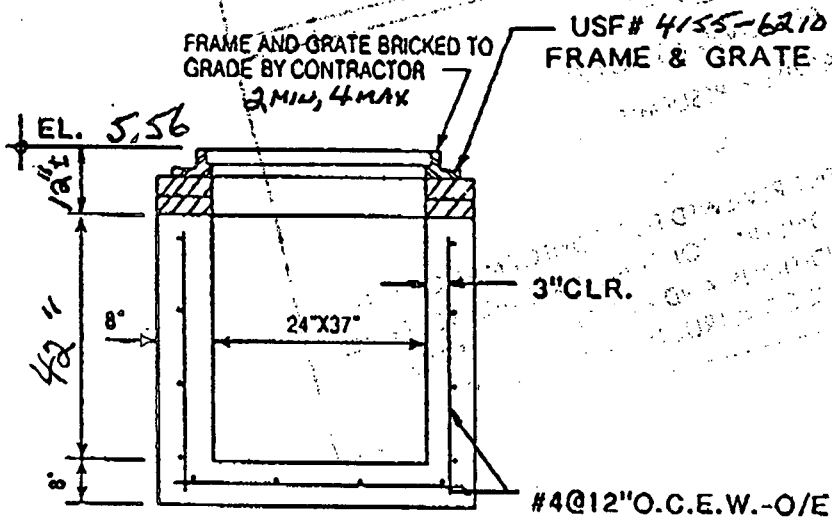
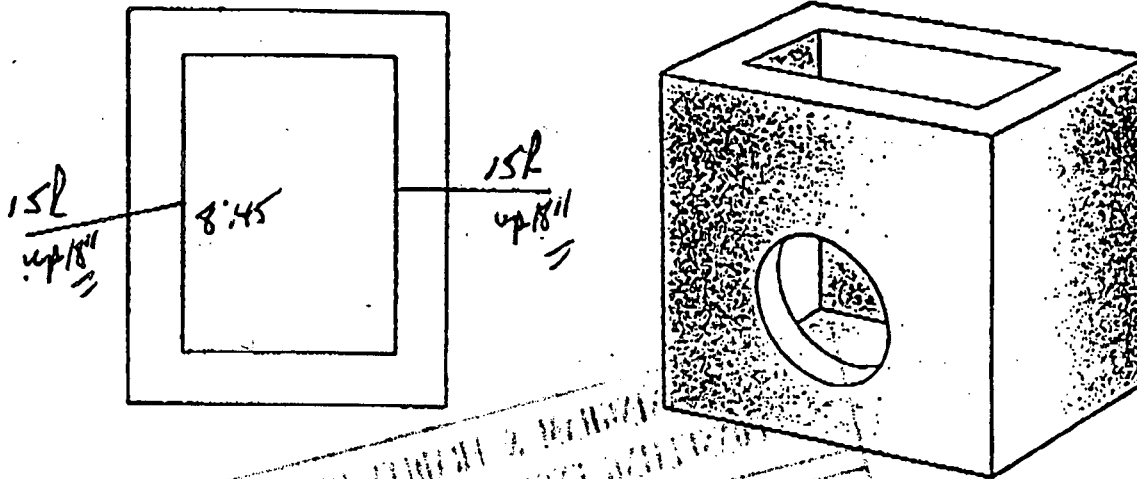


TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN

NO.	14
ELEV.	5.56
INV.	2.60
HT.	296
CUT	+1.50 4.46
PRICE	54.11



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

LASER ENGINEERING, INC.

DATE: 6-3-96

INITIALS: JP

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DB

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED COO

☒ APPROVED AS NOTED

☐ REVISE & RESUBMIT

DATE 6-4-96

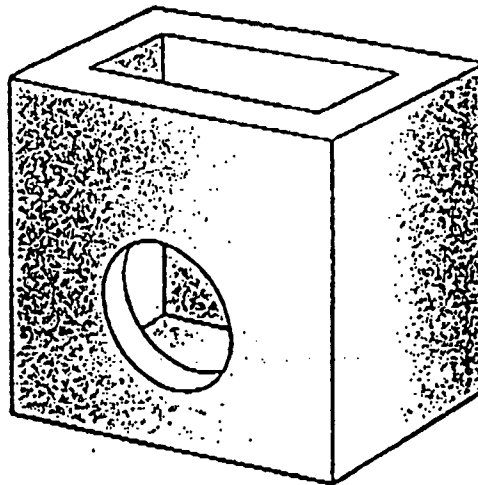
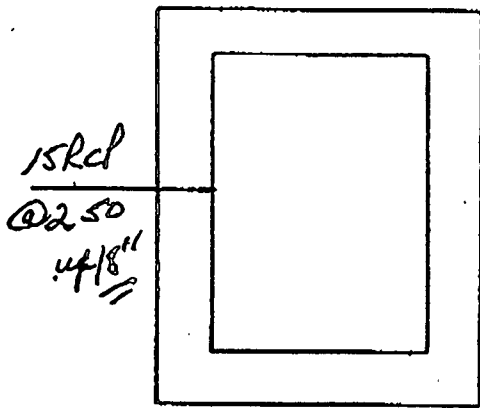
DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

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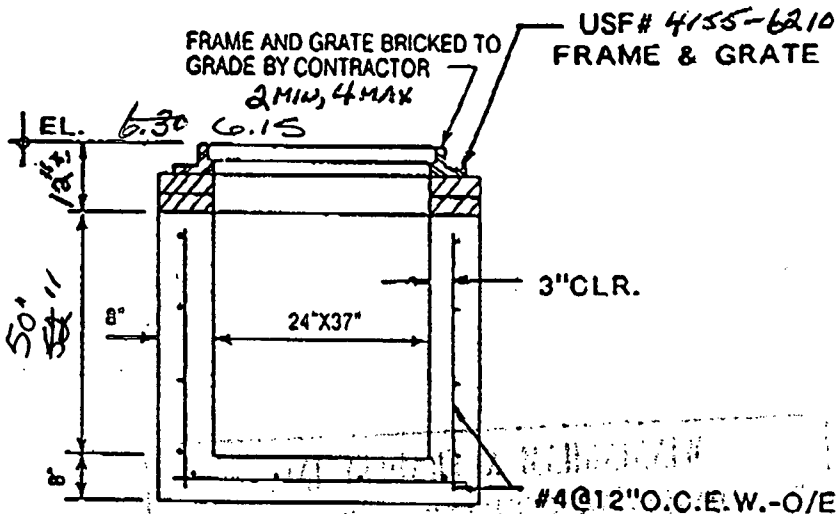
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	13
ELEV.	6.15 6.30
INV.	2.50
HT.	3.65 3.80
CUT	1.50 1.65
PRICE	5.15 5.45
	62"



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO

LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

cl.d.



APPROVED AS NOTED



REVISE & RESUBMIT

DATE

6-4-96

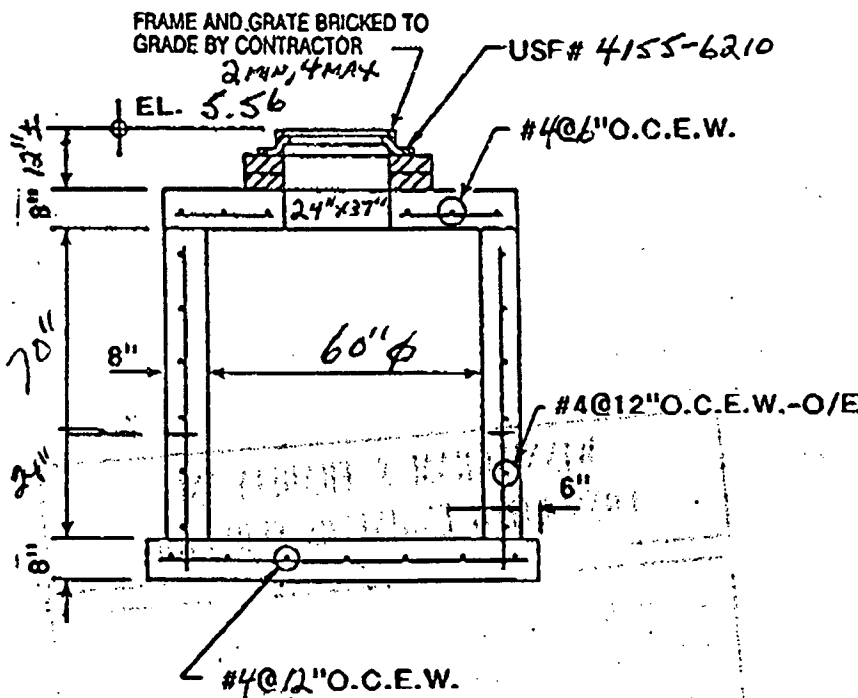
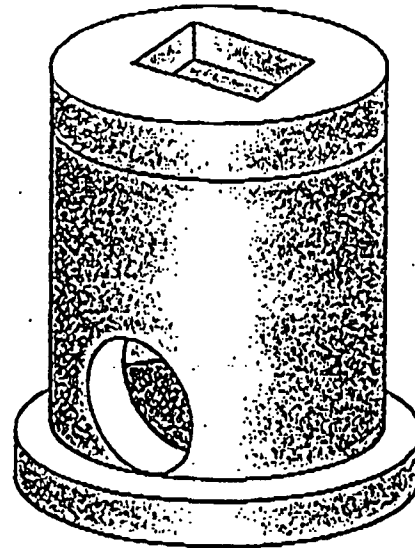
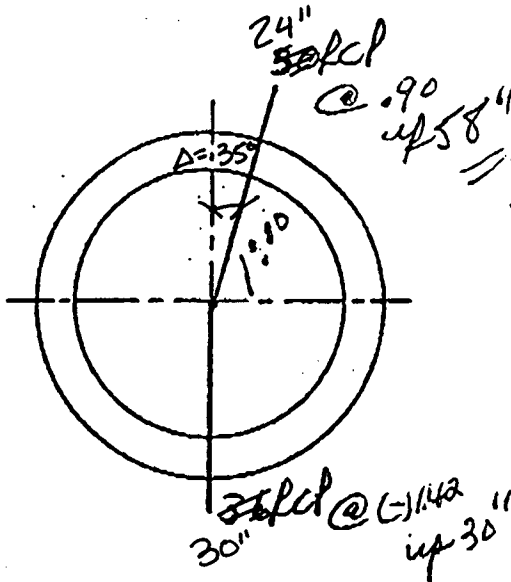
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REQUIRED BY CONSTRUCTION DOCUMENTS.

IRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	10
ELEV.	5.56
INV.	(-) 1.42
HT.	6.98
CUT	+2.50
PRICE	9.48

114"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

W/P.R.B.

30" FROM BASE TO

LOW INJERT.

5'-0" I.D.-STORM INLET

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

C.D.



APPROVED AS NOTED



REVIEWED AS NOTED

DATE

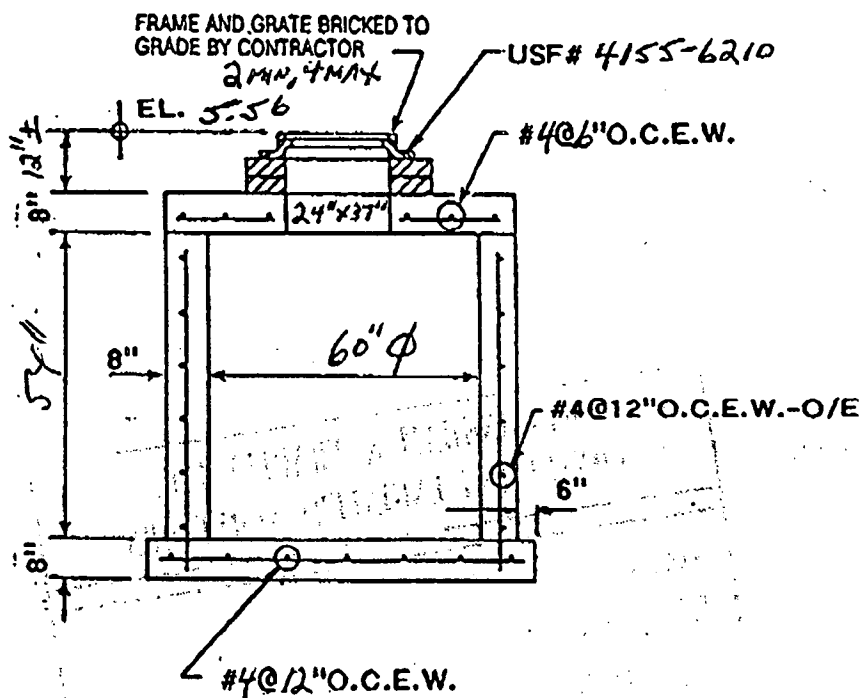
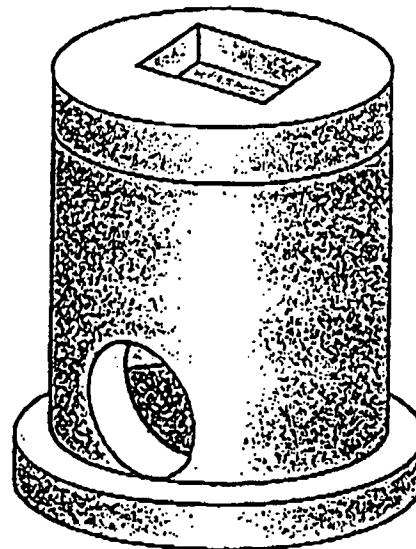
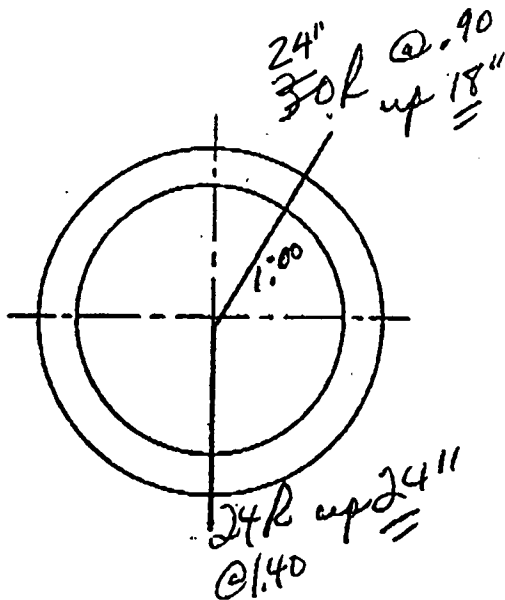
6-4-96

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DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
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REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	9
ELEV.	5.56
INV.	.90
HT.	4.66
CUT	+1.59 8.16
PRICE	74 ¹¹



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO
LOW INVERT.

5'-0" I.D. STORM INLET

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED *d.c.*

- ☒ APPROVED AS NOTED
☐ REVISE & RESUBMIT

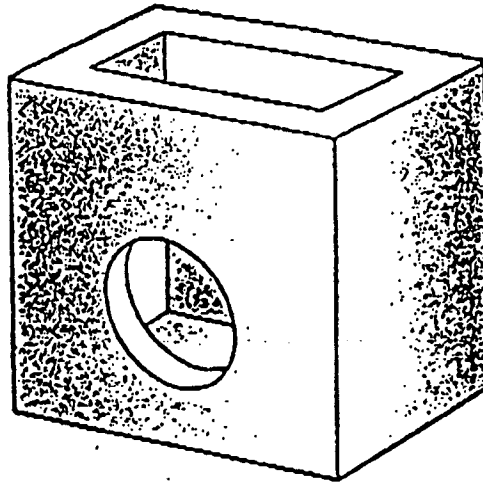
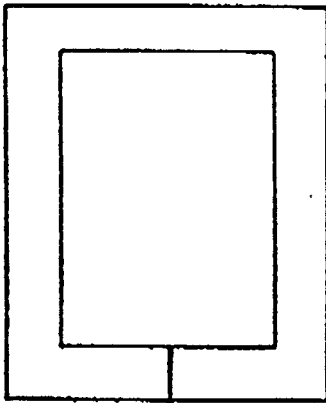
DATE *6-4-96*

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TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

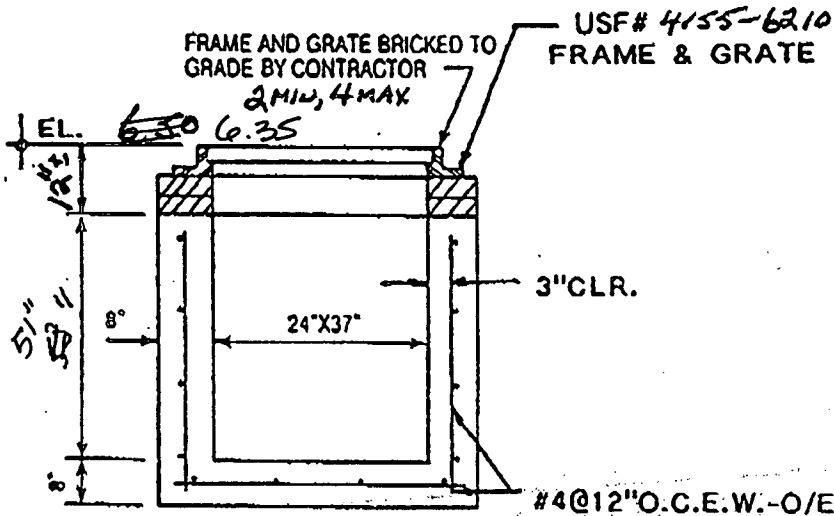
TYPE "C" CATCH BASIN



NO.	8
ELEV.	6.35
INV.	2.60
WT.	3.75
CUT	11.50
PRICE	5.25

603" 8511

15' @ 260 up 18"



BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE RD

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED

D.C.



APPROVED AS NOTED



REVIEW & RESUBMIT

DATE

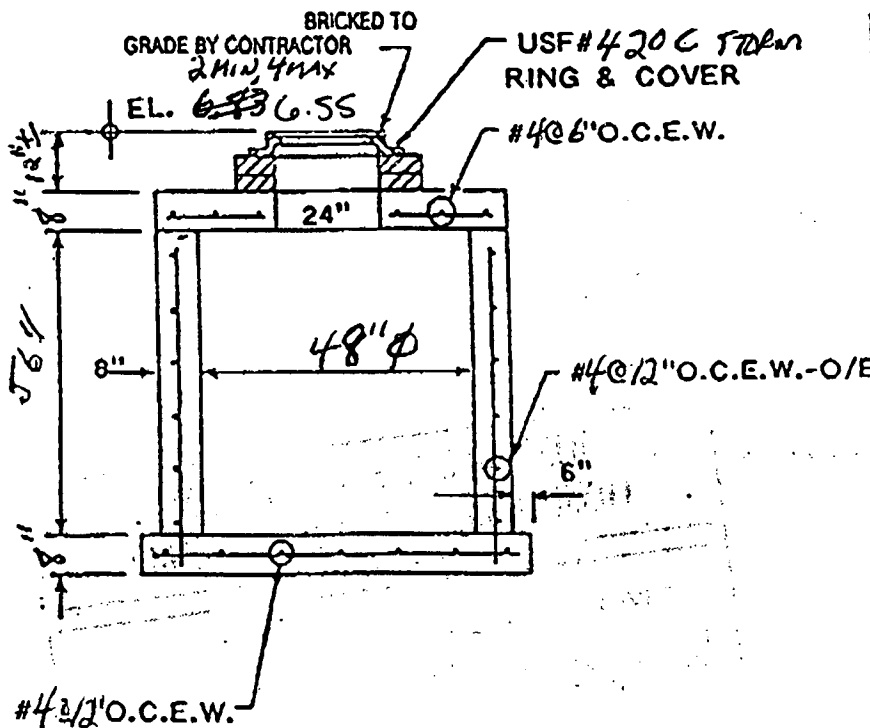
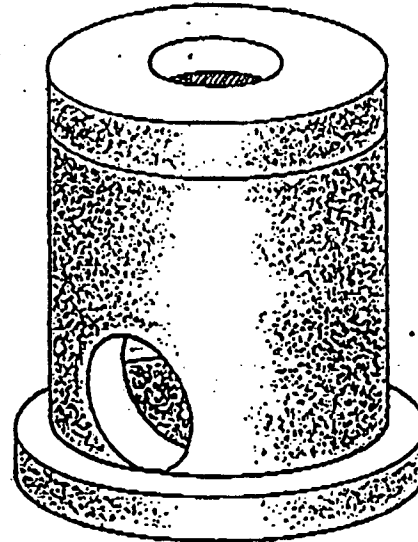
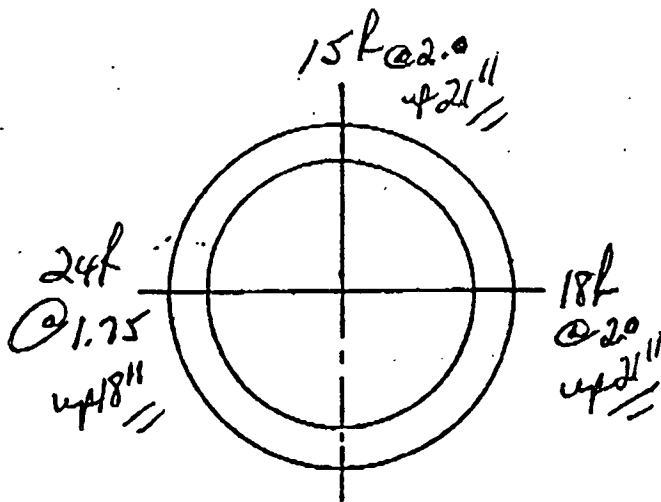
6-4-96

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REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	7
ELEV.	6.55
INV.	1.75
MT.	4.80
CUT	11.50
PRICE	6.30
	764



BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO
LOW INVERT.

"STORM MANHOLE"

4'-0" I.D.-STORM

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

D.D.



APPROVED AS NOTED



REVISE & RESUBMIT

DATE

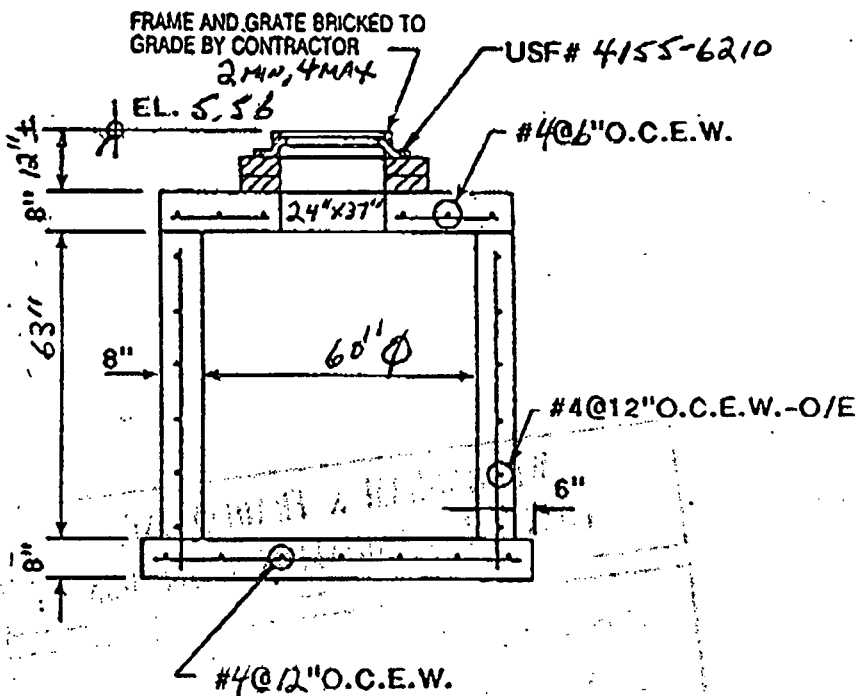
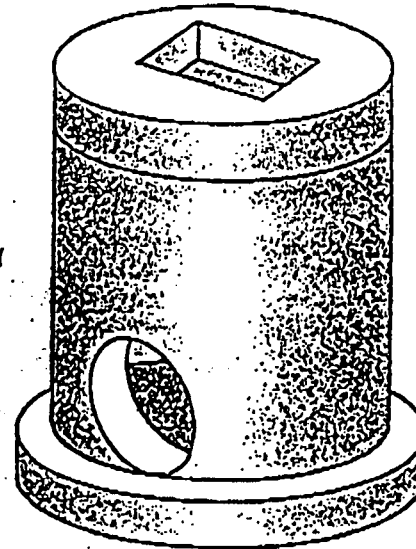
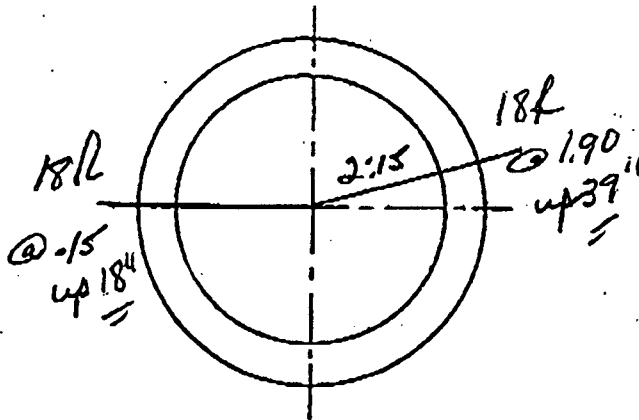
6-4-96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
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REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	22
ELEV.	5.56
INV.	.15
WT.	5.41
CUT	1.50
PRICE	6.91



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO

LOW INVERT.

5'-0" I.D. STORM INLET

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

C.D.



APPROVED AS NOTED



RECEIVED AS NOTED

DATE

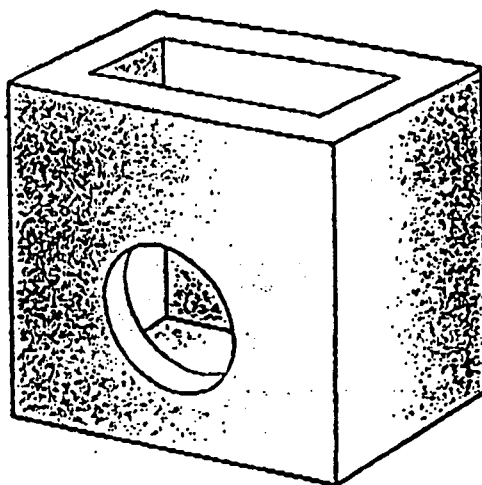
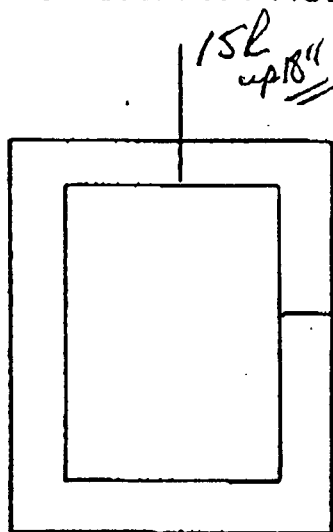
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DOCUMENT REVIEWED FOR CONFORMANCE WITH
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FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY · CONCRETE · PRODUCTS

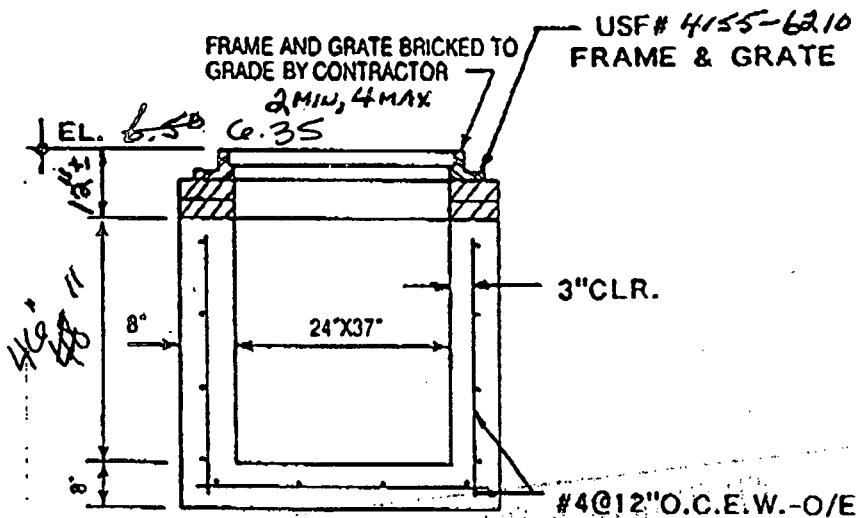
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	21
ELEV.	6.35 6.50
INV.	3.00
HT.	3.35 3.50
CUT	4.50
PRICE	4.85 5.00

58" ~~60"~~



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO

LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR

LASER ENGINEERING

JOB

TOWNGATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED D.O



APPROVED AS NOTED



RECEIVED AS NOTED

DATE 06-4-96

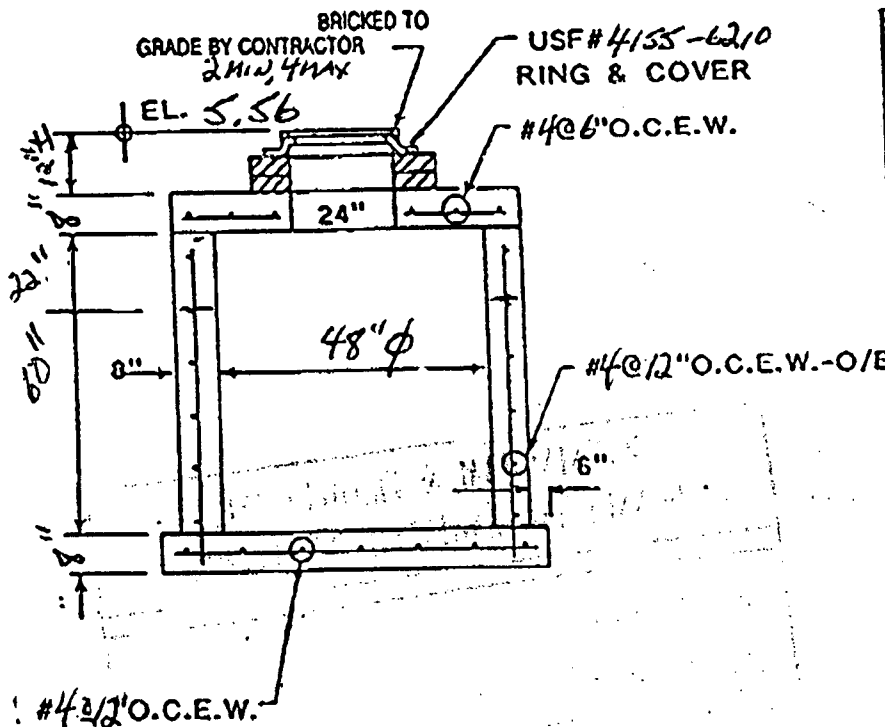
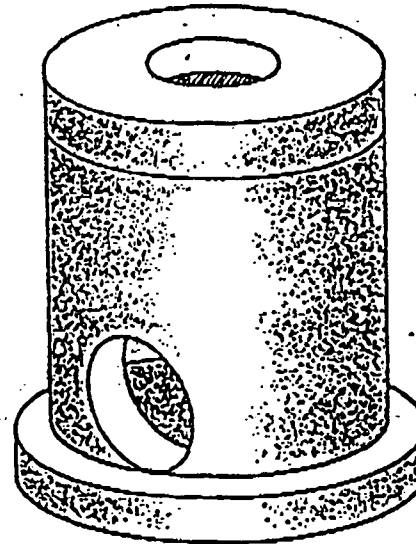
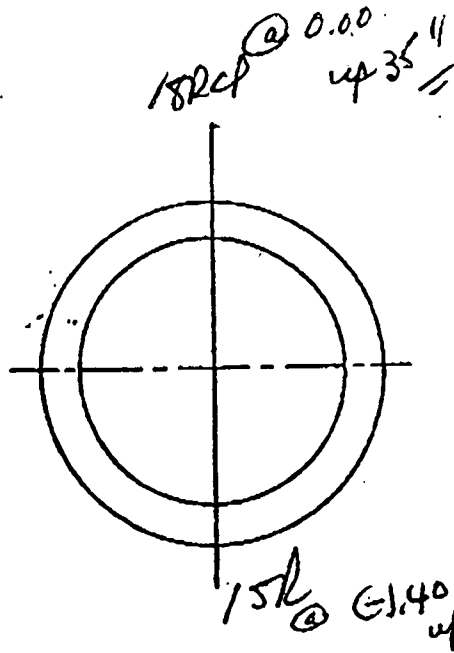
DOCUMENT REVIEWED FOR CONFORMANCE WITH
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REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	19 PRB
ELEV.	5.56
INV.	(-) .40
HT.	5.96
CUT	+2.50
PRICE	8-46

102"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USE #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

30" ~~18~~" FROM BASE TO
LOW INVERT.

30" FOR PRB

"STORM MANHOLE"

4'-0" I.D.-STORM

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

d.c.



APPROVED AS NOTED



REWORK & RESUBMIT

DATE

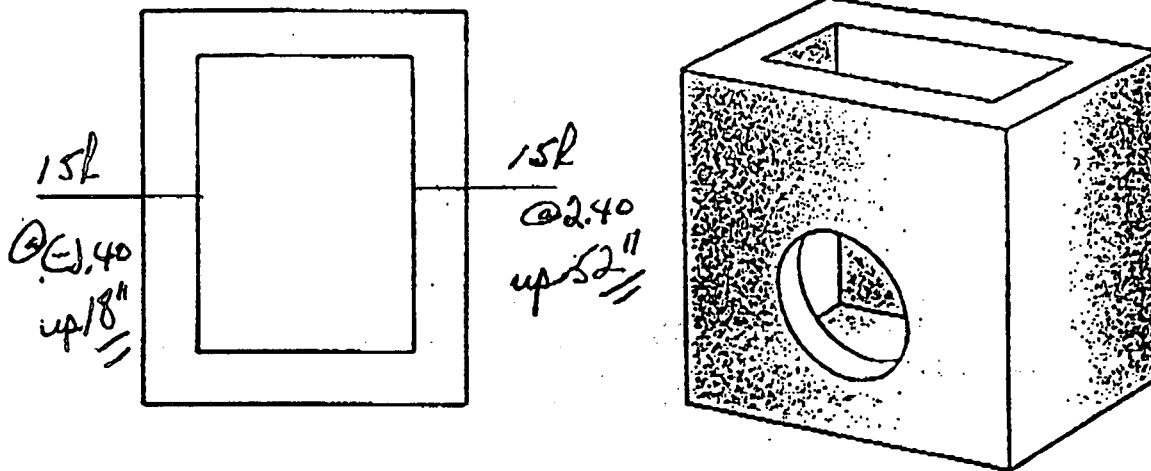
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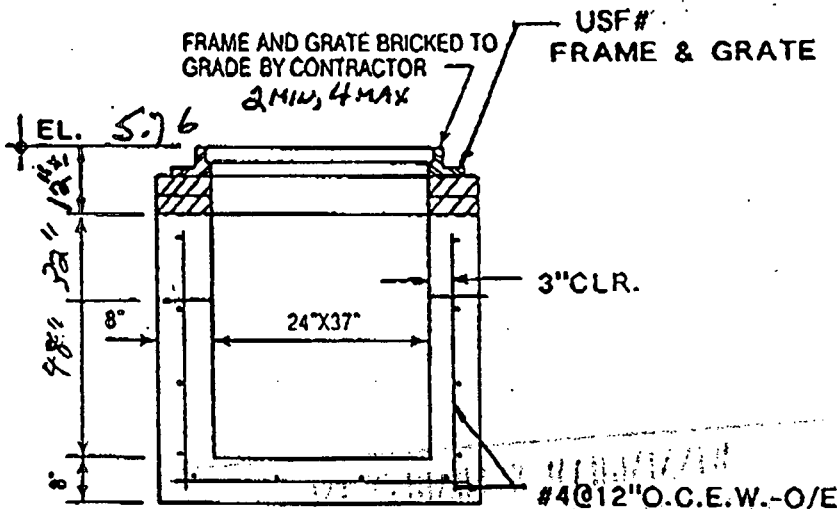
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	18
ELEV.	5.76
INV.	(-) .40
HT.	6.16
CUT	4.50
PRICE	7.66
	92.11



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO

LOW INVERT

00C00 INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED W.C.

☒ APPROVED AS NOTED

☐ REVISE & RESUBMIT

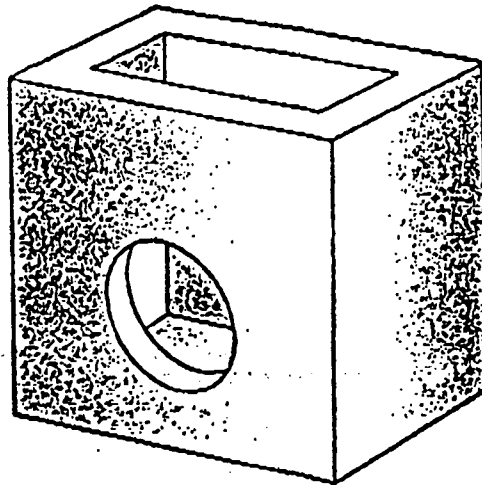
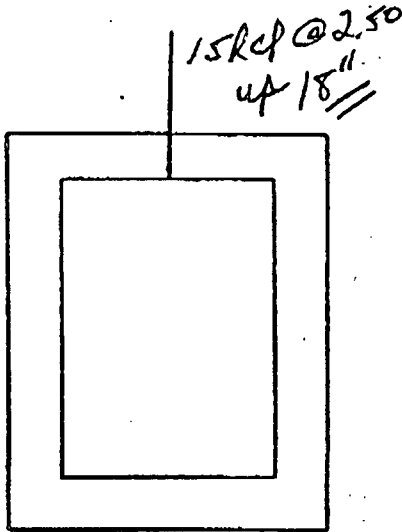
DATE 6-4-96

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TRI-COUNTY · CONCRETE · PRODUCTS

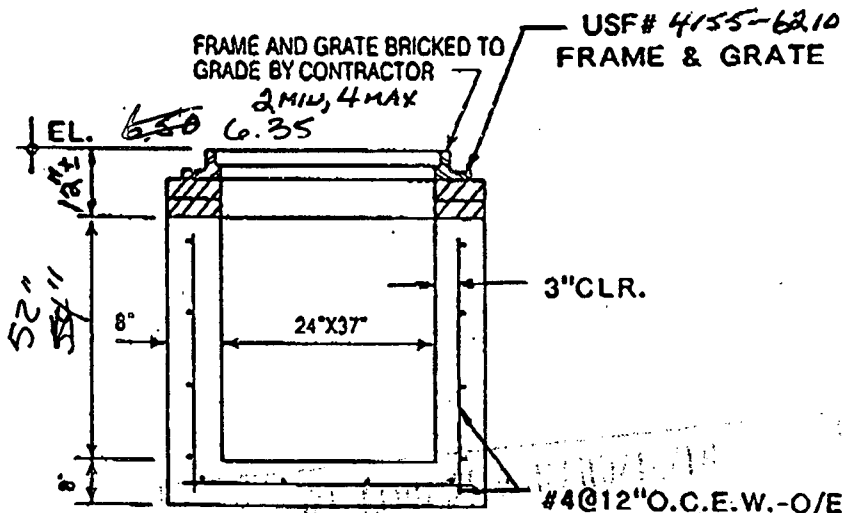
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	17
ELEV.	6.35 6.50
INV.	2.50
HT.	3.85 4.00
CUT	+1.50
PRICE	5.35 5.50

64" ~~66"~~



BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLL A		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO

LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE RD

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED D.O.

☒ APPROVED AS NOTED

☐ SERVICE PROVIDED

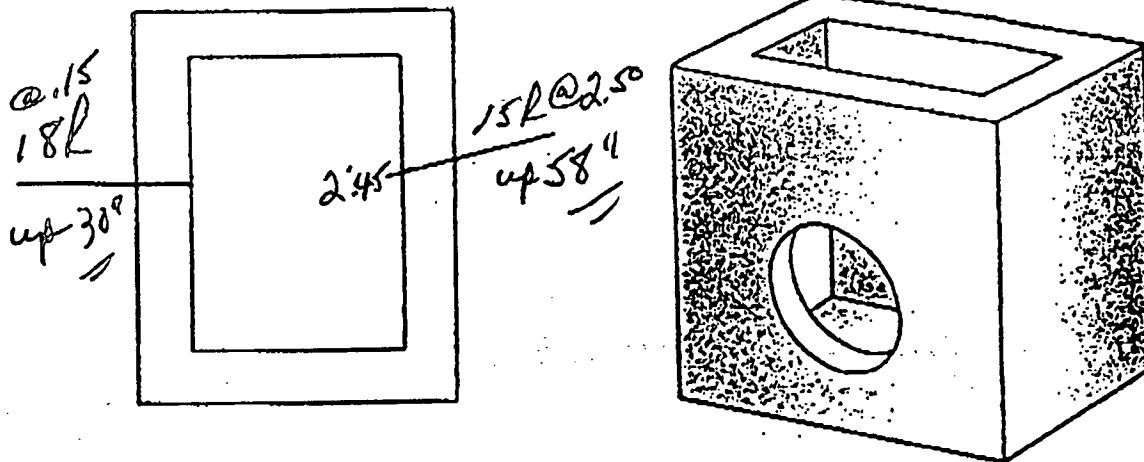
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TRI-COUNTY · CONCRETE · PRODUCTS

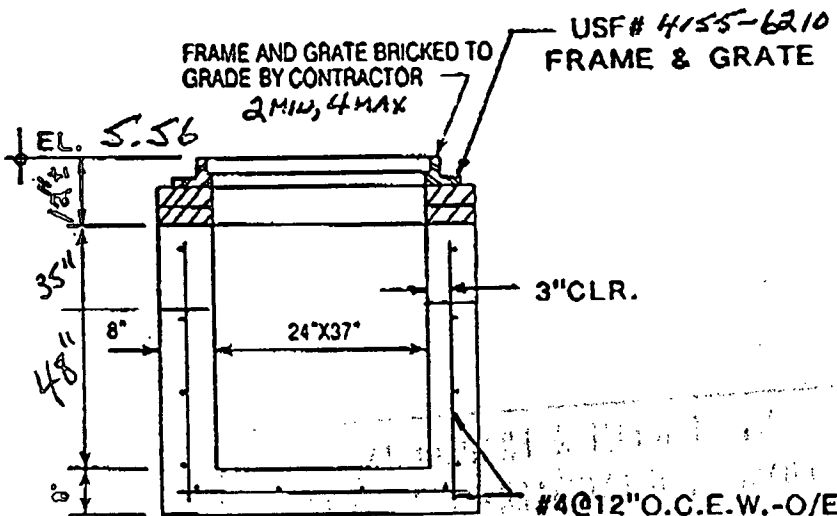
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	15
ELEV.	5.56
INV.	.15
HT.	5.41
CUT	42.50
PRICE	7.91

95"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLUMN		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

30" PB" FROM BASE TO

LOW INVERT

30" FOR PRB

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED

D.C.



APPROVED AS NOTED



RECEIVED AS DRAFT

DATE

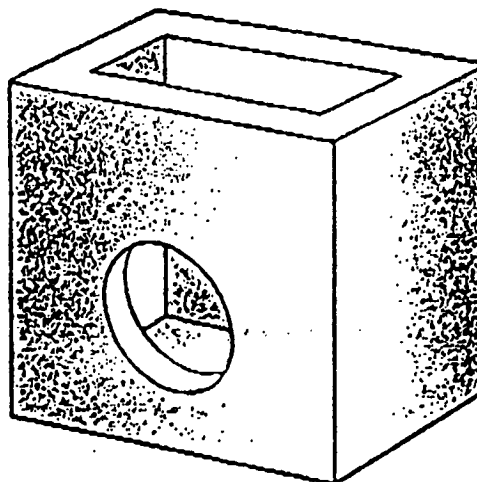
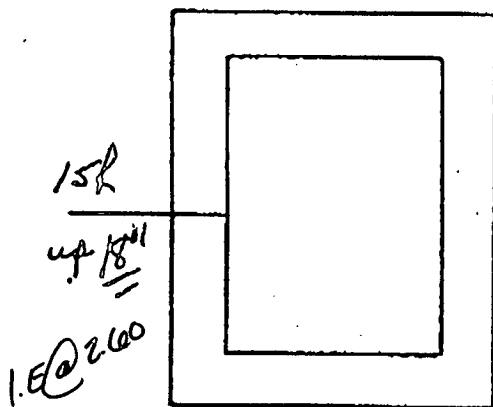
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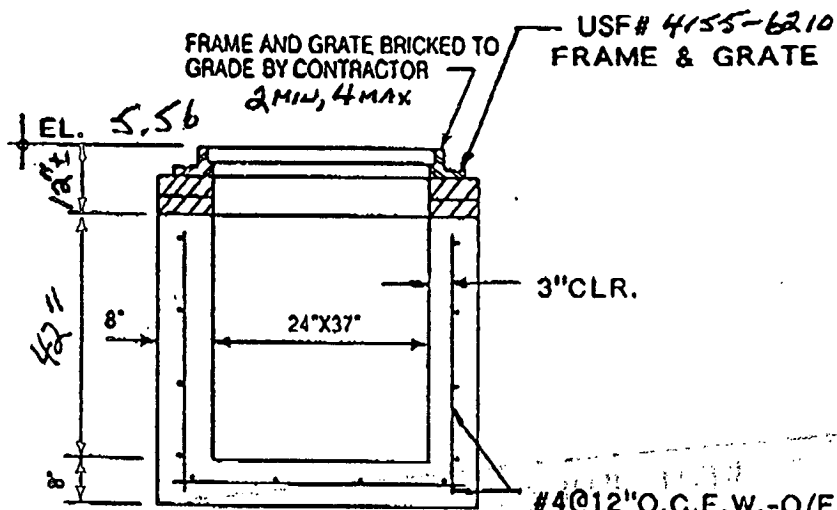
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	6
ELEV.	5.56
INV.	2.60
MT.	2.96
CUT	+1.50
PRICE	4.46
	54"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO

LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED *C.C.*

☒ APPROVED AS NOTED

☐ RETURN TO RESUBMIT

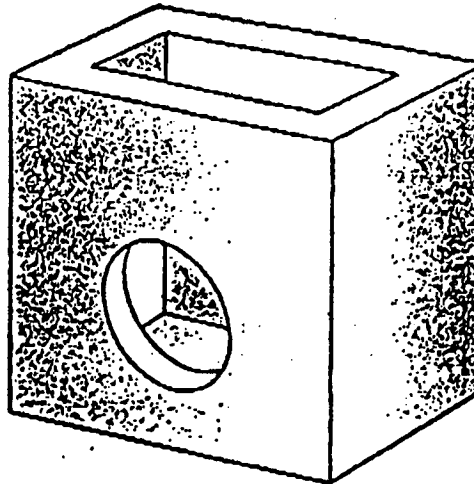
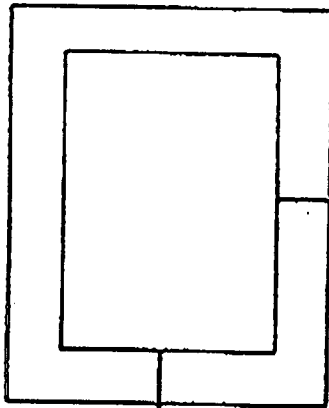
DATE *6-4-96*

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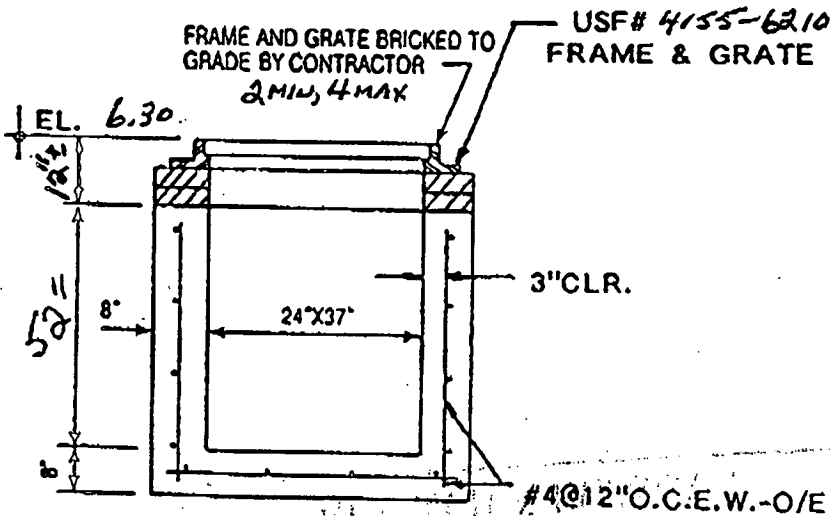
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	5
ELEV.	6.30
INV.	2.50
HT.	3.80
CUT	+1.50
PRICE	5.3
	64"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE RD

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED d.d.

☒ APPROVED AS NOTED

☐ RESUBMIT

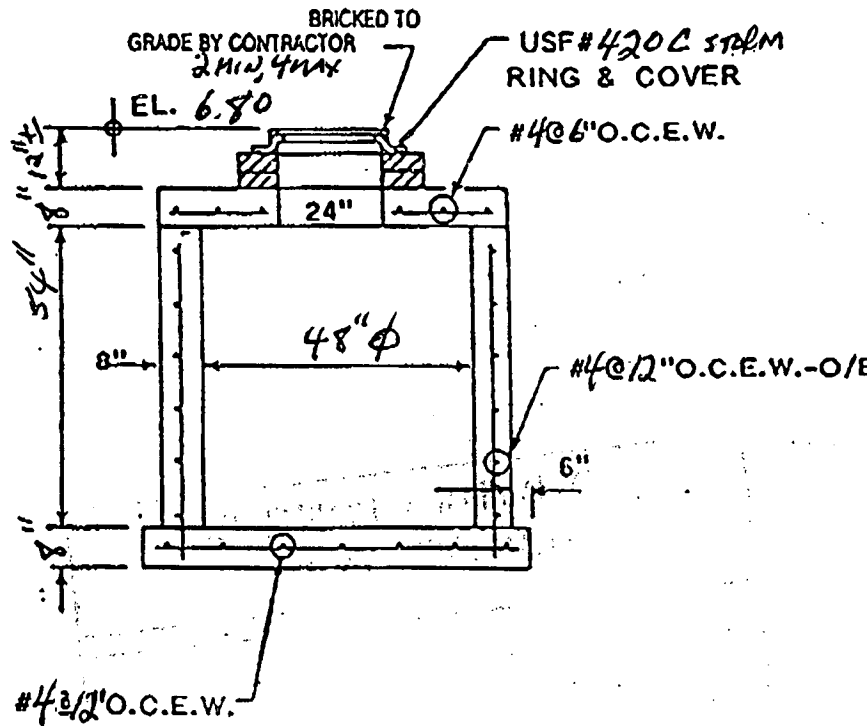
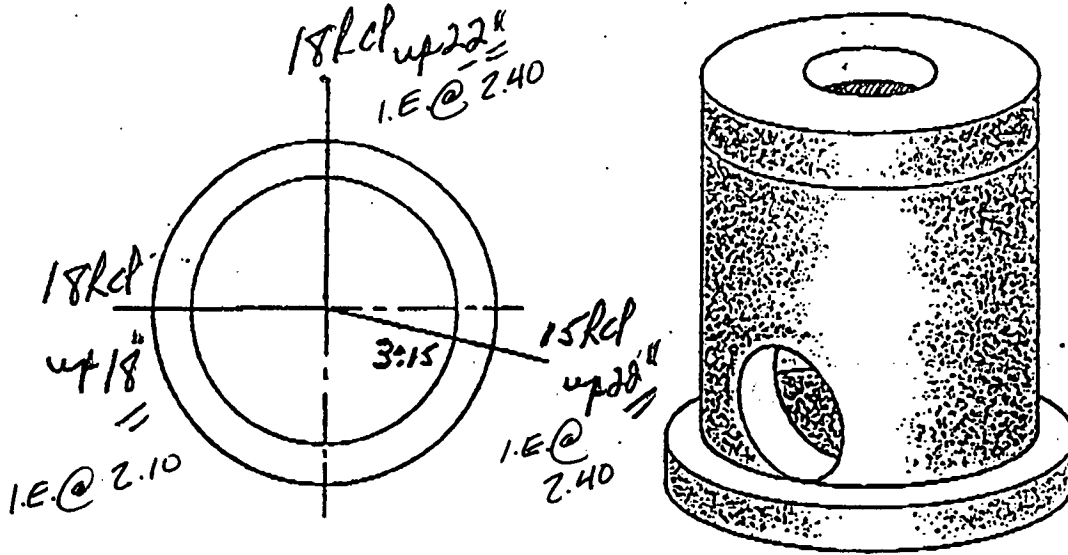
DATE 6-4-96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	4
ELEV.	6.80
INV.	2.10
HT.	4.70
CUT	+1.50 6.20
PRICE	74"



BASE	DATE MADE	DATE SHIPPED
RISEA		
RISEA		
CCLWA		
TCP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO
LOW INVERT.

"STORM MANHOLE"

4'-0" I.D. STORM

CONTRACTOR:

LASEL ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED W.F.

☒ APPROVED AS NOTED

☐ REVIEW & RESUBMIT

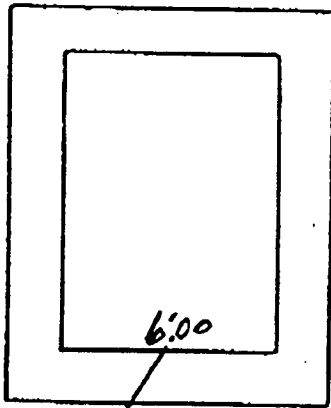
DATE 6-4-96

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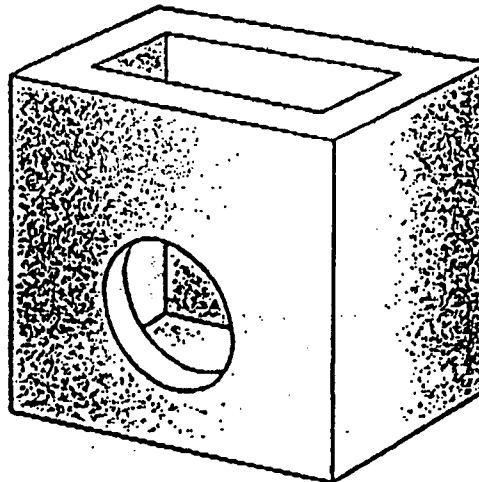
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

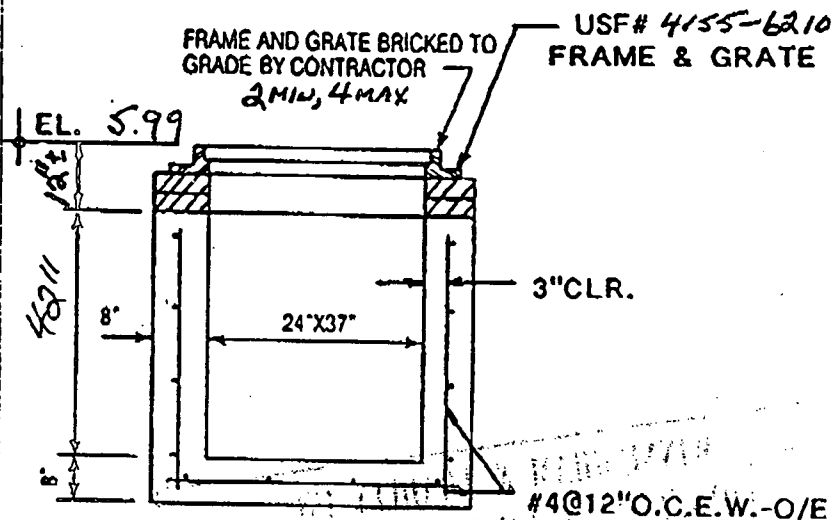
TYPE "C" CATCH BASIN



15 LCP up 18"



NO.	3
ELEV.	5.99
INV.	3.00
HT.	2.99
CUT	4.50
PRICE	4.49
	54"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE RD

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED C.C.

☒ APPROVED AS NOTED

☐ REVIEWED BY _____

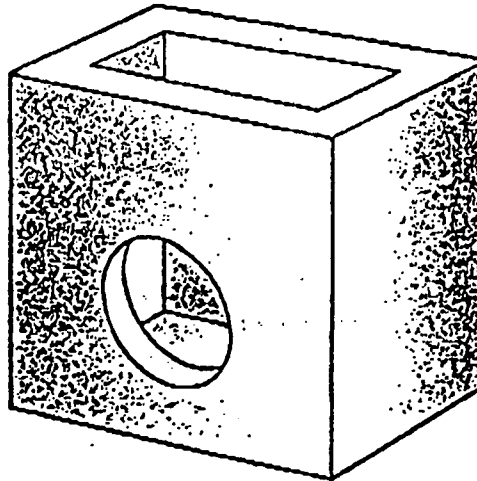
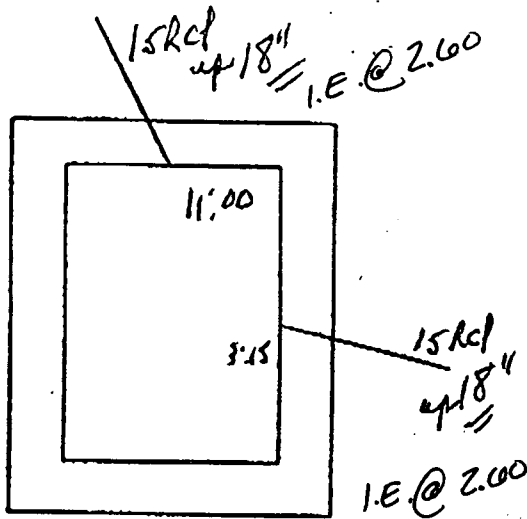
DATE 6-4-96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONTRACT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

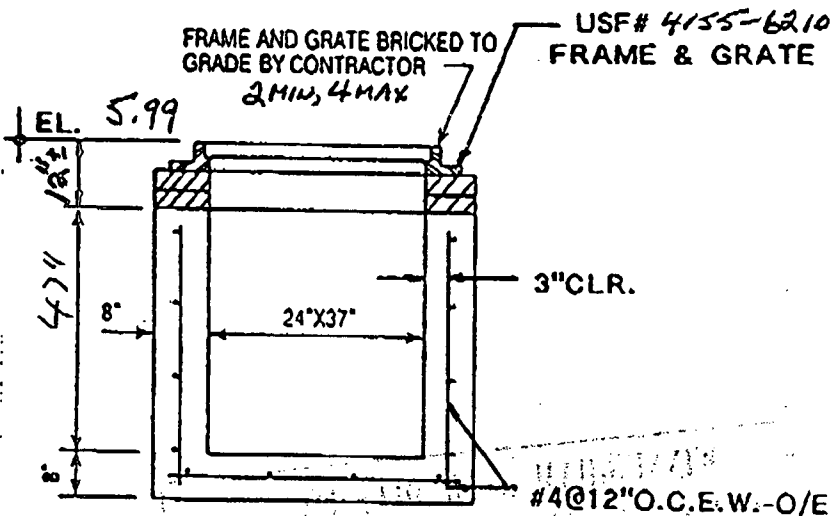
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	2
ELEV.	5.99
INV.	2.60
HT.	3.39
CUT	4'1"
PRICE	+18" SUP 59"



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED d.d.

☒ APPROVED AS NOTED

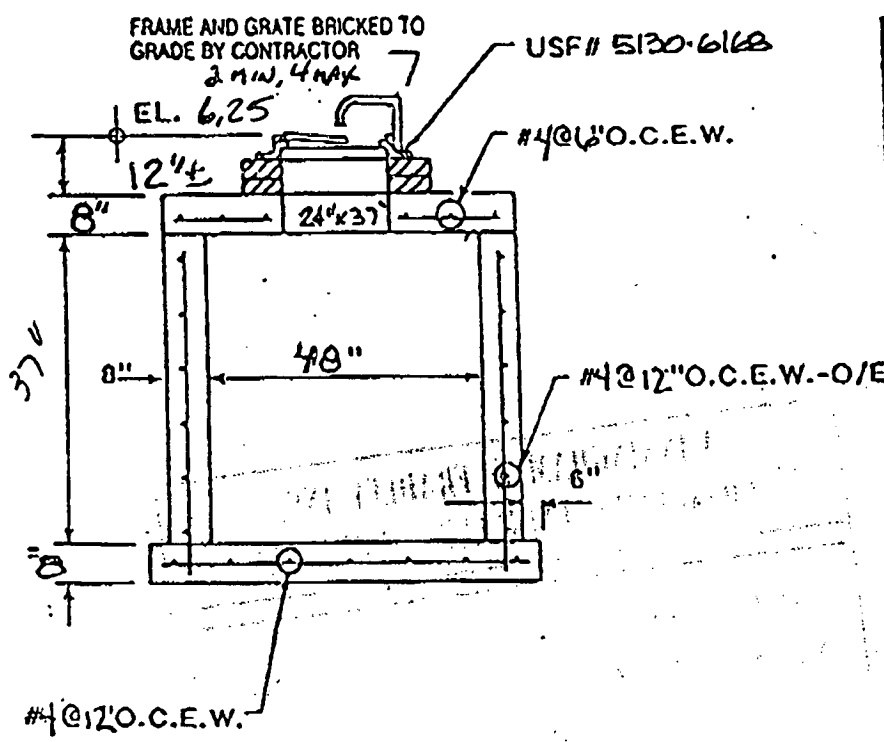
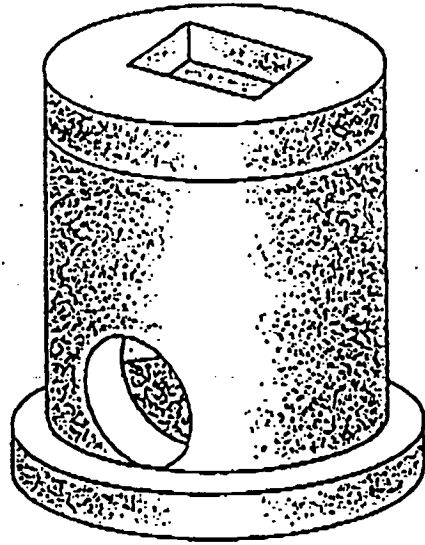
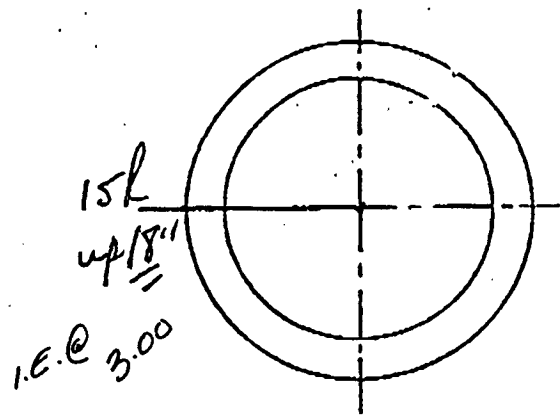
☐ REVIEWED & RE-DESIGN

DATE 6-4-96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
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REQUIRED BY CONSTRUCTION DOCUMENTS.

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	1
ELEV.	6.25
INV.	3.00
HT.	3.25
CUT	4.50
PRICE	4.75
	37



BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO LOW INVERT.

4'-0" I.D.-STORM INLET "P9"

CONTRACTOR:
LASER ENGINEERING

JOB:
TOWN GATE VILLAGE RD

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED D.O.

☒ APPROVED AS NOTED

☐ REVIEW & SUBMIT

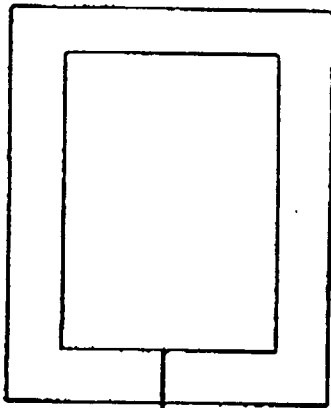
DATE 6-4-96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
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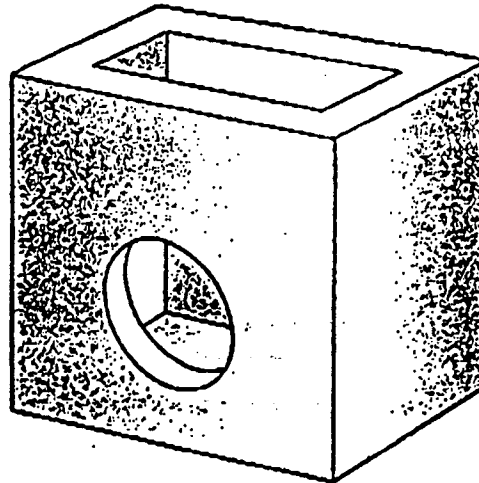
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN

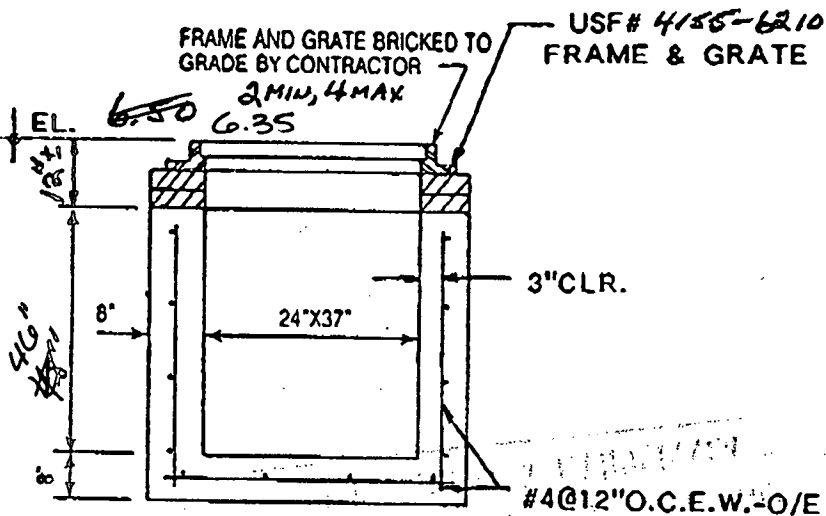


15" up 18"
1.E @ 3.00



NO.	39
ELEV.	6356.50
INV.	3.00
MT.	3353.50
CUT	41.50
PRICE	4.85 6.04

58"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE RD

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED W.C.

☒ APPROVED AS NOTED

☐ REVISE & RESUBMIT

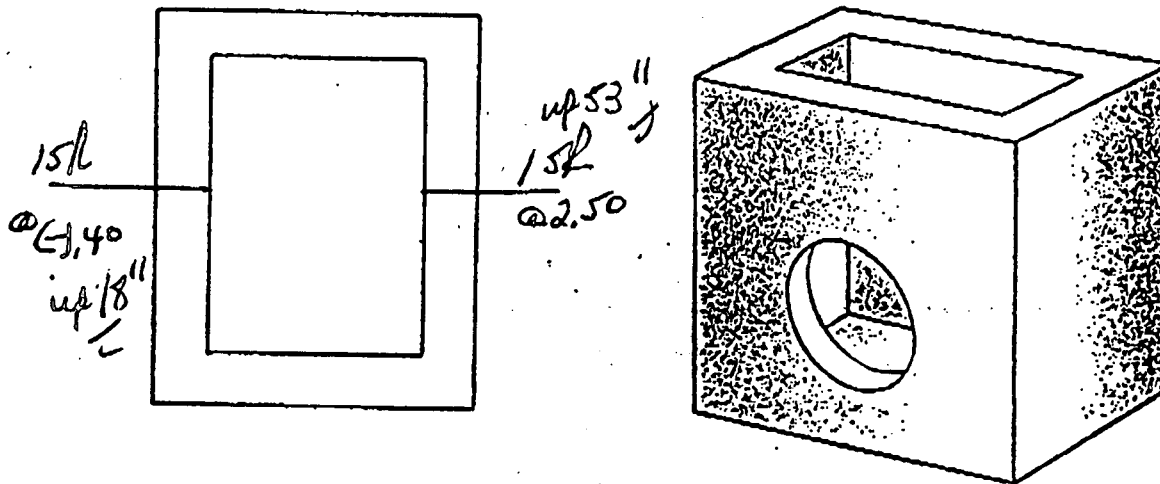
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TRI-COUNTY · CONCRETE · PRODUCTS

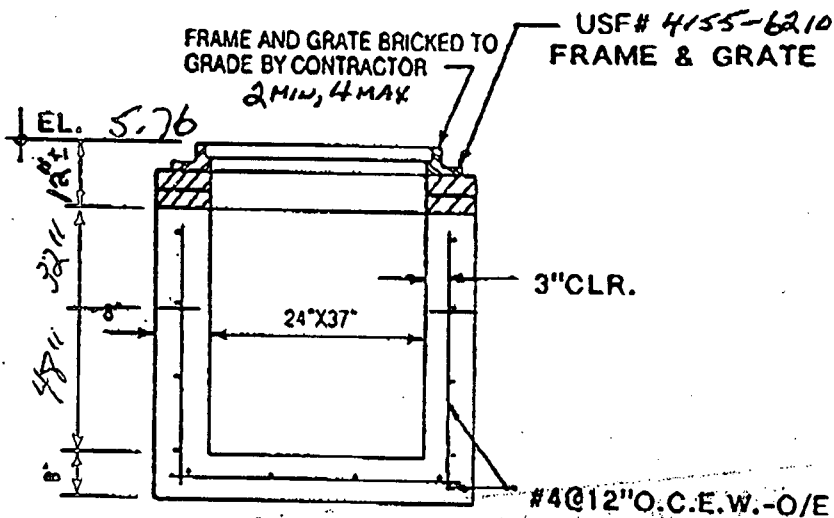
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	36
ELEV.	5.76
INV.	6.40
HT.	6.16
CUT	41.50
PRICE	766

92"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO

LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

d.c.



APPROVED AS NOTED



REVISE & RESUBMIT

DATE

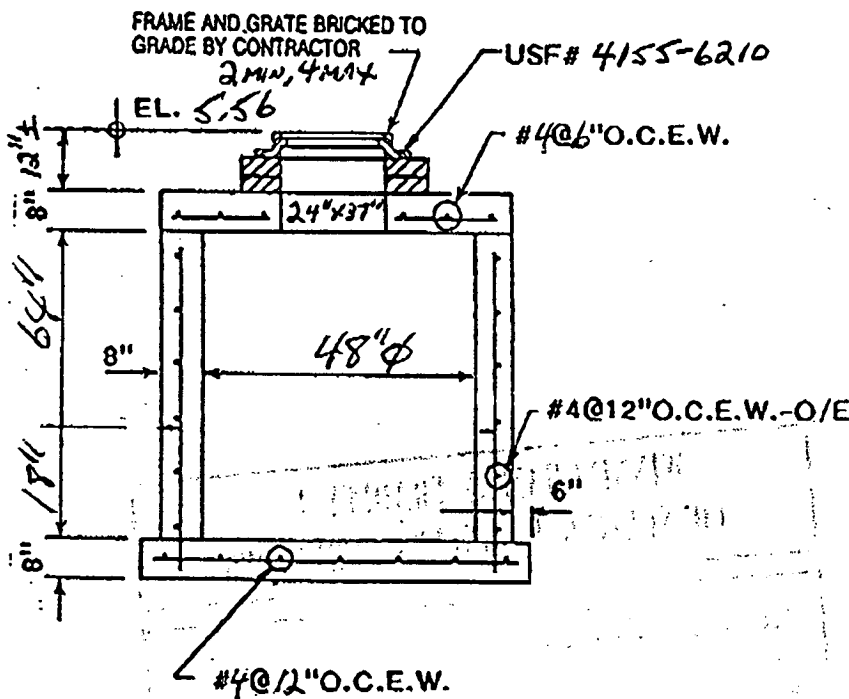
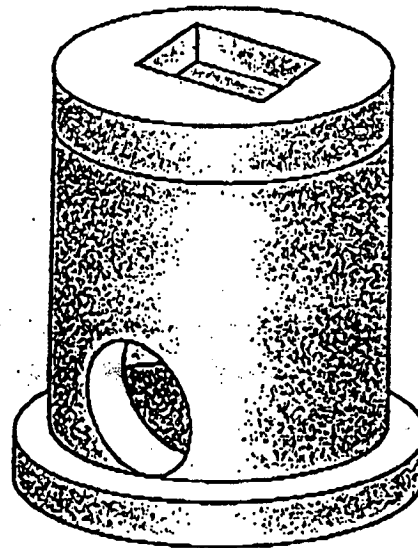
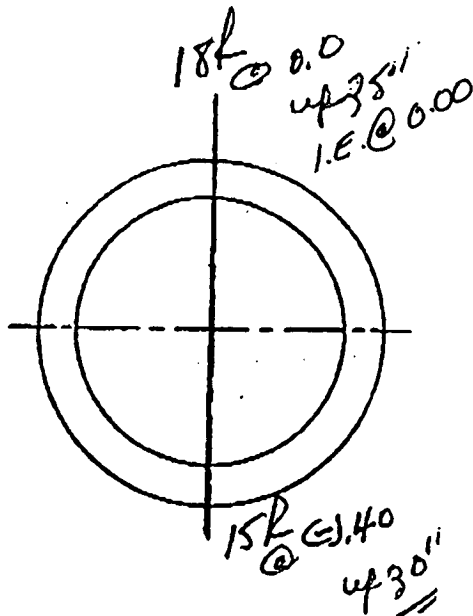
6-4-96

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TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	37 PRB
ELEV.	5.56
INV.	-1.40
MT.	5.96
CUT	12.50
PRICE	8.46
	102.11



BASE	DATE MADE	DATE SHIPPED
RAISER		
RAISER		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

30" FROM BASE TO

LOW INVERT.

30" FOR PRB

4'-0" I.D.-STORM INLET

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

C.C.



APPROVED AS NOTED



REVISE & RESUBMIT

DATE

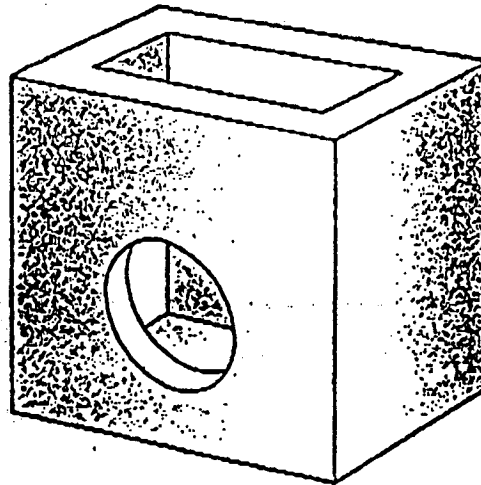
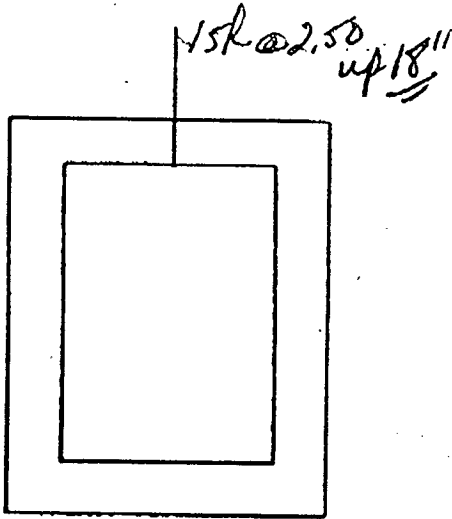
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TRI-COUNTY · CONCRETE · PRODUCTS

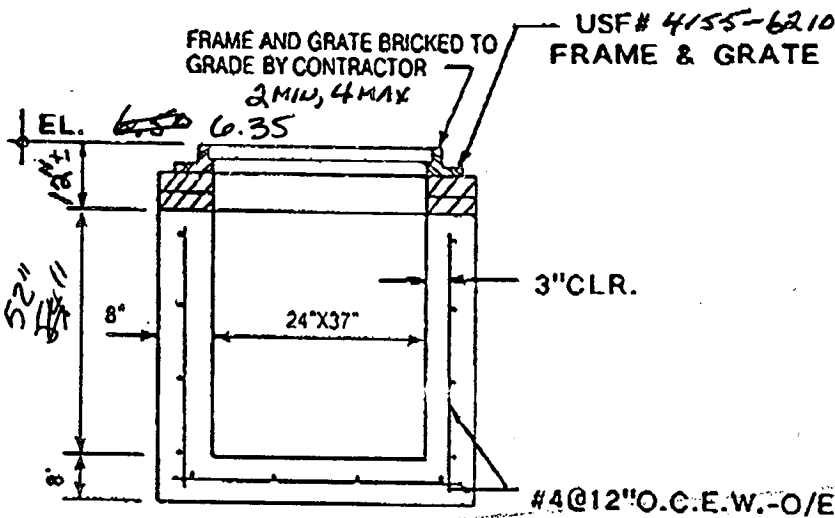
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	35
ELEV.	6.35 6.50
INV.	2.50
HT.	3.85 4.00
CUT	+1.50
PRICE	5.35 5.50

64" ~~66"~~



	DATE MADE	DATE SHIPPED
BASE		
RISE A		
RISE B		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO

LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED

D.O.



APPROVED AS NOTED



REVISE & RESUBMIT

DATE

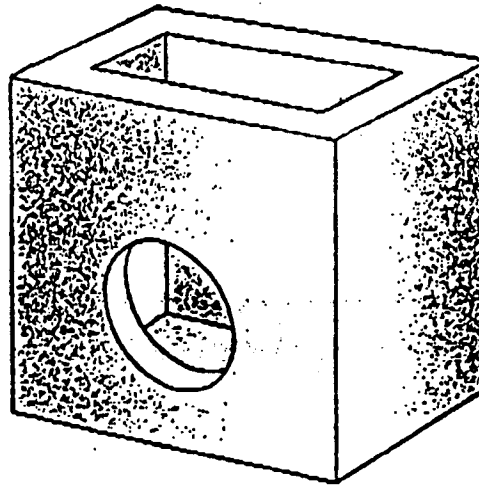
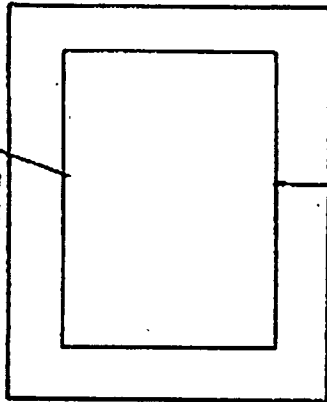
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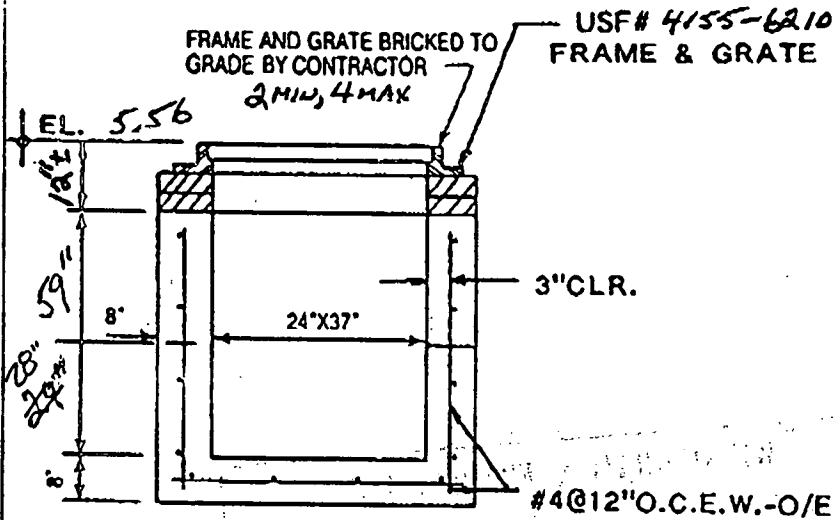
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	33 PRB
ELEV.	5.56
INV.	(-)0.15
WT.	5.71
CUT	+2.50
PRICE	8.217
	99" 95"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

30" FROM BASE TO

LOW INVERT

30" FOR PRB

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE DR

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED d.c.

☒ APPROVED AS NOTED

☐ REVISE & RESUBMIT

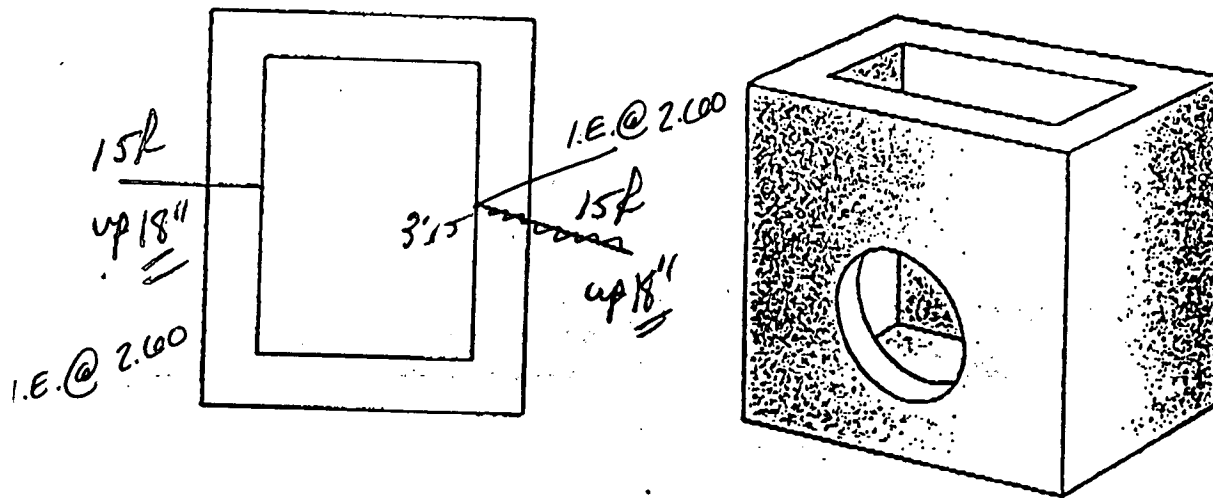
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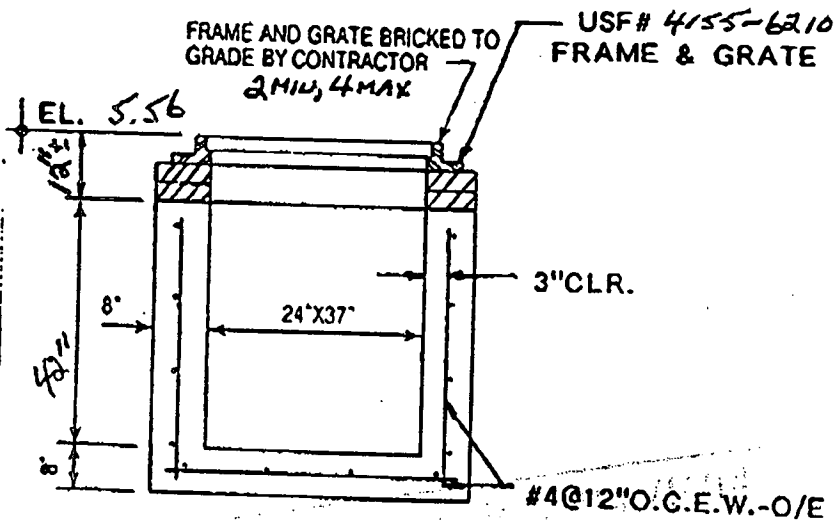
TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



NO.	32
ELEV.	5.56
INV.	2.60
HT.	2.96
CUT	4.50
PRICE	4.46
	54.11



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:
LASER ENGINEERING

JOB:
TOWNGATE VILLAGE DR

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED *d.d.*

☒ APPROVED AS NOTED

☐ RE-APPROVE & RESUBMIT

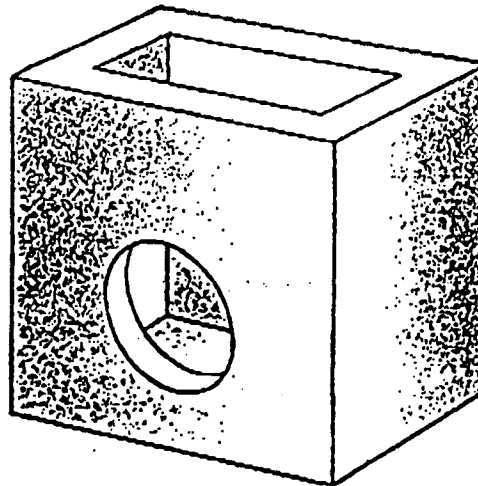
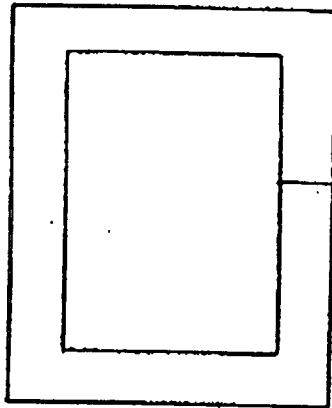
DATE *6-4-96*

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TRI-COUNTY · CONCRETE · PRODUCTS

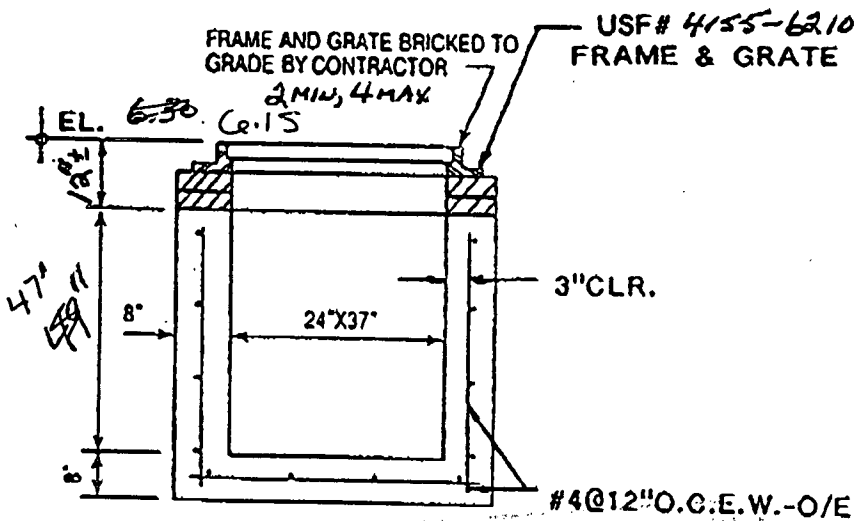
1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

TYPE "C" CATCH BASIN



15R
@ 2.70
4/18"

NO.	31
ELEV.	6.15 6.30
INV.	2.70
HT.	3.60
CUT	4.50
PRICE	4.50 59" 6"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

16" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE RD

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED

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APPROVED AS NOTED



REVISE & RESUBMIT

DATE

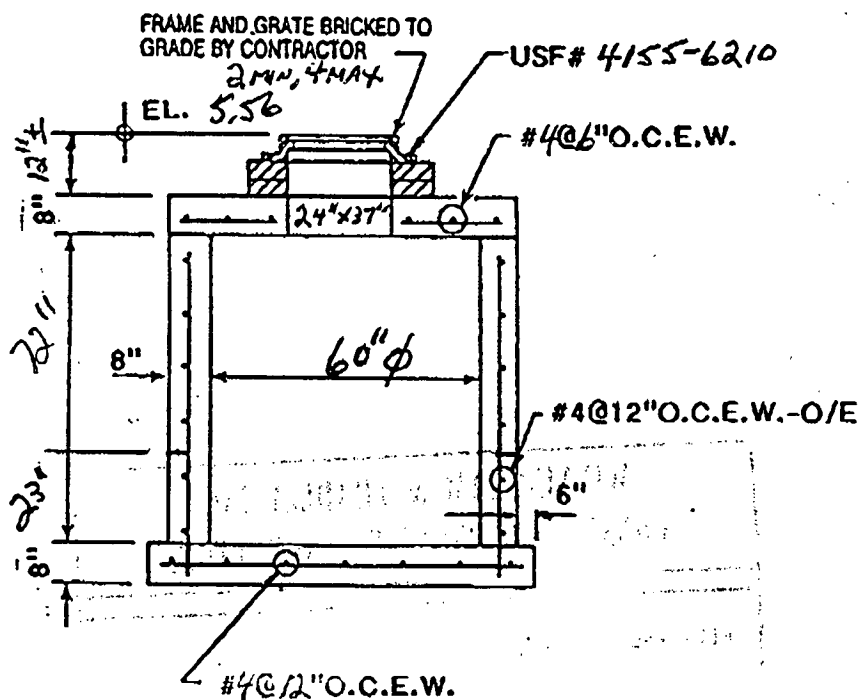
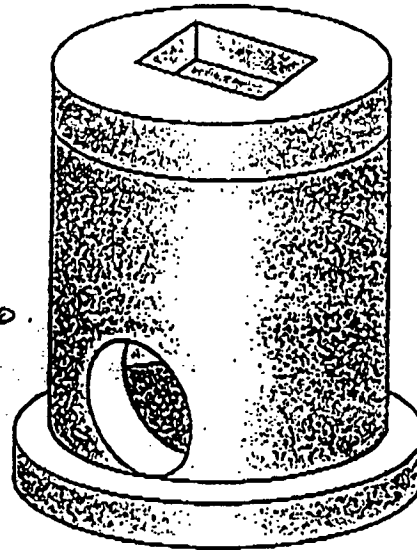
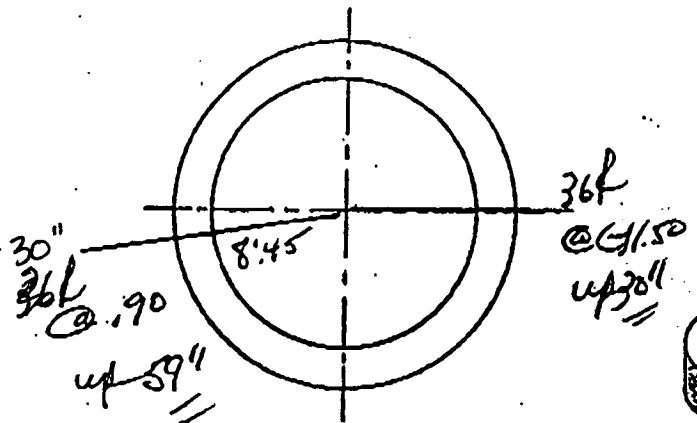
6-4-96

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IRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	28
ELEV.	5.56
INV.	(-) 1.50
WT.	7.06
CUT	$\frac{12.50}{9.36}$
PRICE	11.51



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI. @ 28 DAYS

TYPE II CEMENT

30" FROM BASE TO

LOW INVERT

5'-0" I.D. STORM INLET

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED d.d

☒ APPROVED AS NOTED

☐ REVIEWED FOR PERMIT

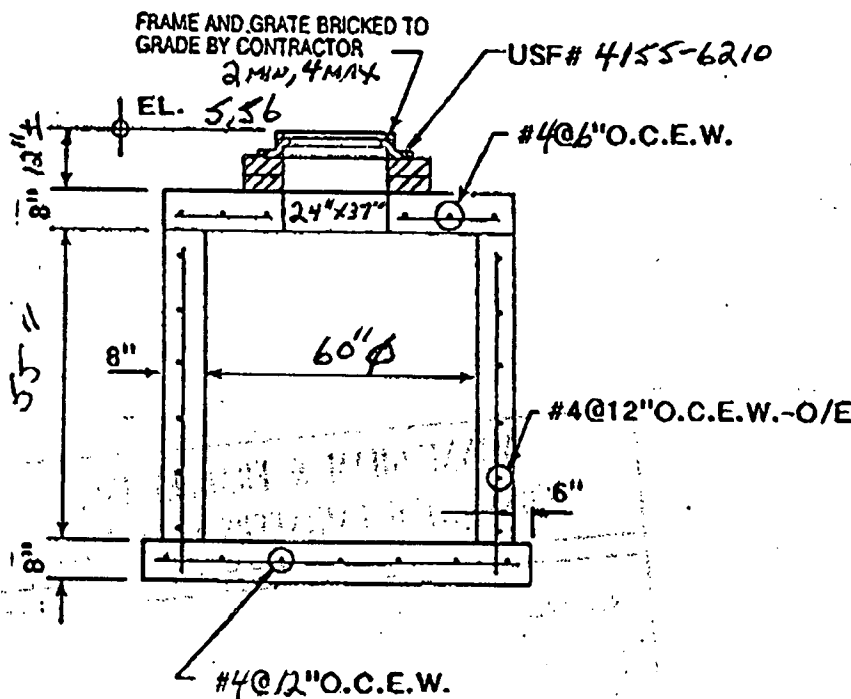
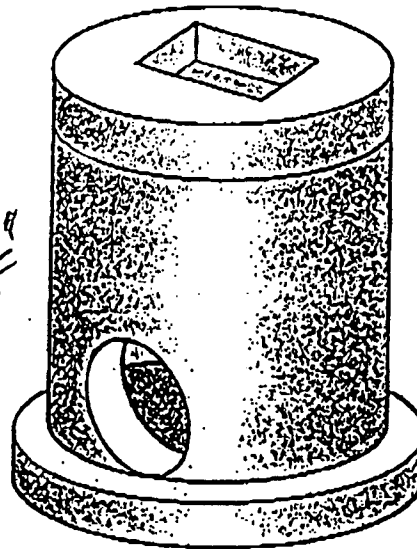
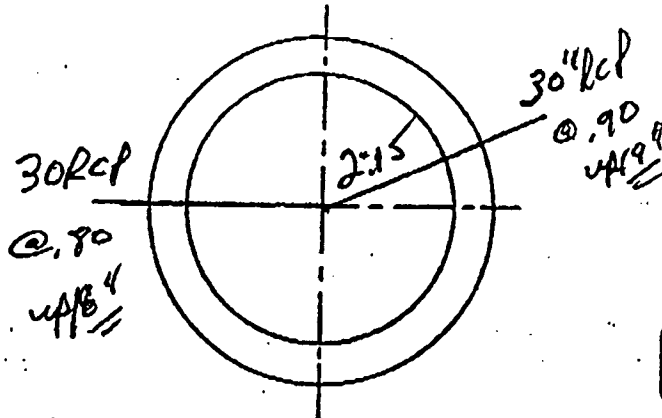
DATE 6-4-96

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TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	27
ELEV.	5.56
INV.	.80
MT.	4.76
CUT	1.50
PRICE	6.26
	7511-



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF#		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO
LOW IN JEST.

5'-0" I.D.-STORM INLET

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED C.C.

☒ APPROVED AS NOTED

☐ REVIEW & RESUBMIT

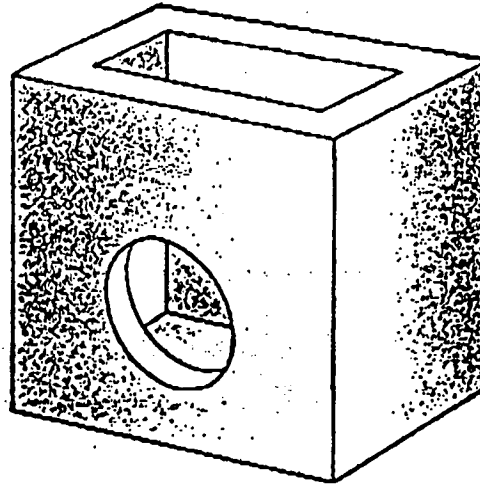
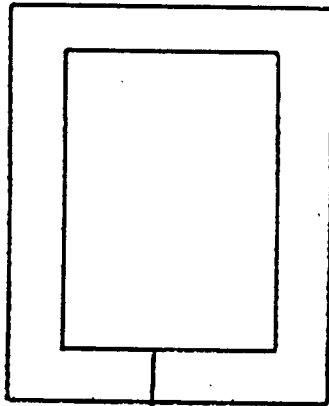
DATE CO-4-96

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TRI-COUNTY · CONCRETE · PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

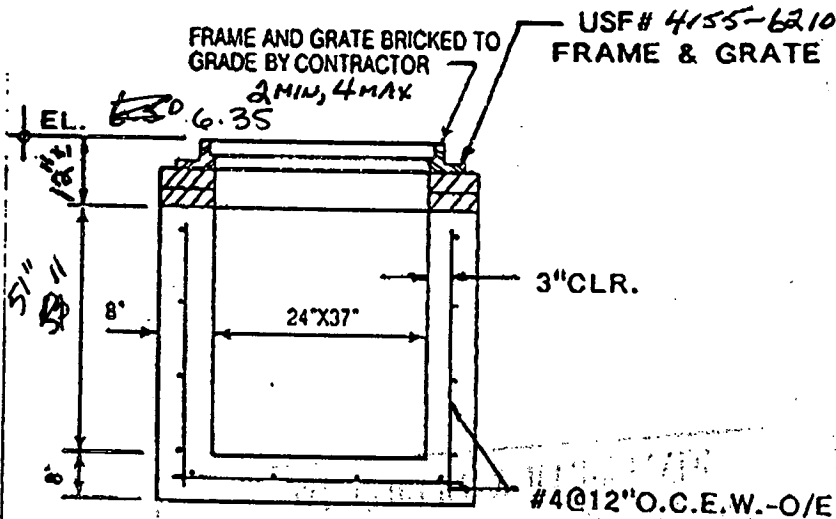
TYPE "C" CATCH BASIN



NO.	26
ELEV.	6.35 6.50
INV.	2.60
MT.	3.25 3.90
CUT	11.50 14.0
PRICE	525. 650 11

03"

15K @ 2.60
up 18"



BASE	DATE MADE	DATE SHIPPED
RISER		
RISER		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

INLET CONFORMS TO F.D.O.T.

INDEX 232

18" FROM BASE TO
LOW INVERT

"C" INLET-FRAME & GRATE

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE RD

WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS

RECEIVED D.C.

- ☒ APPROVED AS NOTED
☐ REVISE & RESUBMIT

DATE 6-4-96

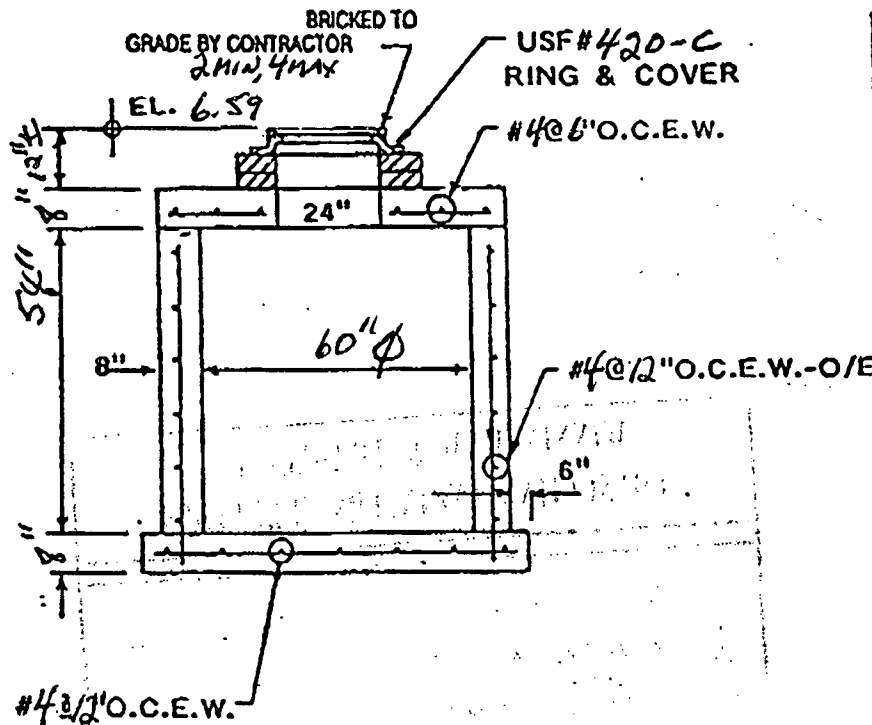
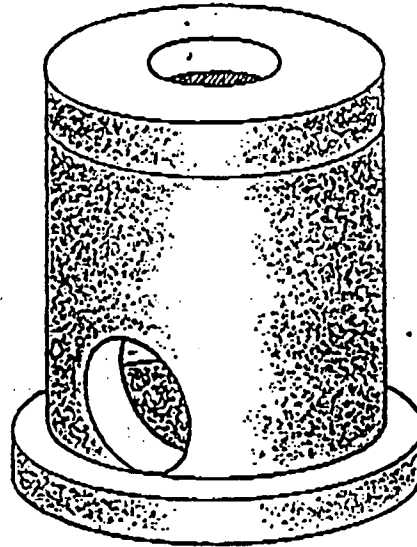
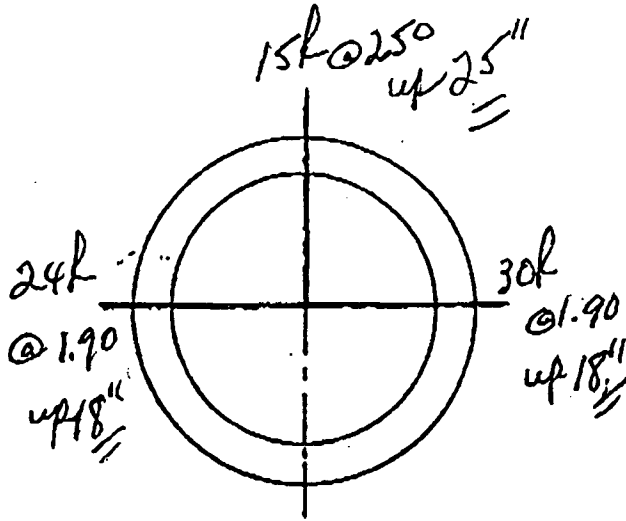
DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	25
ELEV.	6.57
INV.	1.90
HT.	4.67
CUT	+1.50
PRICE	6.17

74"



BASE	DATE MADE	DATE SHIPPED
RISE A		
RISE B		
COLLAR		
TOP		
USF		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO
LOW INVERT.

"STORM MANHOLE"

5'-0" I.D.-STORM

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWNGATE VILLAGE 12B

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED D. J.

☒ APPROVED AS NOTED

☐ REVISE & RESUBMIT

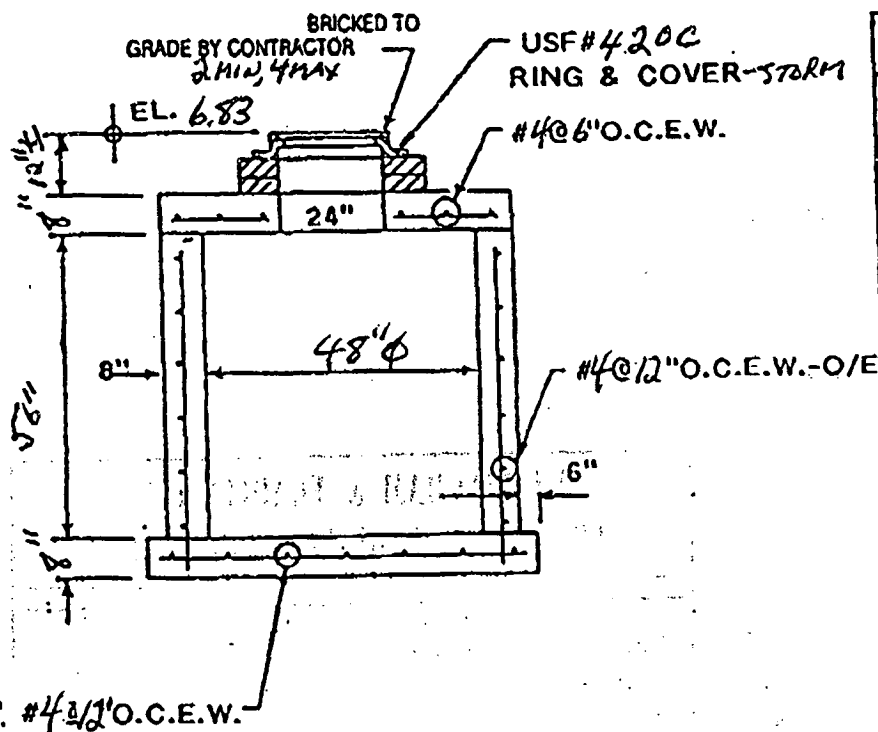
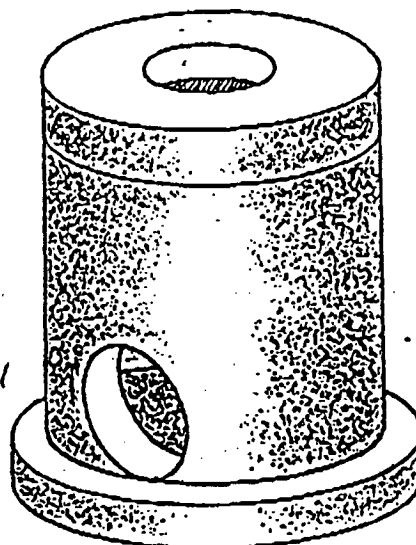
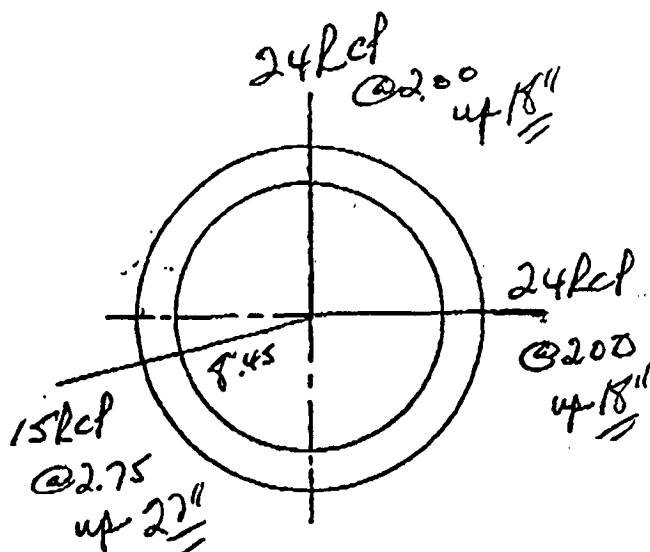
DATE 6-4-96

DOCUMENT REVIEWED FOR CONFORMANCE WITH
DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	24
ELEV.	6.83
REV.	2.00
MT.	4.83
CUT	11.50
PRICE	6.33



BASE	DATE MADE	DATE SHIPPED
ALISA		
ALISA		
COLLA		
TCP		
USP.		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO
LOW INVERT.

4'-0" I.D.-STORM	CONTRACTOR: LASER ENGINEERING	JOB: TOWN GATE VILLAGE 12B
------------------	----------------------------------	-------------------------------

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED D.C.

☒ APPROVED AS NOTED

☐ & RELIANT

DATE 6-4-96

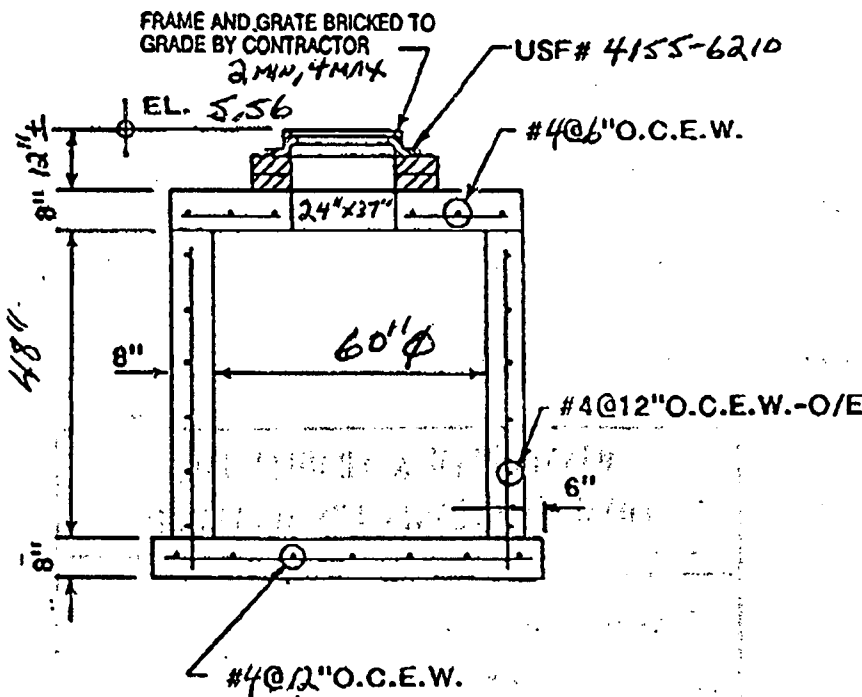
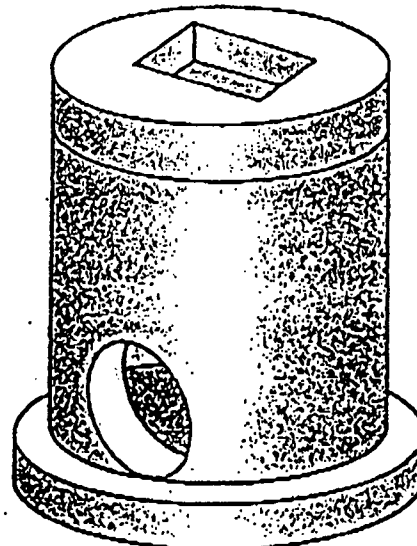
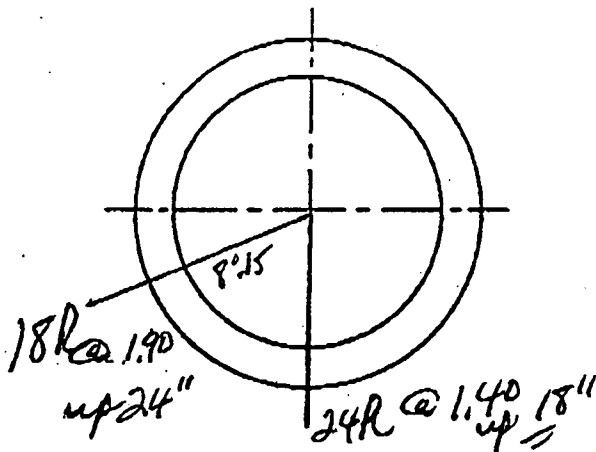
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DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL
FIELD CONDITIONS AND PROVIDE QUANTITIES
REQUIRED BY CONSTRUCTION DOCUMENTS.

TRI-COUNTY CONCRETE PRODUCTS

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622

NO.	23
ELEV.	5.56
INV.	1.40
HT.	4.16
CUT	11.50
PRICE	3.66

68"



BASE	DATE MADE	DATE SHIPPED
RISE		
RISE		
COLLAR		
TOP		
USF #		

GENERAL NOTES

4000 PSI @ 28 DAYS

TYPE II CEMENT

18" FROM BASE TO LOW INLET.

5'-0" I.D.-STORM INLET

CONTRACTOR:

LASER ENGINEERING

JOB:

TOWN GATE VILLAGE 12B

**WINNINGHAM & FRADLEY INC.
CONSULTING ENGINEERS SURVEYORS**

RECEIVED *D.C.*

☒ APPROVED AS NOTED

☐ RE-DESIGN WAIT

DATE *00-4-96*

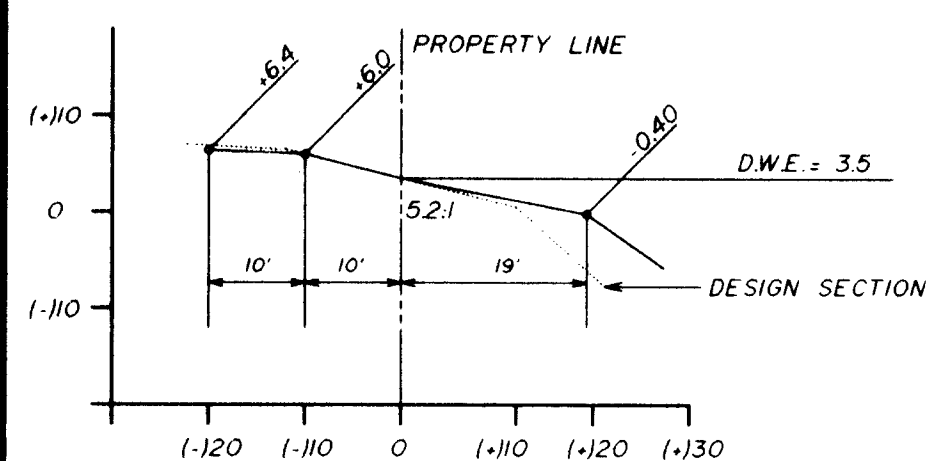
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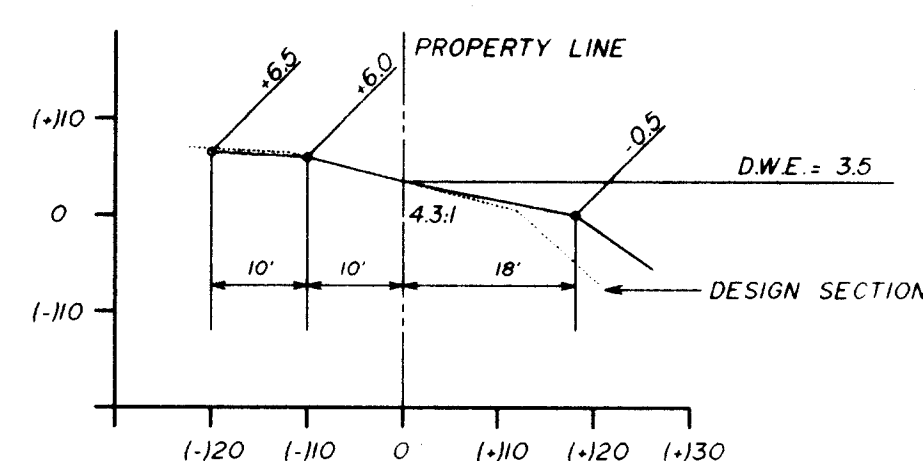
Paving & Drainage

Doc Type:

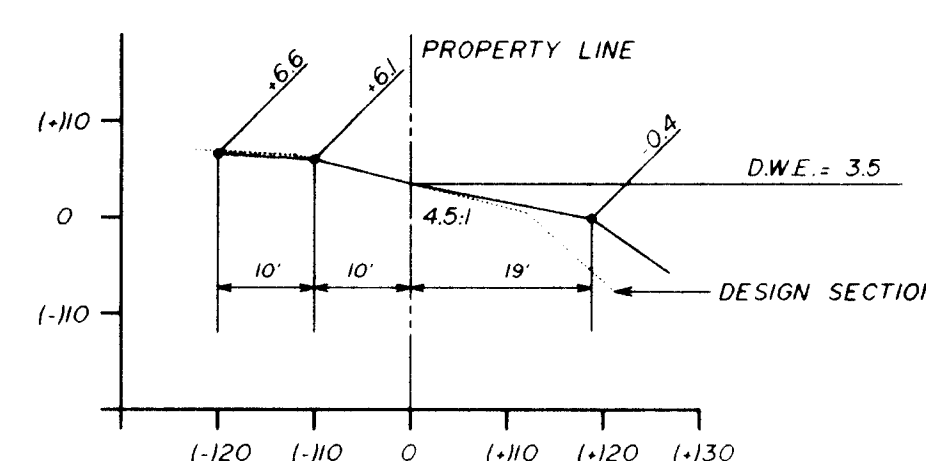
Plans & As-builts



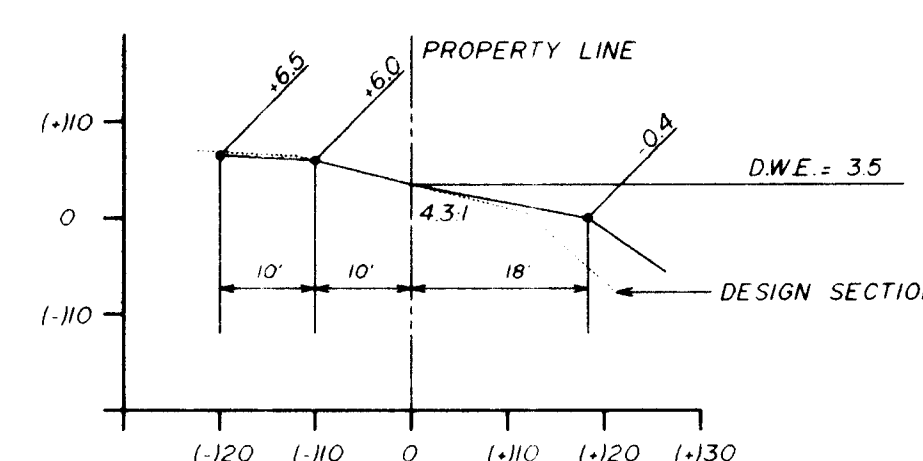
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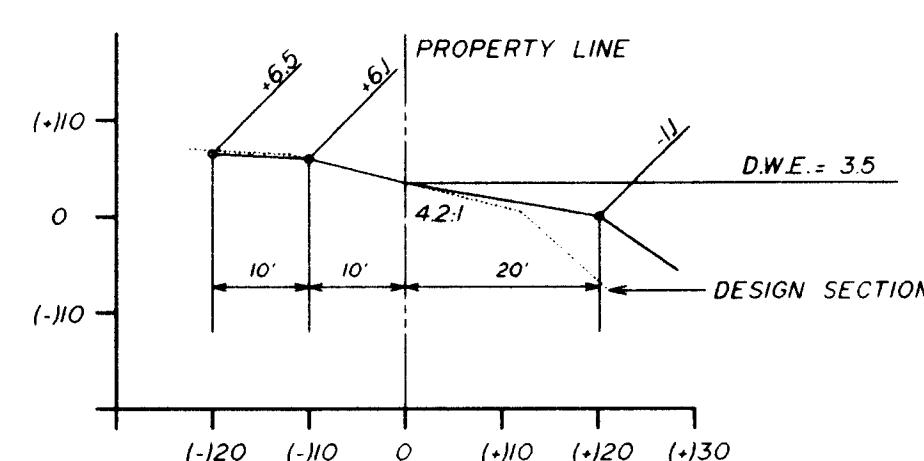
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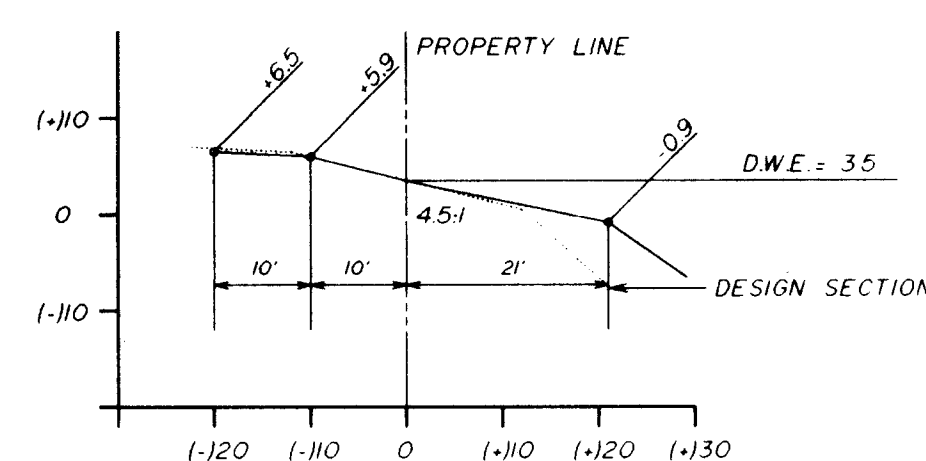
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SECTION 4

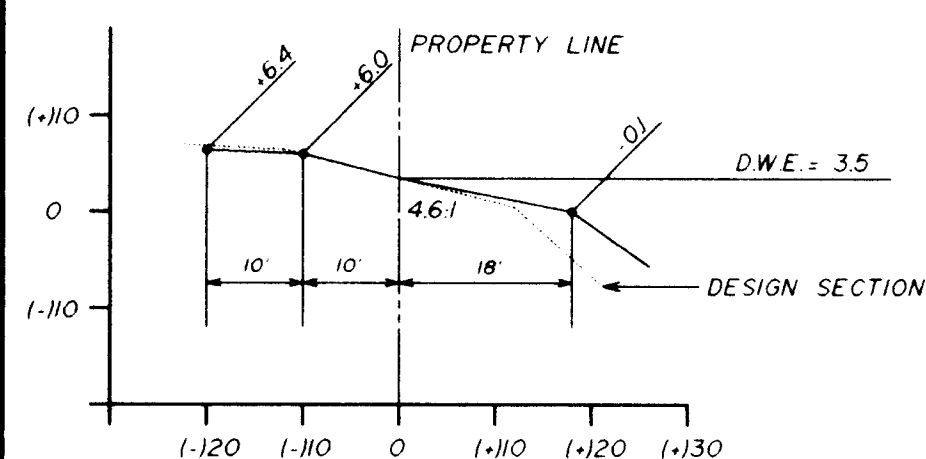


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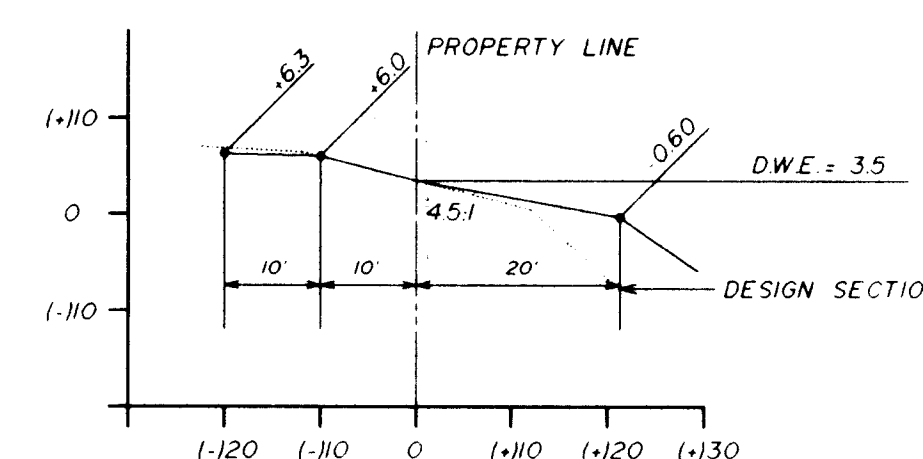


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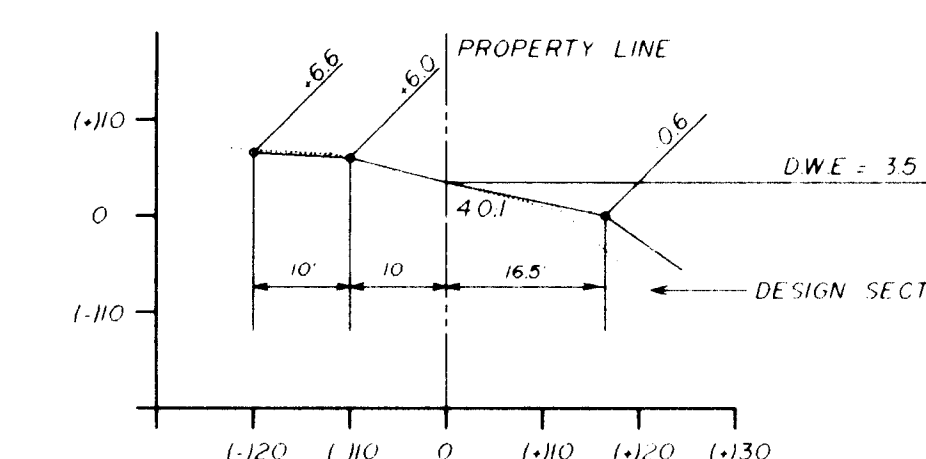
SOUTH BROWARD DRAINAGE DISTRICT
APPROVED AS - BUILT
 BY: *[Signature]* DATE: 3/4/99



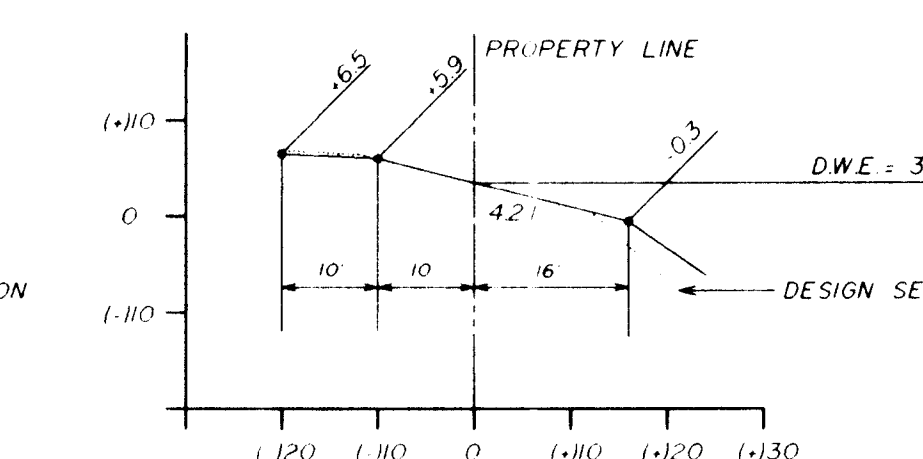
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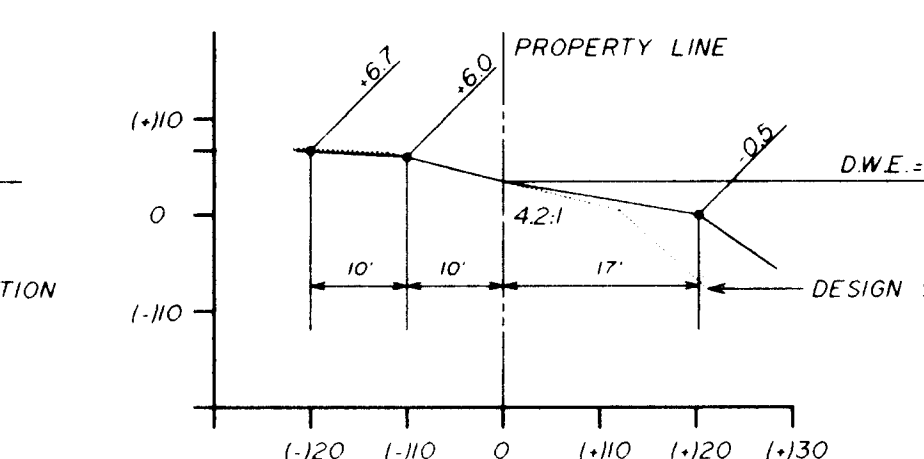
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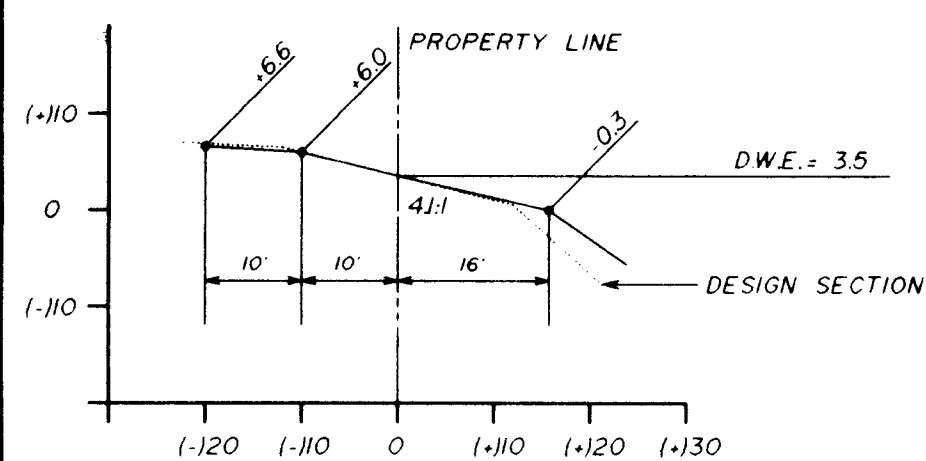
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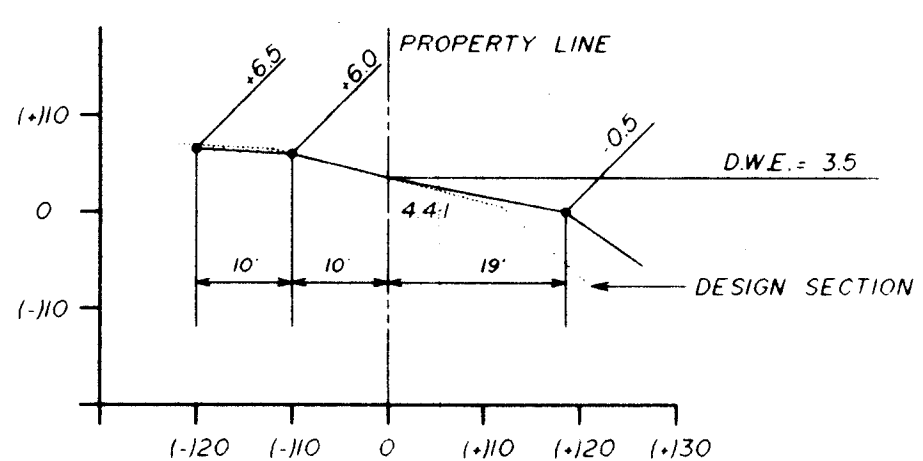
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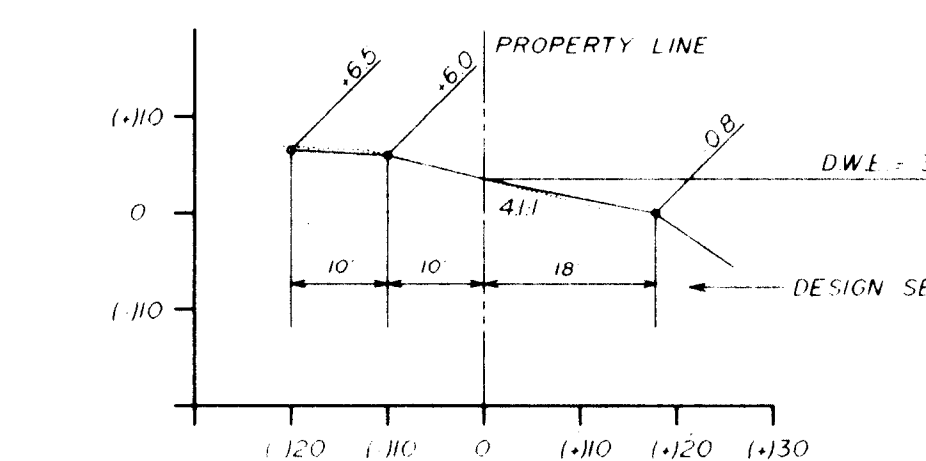
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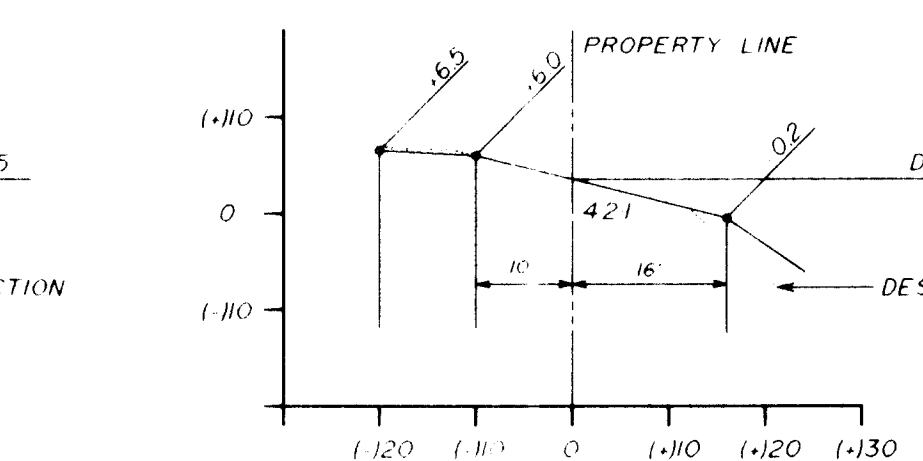
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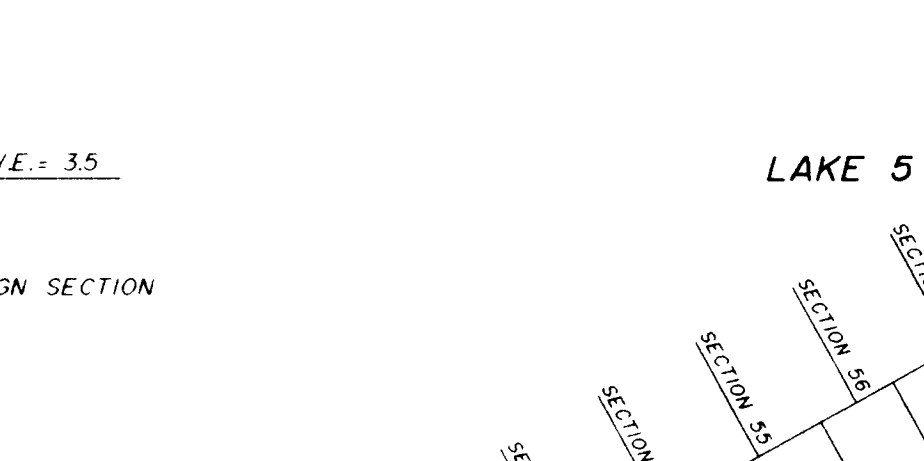
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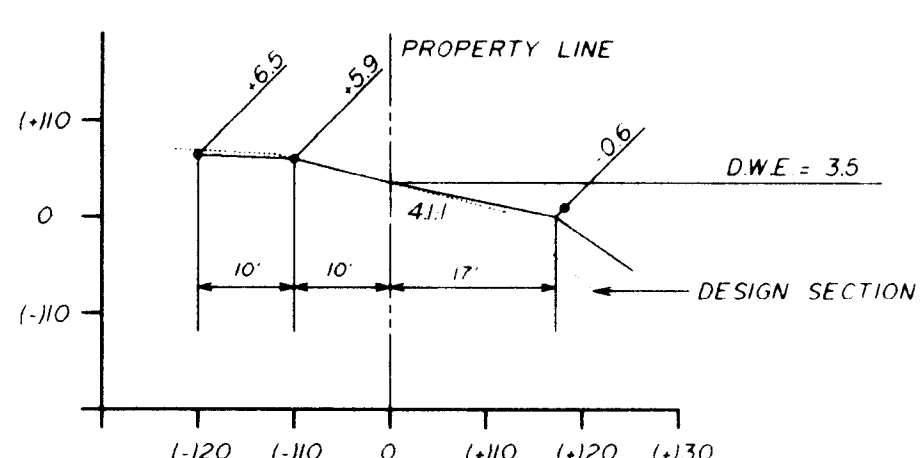
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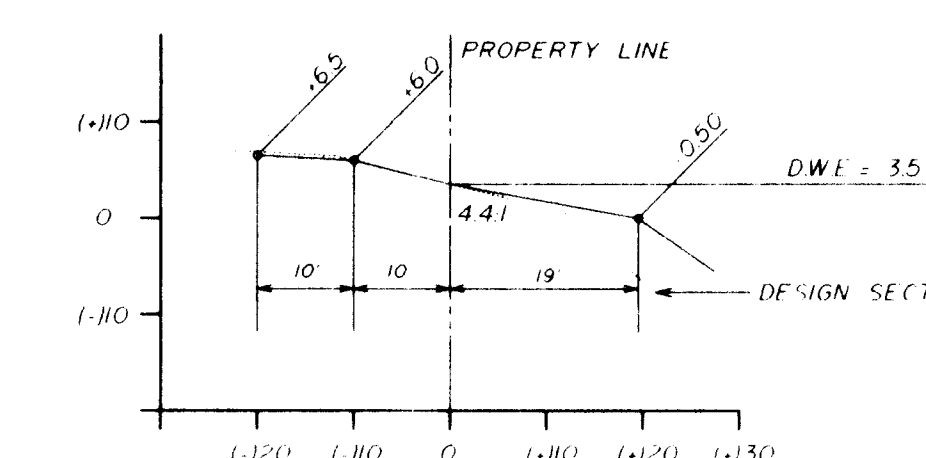
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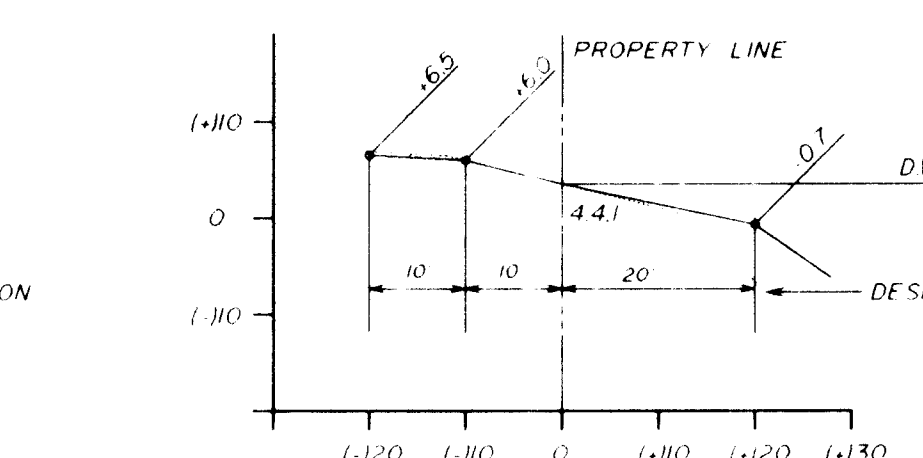
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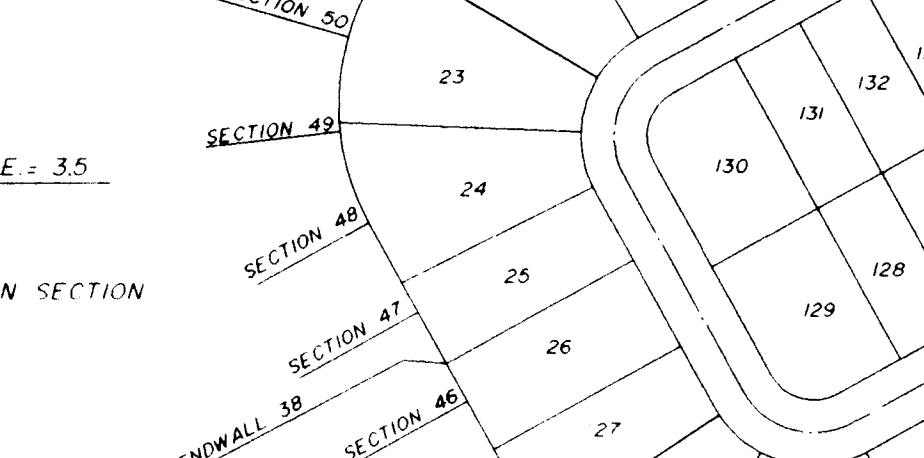
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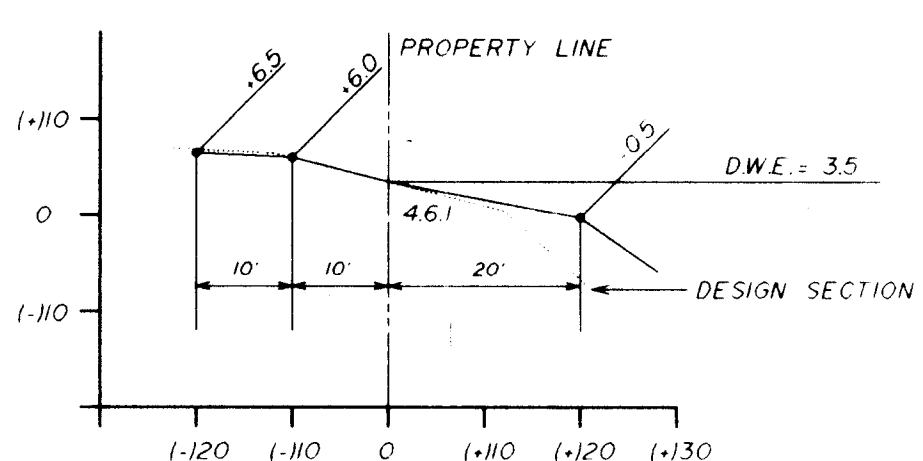
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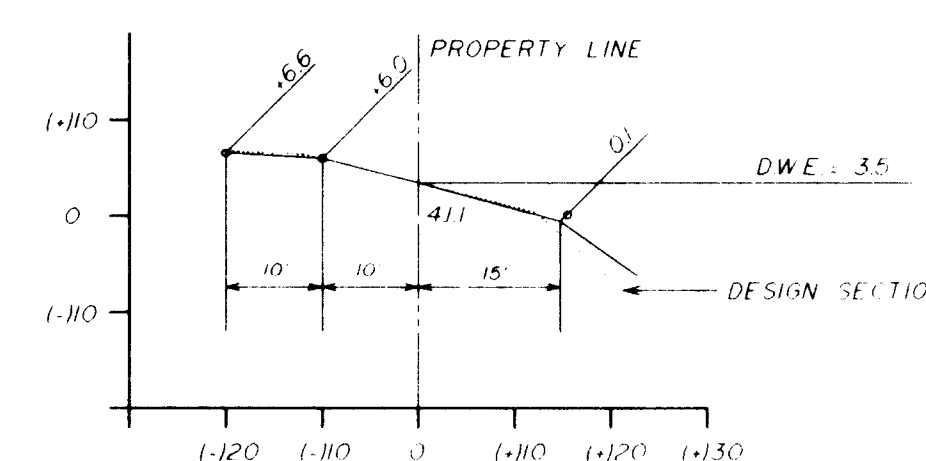
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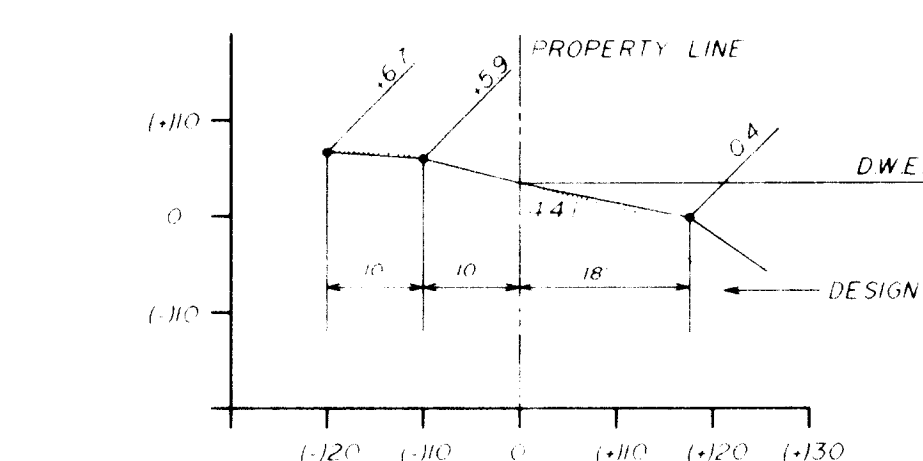
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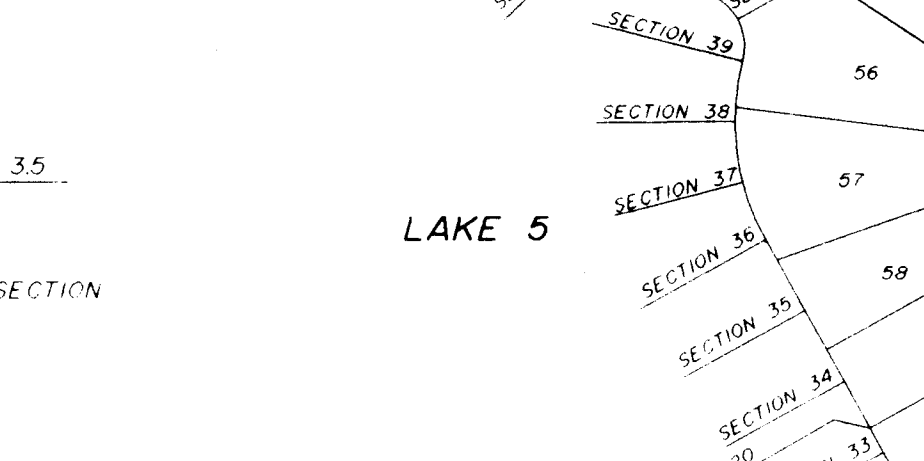
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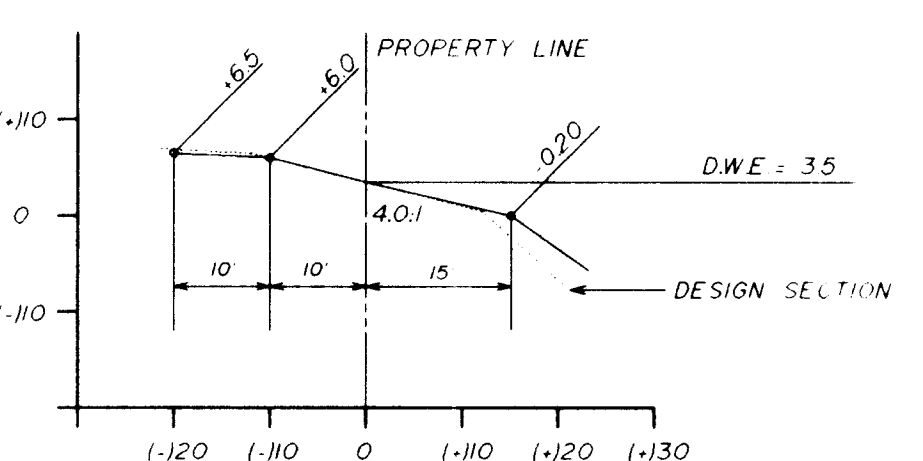
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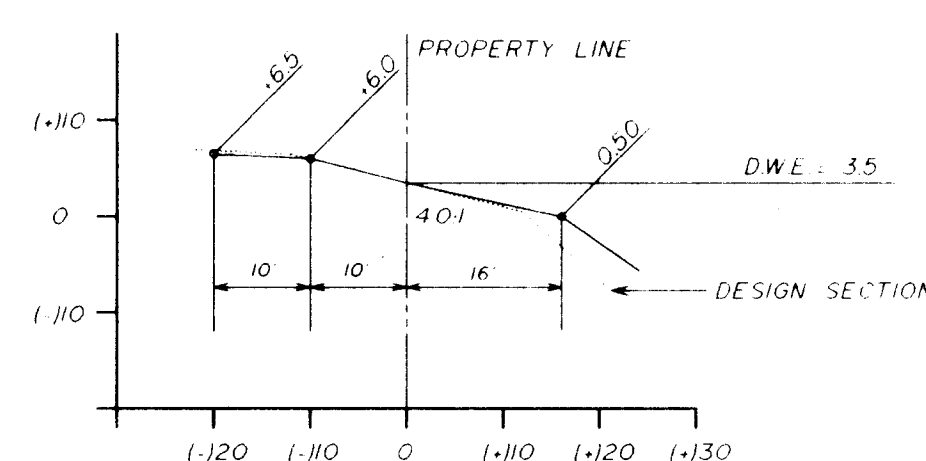
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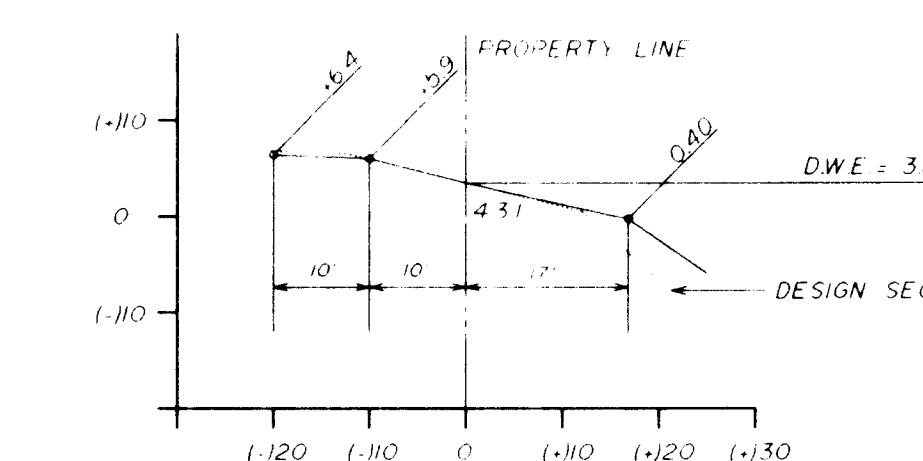
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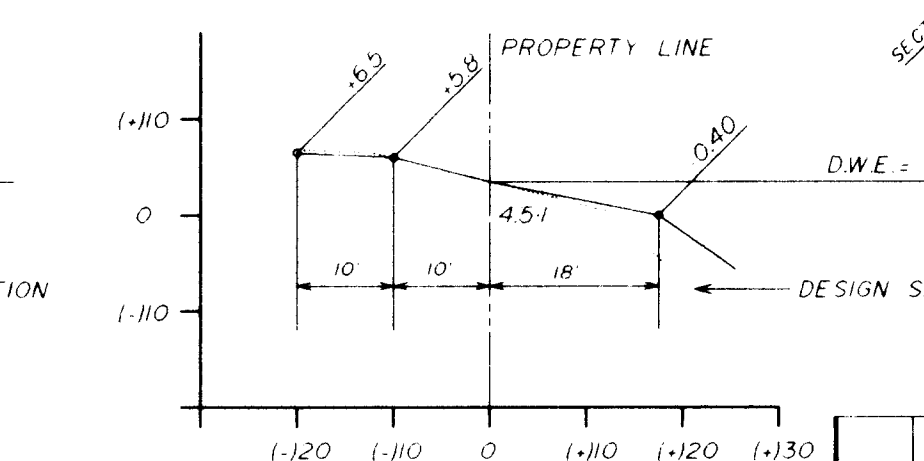
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SECTION 26

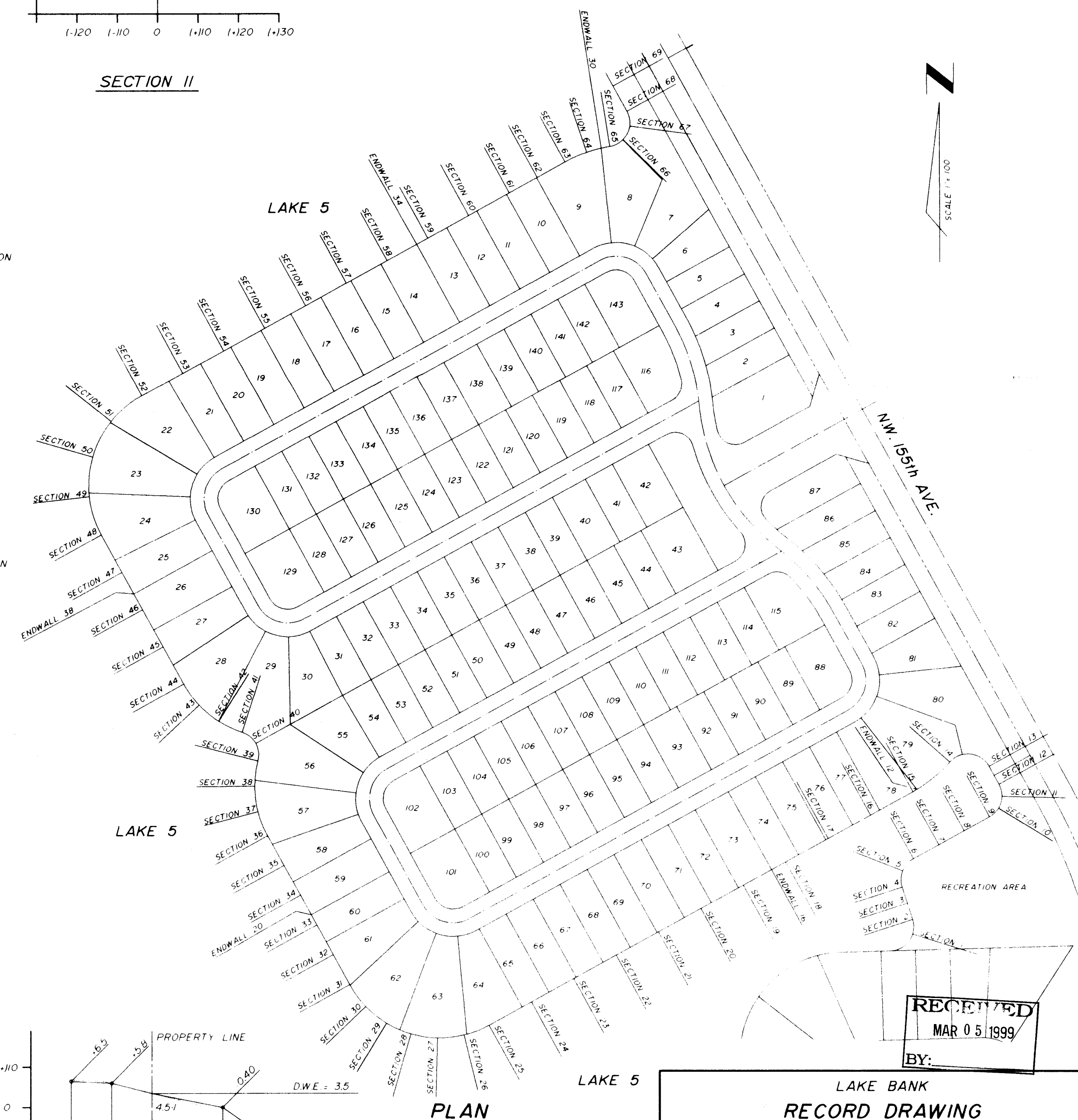


SECTION 27



SECTION 28

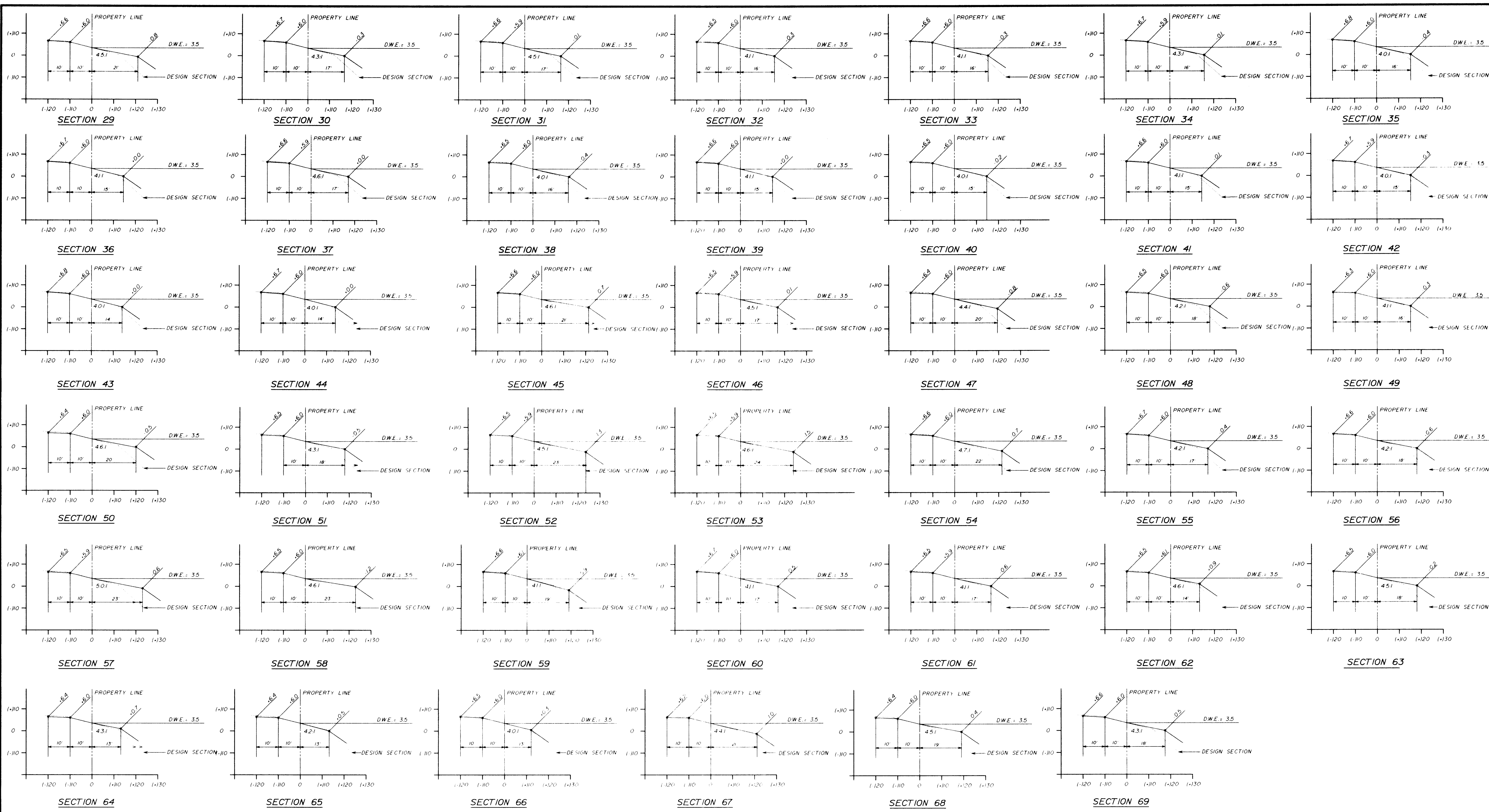
SCALE HORIZONTAL 1" = 20'
 VERTICAL 1" = 20'



RECEIVED
 MAR 05 1999
 BY: *[Signature]*

LAKE BANK		RECORD DRAWING	
TOWNGATE - VILLAGE 12B			
TOWNGATE LIMITED PARTNERSHIP			
MINTO COMMUNITIES, (PEMBROKE)			
WINNINGHAM & FRADLEY, INC.		ENGINEERS - PLANNERS - SURVEYORS	
DESIGNED	DQ1	DATE	6/97
DRAWN	DQ1	DATE	6/97
CHECKED		DATE	
PROJECT NUMBER	94512	SHEET	LB1 OF 2

MAR 04 1999



LAKE BANK
RECORD DRAWING
 TOWNGATE - VILLAGE 12B
 TOWNGATE LIMITED PARTNERSHIP
 MINTO COMMUNITIES, (PEMBROKE)

SCALE
 HORIZONTAL 1" = 20'
 VERTICAL 1" = 20'

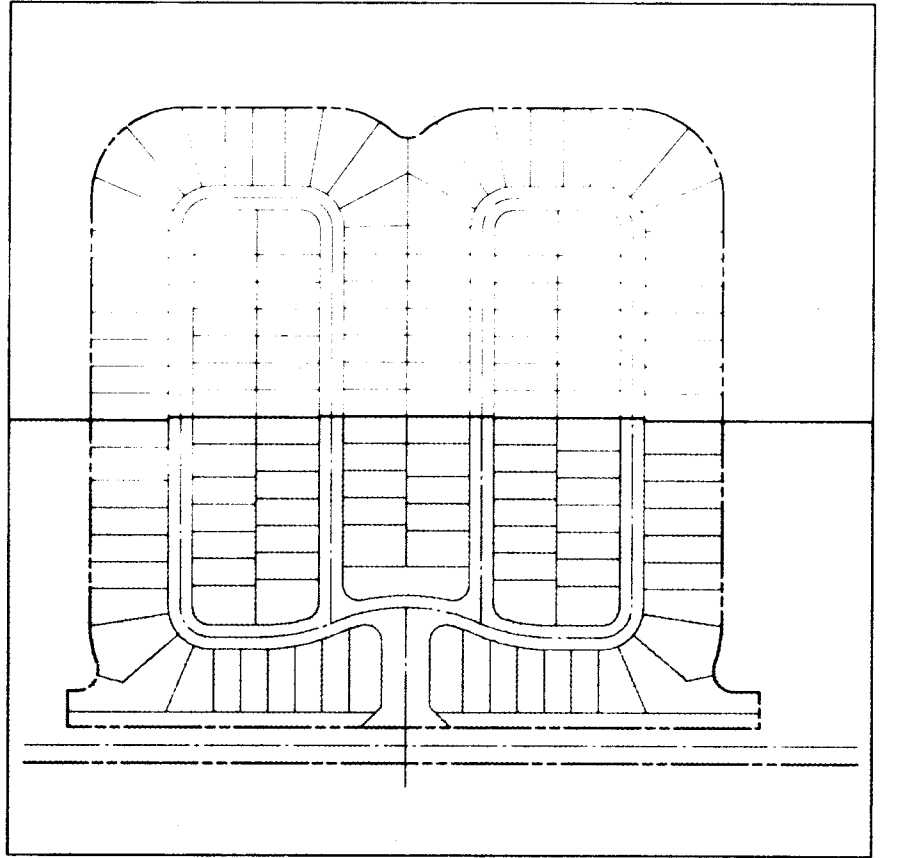
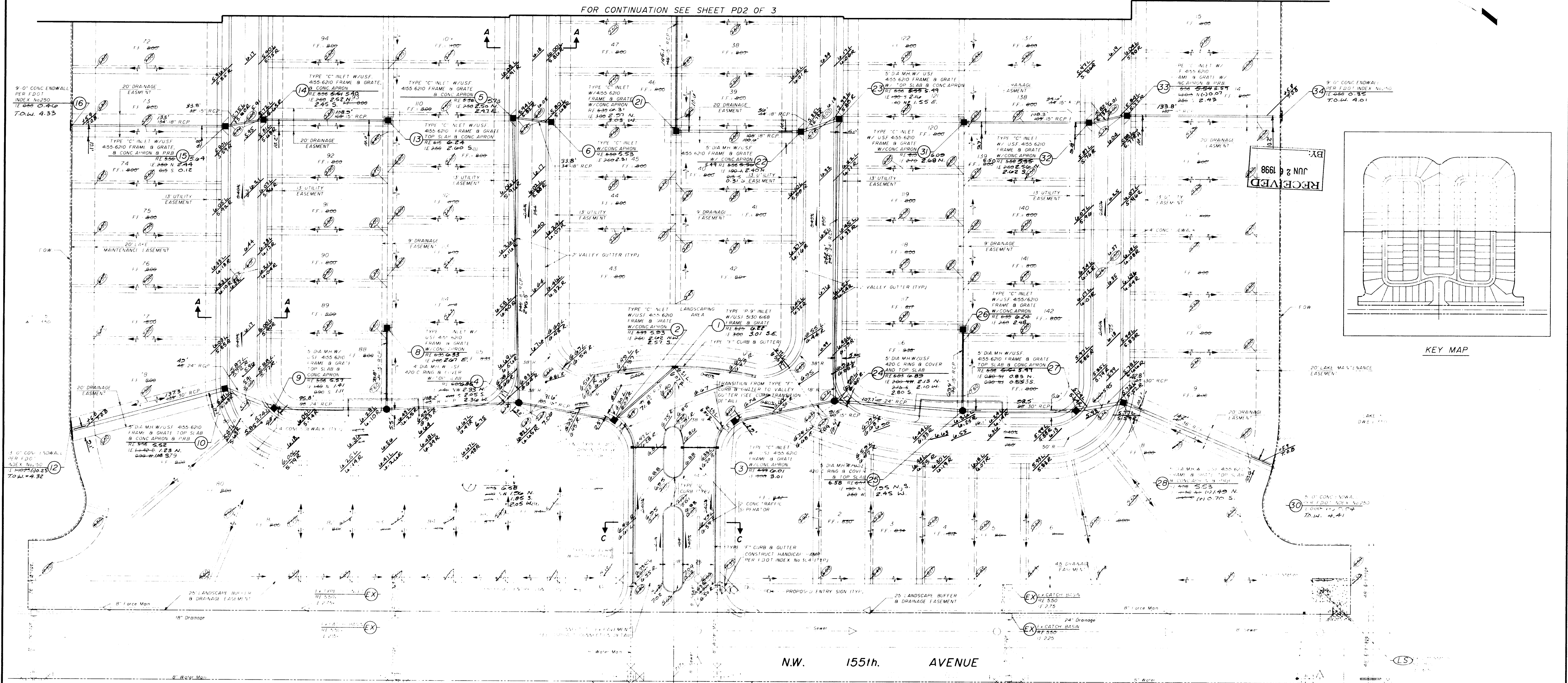
WINNINGHAM & FRADLEY, INC.
 ENGINEERS - PLANNERS - SURVEYORS

DESIGNED: D/G	DATE: 4/97	DRAWN: D/G	DATE: 4/97	 DESIGNED
REVISED UPLAND EASEMENT ELEVATION		DATE: 4/97		 DRAWN
NO. _____		REVISIONS		 CHECKED
DATE: _____		DATE: _____		 ENGINEER

94512 LB2 OF 2

MAR 04 1999

FOR CONTINUATION SEE SHEET PD2 OF 3



KEY MAP

SKETCH OF A9-BUILT SURVEY

CERTIFICATE: I hereby certify that the above sketch correctly represents a survey made under my direction and that said survey meets the minimum technical standards for land surveying in the State of Florida (Chapter 88, Florida Administrative Code).

Roger J. Dietz
P.L.S. No. 4611
State of Florida

Not valid without seal and signature of Surveyor.

DIETZ & DIETZ LAND SURVEYORS, INC.
1224 N. University Dr., Plantation, Florida 33322
(305) 475-7147

FOR:	MINTO		
DATE:	8-8-99		
ORDER NO.:	9902096		
FIELD BOOK:	179-17		
DATE	REVISION	ORDER NO.	

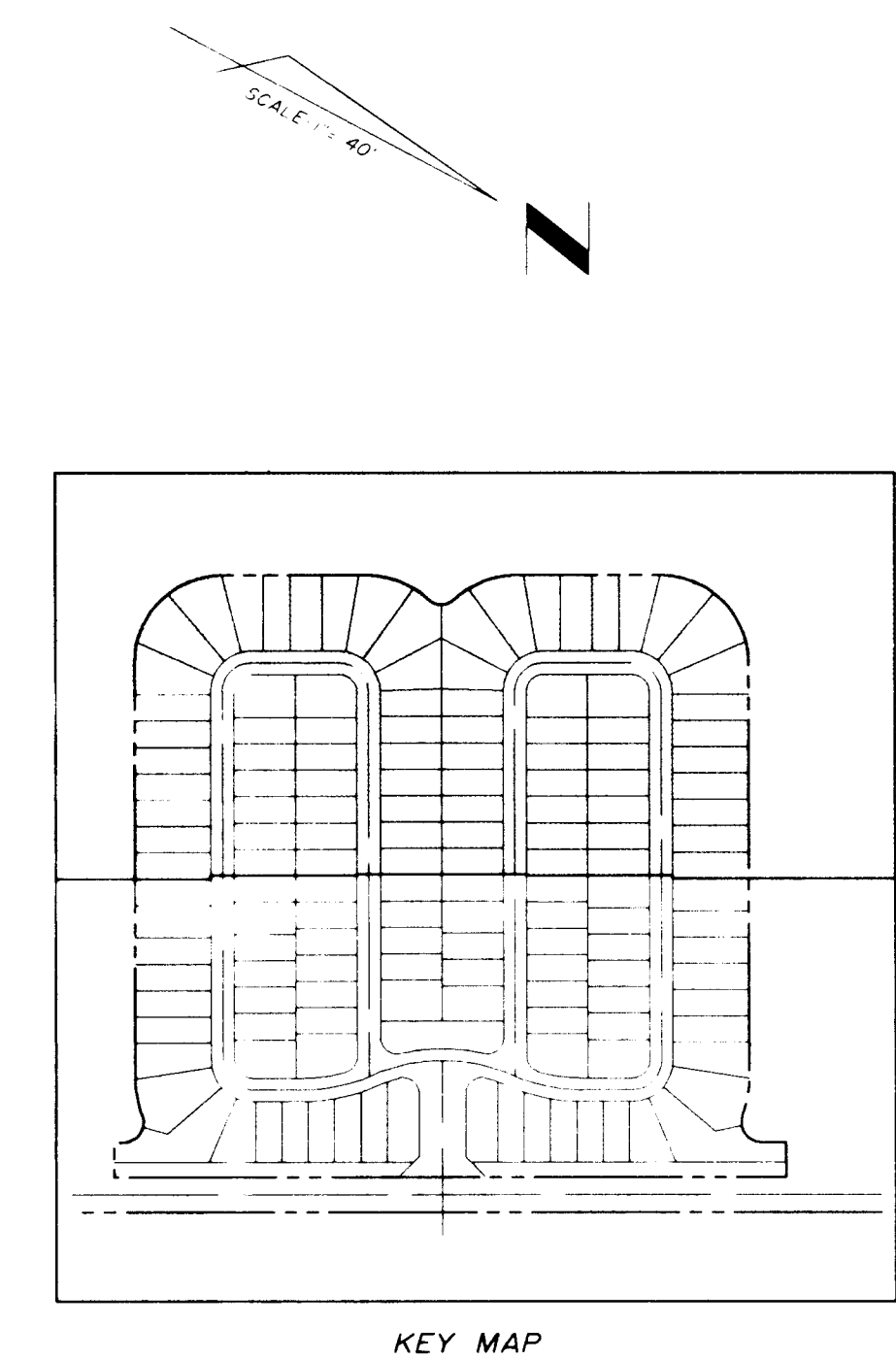
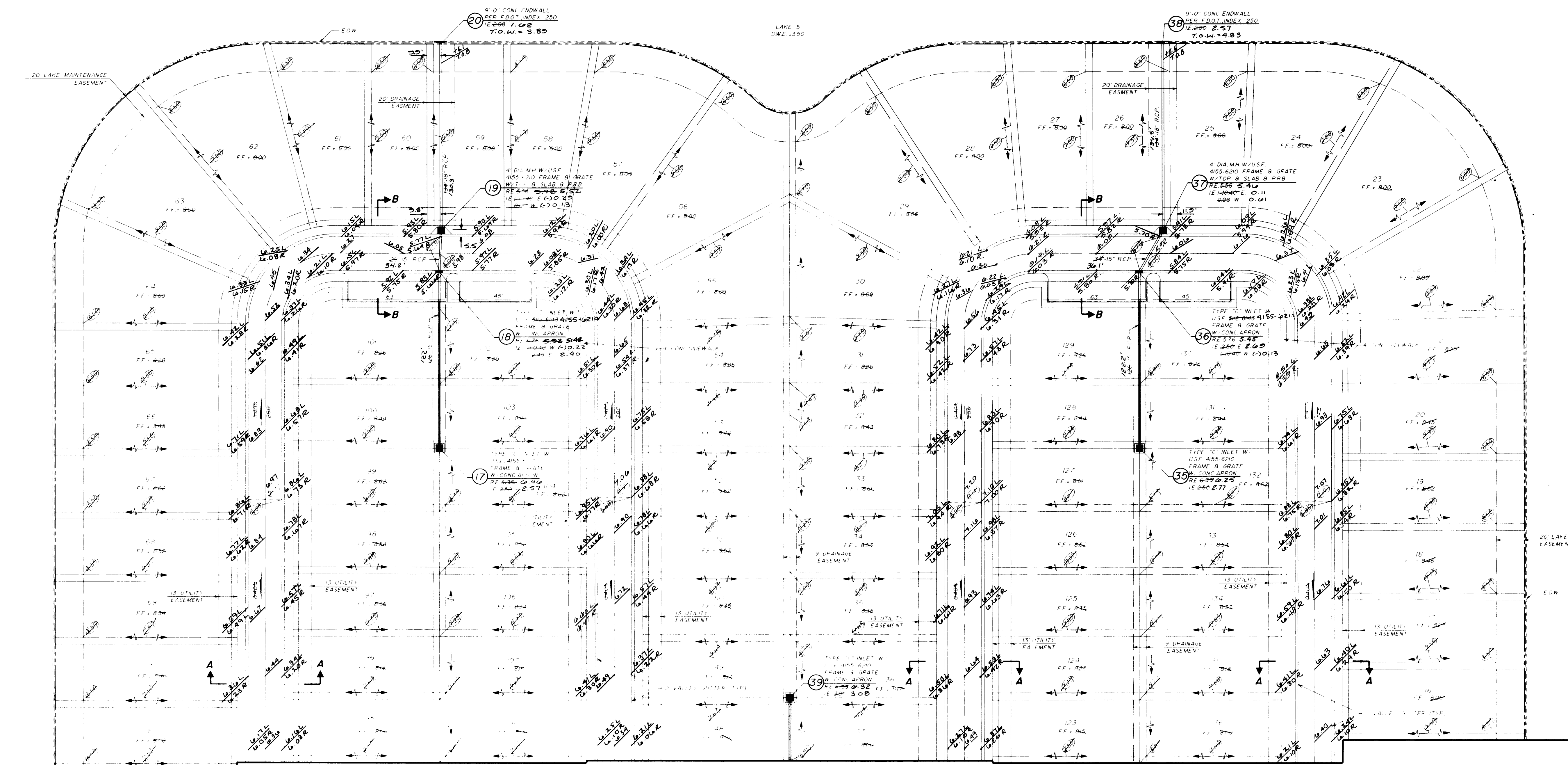
1. ADD ROCK ASBUILTS	10/2/99

PAVING & DRAINAGE SYSTEM
RECORD DRAWING

TOWNGATE - VILLAGE 12B
TOWNGATE LIMITED PARTNERSHIP
MINTO COMMUNITIES (PEMBROKE)

WINNINGHAM & FRADLEY, INC.
ENGINEERS & ARCHITECTS

DATE: JUN 2 1999
BY: [Signature]
PROJECT: 94512 ROPD 1 OF 2



FOR CONTINUATION SEE SHEET PD 1 OF 3

PAVING & DRAINAGE SYSTEM			
RECORD DRAWING			
TOWNGATE - VILLAGE 12B			
TOWNGATE LIMITED PARTNERSHIP			
MINTO COMMUNITIES, (PEMBROKE)			
WINNINGHAM & FRADLEY, INC. ENGINEERS - PLANNERS - SURVEYORS		DESIGNED: DDD DATE: 1/96 DRAWN: HAK DATE: 1/96 CHECKED: DATE:	
1. ADD ROCK ASBUILTS REVISE DRAINAGE PER DRAINAGE CHANGE REVISE PER UTILITIES DEPT		APPROVED: JUN 2 1998 94512 9DPD2 CF 2	

TOWNGATE-VILLAGE 12B

CITY OF PEMBROKE PINES, BROWARD COUNTY, FLORIDA

**TOWNGATE LIMITED PARTNERSHIP
MINTO COMMUNITIES (PEMBROKE), INC.**

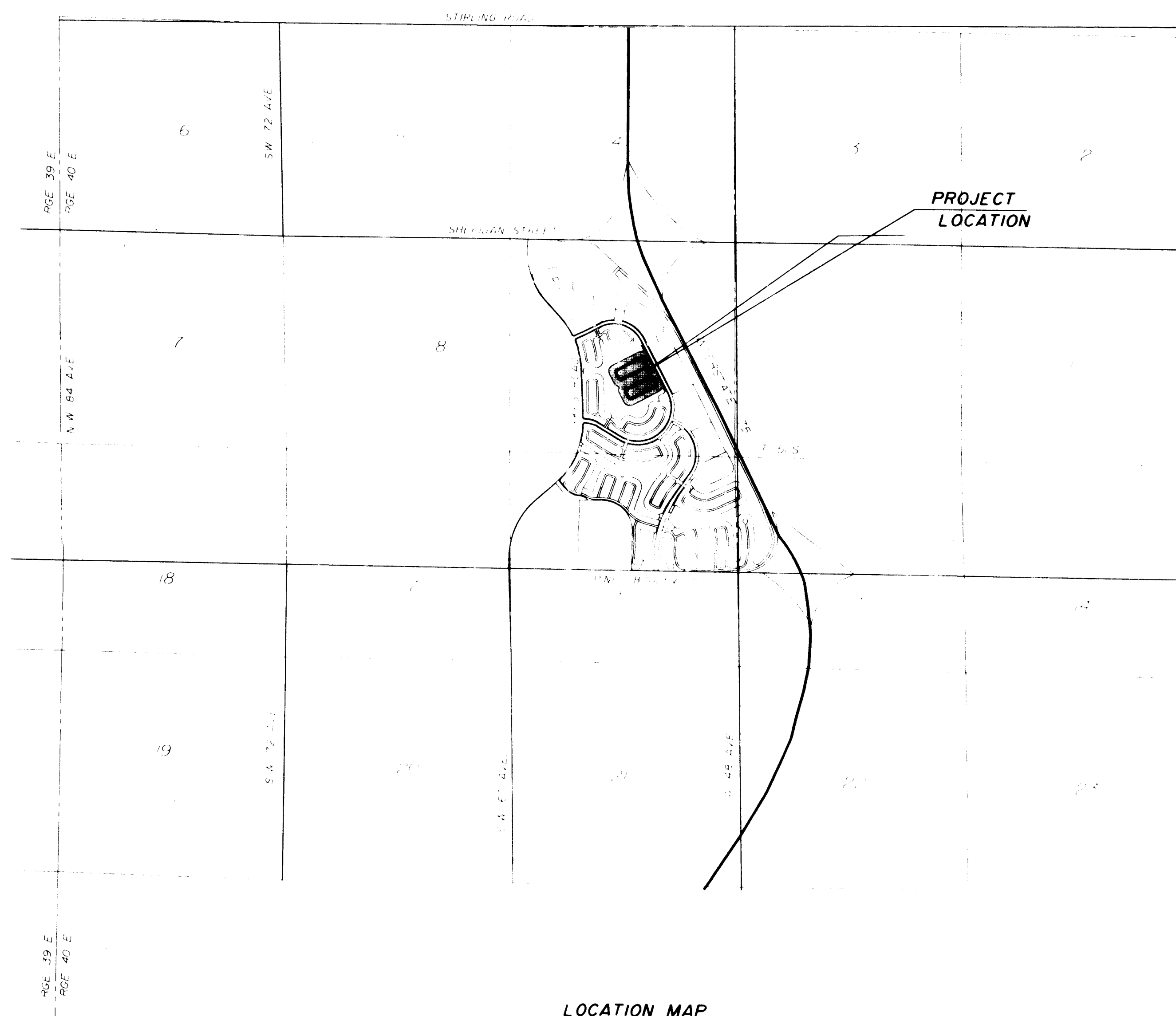
INDEX TO SHEETS	
DESCRIPTION	SHEET NUMBER
GENERAL NOTES	GNI OF 1
PAVING & DRAINAGE SYSTEM - PLAN	PDI OF 3
PAVING & DRAINAGE SYSTEM - PLAN	PD2 OF 3
PAVING & DRAINAGE SYSTEM - DETAILS	PD3 OF 3
TRAFFIC MARKINGS - PLAN	TMI OF 1
WATER DISTRIBUTION & SEWAGE COLLECTION SYSTEM - PLAN	WSI OF 6
WATER DISTRIBUTION & SEWAGE COLLECTION SYSTEM - PLAN	WS2 OF 6
SEWAGE COLLECTION SYSTEM - PROFILES	WS3 OF 6
SEWAGE COLLECTION SYSTEM - PROFILES	WS4 OF 6
WATER DISTRIBUTION SYSTEM - DETAILS	WS5 OF 6
SEWAGE COLLECTION SYSTEM - DETAILS	WS6 OF 6

LEGAL DESCRIPTION

A portion of Parcel "D", TOWNGATE, according to the plat thereof, as recorded in Plat Book 156, Page 11, of the Public Records of Broward County, Florida, being more particularly described as follows:

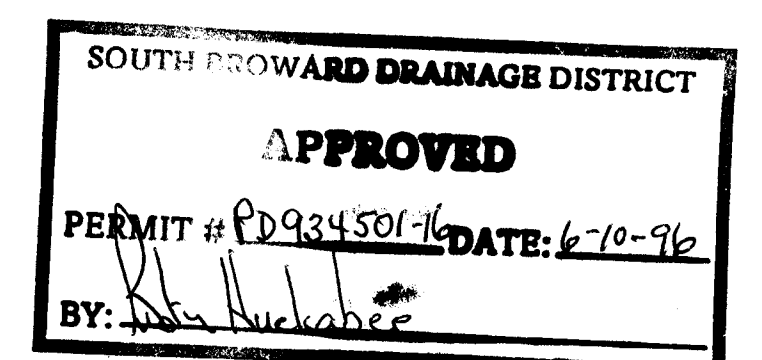
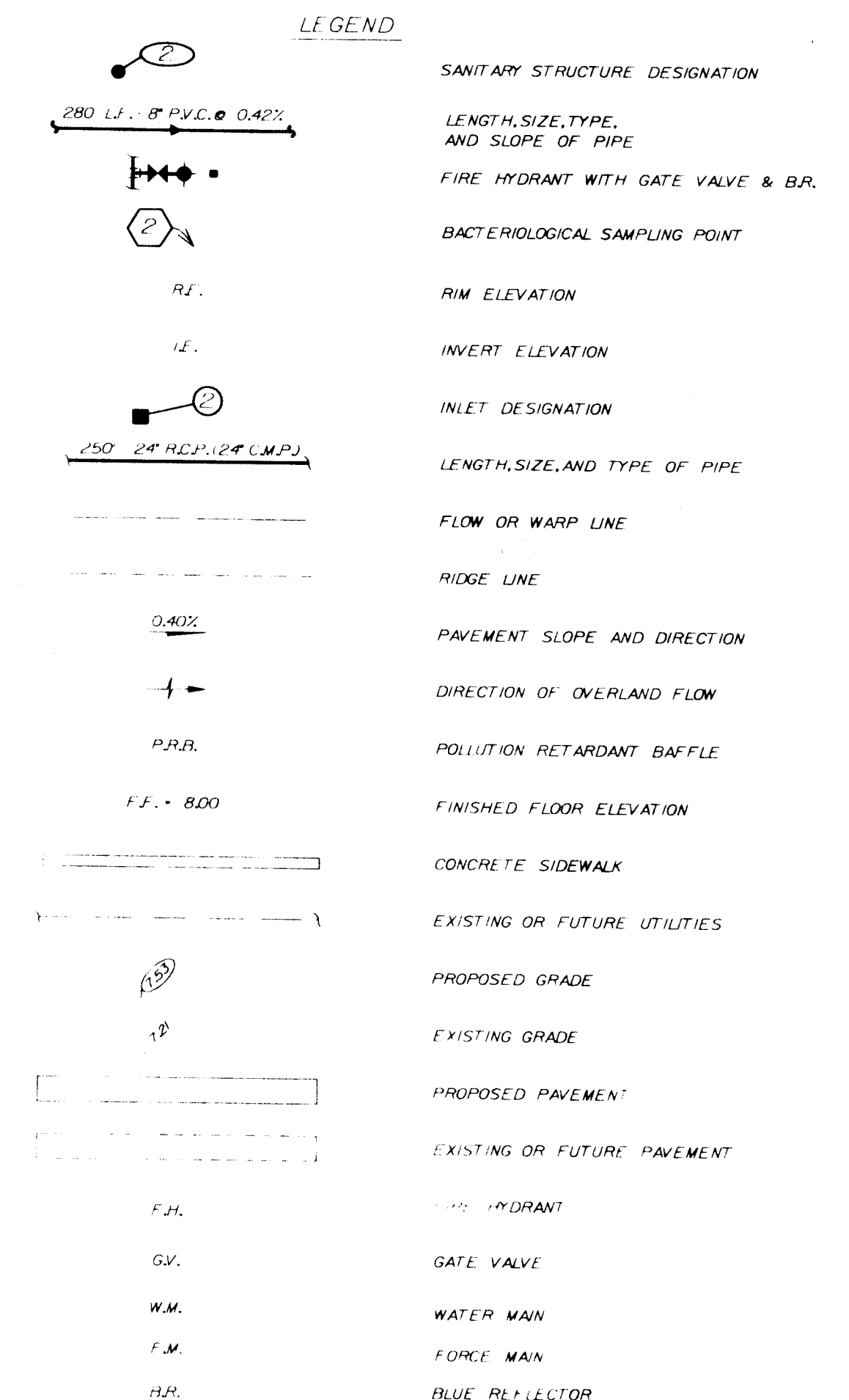
COMMENCING at the southernmost southwest corner of said Parcel "D", TOWNGATE, said point being a point on a curve at which a radial line bears South 02°59'21" East (bearings are based on the "road" plat), thence easterly and southeasterly along the arc of a curve to the right (this and the following described course being along the northerly right-of-way of N.W. 12th Street), having a radius of 690.00 feet and a central angle of 33°15'37", for 400.55 feet to a point of tangency, thence South 59°43'44" East for 575.23 feet to a point of curvature, thence southeasterly, easterly, northeasterly, northerly and northwesterly along the arc of a curve to the left (this and the following described course being along the westerly right-of-way of N.W. 155th Avenue), having a radius of 796.00 feet and a central angle of 149°08'27", for 2071.99 feet to a point of tangency, thence North 28°52'11" West for 71.02 feet, thence South 61°07'49" West for 25.00 feet to the POINT OF BEGINNING, thence continue South 61°07'49" West for 15.02 feet, thence North 28°52'11" West for 15.02 feet to a point of curvature, thence northwesterly, westerly and southwesterly along the arc of a curve to the left, having a radius of 35.00 feet and a central angle of 109°54'10", for 67.14 feet to a point of reverse curvature, thence southwesterly along the arc of a curve to the right, having a radius of 200.00 feet and a central angle of 19°54'10", for 69.47 feet to a point of tangency, thence South 61°07'49" West for 705.00 feet to a point of curvature, thence southwesterly, westerly and northwesterly along the arc of a curve to the right, having a radius of 150.00 feet and a central angle of 90°00'00", for 235.62 feet to a point of tangency, thence North 28°52'11" West for 248.51 feet to a point of curvature, thence northwesterly and northerly along the arc of a curve to the right, having a radius of 150.00 feet and a central angle of 43°08'11", for 112.93 feet to a point of reverse curvature, thence northerly and northwesterly along the arc of a curve to the left, having a radius of 35.00 feet and a central angle of 86°16'21", for 52.70 feet to a point of reverse curvature, thence northwesterly along the arc of a curve to the right, having a radius of 150.00 feet and a central angle of 43°08'11", for 112.93 feet to a point of tangency, thence North 28°52'11" West for 248.51 feet to a point of curvature, thence northwesterly, northerly and northeasterly along the arc of a curve to the right, having a radius of 150.00 feet and a central angle of 90°00'00", for 235.62 feet to a point of tangency, thence North 61°07'49" East for 705.00 feet to a point of curvature, thence northeasterly along the arc of a curve to the right, having a radius of 200.00 feet and a central angle of 19°54'10", for 69.47 feet to a point of reverse curvature, thence northeasterly, northerly and northwesterly along the arc of a curve to the left, having a radius of 35.00 feet and a central angle of 109°54'10", for 67.14 feet to a point of tangency, thence North 28°52'11" West for 49.04 feet, thence North 61°07'49" East for 35.00 feet, thence South 28°52'11" East for 545.00 feet, thence North 16°07'49" East for 35.36 feet, thence South 28°52'11" East, along the westerly right-of-way of N.W. 155th Avenue for 150.00 feet, thence North 73°52'11" West for 35.36 feet, thence South 28°52'11" East for 510.99 feet to the POINT OF BEGINNING.

Said lands situate, lying and being in the City of Pembroke Pines, Broward County, Florida, and contain 24.019 acres, more or less. SECTION 5, TOWNSHIP 35 S., RANGE 40 E.



LOCATION MAP

**PAVING & DRAINAGE SYSTEM
TRAFFIC MARKINGS
WATER DISTRIBUTION SYSTEM
SEWAGE COLLECTION SYSTEM**



GENERAL NOTES FOR WATER DISTRIBUTION AND SEWAGE COLLECTION SYSTEMS

1. ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION
2. ALL APPLICABLE FEES AND CHARGES MUST BE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION
3. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. APPROVAL OF DEVELOPMENT PLANS BY THE CITY IN NO WAY IMPLIES VERIFICATION OF THOSE PLANS OR FEATURES DEPICTED THEREON. ANY DISCREPANCY IN, OR VARIATION FROM, THE APPROVED PLANS IS TO BE BROUGHT TO THE ATTENTION OF THE CITY'S ENGINEER BY THE OWNERS ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL UTILITIES, AND NOTIFICATION OF SUNSHINE STATE 11PH1-800-432-4770, 48 HOURS IN ADVANCE OF CONSTRUCTION.
7. THE CONTRACTOR SHALL INFORM THE CITY OF PEMBROKE PINES ENGINEERING & UTILITY DEPARTMENT AND WINNINGHAM & FRADLEY, INC. A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF CONNECTING TO A CITY FACILITY.
8. A PRE-CONSTRUCTION MEETING IS TO BE HELD AT CITY HALL AND ATTENDED BY THE CONTRACTOR, OWNER'S ENGINEER, AND OTHER INTERESTED PARTIES PRIOR TO ISSUANCE OF ANY CONSTRUCTION PERMITS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING OF TESTS AS MAY BE DEEMED NECESSARY BY THE CITY OF PEMBROKE PINES UTILITY DEPARTMENT AND THE OWNER'S ENGINEER OR AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
10. CONSTRUCTION SHALL BE CARRIED OUT IN STRICT COMPLIANCE WITH THOSE STANDARDS ACCEPTED BY BROWARD COUNTY OFFICE OF ENVIRONMENTAL SERVICES AND ADOPTED BY THE CITY OF PEMBROKE PINES.
11. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON-SITE. THE PLANS ARE TO BE MADE AVAILABLE TO THE CITY ENGINEER OR HIS DESIGNEE UPON REQUEST.
12. WHERE SANITARY SEWER MAINS CROSS UNDER WATER MAINS WITH LESS THAN 18 INCH VERTICAL CLEARANCE, AND WHERE THE SANITARY SEWER CROSSES ABOVE A WATER MAIN, BOTH PIPES SHALL BE DUCTILE IRON PIPE FOR A DISTANCE OF 20 FEET CENTERED ON THE POINT OF INTERSECTION. IN NO CASE SHALL VERTICAL CLEARANCE BETWEEN ANY UNDERGROUND PIPING BE LESS THAN 12 INCHES. A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN SANITARY SEWER AND WATER MAIN.
13. THE OWNER'S ENGINEER SHALL MAKE SUFFICIENT OBSERVATIONS OF THE WORK TO ENABLE HIM TO CERTIFY TO THE INSTALLATION AS BEING IN SUBSTANTIAL CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS.
14. THE CITY OF PEMBROKE PINES UTILITY DEPARTMENT AND THE ENGINEER OF RECORD WILL CARRY OUT INSPECTIONS OF THE WORK, AND WILL WITNESS PRESSURE, BACTERIOLOGICAL, AND INFILTRATION/EXFILTRATION TESTS. TELEVISION INSPECTION OF ALL GRAVITY SANITARY SEWER SYSTEMS ARE REQUIRED.
15. THE CONTRACTOR SHALL SUPPLY AND INSTALL APPROVED REFLECTIVE MARKERS PLACED IN THE CENTER OF THE DRIVING LANE ADJACENT TO: FIRE HYDRANTS (BLUE REFLECTOR), AND VALVES OR M.H.S. OUTSIDE PAVEMENT AREAS (ORANGE RPM'S FOR MANHOLES, WHITE RPM'S FOR GATE VALVES, AND GREEN RPM'S FOR FORCE MAIN VALVES).
16. THE FOLLOWING DOCUMENTS ARE TO BE ON FILE AT THE CITY OF PEMBROKE PINES PRIOR TO THE CONNECTION OF THE FIRST WATER METER.
- A. LETTERS OF ACCEPTANCE FROM:
BROWARD COUNTY PUBLIC HEALTH UNIT
BROWARD COUNTY DEPARTMENT OF NATURAL RESOURCE PROTECTION.
- B. CERTIFICATION OF ENGINEER OF RECORD.
- C. THREE SIGNED AND SEALED COPIES OF AS-BUILTS CERTIFIED BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
17. NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE OWNER'S ENGINEER.
18. THE MINIMUM ALLOWABLE HORIZONTAL CLEARANCE BETWEEN UTILITIES AND OBSTRUCTIONS TO BE 3'-0" INCLUDING CATCH BASINS. THE MINIMUM ALLOWABLE HORIZONTAL CLEARANCE BETWEEN UTILITIES AND TREES IS TO BE 5'-0". FIRE HYDRANTS MUST HAVE A 7.5' CLEAR RADIUS OF ALL OBSTRUCTIONS, POLES, BOXES, PLANTINGS, ETC.
19. THE MINIMUM FOOT VALVE SIZE ON FIRE HYDRANTS SHALL BE 5 1/4".
20. AT PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXCESS DEBRIS FROM THE CONSTRUCTION SITE.

GENERAL NOTES FOR SEWAGE COLLECTION SYSTEM & DRAINAGE SYSTEM

1. PRECAST STRUCTURES SHALL CONFORM TO ASTM C-478 AND 64T. PRECAST STRUCTURE MUST BE CERTIFIED BY AN INDEPENDENT ENGINEERING TESTING LABORATORY SIGNED AND DATED, CERTIFYING THAT THEY MEET THE REQUIREMENTS OF ASTM C-478 FOR CONCRETE STRENGTH, STEEL REINFORCEMENT AREA AND PLACEMENT, AND APPEARANCE. MANHOLES AND CATCH BASINS MUST BE INSPECTED BY THE CITY BEFORE UNLOADING.
2. CONCRETE FOR PRECAST MANHOLES AND CATCH BASINS OR CAST IN PLACE MANHOLES AND CATCH BASINS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. MINIMUM WALL AND BASE THICKNESS FOR PRECAST MANHOLES SHALL BE 8 INCHES, EXCEPT FOR P-BOTTOMS WHICH SHALL HAVE 6" WALLS. REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, A-305, A-195, AND A-497. LATEST REVISIONS. PLACES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS. MINIMUM COVER OVER REINFORCING STEEL SHALL BE 3 INCHES. ALL DRAINAGE STRUCTURES SHALL MEET FOOT SPECIFICATION.
4. ALL OPENINGS IN PRECAST MANHOLES AND CATCH BASINS SHALL BE CAST AT THE TIME OF MANUFACTURE.
5. PRECAST MANHOLE AND CATCH BASIN SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY OF PEMBROKE PINES AND WINNINGHAM & FRADLEY FOR APPROVAL.
6. ALL MANHOLES AND CATCH BASINS SHALL BE SET PLUMB TO LINE AND GRADE AND SHALL REST ON A FIRM, CAREFULLY GRADED SUBGRADE, WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.
7. MANHOLE SECTIONS SHALL BE JOINED WITH A MASTIC COMPOUND PRODUCING A WATER TIGHT BOND. THE REMAINING SPACE SHALL BE FILLED WITH CEMENT MORTAR AND FINISHED SO AS TO PRODUCE A SMOOTH CONTINUOUS SURFACE INSIDE AND OUTSIDE THE WALL SECTIONS.
8. ALL CONCRETE AND MORTAR USED IN MANHOLE AND CATCH BASIN CONSTRUCTION SHALL HAVE TYPE II CEMENT.
9. ALL SPACES AROUND PIPES ENTERING OR LEAVING MANHOLES SHALL BE COMPLETELY FILLED WITH EMBECO MORTAR (IRON-METALLIC) OR BONSAL (IRON-SHRINKING).
10. TWO COATS OF KOPPER'S 300 M SHALL BE APPLIED TO THE INSIDE OF THE MANHOLES AND WETWELLS. FIRST COAT RED, SECOND COAT BLACK ON THE OUTSIDE OF THE MANHOLE, ONLY ONE COAT IS NECESSARY.

11. SANITARY MANHOLES AND LIDS SHALL BE CAPABLE OF WITHSTANDING AASHTO H-20 LOADING, USF 420A. DAE LIDS SHALL SAY "CITY OF PEMBROKE PINES SANITARY SEWER".
12. ALL GRAVITY SEWER PIPE SHALL BE PVC OR DUCTILE IRON. PVC PIPE SHALL CONFORM TO ASTM D 3034, SDR 35, LATEST REVISION, WITH MAXIMUM 13 FOOT LENGTHS AND PUSH-ON RUBBER GASKET JOINTS. DUCTILE IRON GRAVITY PIPE SHALL CONFORM TO THE SPECIFICATION FOR FORCE MAIN. ALL FORCE MAINS SHALL BE LINED WITH A VIRGIN POLYETHYLENE LINER COMPLYING WITH ASTM D-1248 COMPOUNDED WITH SUFFICIENT ADDITIVES TO RESIST ULTRAVIOLET RAYS DURING ABOVE GROUND STORAGE OF THE PIPE. THE POLYETHYLENE SHALL BE FUSED TO THE INTERIOR OF THE PIPE BY HEAT, FORMING A TIGHTLY BONDED LINING APPROXIMATELY 40 MILS THICK EXTENDING FROM SPIGOT END TO THE BARREL SOCKET.
13. CONNECTING TO THE EXISTING SYSTEM. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY UTILITIES DEPARTMENT VALVES THAT SEPARATE THE MAINS BEING INSTALLED FROM THE EXISTING MAINS SHALL BE OPERATED BY OR UNDER THE DIRECTION OF THE CITY UTILITIES DEPARTMENT REPRESENTATIVE ONLY.
14. THE CONTRACTOR SHALL TEST THE COMPLETED SEWER LINE TO DETERMINE THE ALIGNMENT AND TIGHTNESS OF THE JOINTS. GRAVITY SEWER MAINS SHALL BE LAMPED AND MUST SHOW A FULL CIRCLE OF LIGHT INFILTRATION AND EXFILTRATION TESTING SHALL BE CONDUCTED. LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE PER DAY. NO VISIBLE INFILTRATION SHALL BE ALLOWED.
15. A RED STATE SHALL BE INSTALLED AT EVERY SEWER SERVICE LOCATION.
16. SANITARY SEWER SHALL BE TELEVIEWED AT OWNERS EXPENSE. OWNER / CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO THE CITY'S CERTIFICATION OF COMPLETION.
17. ALL PROBLEMS/DEFECTS ASSOCIATED WITH THE SANITARY SEWER SYSTEM SHALL BE PROPERLY ADDRESSED PRIOR TO CITY CERTIFICATION.
18. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF PEMBROKE PINES FOR APPROVAL PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISED OR UNACCEPTABLE MATERIALS INSTALLED OR ORDERED WITHOUT AN APPROVED SHOP DRAWING. FOUR COPIES OF THE SHOP DRAWINGS SHALL BE SUBMITTED.

WATER DISTRIBUTION SYSTEM NOTES

1. ALL WATER MAIN SHALL BE PVC CONFORMING TO ANSI/AWWA SPECIFICATION C-900-89-DR18.
2. FITTINGS SHALL BE DUCTILE IRON CLASS 350 MEETING AWWA/ANSI C151/A2153-88 SPECIFICATIONS. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER AWWA/ANSI C104/A214-90.
3. GATE VALVES 4" AND LARGER SHALL MEET AWWA C-509-B7 SPECIFICATION. VALVES MUST BE MUELLER CO. OR APPROVED EQUAL. MECHANICAL JOINT, RESILIENT SEATED.
4. WATER SERVICE PIPING, FITTINGS, AND SERVICE TUBING SHALL BE POLYBUTYLENE CONFORMING TO AWWA SPECIFICATION C-902-88 SDR 9, 200 PSI RATING.
5. ALL METER SERVICE CONNECTIONS SHALL BE BRONZE FROM PLUG VALVE TO PLUG VALVE. NO GATE VALVES ARE TO BE USED (2" OR LESS). 90° ANGLE LOCK WING.
6. PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
7. ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING AND DISINFECTING MUST COMPLY WITH THE CITY OF PEMBROKE PINES UTILITIES WATER AND WASTEWATER MINIMUM CONSTRUCTION REQUIREMENTS.
8. THE ENGINEER WILL TAKE ALL BACTERIOLOGICAL SAMPLES TO AN HRS CERTIFIED LABORATORY AND SUBMIT RESULTS TO THE CITY OF PEMBROKE PINES UTILITIES.
9. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY OF PEMBROKE PINES UTILITIES DEPARTMENT.
10. ALL PIPE, ETC. SHALL BE TESTED UNDER A CONSTANT PRESSURE OF 150 PSI FOR A MINIMUM TEST OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER AWWA/ANSI SPECIFICATIONS OF C600-93 LEAKAGE FORMULA.
- Q = ALLOWABLE LEAKAGE IN GALLONS PER HOUR
L = TOTAL LENGTH OF PIPE TESTED IN FEET
D = DIAMETER OF THE PIPE TESTED IN INCHES
P = AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH
11. THE MINIMUM DEPTH OF COVER OVER PVC WATER MAINS SHALL BE 36 INCHES & OVER DIP SHALL BE 30 INCHES.
12. DISINFECTION OF MAINS SHALL COMPLY WITH AWWA C-651-92 SPECIFICATIONS STANDARD BACTERIOLOGICAL SAMPLING POINTS SHALL BE DESIGNATED ON THE ENGINEERING PLANS (FORCE MAIN SHALL NOT BE DISINFECTED).
13. MINIMUM VALVE SPACING SHALL BE AS PER SECTION 82 OF THE TEN STATES STANDARDS.
14. WHEN PVC IS USED FOR WATER MAIN, A 3" STRIP OF METALLIC TAPE SHALL BE INSTALLED THE LENGTH OF THE PIPE 18" ABOVE THE PIPE WITH THE WORDS "WATER (OR FORCE) MAIN BURIED BELOW" FACING UPWARD. NON-METALLIC TAPE SHALL BE USED ON DIP.
15. ALL DIP WATER MAIN SHALL BE CLASS 350, CONFORMING TO ANSI/AWWA SPECIFICATION C151/A214-91 AND BE CEMENT MORTAR LINED AND SEAL COATED PER ANSI/AWWA SPECIFICATION C104/A214-90.
16. PLUG VALVES SHALL BE DUCTILE IRON MANUFACTURED BY CLOW OR EQUAL.
17. A TEMPORARY METER SHALL BE INSTALLED BY THE CONTRACTOR FOR ANY TEMPORARY SERVICES.
18. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF PEMBROKE PINES FOR APPROVAL PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISED OR UNACCEPTABLE MATERIALS INSTALLED OR ORDERED WITHOUT AN APPROVED SHOP DRAWING. FOUR COPIES OF THE SHOP DRAWINGS SHALL BE SUBMITTED.

PAVING AND DRAINAGE SYSTEM NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF PEMBROKE PINES ENGINEERING DEPARTMENT, THE SOUTH BROWARD DRAINAGE DISTRICT, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL GIVE TIMELY NOTIFICATION TO ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA.
3. THE LOCATIONS OF EXISTING FACILITIES WERE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES AND SURVEY MARKERS.
4. ALL DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) MEETING THE REQUIREMENTS OF ASTM SPECIFICATION C76-85b.
5. MINIMUM COVER FOR ALL PIPE CULVERTS SHALL MEET THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS (INDEX NO. 205).
6. ALL UNDERGROUND FACILITIES SHALL BE INSTALLED PRIOR TO PLACING THE LIMEROCK BASE MATERIAL.
7. THE CONTRACTOR AND/OR HIS SUPERINTENDENT SHALL HAVE AT LEAST ONE COPY OF EACH OF THE FOLLOWING PUBLICATIONS ON THE JOB SITE DURING CONSTRUCTION OF THIS PROJECT:
A) CITY OF PEMBROKE PINES ENGINEERING DEPARTMENT STANDARD DETAILS SPECIFICATIONS & PROCEDURAL MANUAL, JANUARY 1990.
B) FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
C) FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, JANUARY 1992.
D) U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, MARCH 1988.

8. THE FOLLOWING INSPECTIONS ARE REQUIRED BY THE CITY OF PEMBROKE PINES ENGINEERING DEPT. PLEASE CALL 435-6512 48 HRS PRIOR TO THE TIME THE INSPECTION IS NEEDED.

A. CLEARING AND FILLING
B. STORM DRAINS/UTILITIES
C. SUBGRADE
D. ROCK BASE
E. PRIME COAT
F. ASPHALT
G. FINAL
H. PAVEMENT MARKINGS

9. DENSITY TESTS FOR SUBGRADE MUST BE SUBMITTED TO AND APPROVED BY THE CITY OF PEMBROKE PINES.
10. DENSITY TESTS AND AS-BUILTS FOR LIMEROCK BASE MUST BE SUBMITTED AND APPROVED BY THE CITY OF PEMBROKE PINES PRIOR TO THE PLACEMENT OF ANY ASPHALT.

SOUTH BROWARD DRAINAGE DISTRICT
GENERAL NOTES

1. THE FOLLOWING GENERAL NOTES ARE REQUIRED BY SOUTH BROWARD DRAINAGE DISTRICT. THEY ARE NOT MEANT TO BE ALL INCLUSIVE AND IT IS THE ENGINEER'S RESPONSIBILITY TO ADD ANY NOTES WHICH WILL FORM THE OWNER AND THE CONTRACTOR OF AN ADDITIONAL REQUIREMENTS OF THE SOUTH BROWARD DRAINAGE DISTRICT.
2. LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 910 OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS EXCEPT THE MINIMUM PERCENTAGE OF CARBONATE OF CALCIUM AND MAGNESIUM SHALL BE SIXTY PERCENT (60%).
3. THE CONTRACTOR SHALL CALL THE SOUTH BROWARD DRAINAGE DISTRICT 24 HOURS PRIOR TO BACK-FILLING OF DRAINAGE TRENCHES, PLACEMENT OF ASPHALT, SHAPING OF CANAL OR LAKE BANKS FROM THE DEEP CUT LINE AND AS REQUIRED BY DISTRICT CALL (305) 681-3337/8. THE SOUTH BROWARD DRAINAGE DISTRICT'S WORKING HOURS ARE FROM 8:00 AM TO 4:30 PM.
4. ANY REVISIONS TO THESE PLANS MUST BE APPROVED BY SOUTH BROWARD DRAINAGE DISTRICT PRIOR TO CONSTRUCTION.
5. BONDS AND INSPECTIONS
- UPON DISTRICT BOARD OF SUPERVISORS APPROVAL OF PLANS, BUT BEFORE CONSTRUCTION CAN COMMENCE, THE FOLLOWING ITEMS MUST BE COMPLIED WITH:
- A. BOND (CASH OR SURETY) OR LETTER OF CREDIT, IN THE DISTRICT'S FAVOR, MUST BE POSTED IN THE AMOUNT STATED IN SECTION 411 OF THE DISTRICT'S DESIGN CRITERIA MANUAL.
- B. ALL EASEMENTS, DEED RESTRICTIONS, INDEMNIFICATION AGREEMENTS, MAINTENANCE AGREEMENTS AND DEEDS AS REQUIRED BY THE DISTRICT SHALL BE PRESENTED TO THE DISTRICT MANAGER AND ATTORNEY FOR APPROVAL BEFORE RECORDATION. ALL COSTS OF RECORDING THE APPLICABLE INSTRUMENT WILL BE BORNE BY THE DEVELOPER.
- C. UPON COMPLIANCE WITH THE CONDITIONS REQUIRED BY THE DISTRICT FOR APPROVAL AND RECEIPT OF APPROVED PLANS FROM THE DISTRICT'S ENGINEER, THE DISTRICT'S MANAGER WILL MARK THE PLANS "APPROVED" AND SIGN SAME AND DISTRIBUTE THE APPROVED PLANS TO THE DEVELOPER AND THE DISTRICT FILES.
- D. BONDS SHALL BE PROVIDED BY THE PRINCIPALS OF DEVELOPMENTS ONLY. CONTRACTOR OR SUB-CONTRACTOR BONDS ARE NOT ACCEPTABLE.
- E. IF REQUIRED BY DISTRICT, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AT LEAST SEVEN (7) DAYS PRIOR TO CONSTRUCTION.
6. WHEN CONSTRUCTION IS IN PROGRESS, THE DISTRICT'S INSPECTOR WILL INSPECT THE INSTALLATION OF DRAINAGE WORKS, ACCORDING TO AN INSPECTION SCHEDULE ESTABLISHED BY THE DISTRICT. INSPECTION MUST BE MADE BY DISTRICT PERSONNEL OF ALL UNDERGROUND STORM DRAIN FACILITIES BEFORE BACKFILLING. CALL (305) 680-3337/8 8:00 AM-4:30 PM FOR AN INSPECTION APPOINTMENT. A MINIMUM OF TWENTY-FOUR (24) HOURS IN ADVANCE. ALL COSTS OF PERIODIC INSPECTIONS OF CONSTRUCTION BY THE DISTRICT SHALL BE BORNE BY THE DEVELOPER.
7. CERTIFIED "AS-BUILT" PLANS FROM THE ENGINEER OF RECORD WHICH ARE ACCEPTED AND APPROVED BY THE DISTRICT'S ENGINEERS AND MANAGER WILL BE REQUIRED BEFORE RELEASE OF THE BOND OR LETTER OF CREDIT. AS-BUILTS SHALL BE PROVIDED AS AN OVERLAY ON THE APPROVED CONSTRUCTION DRAWINGS AT THE SAME SCALE FOR COMPARISON PURPOSES. AS-BUILT SUBMITTAL SHALL FOLLOW THE SAME FORMAT OF GENERAL REVIEW AS OUTLINED IN SECTION 32 OF SOUTH BROWARD DRAINAGE DISTRICT'S CRITERIA AND PERMIT MANUAL.
8. LAKE AND CANAL AS-BUILTS SHALL BE CROSS SECTIONED SHOWING THE DESIGNED SECTION AS DASHED, AS-BUILT SECTION AS SOLID AND HAVE THE TOP OF BANK REFERENCED TO THE LAKE/CANAL MAINTENANCE EASEMENT AND PROPERTY LINES. SPACING BETWEEN EACH CROSS-SECTION SHALL BE SUCH AS TO PROVIDE ENOUGH DATA TO DETERMINE IF THE LAKE/CANAL WAS CONSTRUCTED AS DESIGNED, BUT NO GREATER THAN ONE HUNDRED (100) FEET BETWEEN CROSS-SECTIONS. UNLESS APPROVED BY DISTRICT'S ENGINEER, PLAN VIEW OF ACTUAL LOCATION OF THE TOP OF BANK AND DEEP-CUT LINE SHALL BE PROVIDED WITH CROSS-SECTIONS.
9. UPON SUCCESSFUL COMPLETION OF THE CONSTRUCTION AND ACCEPTANCE OF "AS-BUILTS", THE BOND OR LETTER OF CREDIT MAY BE RELEASED FOLLOWING PAYMENT TO THE DISTRICT FOR ALL EXPENSES AND COSTS INCURRED BY THE DISTRICT WHICH ARE REQUIRED TO BE PAID BY THE DEVELOPER.
10. THE CONTRACTOR CONSTRUCTING OR EXCAVATING LAKES OR OTHER WATER BODIES SHALL EXERCISE EXTREME CAUTION TO ENSURE THAT THE BANK SLOPES AND DEEP-CUT LINES ARE CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS FOR THE DEVELOPMENT. THE CONTRACTOR OR OWNER SHALL PERIODICALLY OR AS REQUESTED BY THE DISTRICT OBTAIN A SURVEY FROM A FLORIDA REGISTERED SURVEYOR OF THE LOCATION OF THE DEEP CUT LINES PRIOR TO FORMING THE BANK SLOPES. THIS SURVEY SHALL BE TAKEN PRIOR TO THE OWNER/CONTRACTOR BEGINNING CONSTRUCTION OF THE BUILDING PAD ADJACENT TO THE WATER BODY. IN THE EVENT THE CONTRACTOR/OWNER OVERCUTS OR OVERDIGS THE WATER BODY, THE CONTRACTOR/OWNER SHALL SUBMIT TO THE DISTRICT ITS RECOMMENDED SOLUTION TO CORRECT THE OVER DIGGING. ANY SUGGESTED REMEDY OR CORRECTION MUST BE APPROVED BY THE DISTRICT BEFORE THE CONTRACTOR/OWNER COMMENCES CONSTRUCTION OF THE PROPOSED CORRECTION/REMEDY.

FIRE HYDRANTS

FIRE HYDRANTS SHALL HAVE A MINIMUM 5 1/4" VALVE OPENING AND SHALL OPEN AGAINST THE PRESSURE AND CLOSING WITH THE FLOW. HYDRANTS SHALL BE MUELLER CENTURION, MODEL NUMBER A-423 OR EQUAL. HYDRANTS SHALL MEET OR EXCEED ANSI/AWWA C502-85, C503-88 OR LATEST REVISION, AND SHALL COMPLY WITH FACTORY MUTUAL RESEARCH CORPORATION AND UNDERWRITERS LABORATORIES UL246 STANDARD.

RECORD DRAWING DATA REQUIREMENTS:

1. ALL WATER MAINS SHALL HAVE THE TOP OF PIPE'S ELEVATION SHOWN AT 100' O/C MINIMUM.
2. ALL FITTINGS AND VALVES SHALL BE LOCATED USING A PHYSICAL BASELINE AT THE TOP OF FITTING ELEVATION.
3. LOCATE ALL WATER SERVICES, SEWER SERVICES, VALVES, FIRE HYDRANTS & CLEANOUTS FROM A PHYSICAL BASELINE.
4. SHOW ALL BACTERIOLOGICAL SAMPLE POINTS AND NUMBER CONSECUTIVELY.
5. IDENTIFY ALL PIPE MATERIAL USED ON THE PROJECT SPECIFICALLY SHOWING WHERE PIPE WAS CHANGED IN MATERIAL TYPE.
6. RECORD DRAWINGS SHALL BE LOCATED AND CERIFIED BY A PLS. REGISTERED IN THE STATE OF FLORIDA.

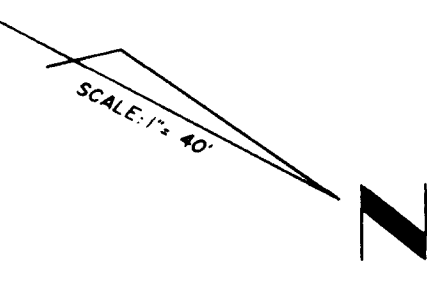
GENERAL NOTES

TOWNGATE - VILLAGE 12-B
TOWNGATE LIMITED PARTNERSHIP
MINTO COMMUNITIES (PEMBROKE), INC.

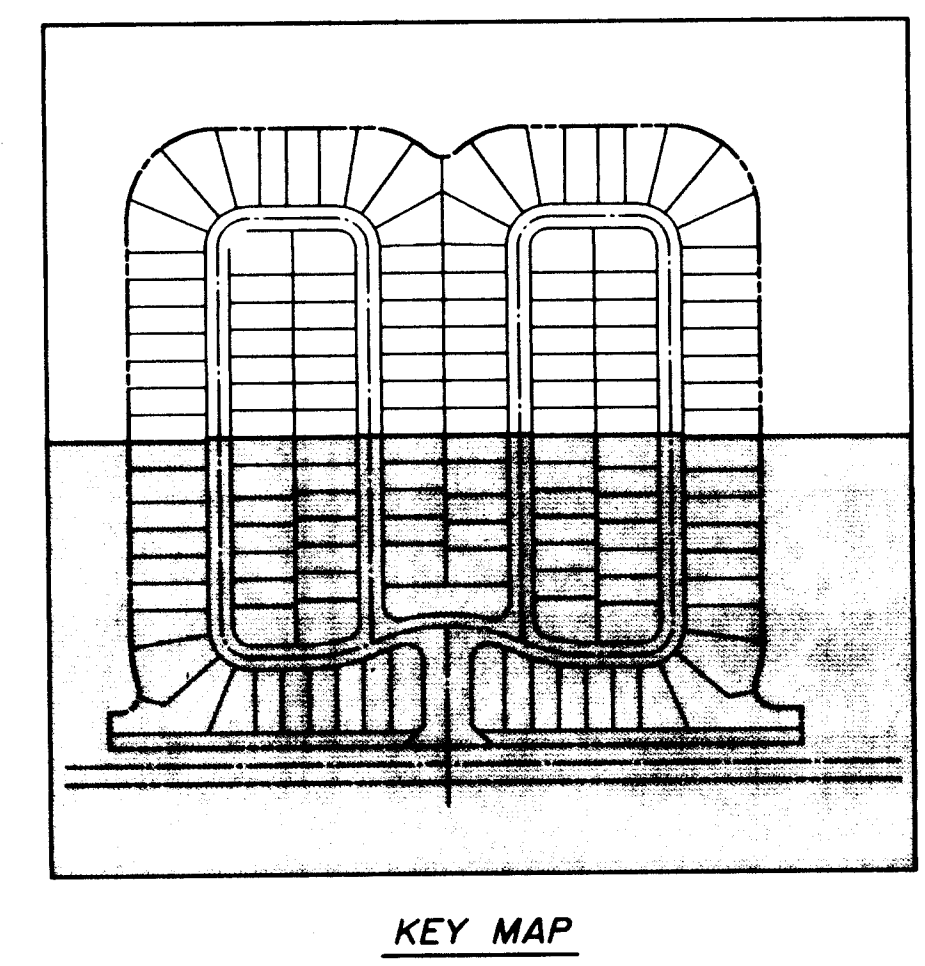
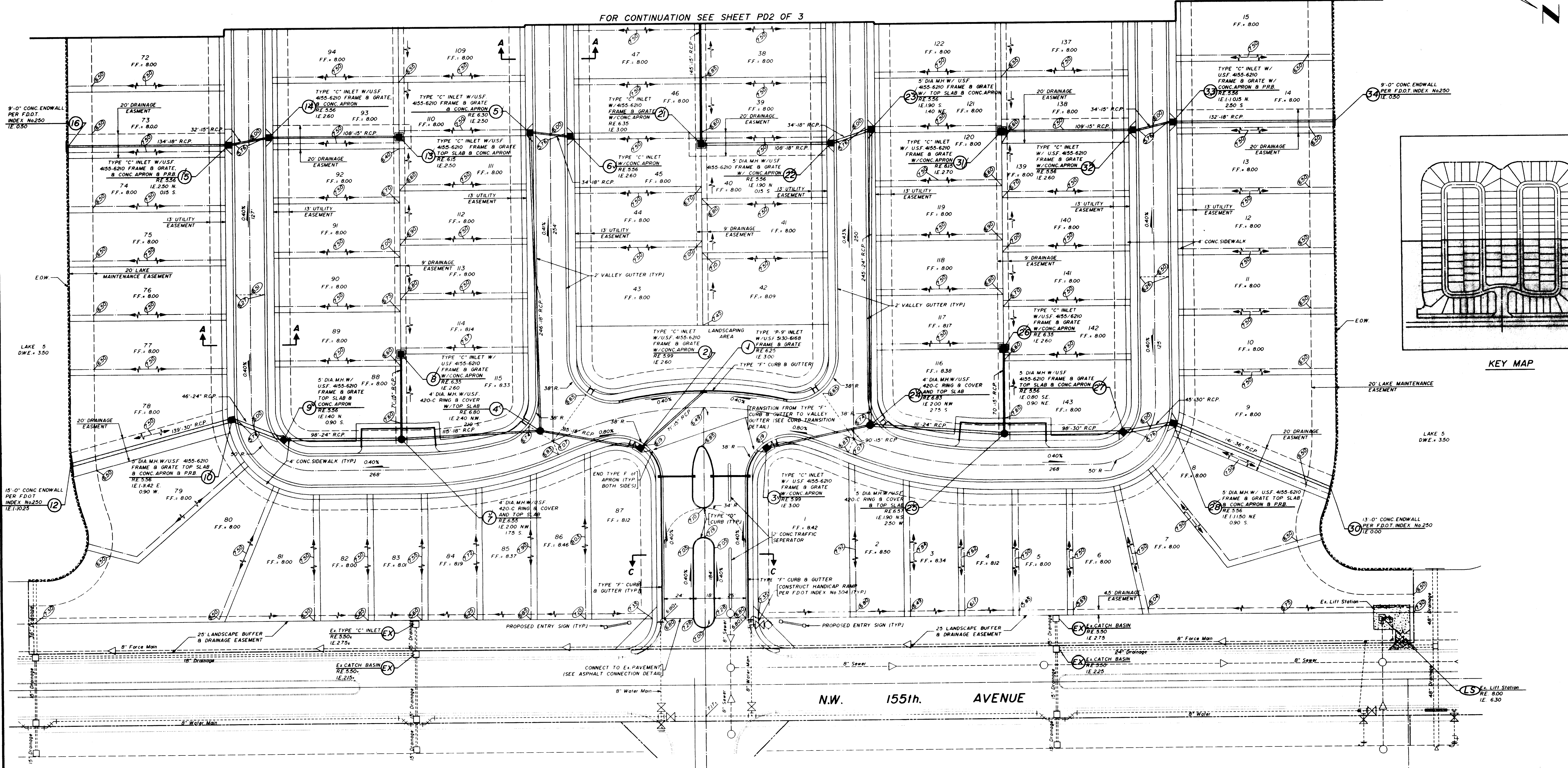
WINNINGHAM & FRADLEY, INC.
ENGINEERS - PLANNERS - SURVEYORS

DESIGNED: WBF DATE: 4/96
DRAWN: WBF DATE: 4/96
PROJECT NUMBER: 94512
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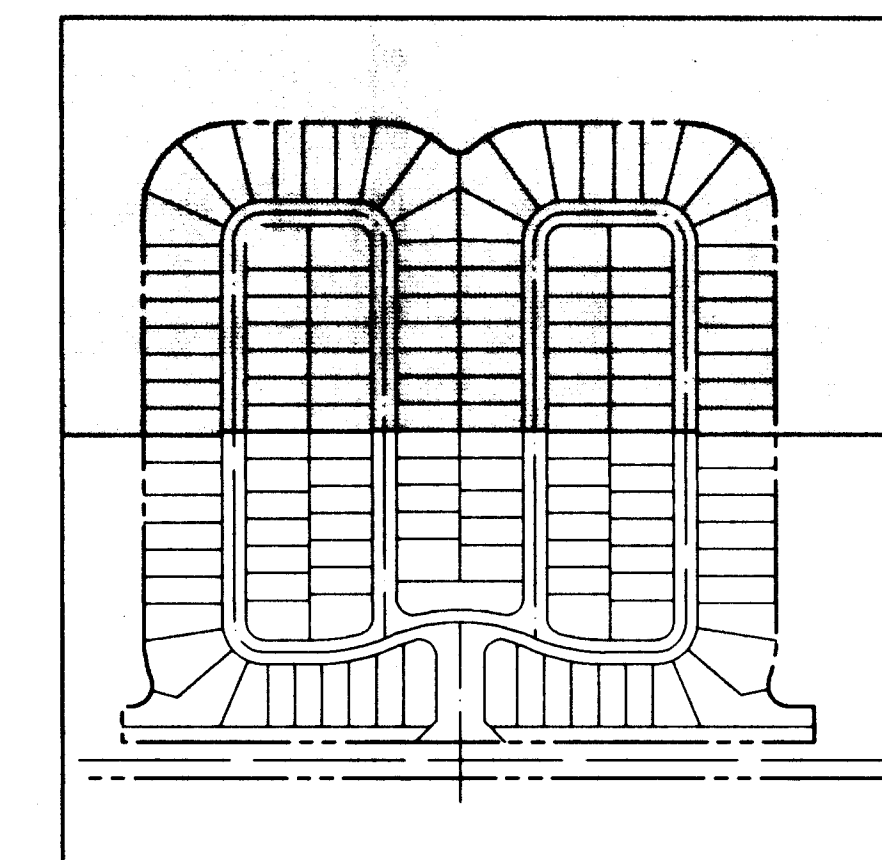
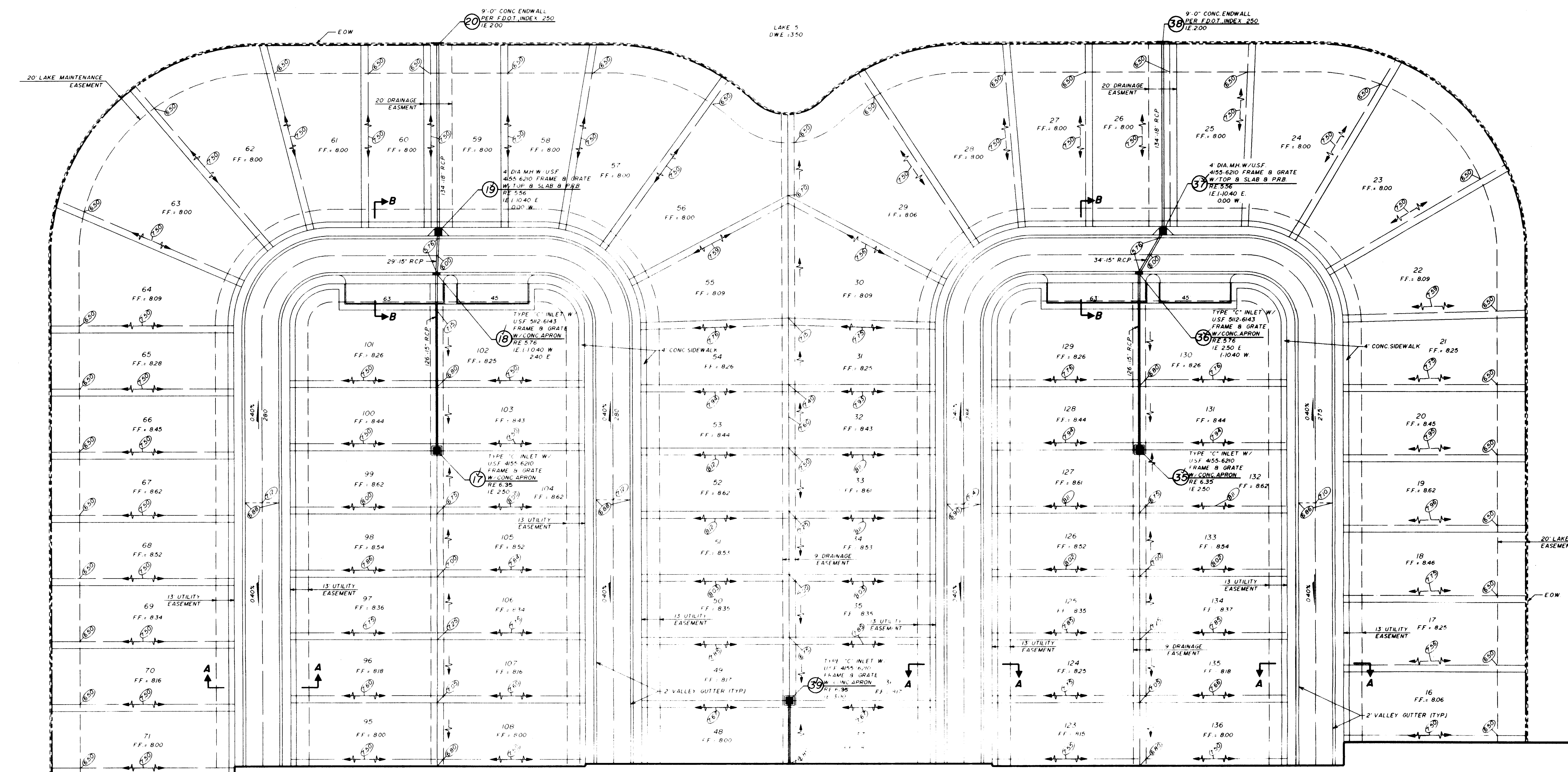


FOR CONTINUATION SEE SHEET PD2 OF 3



PAVING & DRAINAGE SYSTEM PLAN			
TOWNGATE - VILLAGE 12B			
TOWNGATE LIMITED PARTNERSHIP			
MINTO COMMUNITIES, (PEMBROKE)			
WINNINGHAM & FRADLEY, INC.		ENGINEERS - PLANNERS - SURVEYORS	
DESIGNED: DDD	DATE: 1/96	APPROVED:	
DRAWN: H.A.K.	DATE: 1/96	PROJECT NUMBER 94512	
CHECKED: DATE:	DATE:	SHEET PD1 OF 3	

4. REVISE PER PP ENGINEERING DEPT.	5/31/96
3. REVISE DRAINAGE PER BASEMAP CHANGE	5/23/96
2. REVISE DRAINAGE PER ENGINEER	5/6/96
1. REVISE PER PP UTILITIES DEPT.	4/16/96
NO. REVISIONS	DATE



KEY MAP

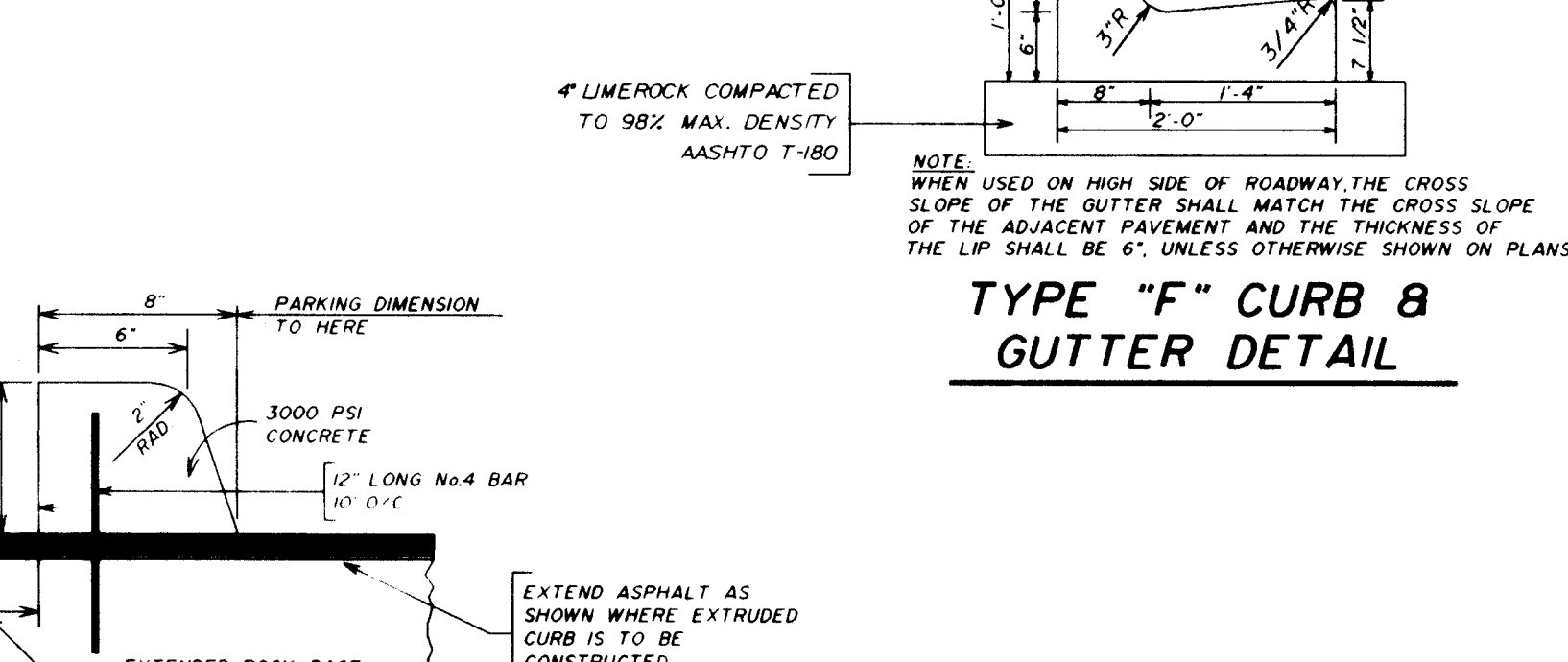
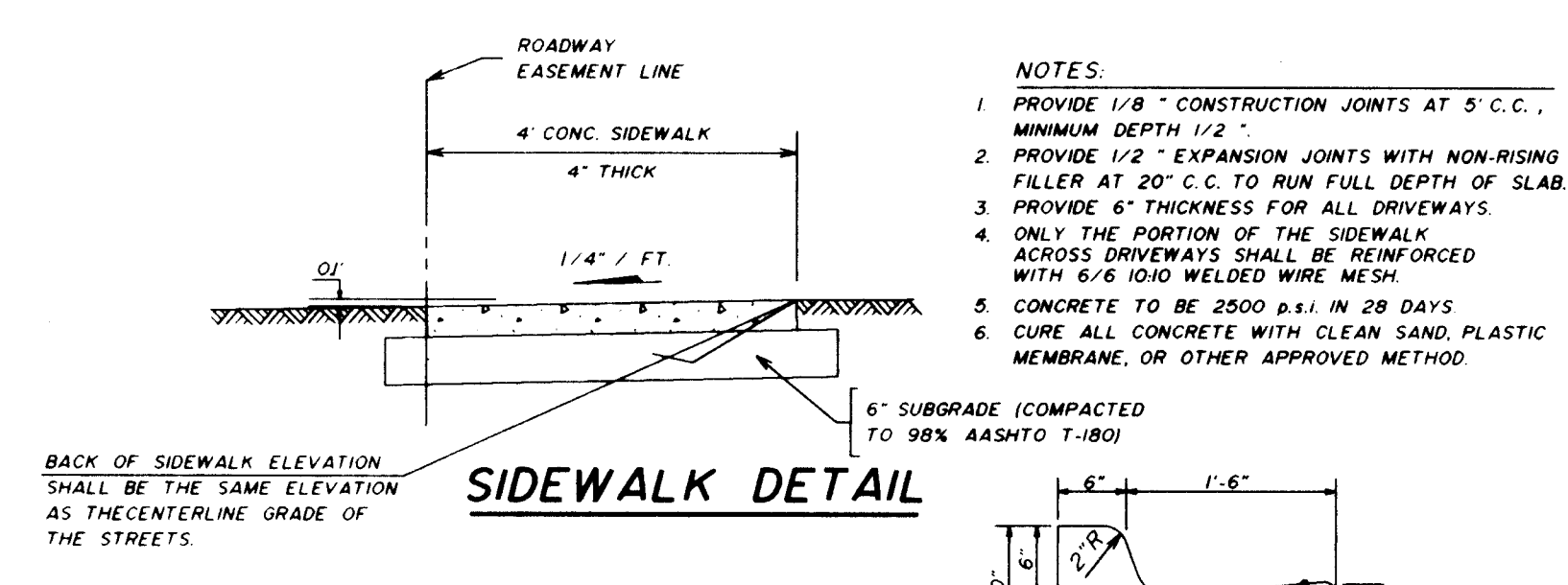
FOR CONTINUATION SEE SHEET PD 1 OF 3

PAVING & DRAINAGE SYSTEM
PLAN

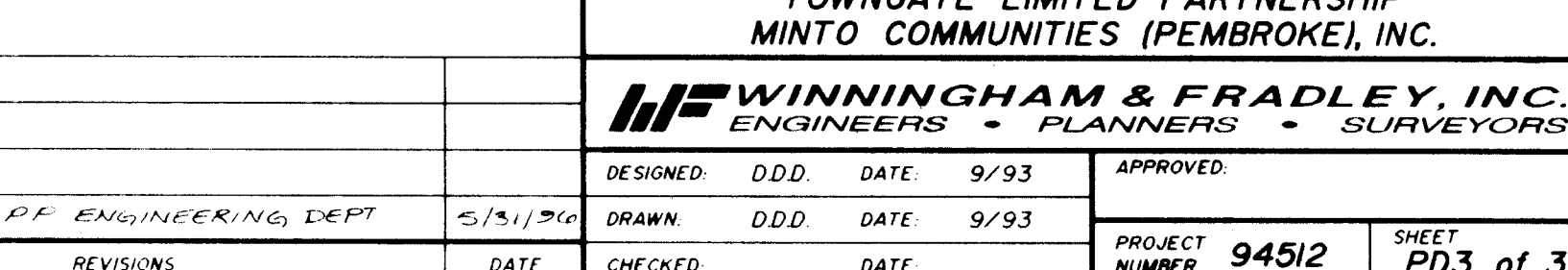
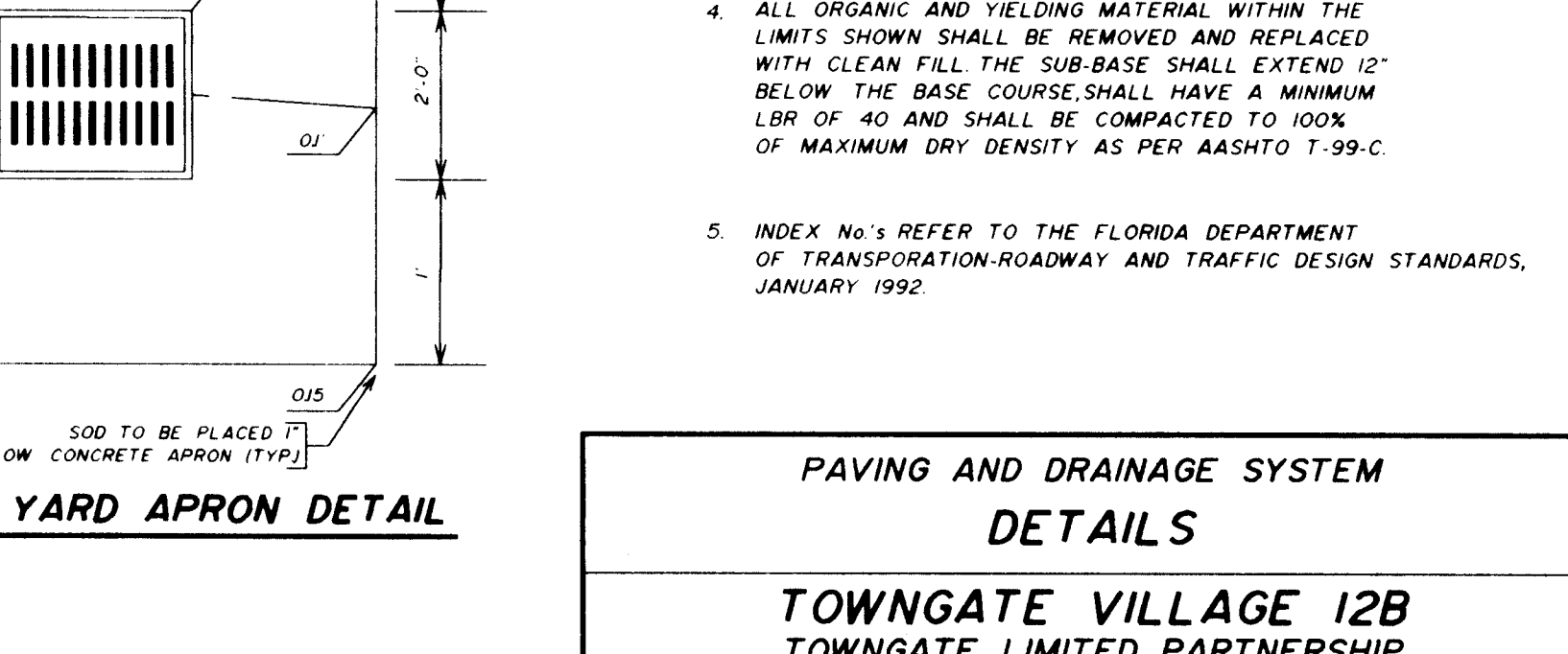
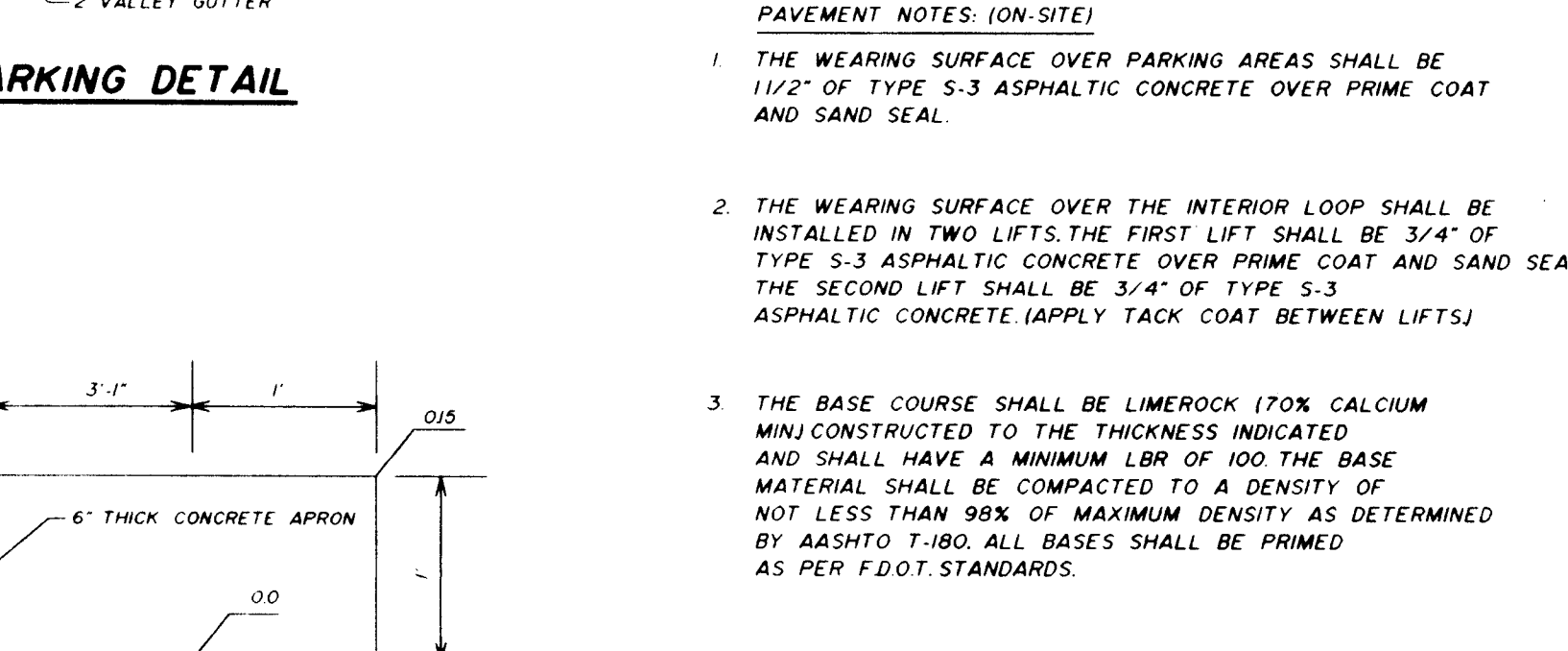
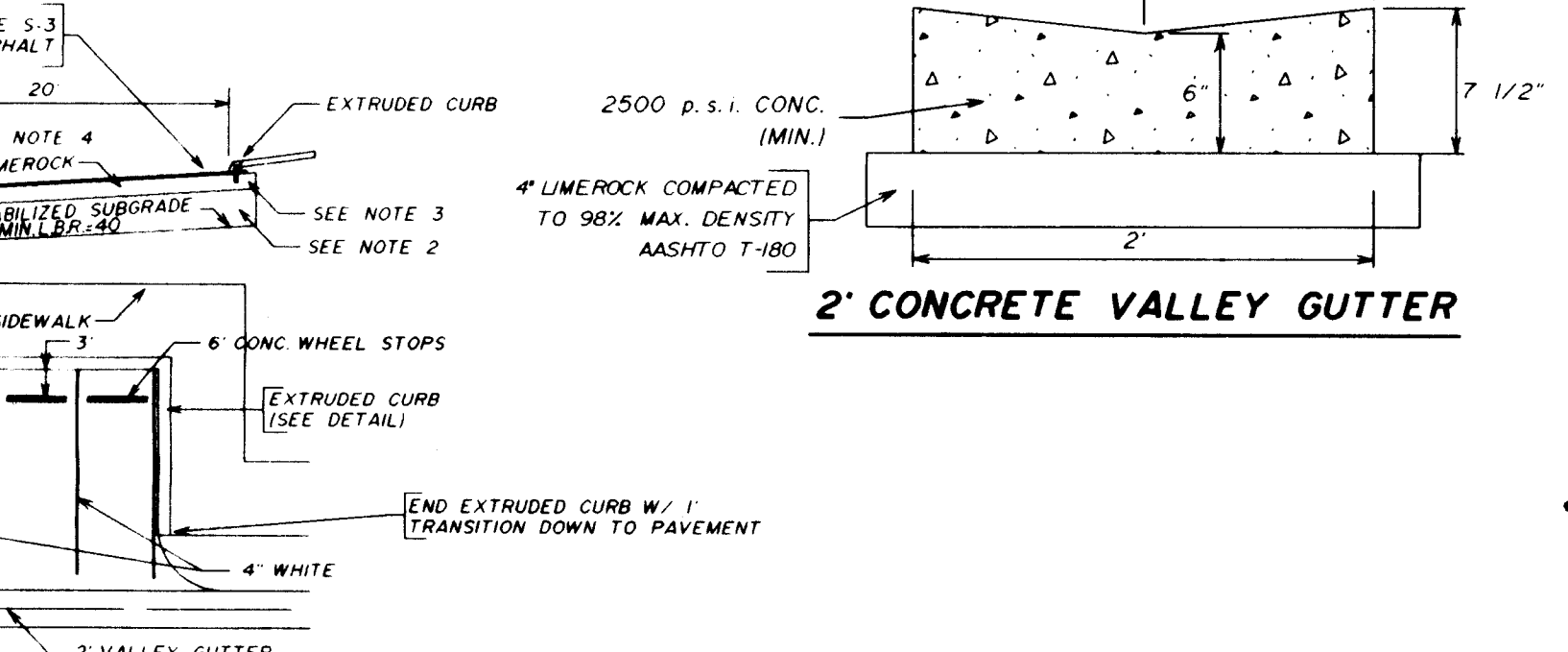
TOWNGATE - VILLAGE 12B
TOWNGATE LIMITED PARTNERSHIP
MINTO COMMUNITIES, (PEMBROKE)

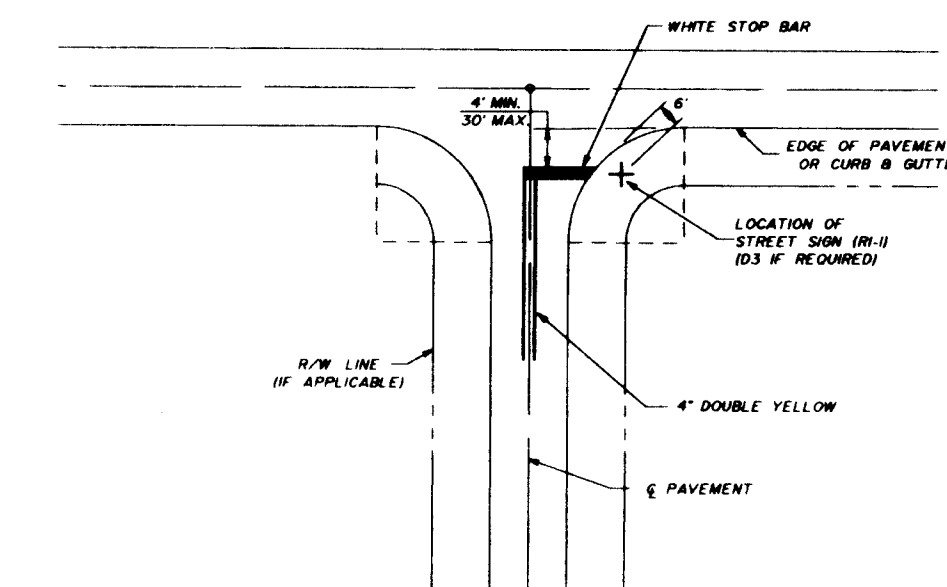
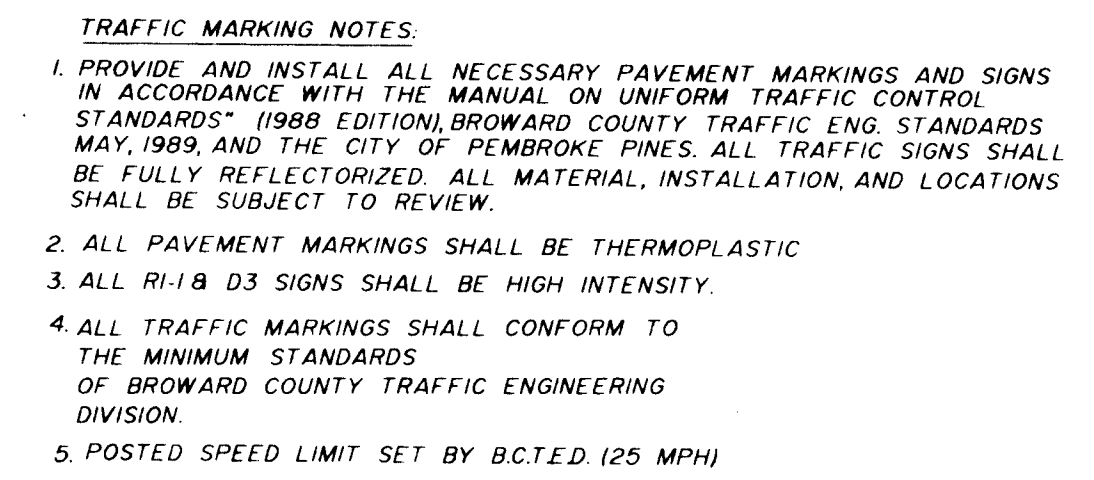
WINNINGHAM & FRADLEY, INC.
ENGINEERS • PLANNERS • SURVEYORS

NO.	REVISIONS	DATE	CHECKED	DATE	DESIGNED	DATE	APPROVED	PROJECT NUMBER	SHEET
2	REVISE DRAINAGE PER BASEMAP CHANGE	5/23/96			DOD	1/96		94512	PD2 OF 3
1	REVISE PER PP UTILITIES DEPT.	4/16/96			HAK	1/96			

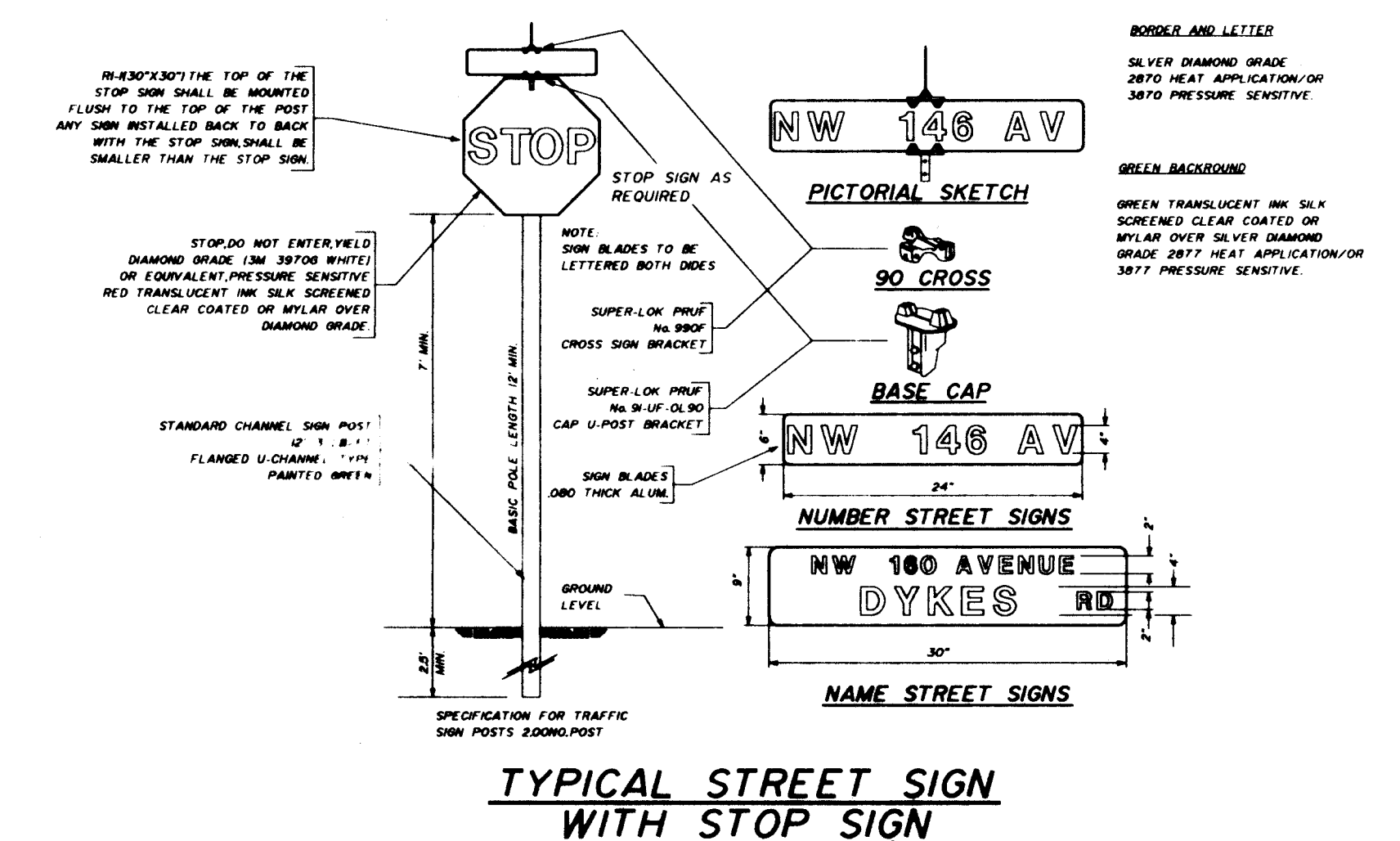


POLLUTION RETARDAN





INTERSECTION DETAIL



				TRAFFIC MARKINGS PLAN			
				TOWNGATE - VILAGES 12B TOWNGATE LIMITED PARTNERSHIP MINTO COMMUNITIES (PEMBROKE), INC.			
				 WINNINGHAM & FRADLEY, INC. ENGINEERS • PLANNERS • SURVEYORS			
2	REVISE BASEMAP PER CLIENT	5/24/96	DESIGNED: DDD	DATE: I-96	APPROVED:		
1	REVISE PER BCTED	5/24/96	DRAWN: HAK	DATE: I-96	PROJECT NUMBER 94512		
Nil	REVISIONS	DATE	CHECKED	DATE	SHEET 1 OF 1		