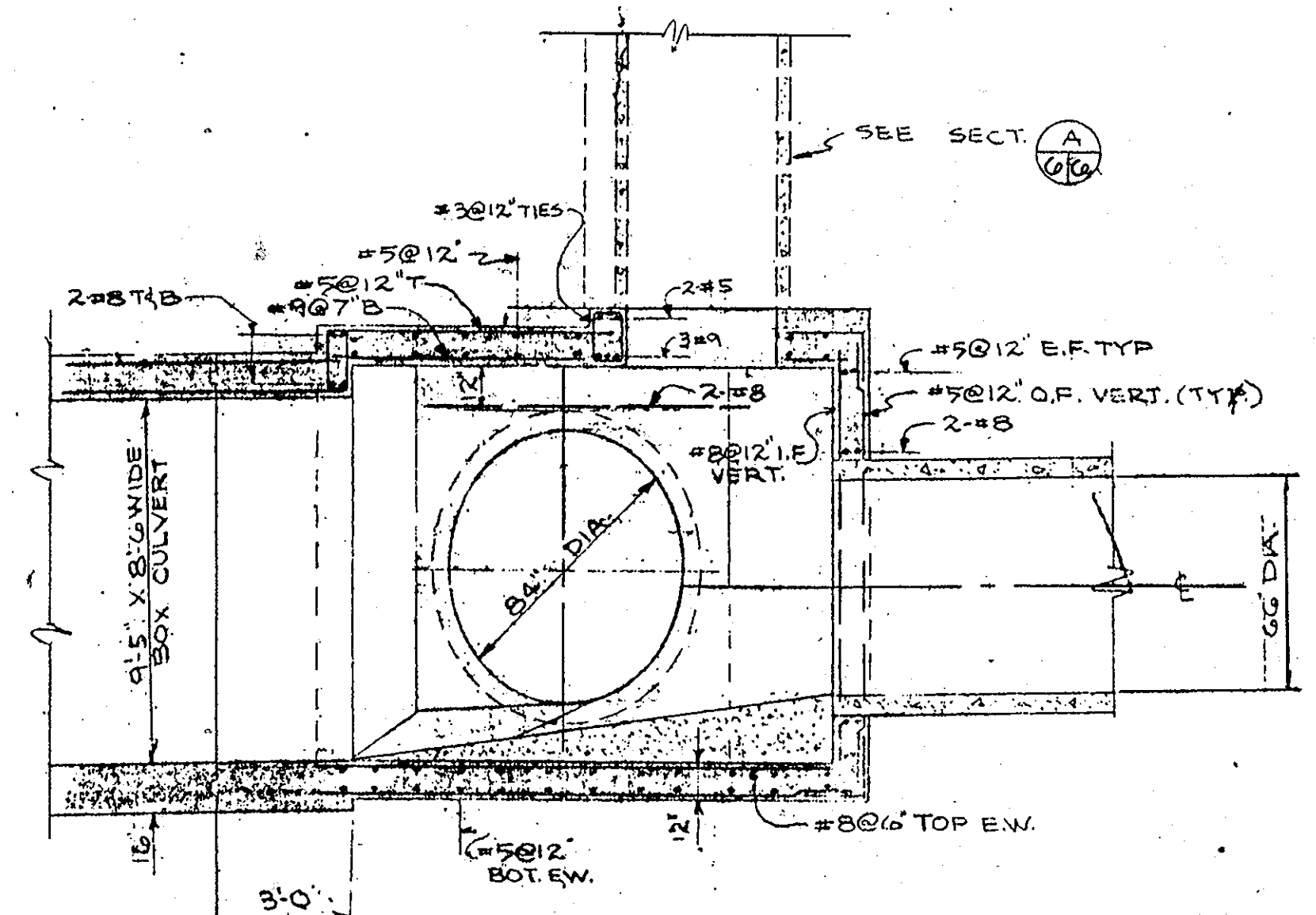
PLAN - M.H.#47A



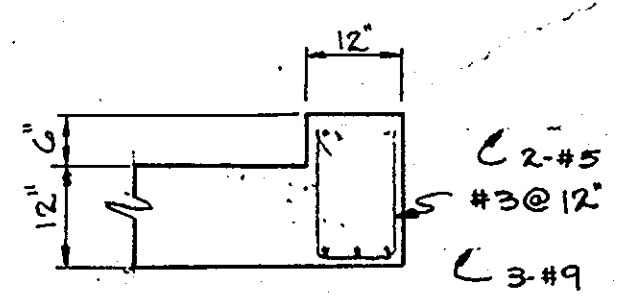
DETAIL - 45° ANGLE BREAK



SECTION D-D



SECTION E-E



TYPICAL BEAM FOR SPECIAL MANHOLES

REINF. SAME AS BOX CULVERT. WORK THIS PLAN WITH TYPICAL 11'-5" DEEP BOX CULVERT DETAIL - THIS SHEET.

GENERAL NOTES:

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS, EXCEPT AS NOTED.
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM-A-615-68 GRADE 40.

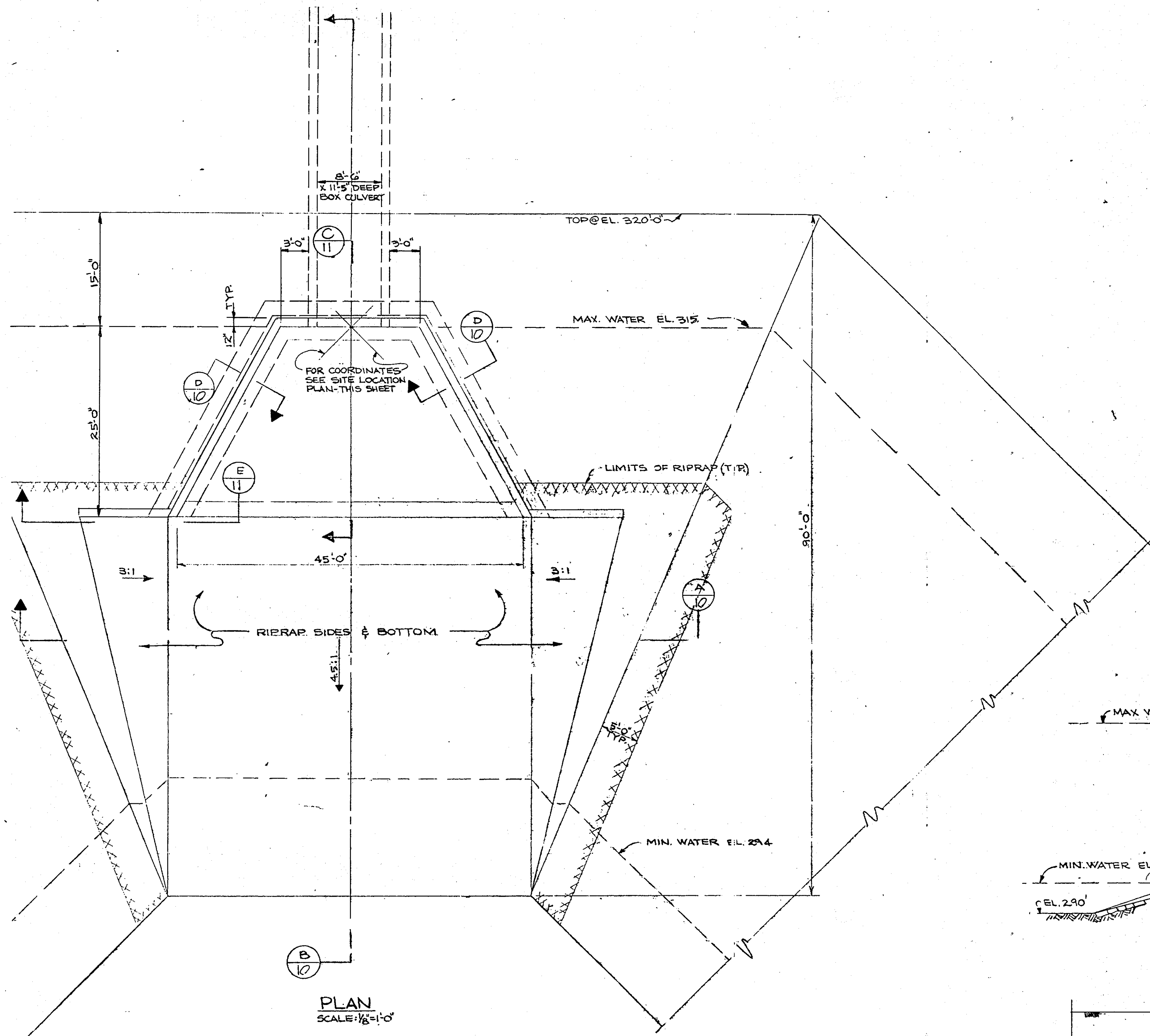


CLJ

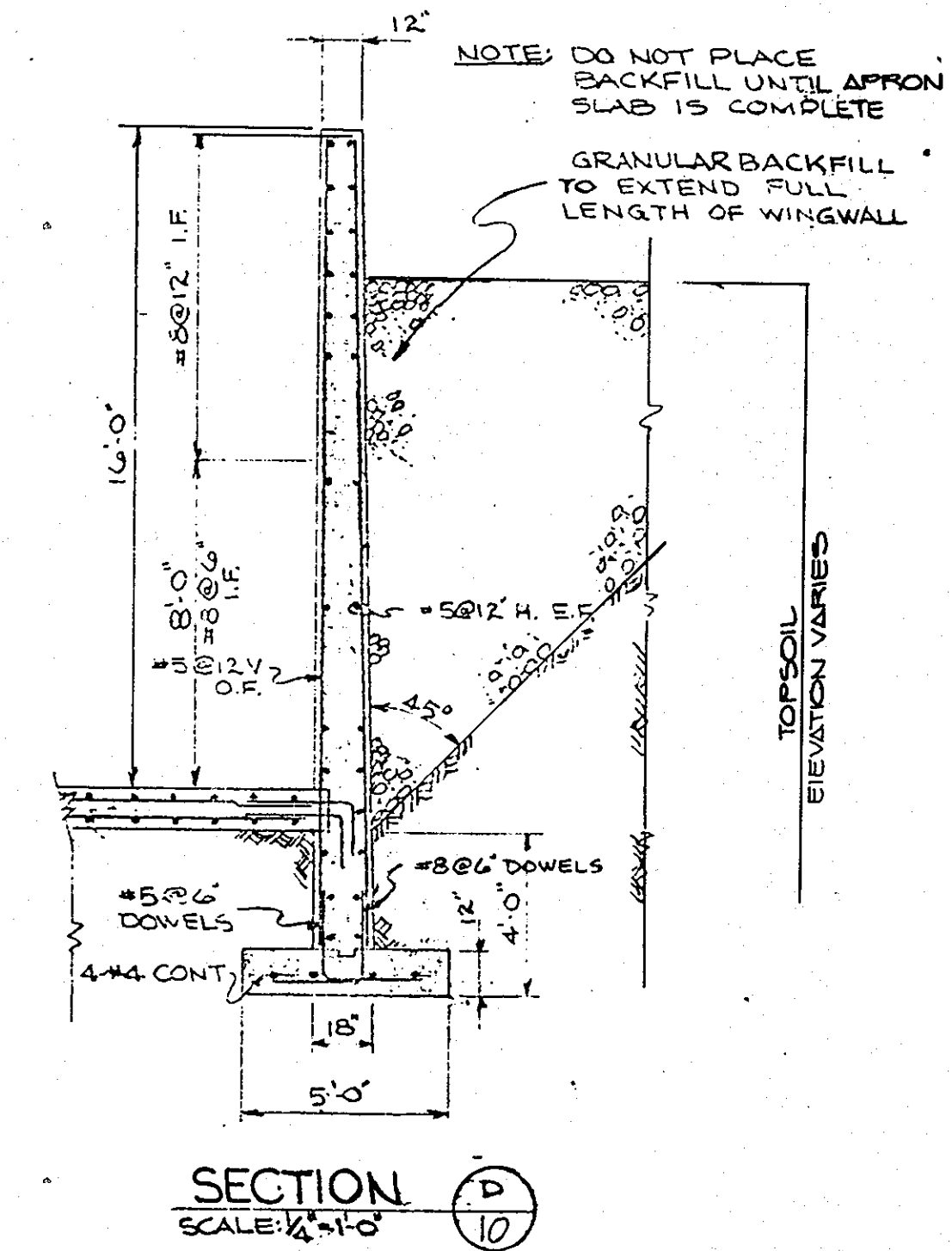
Gateway Commerce Center SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 36, 12, 443 PARCEL 557		
STORM DRAIN DETAILS		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044		
NO SCALE	DATE APRIL 30, 1997	DWG. NO. 7 OF 13
DES. M. TAYLOR	DIR. J. SMITH	CHK. C. O'DVO

1158

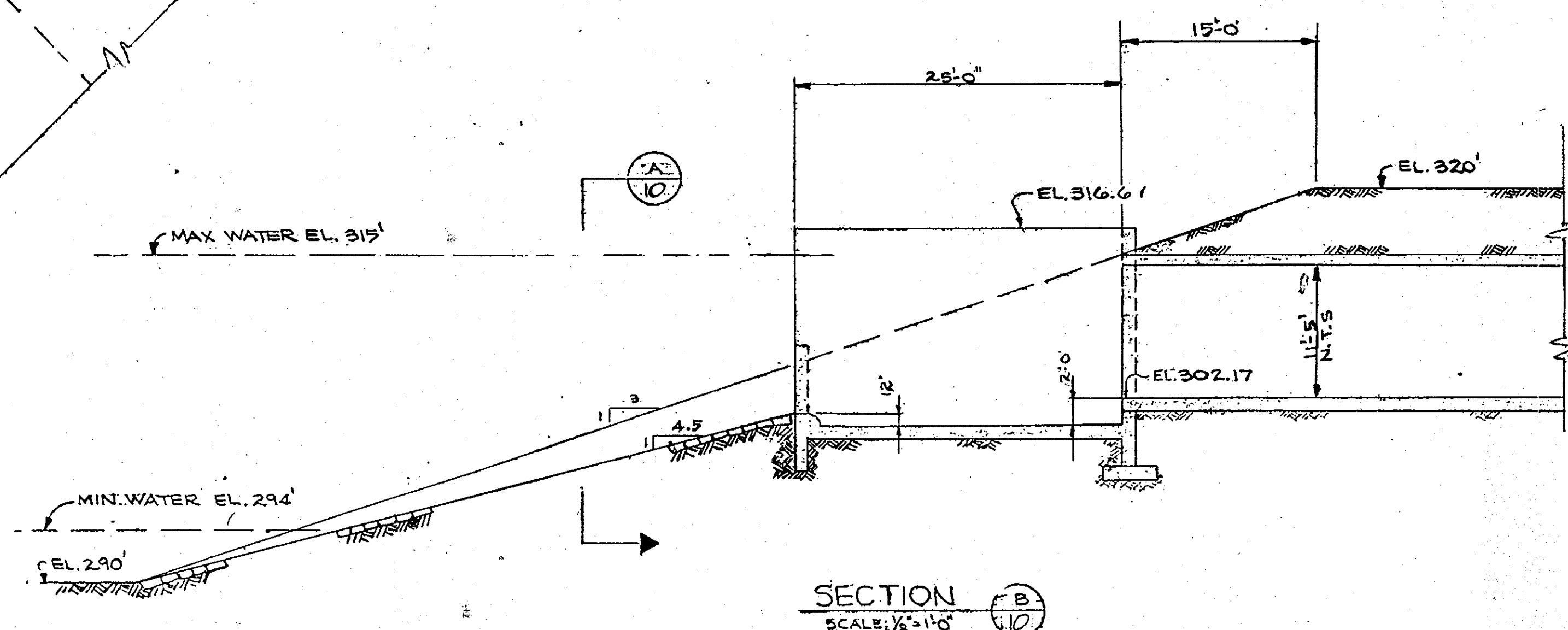
F-92-997



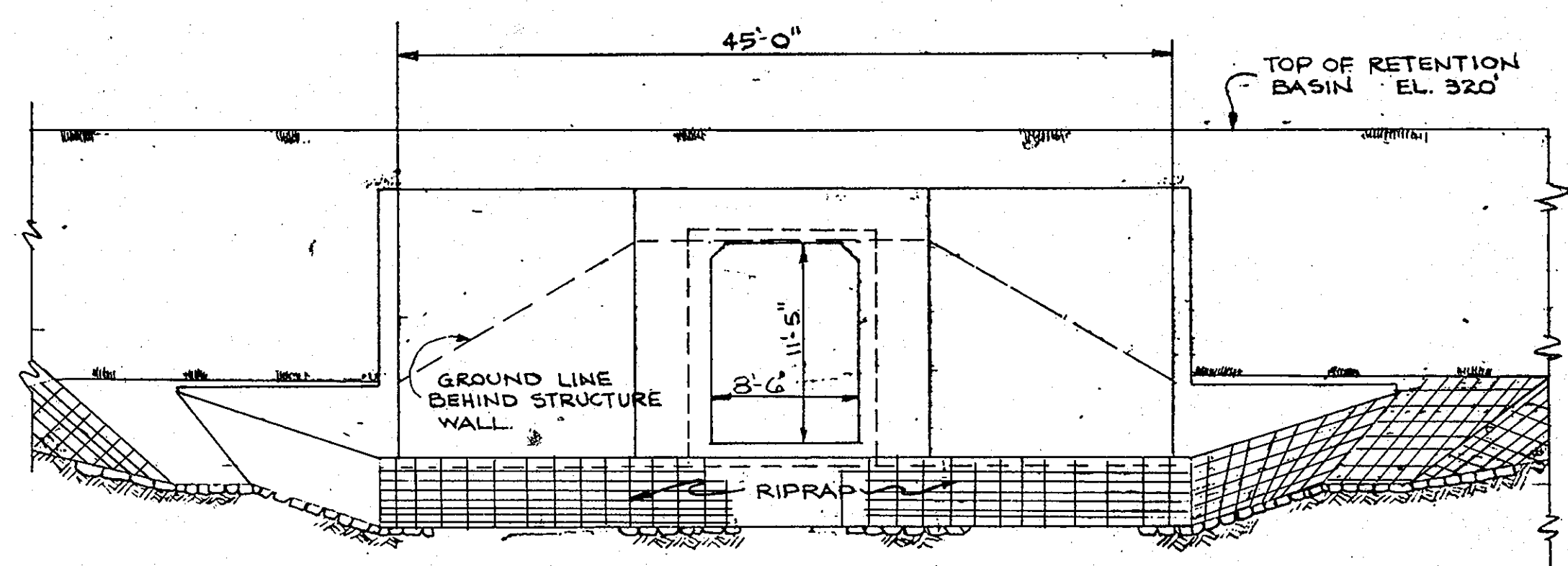
PLAN
SCALE: 1/8" = 1'-0"



SECTION D-D
SCALE: 1/4" = 1'-0"



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



SECTION B-B
SCALE: 1/8" = 1'-0"

- GENERAL NOTES:
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS, EXCEPT AS NOTED.
 2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM-A-615-68 GRADE 42.

APPROVED
DEPARTMENT OF PUBLIC WORKS
Michael J. ... 7/17/96
CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Richard M. ... 12-22-95
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Paul S. ... 7/17/96
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPT. OF PLANNING AND ZONING
Jim ... 8/2/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE



ckjms

Gateway Commerce Center
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 26-92 & 93 PARCEL 507

OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
10279 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

DES. M. TAYLOR | DRN. I. SMITH | CHK. C. CROVO

DWG. NO. 10 OF 12

1158

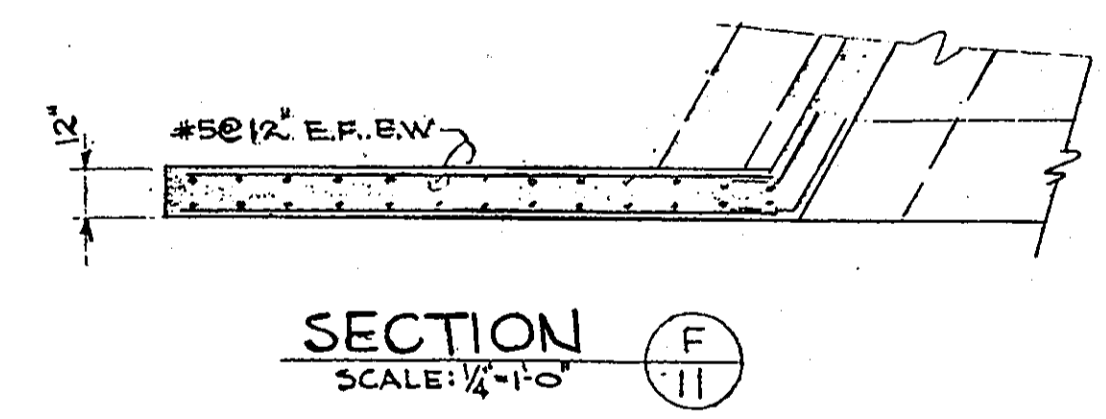
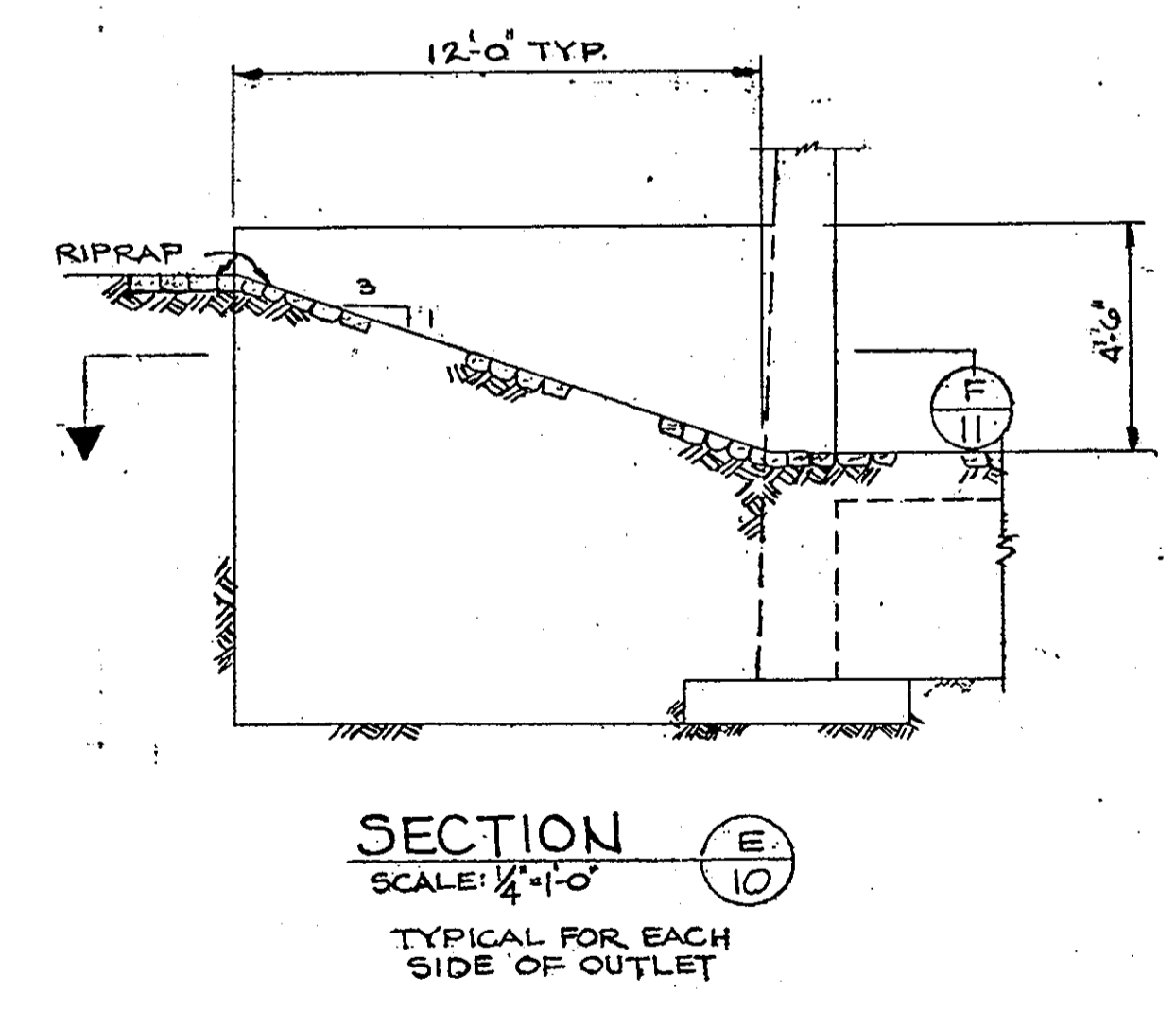
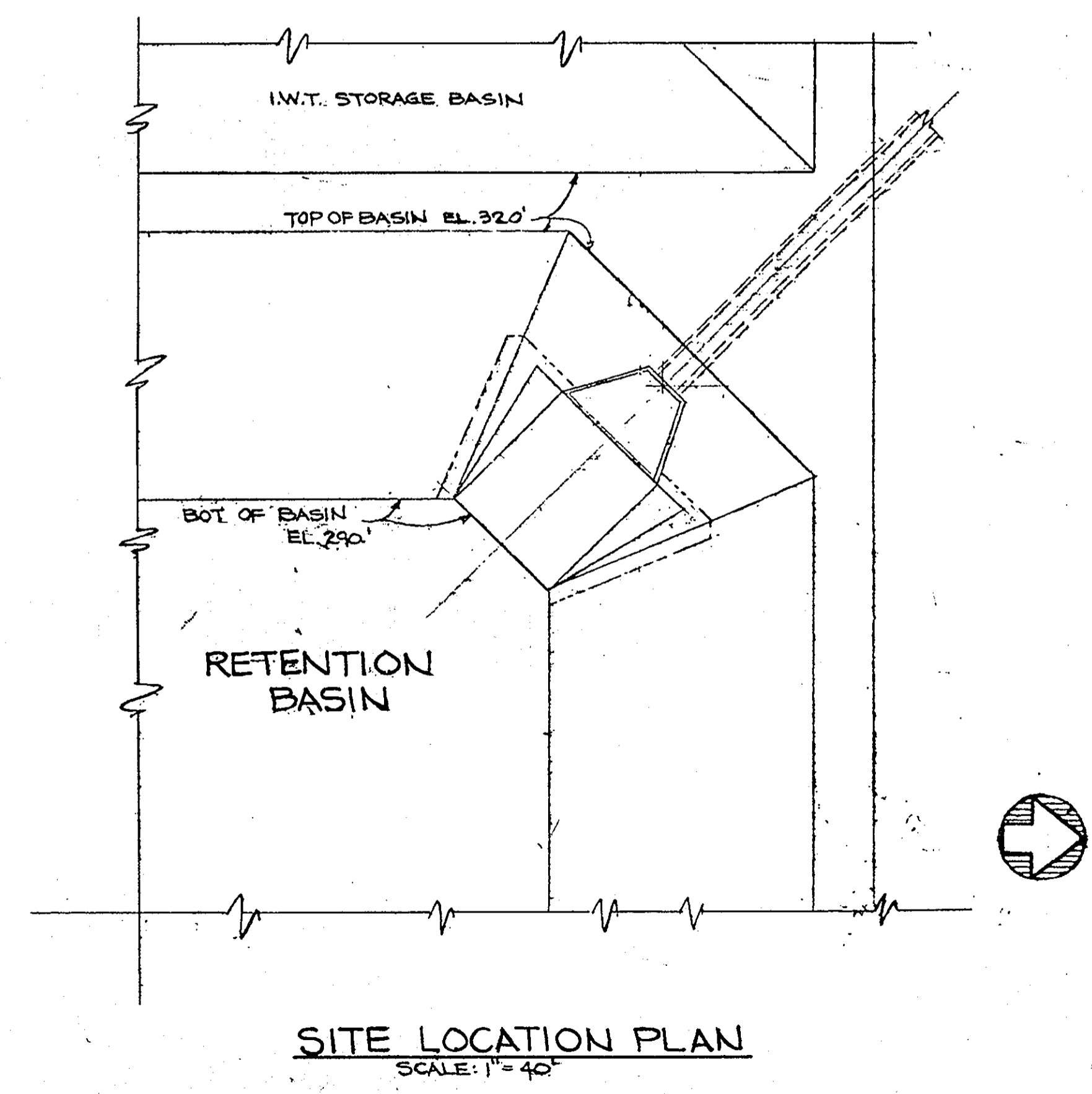
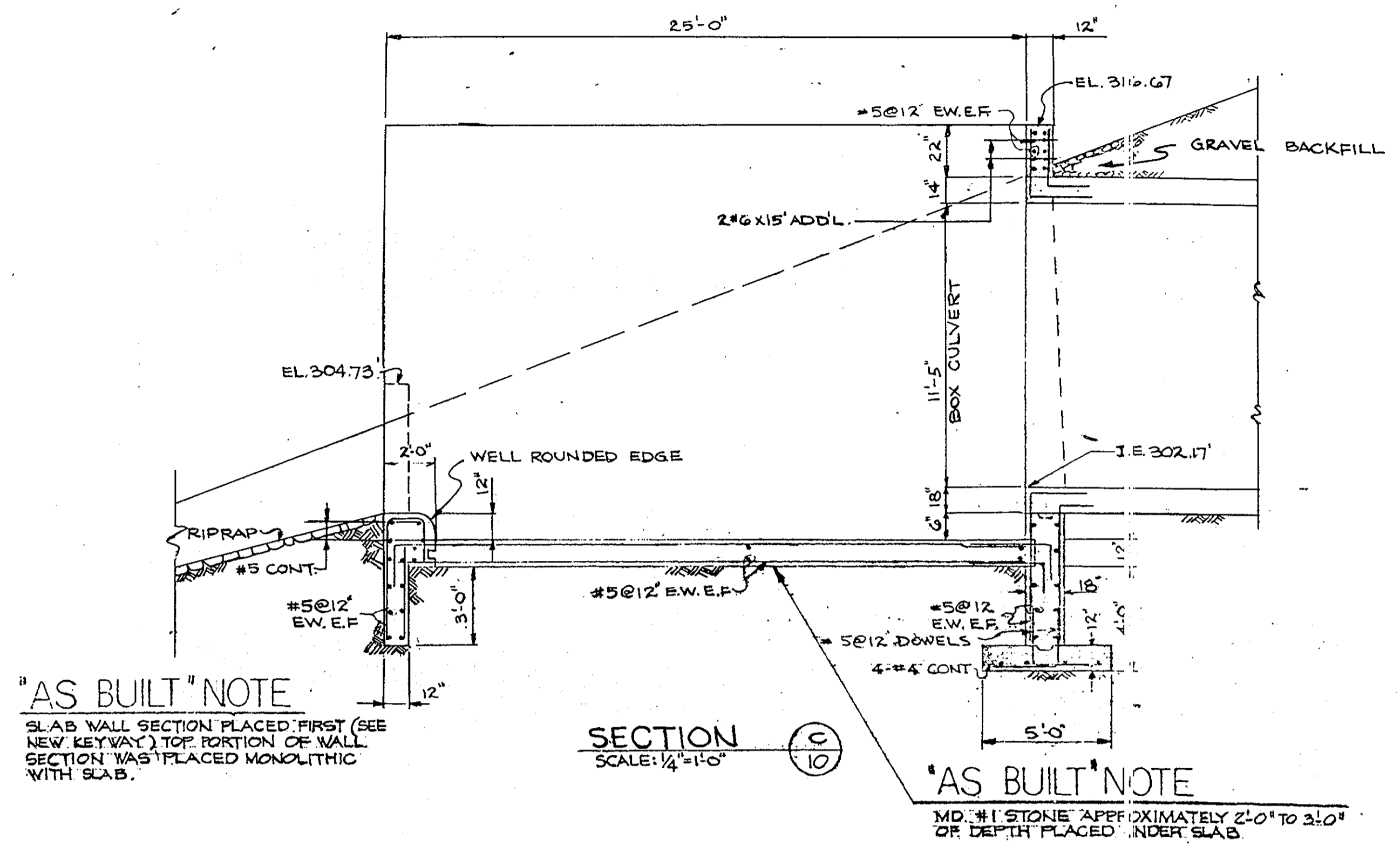
166-25-F-92-997

APPROVED DEPARTMENT OF PUBLIC WORKS
John P. ... 7/17/96 DATE
 CHIEF, LAND DEVELOPMENT DIVISION MK

Andrew M. ... 12/22/95 DATE
 CHIEF, BUREAU OF HIGHWAYS HS

APPROVED DEPARTMENT OF PUBLIC WORKS
Robert ... 7/17/96 DATE
 CHIEF, BUREAU OF ENGINEERING

APPROVED DEPT. OF PLANNING AND ZONING
Jim ... 8/12/96 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH



- NOTES:
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.
 2. REINFORCING STEEL SHALL CONFORM TO ASTM DESIGNATION A-615-68 GRADE 40.
 3. RIPRAP TO HAVE MINIMUM DEPTH OF 3', & PLACED WITH MORTAR.

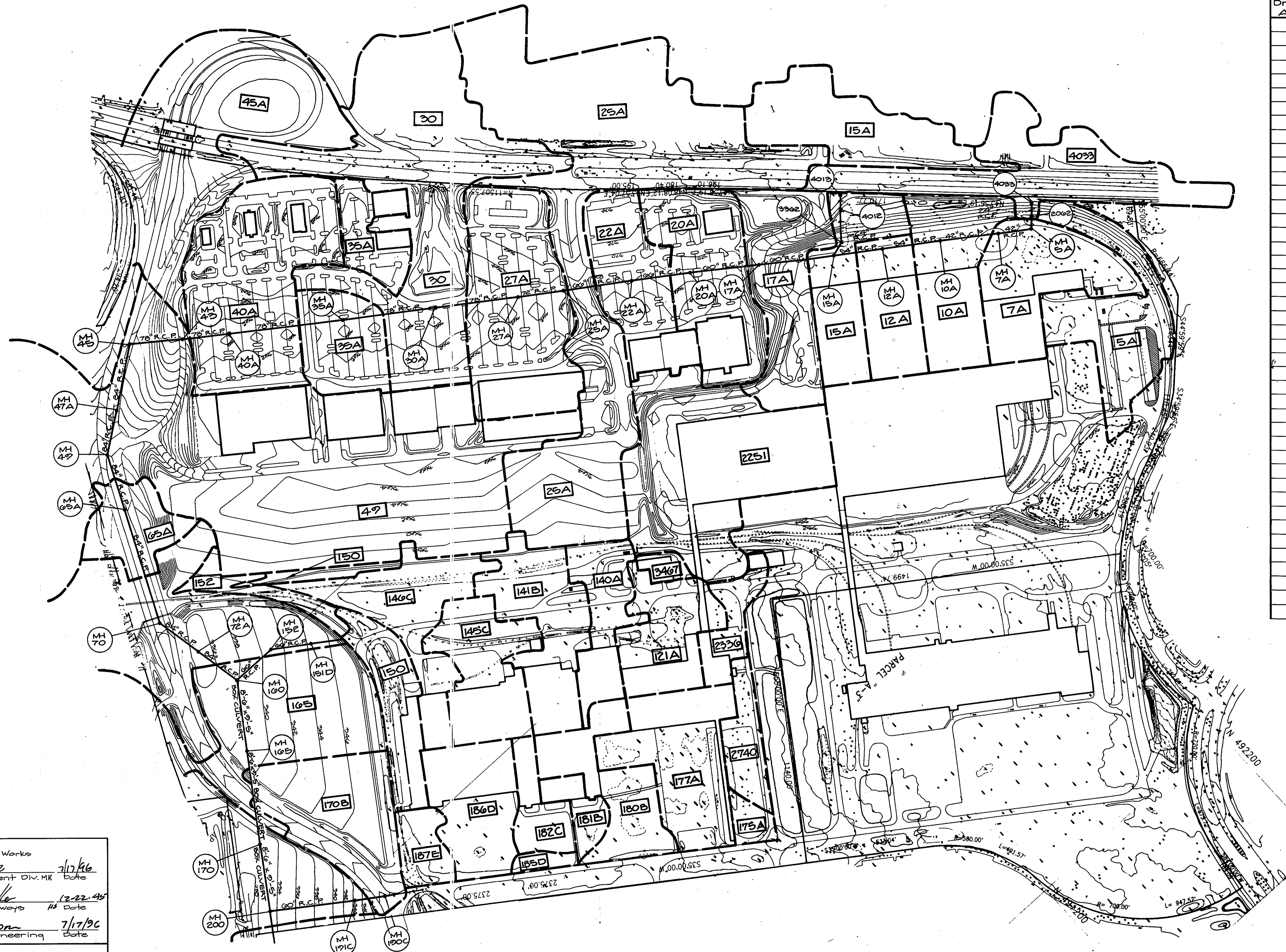


CK Jones

Gateway Commerce Center		
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP 36, 42 & 43 PARCEL 507		
OWNER AND DEVELOPER: HOWARD RESEARCH AND DEVELOPMENT CORP. 10278 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044		
SCALE AS SHOWN	DATE APRIL 30, 1996	DWG. NO. 11 OF 13
DES. M. TAYLOR	DRN. J. SMITH	CHK. C. CROVO

1158

48-263



Drainage Area	"C"	Acreage
5A	0.27	6.06
7A	0.51	5.51
10A	0.51	4.91
12A	0.62	3.30
15A	0.45	10.48
17A	0.24	5.15
20A	0.65	7.94
22A	0.48	5.46
25A	0.57	28.03
27A	0.44	8.37
30	0.43	16.36
35A	0.56	6.12
40A	0.52	10.97
45A	0.27	16.10
47A	0.12	0.40
49	0.53	62.92
65A	0.28	3.70
72A	0.50	27.99
121A	0.43	4.13
165A	0.51	57.08
170B	0.44	7.14
175A	0.27	0.78
177A	0.46	6.05
180B	0.37	4.22
181B	0.40	1.17
182C	0.34	1.96
185D	0.22	0.49
186D	0.38	4.69
187E	0.22	1.71
200	0.45	8.23
2251	0.58	8.50
2336	0.46	1.91
2740	0.21	2.00
3467	0.52	0.36
4033	0.26	8.04
4013	0.45	5.85
140	0.37	3.89
141B	0.37	5.17
145C	0.37	4.64
146C	0.23	5.28
150	0.32	4.44
152	0.17	1.65

Approved
 Department of Public Works
William D. ... 7/17/96
 Chief, Land Development Div. MK Date
Andrew M. ... 12-22-95
 Chief, Bureau of Highways H Date
Robert ... 7/17/96
 Chief, Bureau of Engineering Date
 Approved
 Department of Planning and Zoning
Uma ... 8/12/96
 Chief, Division of Land Development and Research Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE • SUITE 250 • BURTONSVILLE OFFICE PARK • BURTONSVILLE, MD 20886
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.

PREPARED FOR:
 Howard Research & Development Corporation
 10275 Little Patuxent Parkway
 Columbia, Maryland 21044
 410-972-6027

DRAINAGE AREA MAP
 Phase I, Storm Drain Dedication
Gateway Commerce Center
 Sixth Election District
 Howard County, Maryland

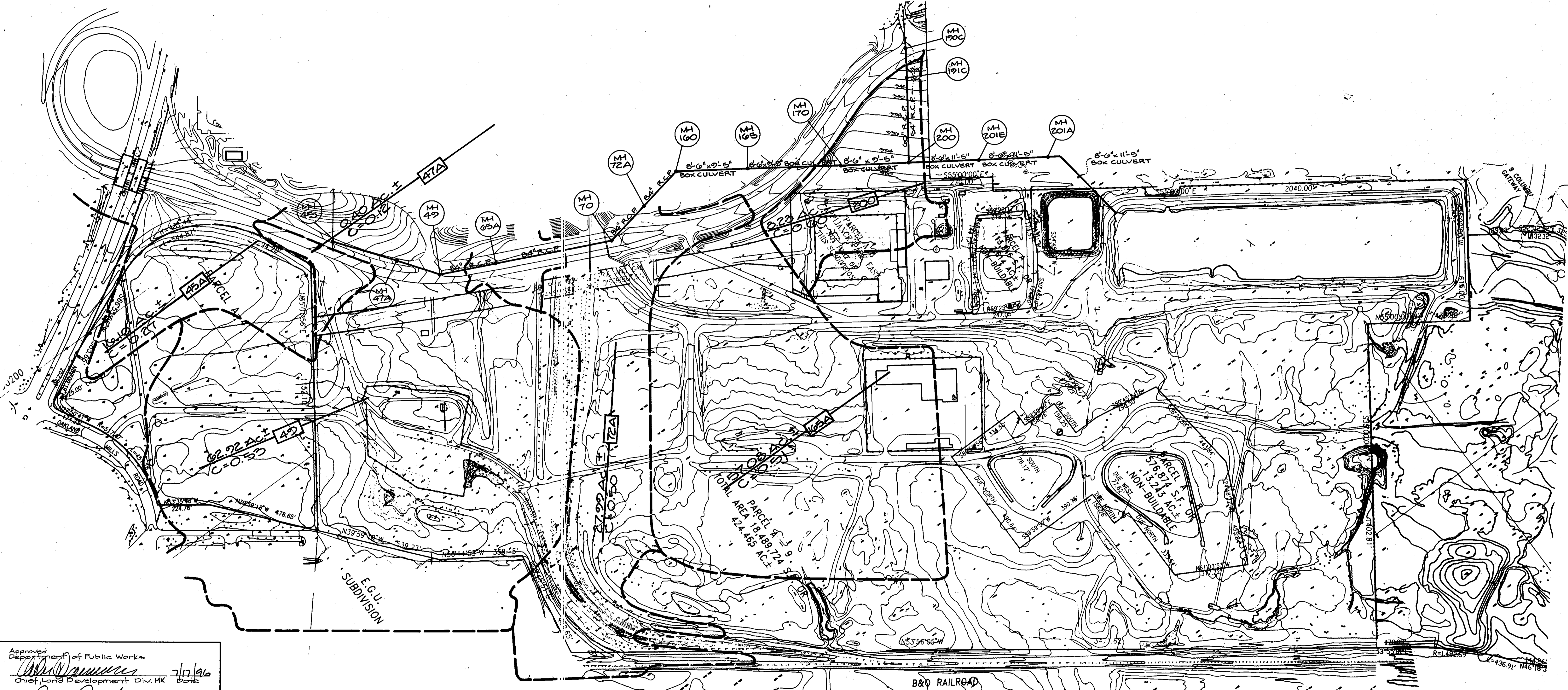
DES.	SCALE	ZONING	G.L.W. FILE NO.
DRN.	1" = 200'		91-055
W.S.J.	DATE	TAX MAP NO.	SHEET
CHK.	December, 1993	42	12 OF 13



Cliff ...

8511

118-263



Approved
Department of Public Works
W. J. ... 7/17/96
Chief, Land Development Div. MK Date

R. ... 12-22-95
Chief, Bureau of Highways HS Date

J. ... 7/17/96
Chief, Bureau of Engineering Date

Approved
Department of Planning and Zoning
A. ... 8/12/96
Chief, Division of Land Development and Research Date



8511

168-282-F

GW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186	DATE	REVISION	BY	APP'R.	PREPARED FOR: Howard Research & Development Corporation 10275 Little Patuxent Parkway Columbia, Maryland 21044 410-992-6027	DRAINAGE AREA MAP Phase I Storm Drain Dedication Gateway Commerce Center Sixth Election District Howard County, Maryland	DES.: DRN.: W.S.J. CHK.:	SCALE 1" = 200' DATE December, 1995	ZONING TAX MAP No. 42	G.L.W. FILE No. 91-055 SHEET 13 OF 13