

### IRI-COUNTY CUNCKETE . PRUDUCTO

1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622 TYPE "C" CATCH BASIN ELEV. 15"R@2.60 V up18" 30" 0 These place the been reviewed only for general cornellance with City requirements. The design engineer MUST be completely tesponsible for the engineer tiplesign/technical competency and accuracy. The plans are being approved with the condition that they MUST conform to all City Ordinances, codes, slandings and requirements. In case of conflict the City Code of Codinary is the City Code of Code of Codinary is the City Code of Codinary is the City Code of Cod tedera, state, county or local agencies. **Engineering Department** - USF# 4155-6210 FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR □ Not Approved -Approved Approved as corrected 5.56 Revise and resubmiten Approved contingent on 3"CLR. 5-10-95 24"X37" ušr. WINNING AM & FRADLEY INC. NOTES GENERAL 4000 PSI @ 28 DAYS TYPE II CEMENT RECEIVED 5/2/95 INLET CONFORMS TO F.D.O APPROVED AS NOTED INDEX 232 REVISE & RESUBMIT DATE D. A.B. 11 FROM BASE TO LOW DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL INVERT. FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS. T. co. 508 95-300 TOWNAATE VILLAGE 11 CONTRACTOR: LASER ENGINEERING "C"INLET-FRAME&GRATE

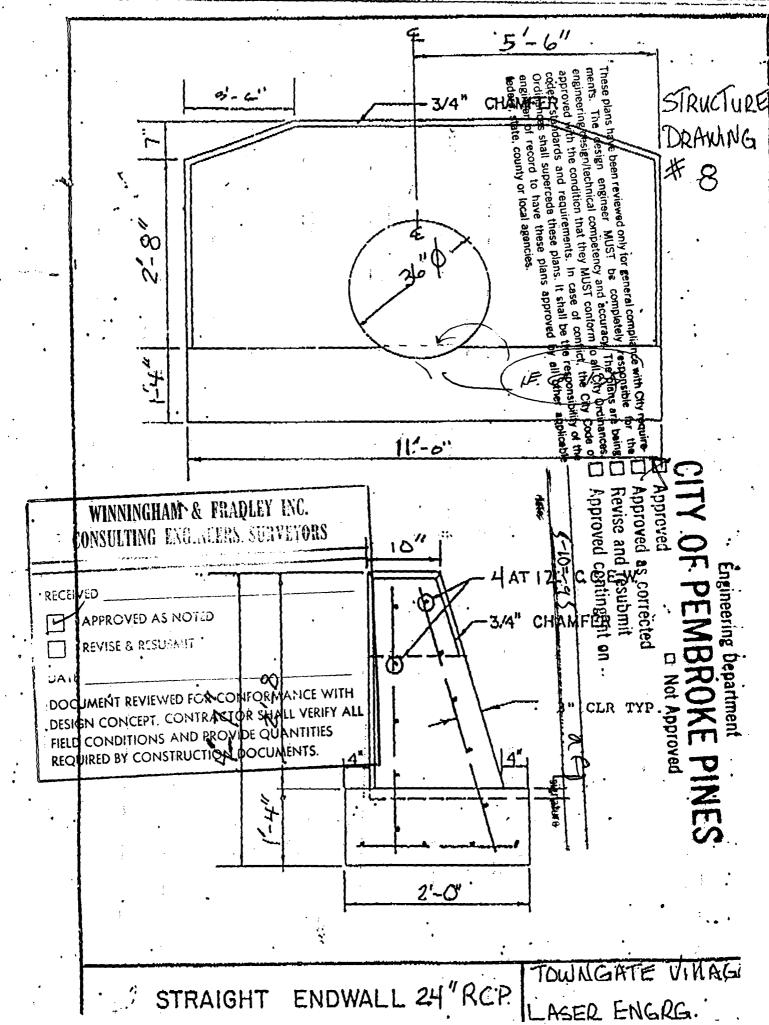
#### Y. WUNCHEIL FINDUCIO TRI-COUN I SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622 NO. ELEY. 24110 18"R@ 2.15 CUT upisli 151 RQ 2.40 -20 B 27110 PRICE Engineering Department 1:00 PEMBROKE PINES (20:00) Not Approved 8:15 Approved as horrected @ 2.40 24"0 40214 date USF#4155-6210 FRAME AND GRATE BRICKED TO 2249 ##@6"O.C. These plans have been reviewed only for general compliance with City remains a completely responsible to GRADE BY CONTRACTOR engineering/design/tedhnical competency and accuracy. The approved with the condition that they MUST conform to all City Ordin codes, standards and requirements. In case of conflict, the City C Ordinances shall supercode these plans. It shall be the responsibility engineer of record to have these plans approved by all other applements of the state of th todera, state, county or local agencies. 51-011 O.C.E.W -0/E NOTES. GENERAL CONSULTING ENGINEERS SURVEYORS 4000 PSI @ 28 DAYS TYPE II CEMENT APPROVED AS NOTED EVISE & RESURMIT PROM BASE T #46070.01 EDWIE DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS. T. CO. JOB CONTRACTOR: LASER ENGINEERING 'N' I.M. STORM INLET

#### TRI-COUNTY · CONCRETE · PRUDUCTO 1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622 NO. TYPE "C" CATCH BASIN ELEY. PRICE 4918" have been aviewed only for general compliance with City require design engineer MUST be completely responsible for the accession technical competency and according. The plans are being half the condition that they MUST conform to all City Ordinances, Standards and requirements. In case of conflict, the City Code of Ordinances shall supercede these plans it shall be the responsibility of the erigineer of record to have these plans approved by all other applicable tedera, state, county or local agencies. - USF# 4155-6210 FRAME & GRATE Engineering Department MADE FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR ΕL Not Approved Approved as corrected Revise and resubmit Approved contingent on 3"CLR. 24"X37" date NOTES GENERAL 4000 PSI @ 20 DAYS TYPE II CEMENT INLET CONFORMS TO F.D.O. INDEX 232 APPROVED AS NOTED REVISE & RESUBMIT FROM BASE TO LOW DATE D.A.B. INVERT. DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL T. Co. JOB 95-300 FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS. TOWNATE VILLAGE 11 LASER ENGINEERING "C"INLET-FRAME&GRATE

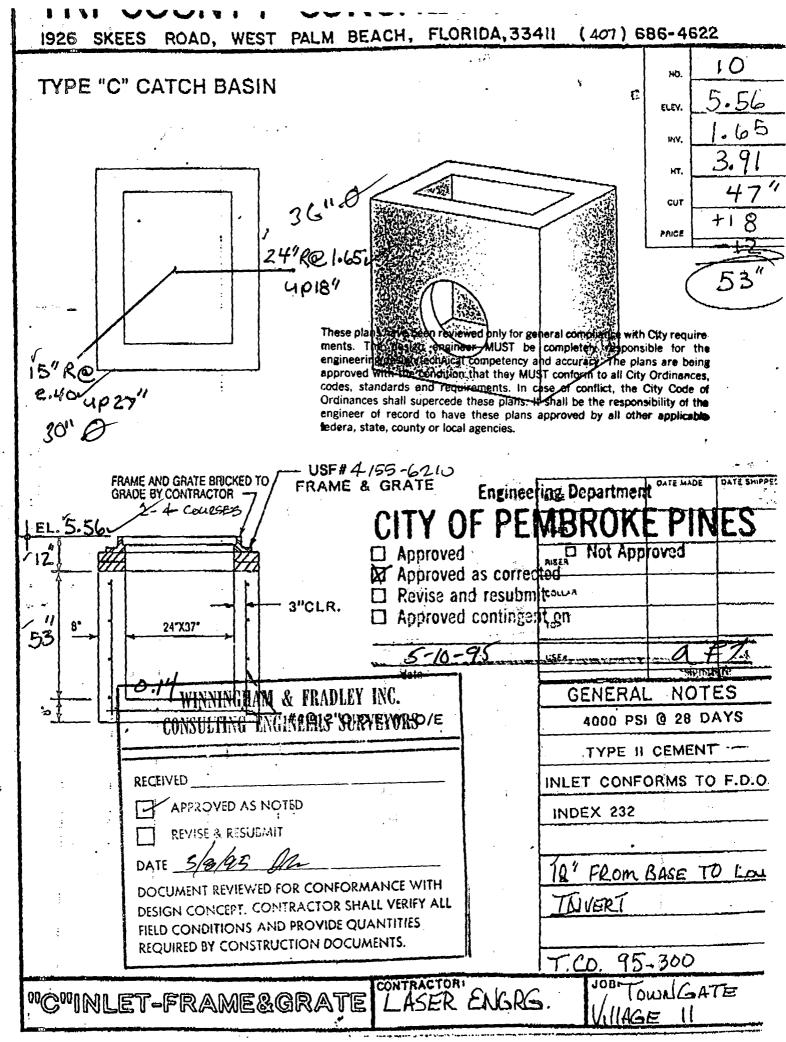
#### RI-COUNTY · CUNCHE IE FINDUO (407) 686-4622 ROAD, WEST PALM BEACH, FLORIDA, 33411 SKEES ĸО. 36" B ELSY. INV. 24/R@ 1.50 4P18" CUT 20 PRICE 15 Re 2.25 2:45 Approved as corrected singent or 84R@ 200 up24/ FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR A GROUPS EST USF#4155-6210 EASE AIS 11406"O.C.E.W. NGHAMO 62 YRADIE WING/E CONSULTING ENGINEERS SURVEYORS NOTES GENERAL 59 1000 PSI @ 28 DAYS II CEMENT TYP 0.0 APPROVED AS NOTED REVISE & RESUBMIT PROM: DOCUMENT REVIEWED FOR CONFORMANC DESIGN CONCEPT. CONTRACTOR SHALL VERIEY ALL #4@12'0.C.E.W FIELD CONDITIONS AND PROVIDE QUANTIFIES REQUIRED BY CONSTRUCTION DOCUMENTS T-Co. 508 95-300 JOB: CONTRACTOR: LASER ENGINEERING TELLAI MAROTZE OF INCET

#### TRI-COUNTY · CONUMETE · FRUDUCIO ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622 1926 SKEES но. ELEV. 36"~ 24"R@.(,50/ up18" HT. CUT PRICE Engineering Department CE PEMBROKE PINES Approved Approve Approved as conrected Revise and responit Approved contingent on 24"R@ 1.50 CATE MADE FRAME AND GRATE BRICKED TO - USF#4155-6210 EASE . GRADE BY CONTRACTOR aista 114@6"O.C.E.W. These plans have been reviewed only for general compliance with City requirements. The design engineer MUST be completely responsible for the engineering/design/technical competency and accuracy. The plans are being engineering/design/technical competency and accuracy. approved with the condition that they MUST conform to all City Ordinances. codes, standards and requirements. In case of conflict, the City Code of chidinances shall supercede these plans. It shall be the responsibility of the engineer of record to have these plans approved by all other applicable tedera, state, county or local agencies, - 114@/2"O.C.E.W.-O/E 41-011 NOTES GENERAL WINNINGRAM & FRADLEY INC. 4000 PSI @ 28 DAYS CONSULTING ENGINEERS SURVEYORS YPE II CEMENT RECEIVED APPROVED AS NOTED REVISE & RESUBMIT PROM RAGE TO #4f@J'O.C.E.W. DATE D. A.B. DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVID QUANTITIES T.Co. 508 95-300 REQUIRED BY CONSTRUCTION DOCUMENTS. CONTRACTOR: LASER ENGINEERING TELIMI MARATO A IV.

PALM BEACH, FLORIDA, 33411 (407) 686-4622 1926 SKEES ROAD, WEST \* PRB HO. WATER MAIN 5.56 CLEY, 8"PVC@1.81 .35 up\$ J un. CENTERLINE 164 29" t.21 167, 36"D 36"8 CUT PRICE 24/R@1.35 4P241 601 11:45 23" - USF# 4155-62/0 FRAME & GRATE FRAME AND GRATE DRICKED TO DATE SHIP DATE MADE GRADE BY CONTRACTOR GARF 2-4 courses Engineering Department CITY OF PEMBROKE □ Approved Not Approved J"CLR. Approved as corrected BO Revise and resubmit 54" ☐ Approved contingent on (-) o.6 NOTES ENERAL MERIANO.C.EM @ 28 DAYS hase plans have been reviewed only for general compliance with City required Transportation of the engineering/design/te hnical competency and a cutacy The Conspic DeME approved with the condition that they MUST companies all City Ordinances, codes, standards and requirements. In case of conflict the Gies Code of Ordinances shall supercede these plans. It shall be the responsibility of the engineer of record to have these plans approved by all other applicable approved as noted tedera, state, county or local agencies. REVESTA DESIGNAT 29"PRBFROM BASE TO LO DOCUMENT REVIEWED FOR COMPORMANCE WITH DESIGN CONCERT, COMMISSION SHALL WERRY ALL T. CO. 508 95-300 HELD CONCERNOWS MINDERCOMDERQUANTITIES REQUIRED BY COMSTRUCTION DOCUMENTS CONTRACTOR: TOWNATE VILLAGE 11 INLET PRECAST MANHOLE LASER ENTINEERING



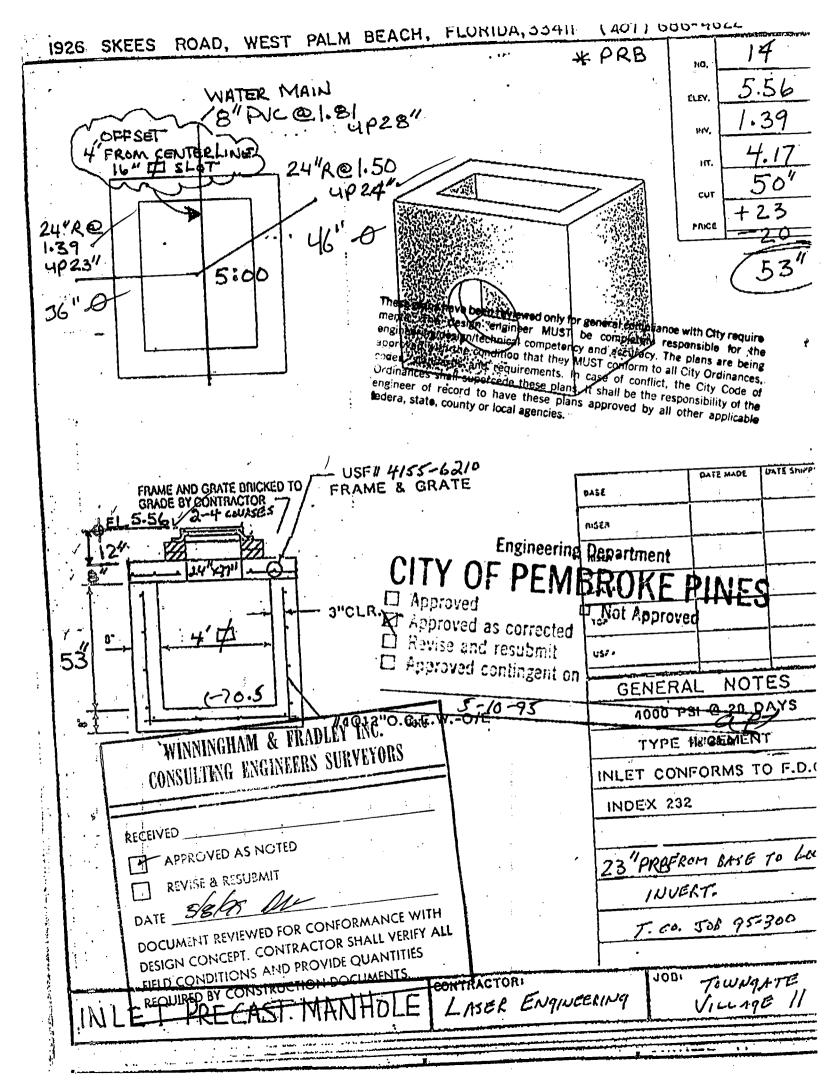
コストしく	JUNIY CUNC		(407) 68	
1926 SKEES	ROAD, WEST PALM BEAC	, 18"		NO. 9
TYPE "C" C	ATCH BASIN		• .	ELEY. 5.56
	30"-	<u>a</u>		INV. 2.60
· · · · · · · · · · · · · · · · · · ·				нт. 2.96
	15"/Re 2.60			cur +1.50
	up18"			PRICE 4.46
	11.00			541
	These plans the ments. The de	Figure (MIST be comp	compliance with	-12 Stul
	Codes stand of	coppingn that they wast	uracy. The plans are	or the 12
	Ordinances shall engineer of reso	Applicant that they MUST controlled the Must be the Mu	conflict the City Cope the esponsibility	ances, ode of
	State, cou	nty or local agencies.	d by all other appl	icable .
			Engineering	Department -
	USF# 4/5	5-6210 CITY (	E PEME	BROKEPH
FRAME GRADE	AND GRATE BRICKED TO FRAME & BY CONTRACTOR 7	GRATE Approve	DASE	Not Approved
EL. 5.56		Approve	laga corrected	
7		☐ Approve	l'contingent or	1
	3"CLR.	5-10-95	COLLER	A EJ
8°	24°X37°	date	407	
	TO THE STATE OF TH	ic	USF *	L NOTES
	WINNINGHAM & FRADLEY IN CONSULTING ENGINEERS SURV	HORS OVE	GENERA 4000 P	SI @ 28 DAYS
	CONSULTING ENGINEERICS		<u> </u>	II CEMENT
A F	5/2/55		INLET CON	FORMS TO F.D.O
	RECEIVED		INDEX 232	•
	REVISE & RESURMIT			- /4
	DATE D. A. B. 5/3/53  DOCUMENT REVIEWED FOR CONFORM  DOCUMENT			M BASE TO LOW
	DATE  DOCUMENT REVIEWED FOR CONFORM  DESIGN CONCEPT. CONTRACTOR SH  DESIGN CONCEPT. AND PROVIDE Q  FIELD CONDITIONS AND PROVIDE Q  FIELD CONSTRUCTION DOCUMENTS OF THE PROPERTY OF THE PROPERTY CONSTRUCTION DOCUMENTS OF THE PROPERTY OF THE PROPER	UANTITIES	INVE	508 95-300
	DESIGN CONCERNIA AND PROVIDE QUIELD CONDITIONS AND PROVIDE QUIELD BY CONSTRUCTION DOCK	DWELLS.	1.00.	700 / 00
000000000	T-FRAME&GRATE	CONTRACTOR:	ING JOBI	TOWNGATE VILLAGE !
	'I -L WYMEGGIVY I E	L/IJCK CIT/ISS		VILLITY II

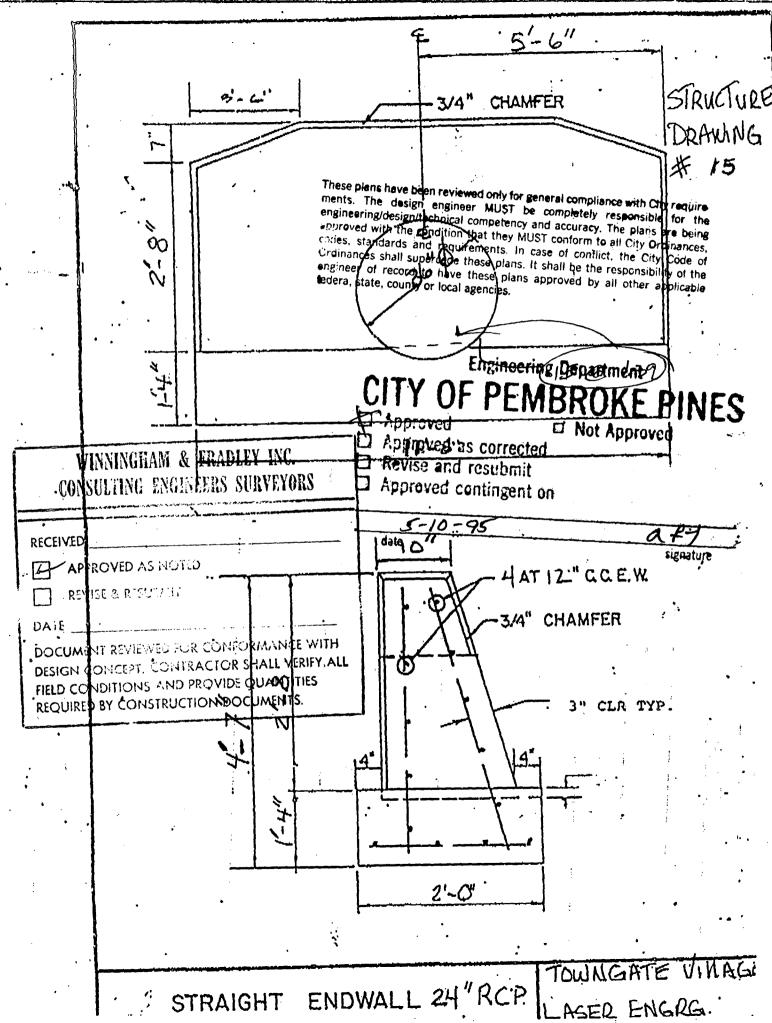


	<1-CU	UNIT '	ALM BEACH,	FLORIDA, 334II	(407) 686	-4622
926	SKEES	ROAD, WEST P	ALIII DU		1/	NO. 11
		er.				117. 4.86 117. 4.86
F 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			36"	0		+ 18 5 mm - 20 sts
			241/R@	1,50 En	gineerine Depa	rtment OKE PINES
				Z sporoved as	corrected	t Approved
		36"0 2	1/R@1.50	Approved co	ntingent on	af)
		FRAME AND GRATE BRICK GRADE BY CONTRACTOR	ED TO / USF/	date 4155-6210	eASE	ICE with City require
	1 2	É'6.36	- 114 cm	the Helphanian property of the condition that the c	their MUST conform to their MUST conform to ents. In case of confli	all City Ordinances,
		1 4'-	1ec	preer of record to local age pera, state, county or local age	ndies.	
	56	8		NEV INC.	GENERA	1 @ 28 DAYS
	× 7	4			1.472 11 3	
A AND TO SERVICE THE PARTY OF T	114	e/z'o.c.E W. RE	· 🗸	5/3/55 NANCE WITH	a Lou	oron RNE TO
A CONTRACTOR OF THE PARTY OF TH		DATE	D. H. D.	CONFORMALL VERIFY ALL	T-Co.	508 95-300
	4'	FIELD	N CONCEPT. CONTA N CONDITIONS AND S CONDITIONS AND S JIRED BY CONSTRUC	CONTRACTOR: LASER ENGIN	JOB:	TOWNAME 11

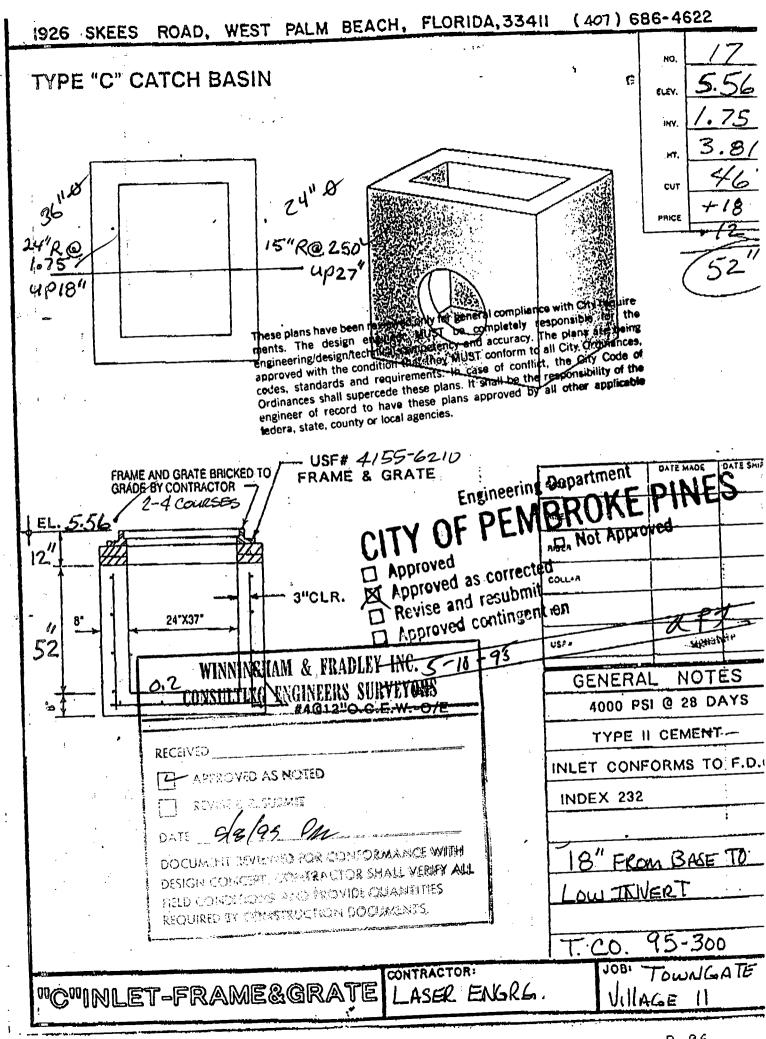
#### TRI-COUNTY CUIVELL (407) 686-4622 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 up18 Engineering Department Not Approved 1244RO1.50 Approved as corrected ☐ Revise and resubmit USF#4155E16Approved contingent on FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR 5-10-11406"O.C.E.W.date These plans have been reviewed only for general compliance with City These plans have been reviewed Only for general complements with City requirements. The design engineer MUST be completely responsible for the engineering/design/technical competency and accuracy. The plans are being engineering/design/technical competency and accuracy. The plans are being engineering/design/technical competency and accuracy. codes, standards and requirements. In case of conflict, the City Code of Ordinances shall supercede thesecolans. It shall be the responsibility of the engineer of record to have these plans approved by all other applicable Metter & state county or local agencies. 4'1-0" 811 WINNINGHAM & FRADLEY INC. NOTES" GENERAL O. CONSULTING ENTEREERS. SURVEYORS 4000 PSI @ 28 DAYS TYPE II CEMENT APPROVED AS NOTED REVISE & RESUMMIT #4@Z'O.C.E.WE DOCUMENT REVIEWED FOR CONFORM DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS. CONTRACTOR: LASER ENGINEERING 4'0" I.D.-STORM INLET

. #1 :####	Y · CUNCRE IE					
1926 SKEES ROAD, W	VEST PALM BEACH, FLORIDA	,334	11 (4	07)68	16-4622	MAINTACACCAMINA
TYPE "C" CATCH BA	SIN				но/	3
					VELEY. 5	56
	in .				INV.	50
	7	7			ит. 4	.06
	36				cur	49"
NY 2 8					PRICE -	12
	7.1/001				١	55"
	24/18@1.5 se higher have been revi	ewed only	for genera			
	COndition To Condition	n that AL	ricy and a	AT VISITED	TOP TOP	,the
24" A @ 1.50	an universal to the condition of the con	irements these pla	In case of	thorm to all	City Ordinane	es,
24" R 1.50 - up 18"	engineer of record to have dedera, state, county or local	these p	ans appro	ved by all	ponsibility of to	he Ne
	•					
FRAME AND GRATE BRICK	USF# 4155-6210	,			DATE MADE	DATE SHIPPED
GRADE BY CONTRACTOR 2-4 COURSES	s7/ FRAME a divite	nginee	ing Der	ariment		,
EL. 556	// CITY OF	PEI	<b>MBR</b>	OKF	PINI	<del>-e</del>
	Approved as		NISAM A	ot Appr	ved	-0
	1 14 31101 B 4- 4404195 3110 (6	SHIPmit	i			
8° 24"X37"	Approved con	tingent	on			
	THE STATE OF THE INC.	3	V5-	A	£7	
1	YTNYINGHAM & FRADE <b>ET</b> INC. <del>ISHITIN</del> G ÆNGINGEBSESURVEYORS	1	<u> </u>	NERA	_ signature	
	IIIIIIIII AG PEN OFOREM -O/E	=	<u> </u>		CEMENT	
	5/2/95		<del></del>		ORMS TO	
	PPROVED AS NOTED	·		X 232		
RE'	VISE & RESUBMIT  104. 13 5/3/55	•				
1 pocim	IFNT REVIEWED FOR CONFORMANCE WITH		18	11 FROM	1 BASE 1	o bow
DESIGN FIELD CO	CONCEPT, CONTRACTOR SHALL VERIFY ALI DIDITIONS AND PROVIDE QUANTITIES	L		INVER.		<u>.</u>
REQUIRE	ED BY CONSTRUCTION DOCUMENTS.		1	. co. J	08 95-3	00
	CONTRACTOR:			JOBi	~	· · · · · · · · · · · · · · · · · · ·
"C"INLET-FRAM		GINCE	ring	V	TOWNGA:	11





#### MITUUUNIA. MINUNCIALI I INULUUI. (407) 686-4622 1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 TYPE "C" CATCH BASIN ELEV. The competency and accuracy. The plans are being entroy with the condition that they MUST conform to all City Ordinances. In case of conflict, the City Code of Ordinances shall supercede these plans it shall be the responsibility of the ungineer of record to have these plans approved by all other applicable USF# 4155-6210 Engineering Department OATE MADE FRAME AND GRATE BRICKED TO FRAME & GRATE GRADE BY CONTRACTOR 2-4 COURSES EL: 5.57 Not Approved M Approved as corrected. D Revise and resubmit □ Approved contingentoun 3"CLR. 24"X37" .06 GENERAL NOTES WINNINGHAM & FRADLEY LINC:-0/E CONSULTING ENGINEERS SURVEYORS 4000 PSI @ 28 DAYS TYPE II CEMENT INLET CONFORMS TO F.D.O.T RECEIVED 5/2/95 INDEX 232 APPROVED AS NOTED REVISE & RESUBMIT 11 FROM BASE TO LOW DATE DAB. DOCUMENT REVIEWED FOR CONFORMANCE WITH INVERT. DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL T. Co. 508 95-300 FIELD CONDITIONS AND PROVIDE QUANTITIES REQUIRED BY CONSTRUCTION DOCUMENTS. CONTRACTOR: TOWNATE VILLAGE 11 LASER ENGINEERING ET-FRAME&GRATE



I KI UUUIN I (407) 686-4622 1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 6.29 ELEV. CUT 40184 These plans have been review ments. The design regineer MUST be completely responsible for the engineering/design/technical competency and accuracy it plans are being approved with the condition that they MUST conform to all City Ordinances, codes, standards and requirements. In case of conflict, the City Code of Ordinances shall supercede these plans. It shall be the responsibility of the engineer of record to have these plans approved by all other applicable federa, state, county or local agencies. DATE SHIPPE CATE MADE FRAME AND GRATE BRICKED TO USF#4155-6210 #4@6"O.C.E.W. Engineering Department □ Not Approved Approved as corrected TOP Revise and resubmit under Continuent on WINNING A TRADLEY INC. 5-10-10 CONSULTANGE ENGINEERS SURVEYORS TYPE II CEMENT RECEIVED APPROVED AS NOTED #4@12'O.C.E.W. REVISE & RESUBMIT DOCUMENT REVIEWED FOR CONFORMANCE WITH DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES Co. 508 95-300 REQUIRED BY CONSTRUCTION DOCUMENTS. TOWNGATE / LASER ENGINEERING 'o" i.d.-storm inlet

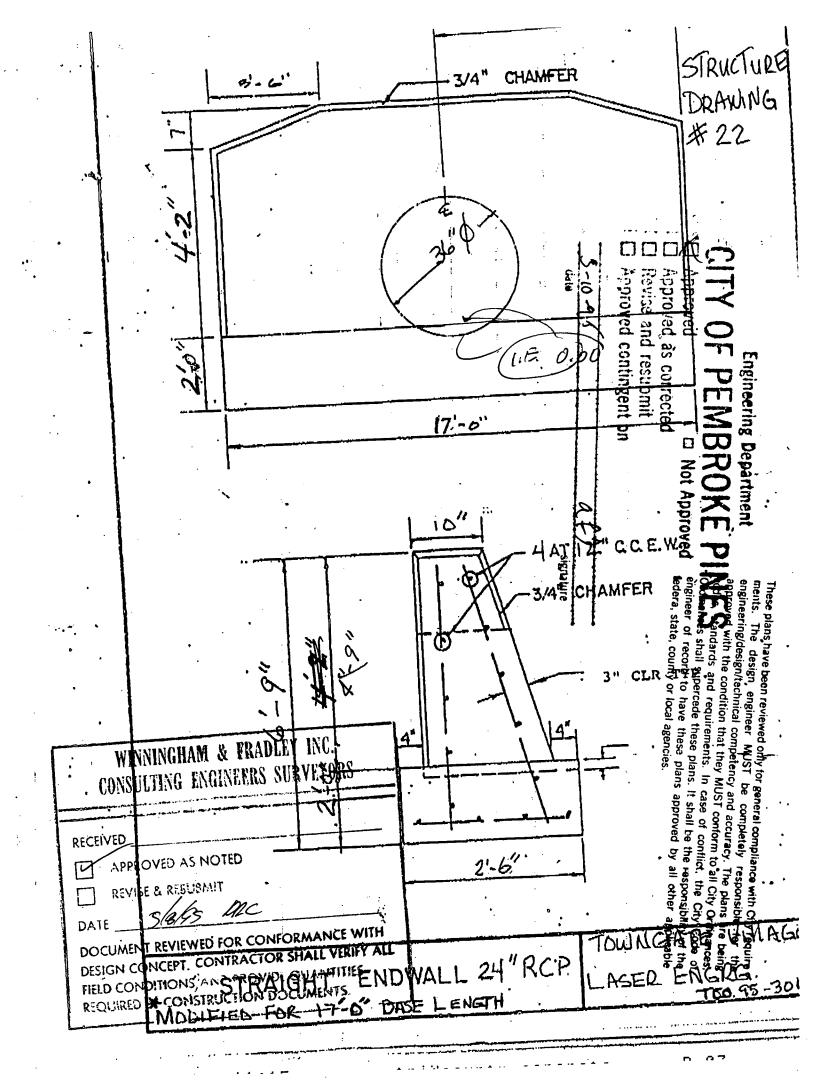
**イドしひひ**i PALM BEACH, FLORIDA, 33411 (407) 686-4622 1926 SKEES ROAD, WEST 19 NO. TYPE "C" CATCH BASIN C 5,56 ELEV. 1.50 INV. 4.06 11 D CUT 36 241Rel.5 up 18" 55 These plays been reviewed only for general compliance with City requirements. The design engineer MUST be completely responsible for the engineering/design/technical competency and accuracy. The plans are being approved with the condition that they MUST conform to all City Ordinances, codes, standards and requirements. In case of conflict, the City Code of Ordinances shall supercede these plans. It shall be the responsibility of the engineer of record to have these plans approved by all other applicable tedera, state, county or local agencies. FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR -7 FRAME & GRATE DAYS SHIPP 2-4 causes Engineering Départment CITY OF PEMBROKE ☐ Approved DuNot Approved 3"CLR. Approved as corrected TOP 24"X37" 55 ☐ Revise and resubmit pproved contingent ohuses NOTES 10-95 GENERAL 4000 PSI - @ ZONDAYS TYPE II CEMENT RECEIVED INLET CONFORMS TO F.D.( APPROVED AS NOTED REVISE & RESUDMIT INDEX 232 DOCUMENT REVIEWED FOR CONFORMANCE WITH 8" FROM BASE TO DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES LOW TNVERT REQUIRED BY CONSTRUCTION DOCUMENTS. T. Co CONTRACTOR TOWNGATE LASER ENGRG "C"INLET-FRAME&GRATE

FLAT OOUA 1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 (407) 686-4622 20 NO. 5.56 36"D 24"RO1.50 ELEV. 150 1,06 up18" CUT nymeering Department Approved as correc O Revise and discount Approved contingent on FRAME AND GRATE BRICKED TO USF#4155-6210 Signature GRADE BY CONTRACTOR 2-4 COURSES EASE These plans have been reviewed only for general compliance with City require These pidns lieve been reviewed only to senteral completely asponsible forments. The design engineer MUSTER and accuracy the plane are engineering/design/technical competency and accuracy. The plans are 11406"O.C.E.W. engineering/design/rechnical comparency and accuracy. The plans are bound approved with the condition that they MUST conform to all City Ordinances, approved with the condition that they MUST conform to all City Ordinances, approved with the condition that City Code of conflict, the City Code of conflict, the City Code of conflict, the City Code of the codes, standards and requirements. It shall be the responsibility of the codes, standards and requirements. codes, standards and requirements—in case or conjuct, the city used of the Ordinances shall supercede these plans. It shall be the responsibility of the 24"427" Ordinances snan supercede these plans, it snan be the responsibility of the engineer of record to have these plans approved by all other applicable WINNEYGHAM & FRADIFYMNO/E 81-011 811 <sup>:</sup> CONSTITUTE ENGINEERS SURVEYORS GENERAL NOTES 4000 PSI @ 28 DAYS TYPE II CEMENT APPROVED AS NOTED REVISE & RESURMIT DOCUMENT REVIEWED FOR CONFORMANCE WHITH PROM RAVE TO #4@Z'O.C.E.W. DESIGN CONCEPT. CONTRACTOR SHAVE VERILY DESIGN CONCEPT. CONTRACTOR SHAUL VERIFF ALL A
FILTIES LOW
FIELD CONDITIONS AND PROVIDE QUANTITIES LOW
FIELD CONDITIONS AND PROVIDE QUANTE INVERT REQUIRED BY CONSTRUCTION DOCUMENTS. T. CO. JOB 95-300 CONTRACTOR: TOWNAME / LASER ENGINEERING '~" I.D.-STORM\_INLET

I ITII UUUIAI (407) 686-4622 1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 33411 \* 361×151 P.R.B. ALMINUM PLATE, BATFLE SCHEDULE NO. נענץ IKY. \*24"R@0.00V up 23" ments. The design and property of the company of th ments. The design angineer must be competency and accuracy the plans are being engineering/design recommends that they MUST configuration that they must be considered the city Code of the condition that they must be considered and configuration that they must be city code of the city code of th standards and requirements. In case of conflict, the City Code of standards and requirements. It shall be the responsibility of the Should be county or local aconcine USEGRAFIST STORM BRICKED TO GRADE BY CONTRACTOR RING & COVER Engineering Department EL. S.95 #4@b"o.c.E.W. COLUR | Not Approved 2411 ☐ Approved Approved as corrected Revise and res 51-011 DWAGHAM SULTING ENGINEER @ 28 DAYS TYPE II CEMENT 2.0 APPROVED AS NOTED RECEIVED 5 REVISE & RESUBMIT DOCUMENT REVIEWED FOR CONFORMS 114@ JO.C.E.W DOCUMENT REVIEWED FUR CONTRACTOR SHALL VERH ASG DESIGN CONCEPT CONTRACTOR SHALL VERIFY

OUT ON THE CONDITIONS AND PROVIDE QUANTIFIES

FIELD CONDITIONS ON CONCEPT OF THE CONDITIONS OF THE CONDITIONS OF THE CONTRACTOR OF THE MELD CONDITIONS AND PROVIDE QUANTIFE DOCUMENTS.
REQUIRED BY CONSTRUCTION DOCUMENTS. TOWNDATE CONTRACTOR: ENGINTERING VILLAGE / LASER 5'-0"1.D.-STORM MANHOUE

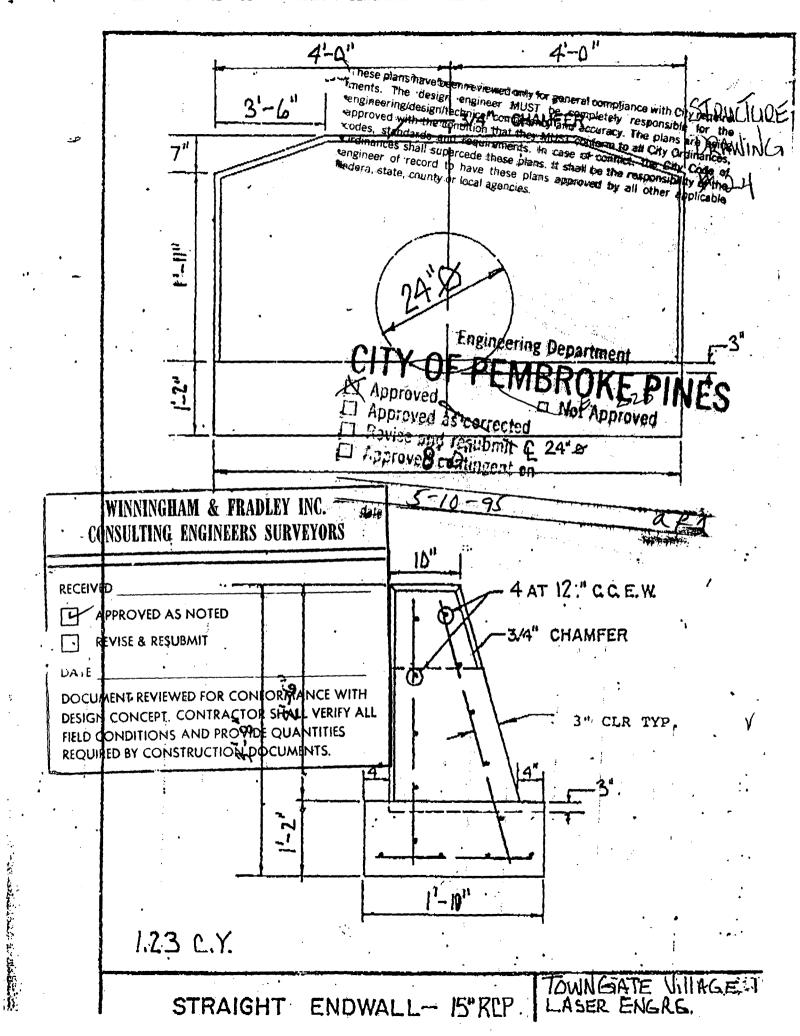


ID: TRI-COUNTY CONCRETE 1926 SKEES ROAD, WEST PALM BEACH, FLORIDA, 334N (*A*07) 686-4622 NOTE: WIII. Required TYPE "C" CATCH BASIN ÉLEY. CUT 15"R@300 PRICE 4918" ments. The design engineer MUST be completely responsible for the engineer with the completely responsible for the engineer with the incompletely and accurate. The plans are being approved with the modifier that they MUST condition to all city Ordinances, codes, standards and requirements. In case of conflict, the City Code of Ordinances shall supercede these plans. It shall be the responsibility of the engineer of record to have these plans approved by all other applicables. engineer of record to have these plans approved by all other applicable federa, state, county or local agencies. USF# 4155-6210 FRAME AND GRATE BRICKED TO FRAME & GRATE GRADE BY CONTRACTOR 2-4 CHASES DATE SHIPPED DATE MADE Engineering Department EL. 6,25 CITY OF PEMBI ☐ Approved My Approved as corrected ☐ Revise and resubmit 24"X37" Approved contingent on USF WIANNGHAM & FRADLEY INC.5-10-9 CONSULTING LACINGERS SWRANGERS 4000 PSI @ 28 DAYS TYPE II CEMENT RECEIVED INLET CONFORMS TO F.D.O.7 APPROVED AS NOTED **INDEX, 535** REVISE & RESUBMIT DOCUMENT REVIEWED FOR CONFORMANCE WITH DATE FROM BASE TO GOW DESIGN CONCEPT. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND PROVIDE QUANTITIES INVERT. REQUIRED BY CONSTRUCTION DOCUMENTS.

CONTRACTOR

JOBI

MAMMAN ET EDAMERODATE



## Category:

Paving & Drainage

# Doc Type:

Plans & As-builts

## TOWNGATE-VILLAGE 11

CITY OF PEMBROKE PINES, BROWARD COUNTY, FLORIDA

TOWNGATE LIMITED PARTNERSHIP

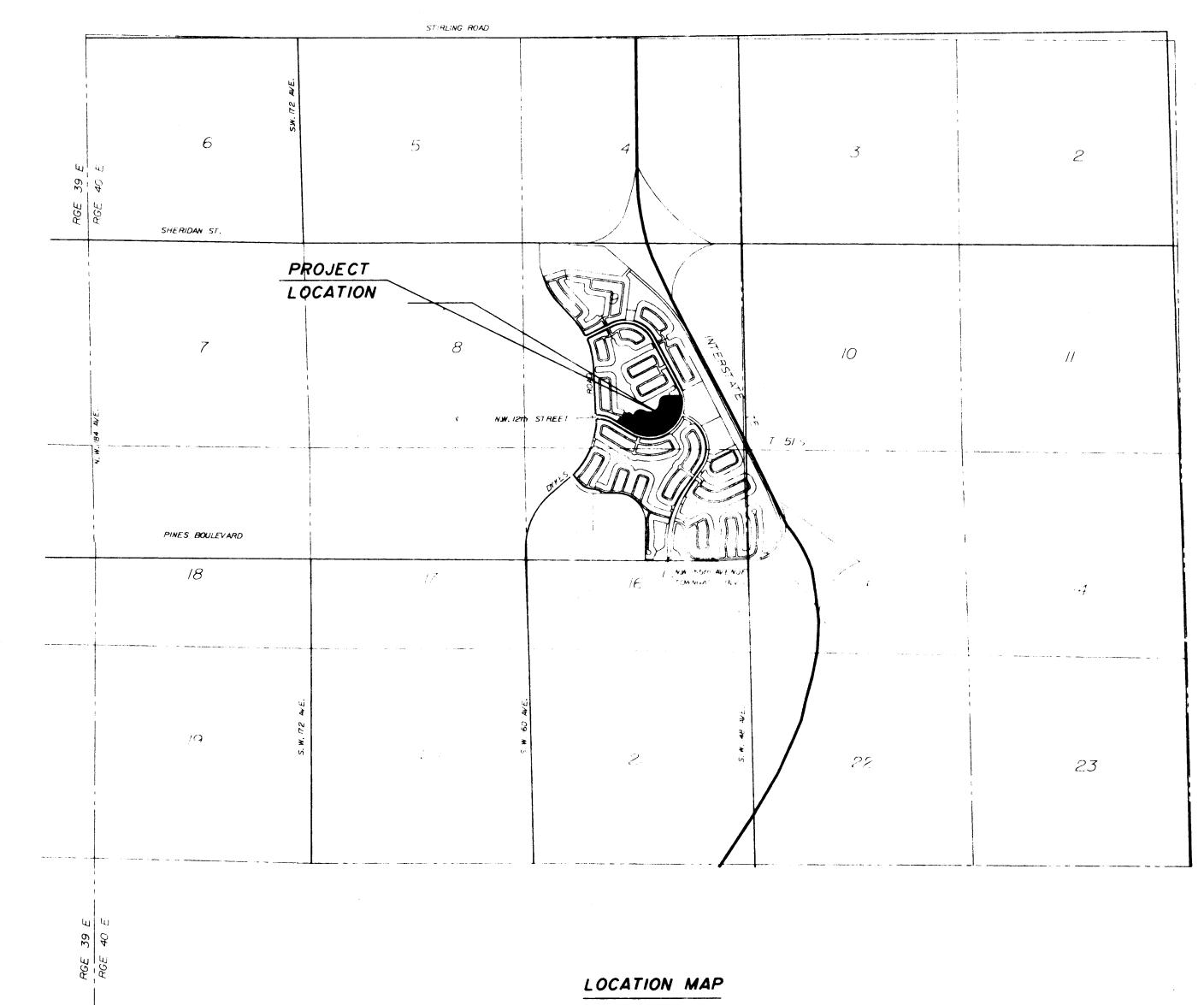
MINTO COMMUNITIES (PEMBROKE), INC.

#### LEGAL DESCRIPTION:

Portion of Parcel "D", TOWNGATE, according to the plat thereof, as recorded in Plat Book 156, Page II, of the public records of Broward County, Florida, being more particularly described as follows:

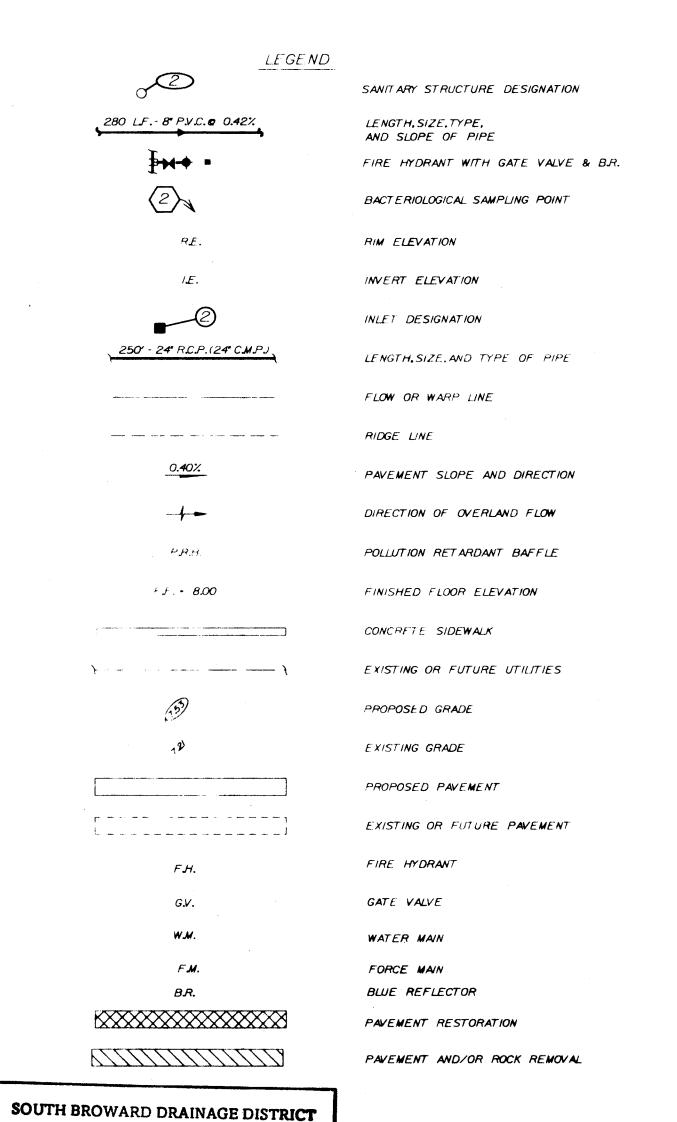
COMMENCING at the most westerly southwest corner of said Parcel \*D\*, TOWNGATE; thence South 48'25'07" East, bearings based on the recorded plat, (this and the following two described course being along the south line of said Parcel "D" for 49.13 feet to a point on a curve at which a radial line bears South 02"59'2!" East, thence easterly along the arc of a curve to the right, having a radius of 690.00 feet and a central angle of 33°15'37", for 400.54 feet to a point of tangency; thence South 59'43'44" East for 175.24 feet to the POINT OF BEGINNING; thence North 30'16'16' East for 280.64 feet to a point on a curve at which a radial line bears North 4l'4l'57" East; thence southeasterly along the arc of a curve to the right, having a radius of 35.00 feet and a central angle of 10°28′14", for 6.40 feet to a point of compound curvature; thence southeasterly along the arc of a curve to the right, having a radius of 380.00 feet and a central angle of 05°25′44", for 36.01 feet to a point of reverse curvature; thence southeasterly and easterly along the arc of a curve to the left,having a radius of 35.00 feet and a central angle of 85°09′44°,for 52.02 feet to a point of reverse curvature; thence easterly and southeasterly along angle of 94'50'/7", for 57.93 feet to a point of compound curvature; thence southeasterly and southerly along the arc of a curve to the right, having a radius of 450.00 feet and a central angle of 07°37′13°, for 59.85 feet to a point of reverse curvature; thence southeasterly, easterly and northeasterly along the arc of a curve to the left, having a radius of 35.00 feet and a central angle of 1/3°44'22", for 69.48 feet to a point of tangency; thence North 3012'51" East for 62.19 feet to a point of curvature; thence northeasterly and easterly along the arc of a curve to the right, having a radius of 150.00 feet and a central angle of 93"02"02", for 243.56 feet to a point of reverse curvature; thence easterly, northeasterly and northerly along the arc of a curve to the left, having a radius of 240.00 feet and a central angle of 12451'30", for 523.01 feet to a point of reverse curvature; thence northerly, northeasterly and easterly 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 88°23'22" East for 366.27 feet to a point on a curve at which a radial line bears South 77"/O'15" West; thence southerly, southwesterly and westerly along the arc of a curve to the right, having a radius of 7/1.00 feet and a central angle of 133'06'01 for 1791.06 feet to a point of tangency, thence North 59°43′44° West for 350.00 feet: thence South 1443'44" East for 35.36 feet; thence North 59'43'44" West for 75.00 feet to the POINT OF BEGINNING.

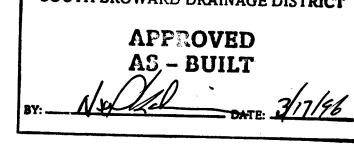
Said lands situate, lying and being in the City of Pembroke Pines, Broward County, Florida and contain 18.302 acres, more or less.



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

INDEX TO SHEETS	
DESCRIPTION	SHEET NUMBER
GENERAL NOTES AND SPECE FOATIONS	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 MARKING - PLAN & DETAILS	IMI OF I
WATER DISTRIBUTION & SEWAGE COLLECTION SYSTEM - PLAN	WSI OF 5
WATER DISTRIBUTION & SEWAGE COLLECTION SYSTEM - PLAN	WS2 OF 5
SEWAGE COLLECTION SYSTEM - PROFILES	WS3 OF 5
WATER DISTRIBUTION SYSTEM - DETAILS	WS4 OF 5
SEWAGE COLLECTION SYSTEM - DETAILS	WS5 OF 5





RECEIVED
FEB 0 5 1997
BY:

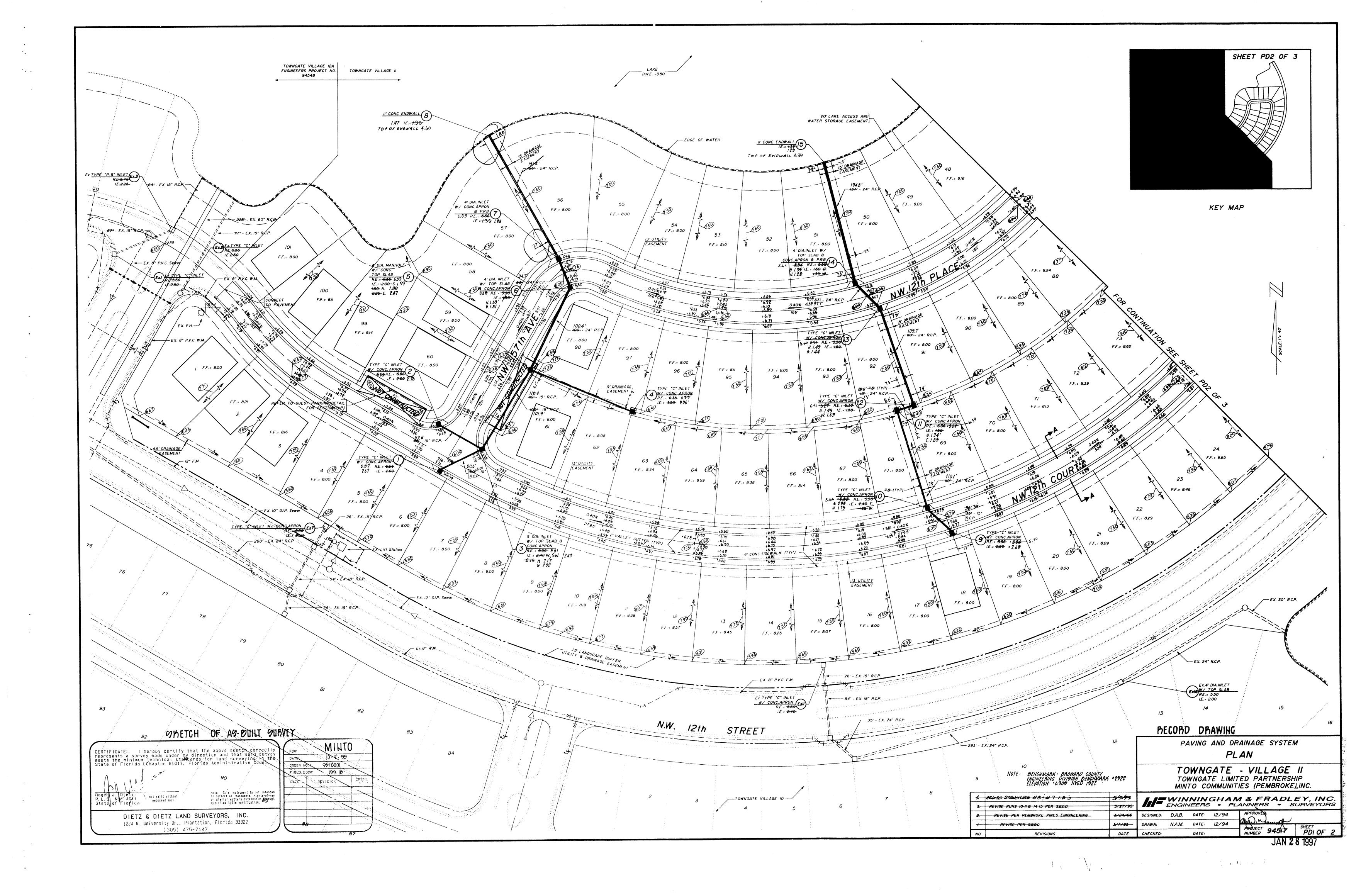


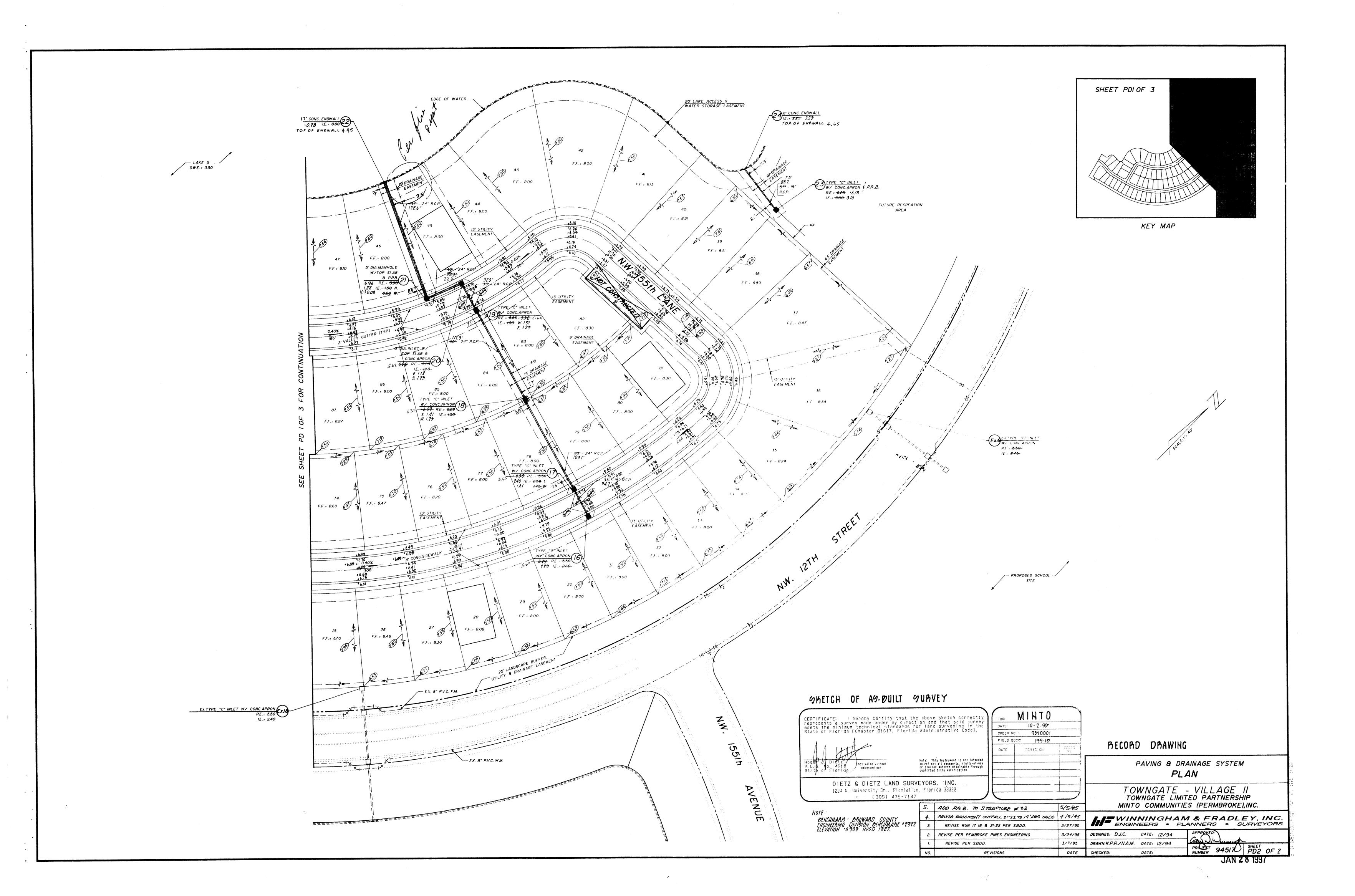
APPROVED:

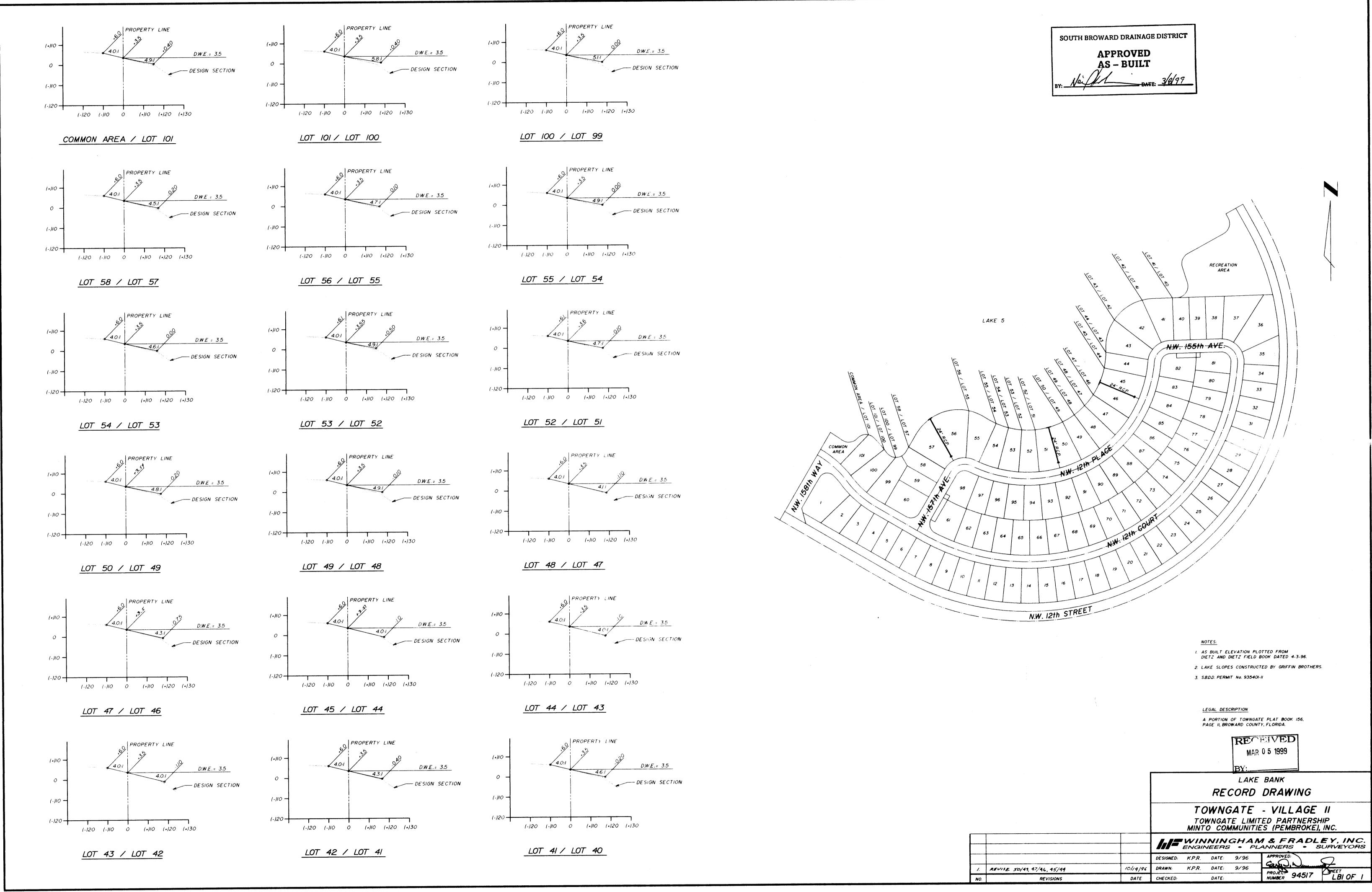
VC.

PROJECT 94517 DEC. 1994

JAN 2 8 1997







## TOWNGATE-VILLAGE 11

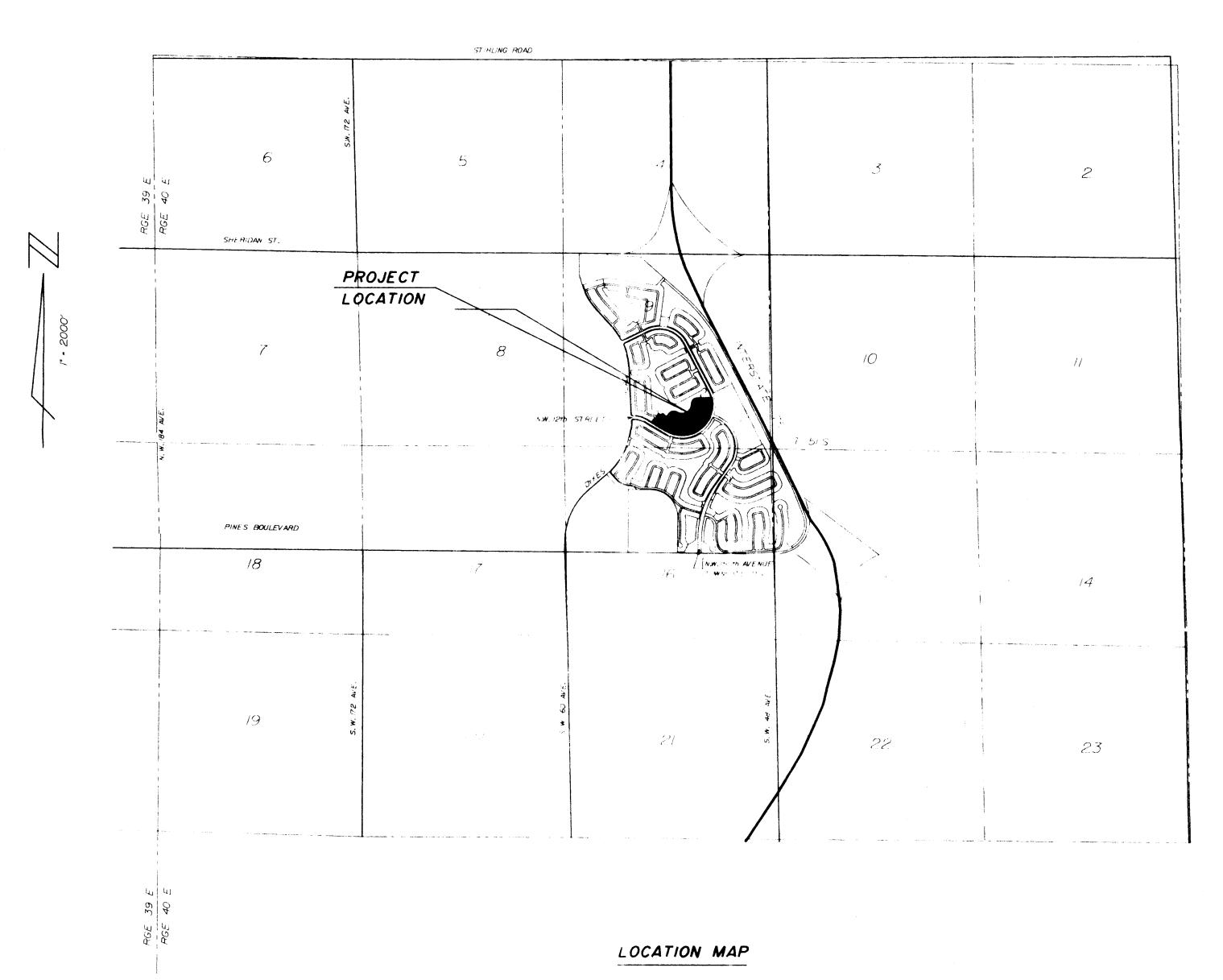
CITY OF PEMBROKE PINES, BROWARD COUNTY, FLORIDA TOWNGATE LIMITED PARTNERSHIP MINTO COMMUNITIES (PEMBROKE), INC.

#### LEGAL DESCRIPTION:

Portion of Parcel "D", TOWNGATE, according to the plat thereof, as recorded in Plat Book 156, Page II, of the public records of Broward County, Florida, being more particularly described as follows:

COMMENCING at the most westerly southwest corner of said Parcel "D", TOWNGATE; thence South 48°25'07" East, bearings based on the recorded plat, (this and the following two described course being along the south line of said Parcel "D" for 49.13 feet to a point on a curve at which a radial line bears South 02"59'2!" East, thence easterly along the arc of a curve to the right, having a radius of 690.00 feet and a central angle of 33"/5'37", for 400.54 feet to a point of tangency; thence South 59'43'44" East for 175.24 feet to the POINT OF BEGINNING; thence North 30'16'16' East for 280.64 feet to a point on a curve at which a radial line bears North 4"4"57" East; thence southeasterly along the arc of a curve to the right, having a radius of 35.00 feet and a central angle of 10°28′14″, for 6.40 feet to a point of compound curvature; thence feet and a central angle of 05°25'44", for 36.01 feet to a point of reverse curvature; thence southeasterly and easterly along the arc of a curve to the left, having a radius of 35.00 feet and a central angle of 85°09'44", for 52.02 feet to a point of reverse curvature; thence easterly and southeasterly along the arc of curve to the right, having a radius of 35.00 feet and a central angle of 94'50'/7", for 57.93 feet to a point of compound curvature; thence radius of 450.00 feet and a central angle of 07°37′13°, for 59.85 feet to a point of reverse curvature; thence southeasterly, easterly and northeasterly along the arc of a curve to the left, having a radius of 35.00 feet and a central angle of 1/3\*44'22", for 69.48 feet to a point of tangency; thence North 30°12′51" East for 62.19 feet to a point of curvature; thence northeasterly and easterly along the arc of a curve to the right, having a radius of 150.00 feet and a central angle of 93°02'02", for 243.56 feet to a point of reverse curvature; thence easterly, northeasterly and northerly along the arc of a curve to the left, having a radius of 240,00 feet and a central angle of 1245/30, for 523.0 feet to a point of reverse curvature; thence northerly, northeasterly and easterly 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 88°23'22" East for 366.27 feet to a point on a curve, at which a radial line bears South 77°10′15" West; thence southerly, southwesterly and westerly along the arc of a curve to the right, having a radius of 771.00 feet and a central angle of 133°06'01 for 1791.06 feet to a point of tangency, thence North 59'43'44' West for 350.00 feet: thence South 14'43'44" East for 35.36 feet; thence North 59'43'44" West for 75,00 feet to the POINT OF BEGINNING.

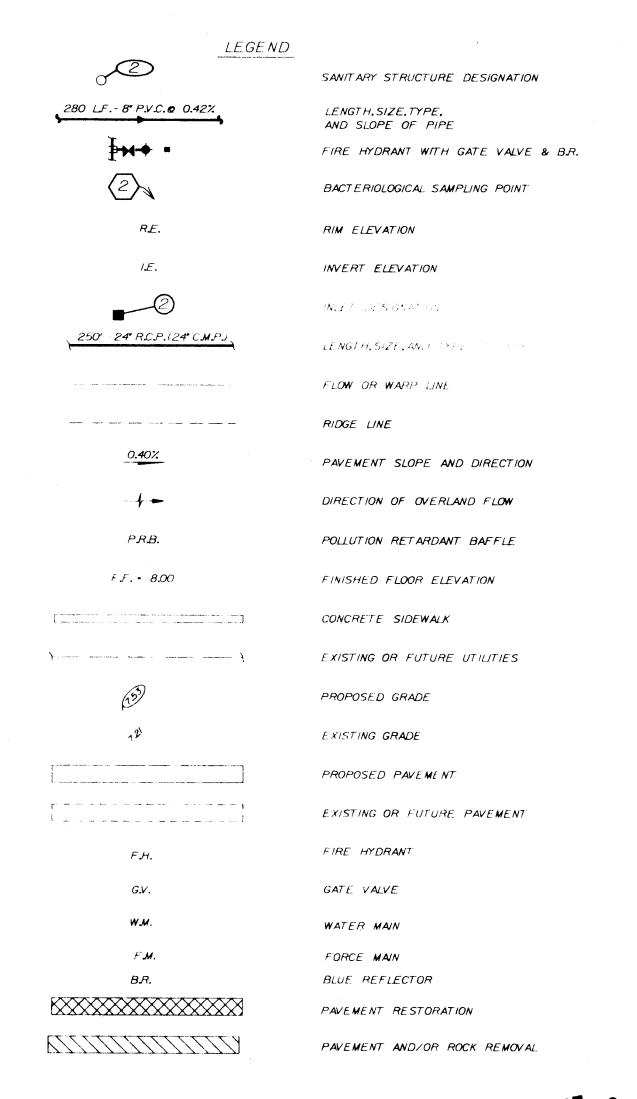
Said lands situate, lying and being in the City of Pembroke Pines, Broward County, Florida and contain 18.302 acres, more or less.

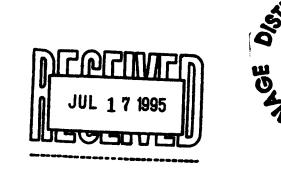


PAVING & DRAINAGE SYSTEM WATER DISTRIBUTION SYSTEM SEWAGE COLLECTION SYSTEM TRAFFIC MARKINGS

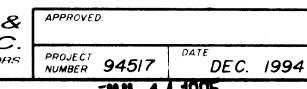
<b>V</b> DE X	10	SHEE	15

DESCRIPTION	SHEET NUMBER
GENERAL NOTES AND SPECIFICATIONS	GNI OF I
PAVING & DRAINAGE SYSTEM - PLAN	PDI OF 3
PAVING & DRAINAGE SYSTEM - PLAN	PD2 OF 3
PAVING 8 DRAINAGE SYSTEM - DETAILS	PD3 OF 3
TRAFFIC MARKING - PLAN & DETAILS	TMI OF I
WATER DISTRIBUTION & SEWAGE COLLECTION SYSTEM - PLAN	WSI OF 5
WATER DISTRIBUTION & SEWAGE COLLECTION SYSTEM - PLAN	W\$2 OF 5
SEWAGE COLLECTION SYSTEM - PROFILES	WS3 OF 5
WATER DISTRIBUTION SYSTEM - DETAILS	WS4 OF 5
SEWAGE COLLECTION SYSTEM - DETAILS	WS5 OF 5









#### GENERAL NOTES FOR WATER DISTRIBUTION AND SEWAGE COLLECTION SYSTEMS

- ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL APPLICABLE FEES AND CHARGES MUST BE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 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 THE ACCURACY 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 INFORM THE CITY OF PEMBROKE PINES ENGINEERING 8 UTILITY DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL UTILITIES,AND NOTIFICATION OF SUNSHINE STATE 1,(PH.1-800-432-4770,48 HOURS IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR SHALL INFORM THE CITY OF PEMBROKE PINES ENGINEERING & UTILITY DEPERTMENT AND WINNINGHAM

  8 FRADLEY,INC.A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF CONNECTING TO A CITY

  FACILITY
- 9. 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.
- 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.
- II. 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.
- 2. 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.
- 3. 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.
- 14. 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.
- 15. 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.
- 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 R.P.M.'s FOR MANHOLES,WHITE R.P.M.'s FOR GATE VALVES, AND GREEN R.P.M.'s FOR FORCE MAIN VALVES.
- 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.
- 18. NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE OWNER'S ENGINEER.
- 19. THE MINIMUM ALLOWABLE HORIZONTAL CLEARANCE BETWEEN UTILITIES AND OBSTRUCTIONS TO BE 3'-O" INCLUDING CATCH BASINS. THE MINIMUM ALLOWABLE HORIZONTAL CLEARANCE BETWEEN UTILITIES AND TREES IS TO BE 5'-O". FIRE HYDRANTS MUST HAVE A 7.5' CLEAR RADIUS OF ALL OBSTRUCTIONS, POLES, BOXES, PLANTINGS, ETC.
- 20. THE MINIMUM FOOT VALVE SIZE ON FIRE HYDRANTS SHALL BE 5 1/4".
- 21. AT PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXCESS DEBRIS FROM THE CONSTRUCTION SITE.

#### GENERAL NOTES FOR SEWAGE COLLECTION SYSTEM & DRAINAGE SYSTEM

- PRECAST STRUCTURES SHALL CONFORM TO ASTM C-478 AND 64T. PRECAST STRUCTURE MUST BE CERTIFIED
  BYAN INDEPENDANT ENGINEERING TESTING LABATORY. 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.
- 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-185, AND A-497 LATEST REVISION. SPLICES 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 ENGINEER FOR.
- 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.
- ALL SPACES AROUND PIPES ENTERING OR LEAVING MANHOLES SHALL BE COMPLETELY FILLED WITH EMBECO MORTAR (NON-METALLIC) OR BONSAL (NON-SHRINKING).
- 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.

- SANITARY MANHOLES AND LIDS SHALL BE CAPABLE OF WITHSTANDING AASHTO H-20 LOADING USF 420A
- 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 LINEP COMPLYING WITH A.S.T.M. 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
- 3. 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 READ STAKE SHALL BE INSTALLED AT EVERY SEWER SERVICE LOCATION.
- 16. SANITATY SEWER SHALL BE TELEVISED AT OWNERS EXPENSE. OWNER / CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PROIR TO THE CITY'S CERTIFICATION OF COMPLETION TO ANY AGENCY.
- ALL PROBLEMS/DEFECTS ASSOCIATED WITH THE SANITARY SEWER SYSTEM SHALL BE PROPERLY ADDRESSED PRIOR TO CITY CERTIFICATION TO ANY AGENCY.
- IB. 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

- ALL WATER MAIN SHALL BE PVC CONFORMING TO ANSIZAWWA SPECIFICATION C-900-89-DRIS.
- FITTINGS SHALL BE DUCTILE IRON CLASS 350 MEETING AWWA/ANSI CI53/A2I.53-88 SPECIFICATIONS.
  FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER AWWA/ANSI CI04/A2I.4-90.
- 3. GATE VALVES 4" AND LARGER SHALL MEET AWWA C 509-87 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 RATINC
- 5. ALL METER SERVICE CONNECTIONS SHALL BE BRONZE FROM PLUG VALVE TO PLUG VALVE.NO GATE VALVES
  ARE TO BE USED 12" 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 FRENCHING, 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 H.R.S.CERTIFIED LABORATORY AND SUBMIT RESULTS TO THE CITY OF PEMBROKE PINES ETILETIES.
- 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 PSIFOR A MINIMUM TEST OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER AWWAZANSI SPECIFICATIONS OF C600-93 LEAKAGE FORMULA:

#### 0 S D √P 33200

- Q = ALLOWABLE LEAKAGE IN GALLON PER HOUR
- S TOTAL LENGTH OF PIPE TESTED N FEET
- D DIAMETER OF THE PIPE TESTED VINCHES
- P = AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH
- II. THE MINIMUM DEPTH OF COVER OVER P.V.C. WATER MAINS SHALL BE 36 NCHE'S & OVER DIP, SHALL BE 30 INCHES.
- 12. DISINFECTION OF MAINS SHALL COMPLY WITH AWWA ( 65: 92 SPECIFICATONS STANDARD BACTERIOLOGICAL SAMPLING POINTS SHALL BE DESIGNATED ON THE ENGINEERING PLANSIFORCE 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 METALIC TAPE SHALL BE INSTALLED THE LENGTH OF THE PIPE I8" ABOVE THE PIPE WITH THE WORDS "WATER(OR FORCE) MAIN BURIED BELOW" FACING UPWARD. NON-METALIC TAPE SHALL BE USED ON DIP
- 15. ALL DIP.WATER MAIN SHALL BE CLASS 350, CONFORMING TO ANSTRAIWWA SPECIFICATION CI5IZA2I.4 91 AND BE CEMENT MORTAR LINED AND SEAL COATED FER ANS FAWWA.SPECIFICATION CI04ZA2I.4-90
- 15. PLUG VALVES SHALL BE DUCTILE TRON MANUFACTURED BY CLOW OR LQ AL
- 16. A TEMPORARY METER SHALL BE INSTALLED BY THE CONTRACTOR FOR ANY TEMPORARY SERVICES
- 17. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHAL. 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

- I. 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 850
- 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.
- THE CONTRACTOR AND/OR HIS SUPERINTENDENT SHAL.. HAVE AT LEAST ONE COPY OF EACH OF THE FOLLOWING PUBLICATIONS ON THE JOB SITE DURING CONSTRUCTION OF THIS PROJECT:

  AJCITY OF PEMBROKE PINES ENGINEERING DEPARTMENT-STANDARD DETAILS SPECIFICATIONS 8
  - PROCEDURAL MANUAL, JANUARY 1990.
    BJ FLORIDA DEPARTMENT OF TRANSPORTATION-STANDARD SPECIFICATION FOR ROAD AND BRIDGE
  - CONSTRUCTION,LATEST EDITION.

    CLELORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS,JANUARY 1992.
  - D.J.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 APROVED 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

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 INFORM THE OWNER AND THE CONTRACTOR OF ANY ADDITIONAL REQUIREMENTS OF THE SOUTH BROWARD DRAINAGE DISTRICT.

LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 911 OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS EXCEPT THE MINIMUM PERCENTAGE OF CARBONATE OF CALCIUM AND MAGNESIUM SHALL BE SIXTY PERCENT (60%).

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 OR
(305) 681-3338. THE SOUTH BROWARD DRAINAGE DISTRICT'S WORKING
HOURS ARE FROM 8:00 AM.TO 4:30 P.M.

ANY REVISIONS TO THESE PLANS MUST BE APPROVED BY SOUTH BROWARD DRAINAGE DISTRICT PRIOR TO CONSTRUCTION.

#### 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 4.11 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/B 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.
- 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.
- 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 I/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.

#### I. ALL WATER MAINS SHALL HAVE THE TOP OF PIPE'S

RECORD DRAWING DATA REQUIREMENTS:

- 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
- 6. RECORD DRAWINGS SHALL BE LOCATED AND CERIFIED BY A PL.S. REGISTERED IN THE STATE OF FLORIDA.

SHOWING WHERE PIPE WAS CHANGED IN MATERIAL TYPE.

GENERAL NOTES

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

				WIN	ININ	GHAN	ASFRA	DIF	YING
3	REVISE PEP P. R. UTILITIES	4/5/45		ENGI	VEERS	• PL	A & FRA Anners	SUF	VEYORS
2.	REVISE PER PEMBROKE PINES UTILITIES	3/20/95	DE SIGNED:	WaF	DATE:	12/94	APPROVED:		
1.	REVISE PER SBDD.	3/7/95	DRAWN:	WaF	DATE:	12/94		1 6	HEET
NO.	REVISIONS	DATE	CHECKED:		DATE:		PROJECT 945	5/7	GNI OF I

والمتعارفة والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض

