

LEGAL DESCRIPTION:

LOTS 10 AND 11, OF BLOCK 15, OF "ISLAND VIEW SUBDIVISION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 115 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA.

AND

LOTS 27 THRU 40, INCLUSIVE, OF BLOCK 15-A, OF "ISLAND VIEW ADDITION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 144 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, LOCATED IN THE CITY OF MIAMI BEACH, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LESS:

A PORTION OF BLOCK 15-A, OF "ISLAND VIEW ADDITION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 144 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, LOCATED IN THE CITY OF MIAMI BEACH, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF LOT 27 OF SAID BLOCK 15-A, THENCE RUN WEST, ALONG THE SOUTH LINE OF LOTS 27 THRU 33, OF SAID BLOCK 15-A, FOR A DISTANCE OF 454.55 FEET TO A POINT; THENCE RUN N 45°00'00" W, ACROSS LOTS 33, 34 AND 35, OF SAID BLOCK 15-A, FOR A DISTANCE OF 282.84 FEET TO THE POINT OF INTERSECTION WITH THE NORTH LINE OF SAID LOT 35, THENCE RUN EAST, ALONG THE NORTH LINE OF SAID BLOCK 15-A, FOR A DISTANCE OF 659.95 FEET TO THE NORTHEAST CORNER OF LOT 27, OF SAID BLOCK 15-A, THENCE RUN SOUTH, ALONG THE EAST LINE OF SAID LOT 27, FOR A DISTANCE OF 200.00 FEET TO THE POINT OF BEGINNING, AND LESS:

LOTS 10 AND 11, OF BLOCK 15, OF "ISLAND VIEW SUBDIVISION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9, AT PAGE 115 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, AND THE SOUTH 22.50 FEET OF LOT 40, OF BLOCK 15-A, OF "ISLAND VIEW ADDITION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 9 AT PAGE 144 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, ALL BEING IN SECTION 34, TOWNSHIP 33 SOUTH, RANGE 42 EAST OF DADE COUNTY, FLORIDA AND BEING SITUATED IN THE CITY OF MIAMI BEACH, FLORIDA.

ENGINEER'S NOTE:

1. THE WATER AND/OR SEWER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PUBLISHED AND CURRENT STANDARDS OF THE CITY OF MIAMI BEACH UTILITY DEPARTMENT AND UNDER THE INSPECTION OF THEIR PERSONNEL.
2. THE APPROXIMATE LOCATION OF ALL UTILITIES SHOWN HEREON WERE DETERMINED FROM "AS-BUILT" PLANS AND/OR FIELD LOCATION AND MUST BE VERIFIED.
3. CONTRACTOR TO VERIFY LOCATION, ELEVATION, MATERIAL AND CONDITION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. AFTER OBTAINING LOCATION FROM UNCLE, AND OTHER UTILITY COMPANIES, AND PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL UNCOVER ALL KNOWN UNDERGROUND UTILITIES IN THE PATH OF THE WORK, WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS, AND SHALL TAKE VERTICAL AND HORIZONTAL MEASUREMENTS OF THE LOCATIONS OF THESE UTILITIES, AND IF ANY CONFLICTS ARE APPARENT, REPORT THE MEASUREMENTS TO THE ENGINEER-OF-RECORD.
4. CONTRACTOR TO CONTACT ENGINEER-OF-RECORD IF EXISTING UTILITIES ARE NOT AS SHOWN ON THE PLANS.
5. ALL LANDSCAPING AND IRRIGATION DISTURBED SHALL BE REPLACED WITH LIKE KIND.
6. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TRENCH SAFETY ACT" AND ALL REQUIREMENTS OF O.S.H.A.
7. ALL VALVES ARE TO BE TIED TO TEES (UNLESS OTHERWISE NOTED).
8. ELEVATIONS REFER TO N.G.V.D. NATIONAL GEODETIC VERTICAL DATUM OF 1929.
9. STATIONS REFER TO CENTRINE C/L OF PURDY AVENUE.

ENGINEER'S CERTIFICATION REQUIREMENTS:

1. THE WATER AND/OR SEWER LAYOUTS, PIPE COVER AND/OR INVERT ELEVATIONS AND DETERMINATION OF EASEMENT GEOMETRY SHALL BE PERFORMED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR AT THE TIME OF INSTALLATION.
2. THE ENGINEER-OF-RECORD SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE BEFORE INSTALLATION, TESTING AND BACKFILLING OF ANY LINES.
3. THE ENGINEER-OF-RECORD SHALL BE PROVIDED WITH COPIES OF ALL PRESSURE TEST RESULTS, PENETRATION TEST RESULTS, BACTERIOLOGICAL TEST DATA AND DENSITY REPORTS AS THEY ARE ISSUED BY THE CORRESPONDING TESTING LABS.
4. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS.
5. CONTRACTOR SHALL PROVIDE THE ENGINEER-OF-RECORD WITH A SET OF FINAL "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR, FOR ENGINEER'S REVIEW AND FILE.
6. CERTIFICATION OF COMPLETION IN ACCORDANCE WITH PLANS AND SPECIFICATIONS WILL "NOT" BE ISSUED BY THE ENGINEER-OF-RECORD TO THE APPROPRIATE PERMITTING AGENCIES UNTIL ALL THE REG'S DESCRIBED HEREIN HAVE BEEN MET.

WATER AND SEWER SEPARATION NOTES:

1. SANITARY SEWERS AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS AND FORCE MAINS CROSSING WATER MAINS SHALL BE LEAD TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" HIGHER BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE.
2. WHERE SANITARY SEWERS FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18" HIGHER VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) OR AMMA C-900 P.V.C. PRESSURE PIPE AT THE CROSSING. SUFFICIENT LONGING MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 8" HIGHER MUST BE MAINTAINED AT ALL CROSSINGS.
3. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE AT LEAST 10 FEET FROM THE CROSSING (PIPES CENTERED ON THE CROSSING).
4. WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18" HIGHER VERTICAL CLEARANCE, THE NEW PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
5. A MINIMUM 18" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN INSTALLATIONS WHENEVER POSSIBLE.
6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE Laid IN A SEPARATE TRENCH OR ON AN UNDERGRADED EARTH SHEET LOCATED ON ONE SIDE OF THE SEWER OF FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" HIGHER ABOVE THE TOP OF THE SEWER.
7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18" HIGHER IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF D.I.P. OR SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF D.I.P. OR AMMA C-900 P.V.C. PRESSURE PIPE WITH A MINIMUM VERTICAL DISTANCE OF 8" HIGHER. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
8. ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN.
9. WHEN USING TYPE 20M-SEW-35 P.V.C. A 30 FOOT LENGTH OF DUCTILE IRON PIPE MAY BE USED AS A CASING PIPE IN LIEU OF THE ABOVE. SEAL BOTH ENDS WITH JOINT.

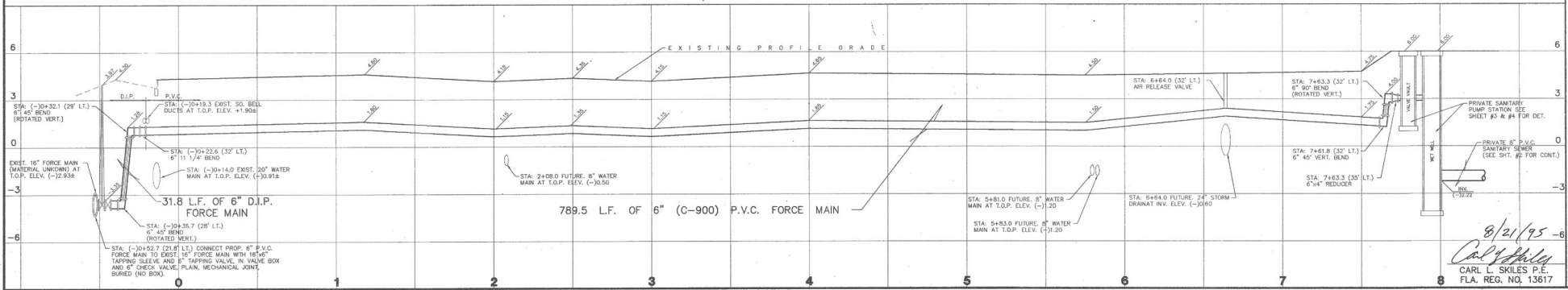
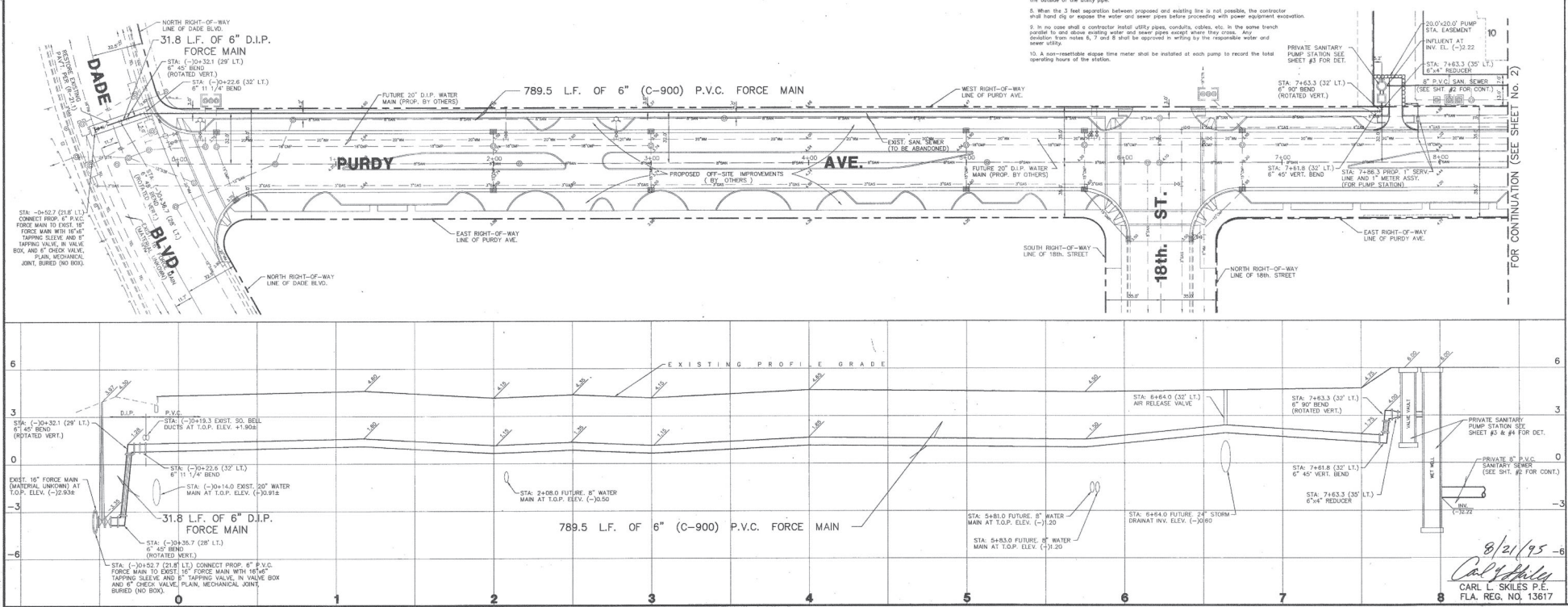
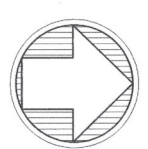
DETM. NOTES ON WATER-SEWER INSTALLATION

1. Horizontal distance of 10' to 12' shall be maintained between water and sewer mains. When the 10 foot horizontal distance criteria cannot be met due to an existing underground facility conflict, the sewer shall be constructed of ductile iron pipe with mechanical joints.
2. A minimum distance of 18" shall be maintained between water and sewer mains. The sewer shall be a ductile iron pipe 20 feet higher above the crossing than the water main. If the 18" vertical clearance cannot be achieved, the sewer shall be installed above the water main (regardless of separation).
3. In highly congested areas, where either water or sewer facilities are existing and the separation requirements cannot be met, special consideration may be given subject to a complete evaluation of each case.
4. The minimum allowable infiltration rate of gravity sanitary sewers constructed in a public utility protection area shall be 150 gpdms per inch pipe diameter per mile per day for residential land use and 100 gpdms per inch pipe diameter per mile per day for non-residential land use.
5. Force main sewers constructed in a public utility protection area shall be either ductile iron or reinforced concrete pressure sewer pipe. The ductile iron pipe infiltration rate shall not be greater than the allowable leakage rate specified in American Water Works Association Standard (AWWA) C900-82 at a test pressure of 100 pounds per square inch. The reinforced concrete pressure sanitary sewer force main infiltration rate shall not be greater than one-half (1/2) the allowable leakage rate specified in AWWA C900-82 at a test pressure of 100 pounds per square inch.
6. The contractor shall verify nature, depth, character of existing underground utilities prior to start of construction.
7. All other public or private utility facilities shall be constructed at least 3 feet from any water and sewer mains as measured from the outside bell of the water and sewer pipe to the outside of the utility pipe.
8. When the 3 foot separation between proposed and existing line is not possible, the contractor shall install 40' or more of water and sewer pipes before proceeding with power equipment installation.
9. In no case shall a contractor install utility pipes, conduits, cables, etc. in the same trench parallel to one another water and sewer pipes except where they cross. Any installation from notes 6, 7 and 8 shall be approved in writing by the responsible water and sewer utility.
10. A non-measurable depth time meter shall be installed at each pump to record the total operating hours of the station.

LEGEND:

	CATCH BASIN		TELE/ELEC. PULL BOX
	UTILITY MANHOLES		WOOD POWER POLE
	FIRE HYDRANT		POWER POLE w/ALUMINAIRE
	WATER VALVE		CONC. POWER POLE
	WATER METER		TRAFFIC SIGN
	CURB AND GUTTER		CONC. WHEEL STOP
	EXIST. IMPROVEMENTS		EXIST. GROUND ELEVATION
	CONCRETE WALKWAYS		NEW ASPHALT PAVEMENT

48 HOURS BEFORE DIGGING
CALL UNCLE
 TOLL FREE
1-800-432-4770
 UNDERGROUND UTILITIES NOTIFICATION
 CENTER OF FLORIDA

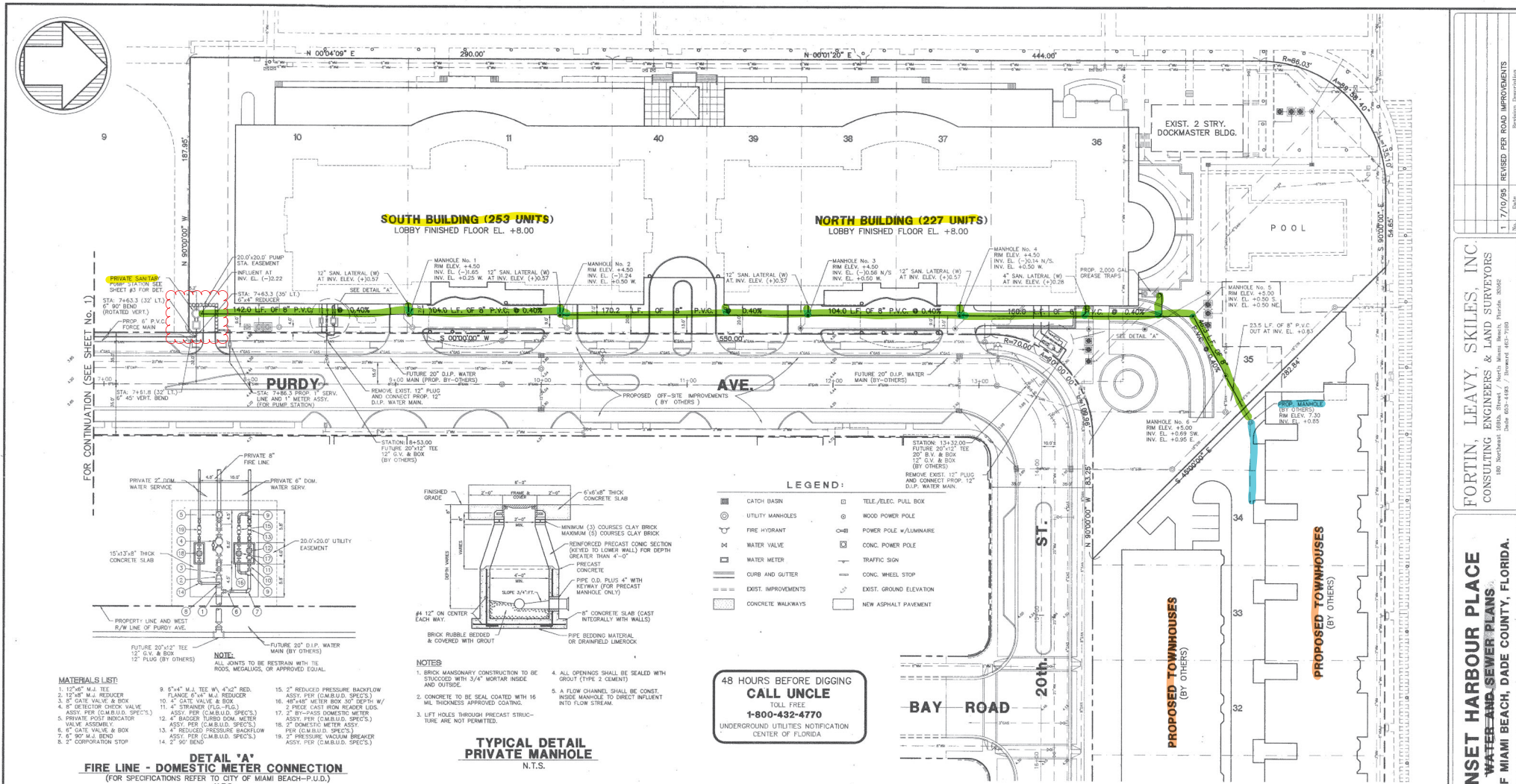
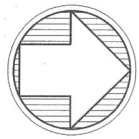


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SUNSET HARBOUR PLACE
 WATER AND SEWER PLANS
 CITY OF MIAMI BEACH, DADE COUNTY, FLORIDA.

Date: **SEPT. 7, 1994**
 Scale: **1"=30'**
 Check By: **CLS**
 Job No.: **9345**
 Ref. Dwg.: **940679/795**
 Field Book: **475/38**
 Cont. No.: **WS9345-1 (98)**
 Dwg. No.: **894-025**
 Sheet: **1 of 4**

8/21/95
 Carl L. Skiles P.E.
 FLA. REG. NO. 13617



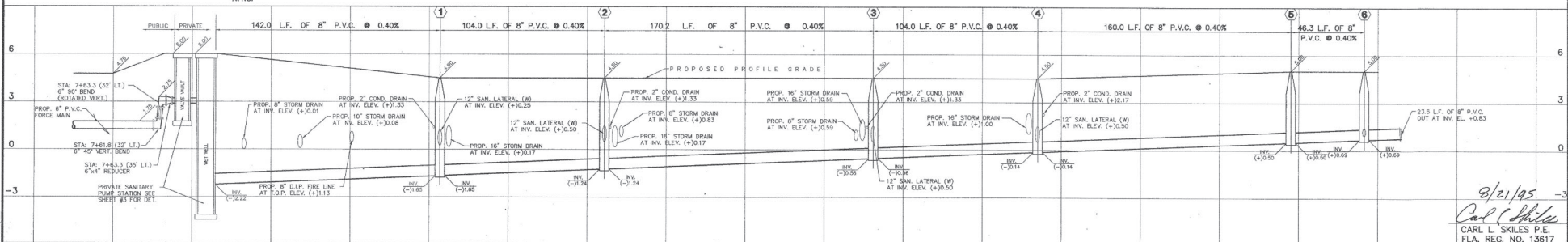
- MATERIALS LIST:**
- 12" M.J. TEE
 - 12" M.J. REDUCER
 - 8" GATE VALVE & BOX
 - 8" DETECTOR CHECK VALVE ASSY. PER (C.M.B.U.D. SPECS.)
 - PRIVATE POST INDICATOR VALVE ASSY. PER (C.M.B.U.D. SPECS.)
 - 8" GATE VALVE & BOX
 - 8" M.J. BEND
 - 8" CORPORATION STOP
 - 6" M.J. TEE
 - 6" M.J. REDUCER
 - 4" GATE VALVE & BOX
 - 4" STRAINER (FLG. PLG.) ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" BY-PASS DOMESTIC METER ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" DOMESTIC METER ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" REDUCED PRESSURE BACKFLOW ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" PRESSURE VACUUM BREAKER ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" REDUCED PRESSURE BACKFLOW ASSY. PER (C.M.B.U.D. SPECS.)
 - 4" GATE VALVE & BOX
 - 2" FREE CAST IRON HOOKER LOS
 - 2" BY-PASS DOMESTIC METER ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" DOMESTIC METER ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" REDUCED PRESSURE BACKFLOW ASSY. PER (C.M.B.U.D. SPECS.)
 - 2" PRESSURE VACUUM BREAKER ASSY. PER (C.M.B.U.D. SPECS.)

DETAIL 'A'
FIRE LINE - DOMESTIC METER CONNECTION
(FOR SPECIFICATIONS REFER TO CITY OF MIAMI BEACH-P.U.D.)
N.T.S.

- NOTES:**
- BRICK MANSUETARY CONSTRUCTION TO BE STOCKED WITH 3/4" MORTAR INSIDE AND OUTSIDE.
 - CONCRETE TO BE SEAL COATED WITH 16 MIL THICKNESS APPROVED COATING.
 - LIFT HOLES THROUGH PRECAST STRUCTURE ARE NOT PERMITTED.
 - ALL OPENINGS SHALL BE SEALED WITH GROUT (TYPE 2 CEMENT).
 - A FLOW CHANNEL SHALL BE CONST. INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.

TYPICAL DETAIL
PRIVATE MANHOLE
N.T.S.

48 HOURS BEFORE DIGGING
CALL UNCLE
TOLL FREE
1-800-432-4770
UNDERGROUND UTILITIES NOTIFICATION
CENTER OF FLORIDA



9/21/95
Carl L. Skiles P.E.
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FLA. REG. NO. 13617

No.	Date	Revision	Description
1	7/10/95	REVISED PER ROAD IMPROVEMENTS	

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SUNSET HARBOUR PLACE
WATER AND SEWER PLANS
CITY OF MIAMI BEACH, DADE COUNTY, FLORIDA.

Date	SEPT. 7, 1994
Scale	1"=30'
Check By	CLS
Job No.	9345
Ref. Dwg.	940679/795
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Calc. No.	WS9345-2 (96)
Dwg. No.	894-025
Sheet	2 of 4

"TYPICAL SPECIFICATIONS FOR DAVIS-EMU SUBMERSIBLE SEWAGE PUMP STATIONS"

4" Model Pumps
With FK Motors

PUMPS:
Furnish and install **Two** Davis-EMU Model **FA192-306**, **4"** inch discharge connection, totally submersible pump(s), **2.5** H.P., **1720** RPM, **230** volts, **3** phase, 60 hertz motor(s), capable of delivering **325** GPM against **13.4'** TDH.

PUMP CONSTRUCTION:
The pump(s) shall be designed to pump sewage, storm water, heavy sludge and other fibrous materials without injurious damage during operation. The design shall be such that the lifting cover, stator housing and volute casing are of grey iron construction, with all nuts, bolts, washers and other fastening devices coming into contact with the sewage constructed of stainless steel. The impeller shall be of hard alloy grey iron construction and provided with stainless steel wear ring.

The pump motor shall be of Class F insulation, NEMA B design, watertight and positively oil cooled, filled with a transformer oil, quality BP Energol JSD or Shell Diala D or DX. The pump motor shall be guaranteed to run in a totally, partially or non-submerged condition continuously for a period of 24 hours without injurious damages. Water cooled pumps shall not be considered equal.

The pump shall be provided with a tandem double mechanical seal running in an oil bath. The seals shall be of lapped uniform carbide and welded to stainless steel retainers and held in contact by separate springs. Conventional double mechanical seals with a spring assembly between the rotating face, requiring constant differential pressure to effect sealing and subject to penetration and opening by pumping forces shall not be considered equal to the tandem seal specified and required.

The pump shaft shall be of stainless steel and supported by a double row inboard bearing for axial thrust and a single row outboard bearing for radial thrust. The impeller shall be connected to a short sturdy shaft in order to minimize shaft deflection. The shaft shall not extend more than 2 1/2 times its diameter below the nearest support bearing.

The pump cable shall be 33 feet of the "50" type and in compliance with industry standards for loads, resistance against sewage and of stranded construction. The cable shall enter the pump through a heavy duty entry assembly which shall be provided with an internal pressure assembly to protect against leakage once secured and must have a strain relief assembly as part of standard construction. The power cable shall connect to a terminal board which separates the incoming service from the pump motor, where, if leakage occurs, the terminal board shall shut out and not cause damage to the motor.

Each pump shall be supplied with a universal coupling which bolts to the pump discharge flange and shall accept the discharge elbow provided by the pump manufacturer. Seal of the pump at the discharge flange shall be accomplished by a simple downward line motion of the pump with the entire weight of the pump guided to and pressing against the discharge connection; no part of the pump shall bear directly on the pump floor and no rotary motion of the pump shall be required for sealing. Sealing at the discharge shall be effected by a rubber lip to insure a positive leakproof system and for ease of removal. Metal to metal discharge connections will not be considered equal. The pump shall be guaranteed not to leak at the discharge flange. Other forms of guiding, such as straightening vanes etc., shall not be considered equal.

CONTROLS:
Furnish and install one (1) Davis-EMU automatic pump control center in NEMA **3R** enclosure or **Fiberglass-Molded** Construction for **230** volts, 3 phase, 60 hertz, four wire power supply. Each pump shall have an individual disconnect switch, magnetic starter with three phase overload protection and manual reset, hand-off-automatic selector switches, control disconnect and by pass circuitry for the alternator in the event of failure. Also provide a high level alarm. Also furnish **EL** liquid level regulator, each provided with 15' feet of electric cable. The motor control center shall be installed in a location as shown on the engineer's drawings.

ACCESS FRAME:
Furnish one (1) Davis-EMU Model **100V** pump access frame, complete with hinged and hamp-equipped cover, upper guide holders, galvanized lifting chain, and stainless steel cable holder. Frame shall be securely mounted to the side of the pump as shown on the Engineers drawings.

PUMP GUIDE BARS:
Furnish one (1) T-Bar Guide Rail for each pump to permit raising and lowering the pump. Guide rails shall be of adequate length to extend from the lower guide holder on the pump discharge connection to the upper guide holder mounted on the access frame.

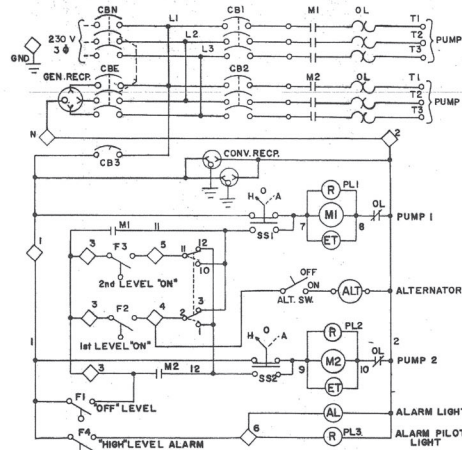
PUMP LIMITED WARRANTY:
The pump manufacturer shall warrant the pumps to be supplied to the owner for a period of five (5) years under normal use. The warranty must include 100% coverage of the manufacturers labor and parts for the first year and then 50% coverage through the fifth year. See actual warranty for details.

TESTING:
Before placing installation into service the pumps shall be run continuously with the motor not submerged for 30 minutes under full load current with no damage resulting to the motor or the pump. The pumps shall during this test produce the designed GPM and TDH conditions and shall experience a hose run no less than 40°C above ambient temperature.

COMPATIBILITY OF EQUIPMENT:
In order to assure the proper performance and compatibility of interacting components within the intent of the specifications; the pumps, control center, access frame and warranty shall be supplied by the same manufacturer.

ELECTRICAL DATA

Motor Type	FK 302
Size	407
Rated power (kW)	18.5
Max. input (kW)	22.5
Max. input (kVA)	28
Speed (r.p.m.)	1720
Motor efficiency %	1/1 82
	2/4 83
	1/2 81
Power Factor	1/1 0.87
cos phi	3/4 0.85
	1/2 0.79
Locked rotor I	0.56
Rated current (amps)	87
Locked rotor	450%
current (amps)	230 V 258
Starting torque (Nm)	250
Length (mm)	916
Weight (kg)	165
Max. temp. pumped (°F)	140
Address. inst. depth (ft)	1.5
Motor filling (liters)	7
Filling of seal chamber (lit)	1.5
Power cable	500V, 3-core
NEMA code	D



LEGEND:
CBN NORMAL POWER 3P CIRCUIT BRKR.
CB182 PUMP 3P CIRCUIT BREAKER
CB2 CONTROL 1P CIRCUIT BREAKER
M182 MOTOR STARTER 3P
ALT ALTERNATOR 800T 10VOLT
SS182 SELECTOR SWITCH 3POS. H-O-A
ALT SW ALTERNATOR SWITCH SPST
F1-F4 FLOAT CONTROL SWITCH
PL23 PILOT LIGHT 10VOLT
EL ELAPSED TIME METER - NON RESETTABLE
GENRECP GENERATOR RECEPTACLE



DAVIS EMU
DUPLX CONTROL PANEL
100V. FLOAT CONTROL
SCHEMATIC
2/8/79

PANEL SCHEDULE

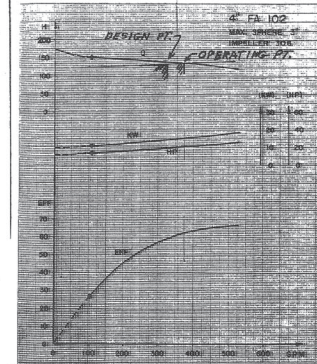
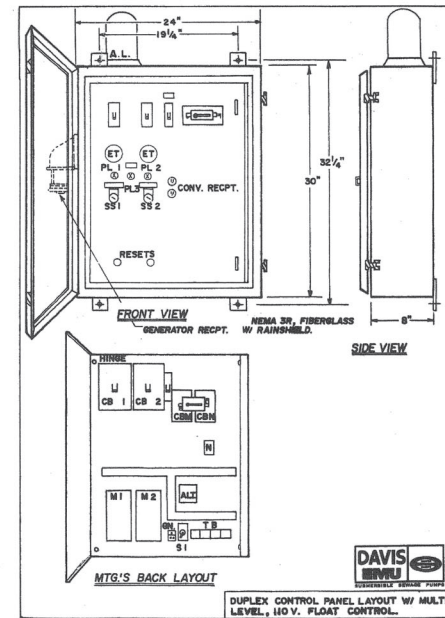
Circuit	Service	Breaker Amps	F.L.A.	Demand Load Amps
1	Pump No. 1	80	67	125% x 67 = 84
2	Pump No. 2	80	67	= 67
3	Controls	20	15	= 15
4	Duplex Recept.	20	15	= 15
				TOTAL 181

Feeder = 3 #20 THWCU and
1 #1 Neutral
in 2" Conduit

TYPICAL WETPIT INSTALLATION DIMENSIONS FOR A FA102 PUMP WITH T-BAR GUIDE RAIL SYSTEM SEE LOCATION DRAWINGS FA-1000-1A, 2A, 3A, 4A

	SIMPLEX	DUPLX	TRIPLEX
PLAN			
A	30.0	30.0	30.0
B	30.0	48.0	24.0
C	N/A	12.0	30.0
D	N/A	14.0	N/A
E	8 1/2	8 1/2	8 1/2
F	8 1/2	8 1/2	8 1/2
G	20.0	20.0	20.0
H	3.0	3.0	3.0
J	10 1/2	10 1/2	10 1/2
K	8 1/2	8 1/2	8 1/2
L	8 1/2	8 1/2	8 1/2
M	10 1/2	10 1/2	10 1/2
N	4 1/2	4 1/2	4 1/2
P	10 1/2	10 1/2	10 1/2
R	N/A	N/A	N/A
S	10 1/2	10 1/2	10 1/2
T	44 1/2	44 1/2	44 1/2
V	4 1/2	4 1/2	4 1/2
W	10 1/2	10 1/2	10 1/2
Y	2 1/2	2 1/2	2 1/2
ELEVATION			
U	44 1/2	44 1/2	44 1/2
V	4 1/2	4 1/2	4 1/2
W	10 1/2	10 1/2	10 1/2
Y	2 1/2	2 1/2	2 1/2

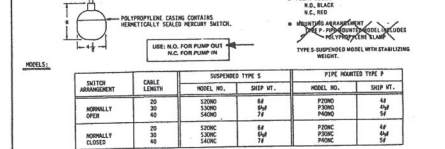
*DIMENSIONS BASED ON MINIMUM HATCH SIZE. IF LARGER
HATCHES ARE USED THESE DIMENSIONS WILL VARY...
*PUMP SPECIFIC DIMENSIONS MUST BE USED TO INSTALL...
ALL DIMENSIONS GIVEN IN INCHES...



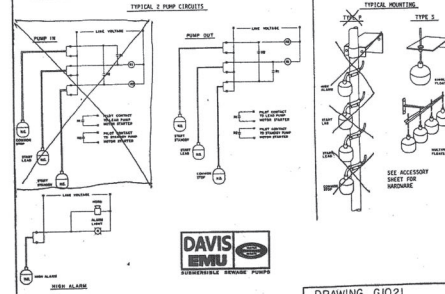
DESIGN	FA 102
1. Prime Capacity	325 GPM
2. Total Head in Feet	13.4
3. Motor	2.5 HP, 1720 RPM
4. Generator Receptacle	100V, 3P, 4W
5. Pump Efficiency	85%
6. Pump Head	13.4
7. Pump Efficiency	85%
8. Pump Head	13.4
9. Pump Efficiency	85%
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44. Pump Head	13.4
45. Pump Efficiency	85%
46. Pump Head	13.4
47. Pump Efficiency	85%
48. Pump Head	13.4
49. Pump Efficiency	85%
50. Pump Head	13.4
51. Pump Efficiency	85%
52. Pump Head	13.4
53. Pump Efficiency	85%
54. Pump Head	13.4
55. Pump Efficiency	85%
56. Pump Head	13.4
57. Pump Efficiency	85%
58. Pump Head	13.4
59. Pump Efficiency	85%
60. Pump Head	13.4
61. Pump Efficiency	85%
62. Pump Head	13.4
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66. Pump Head	13.4
67. Pump Efficiency	85%
68. Pump Head	13.4
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71. Pump Efficiency	85%
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78. Pump Head	13.4
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83. Pump Efficiency	85%
84. Pump Head	13.4
85. Pump Efficiency	85%
86. Pump Head	13.4
87. Pump Efficiency	85%
88. Pump Head	13.4
89. Pump Efficiency	85%
90. Pump Head	13.4
91. Pump Efficiency	85%
92. Pump Head	13.4
93. Pump Efficiency	85%
94. Pump Head	13.4
95. Pump Efficiency	85%
96. Pump Head	13.4
97. Pump Efficiency	85%
98. Pump Head	13.4
99. Pump Efficiency	85%
100. Pump Head	13.4

THE FLOAT IS A CHEMICAL RESISTANT POLYPROPYLENE CASING WITH A FIBER OPTIC ELECTRICAL CABLE ATTACHED. ONE END OF THE CABLE IS PERMANENTLY CONNECTED TO THE METAL ENCLOSED RECEPT AND THE OTHER END IS DISCONNECTED TO FORM A COMPLETELY WATER TIGHT AND IMPACT RESISTANT UNIT.

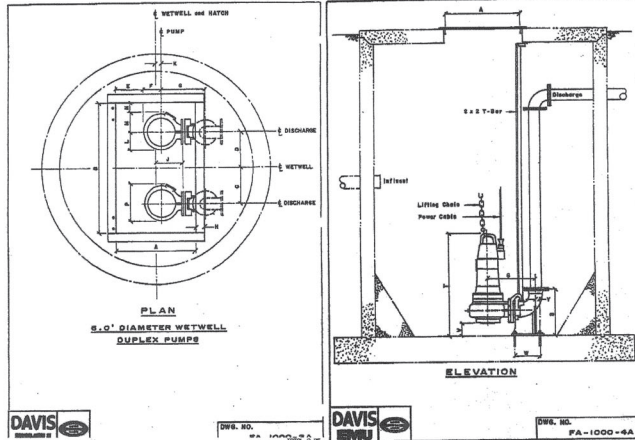
PLANTS CAN BE INSTALLED IN ANY LOCATION. SUSCEPTIBLE FROM ADVICE, (TYPE 1). ADVANTAGES OF THE AUTO-RAISE ARE LOW COST, SIMPLICITY AND RELIABILITY.



APPL. LOCATIONS:
THE USE OF CONTROLLING PUMPS ON OTHER MACHINES AND MEASURING ALARM LEVELS IN WATER, SEWAGE AND MANY OTHER LIQUIDS. MAY BE USED FOR PUMP IN OR PUMP OUT CONTROL, FOR LOW LEVEL CUTOUT, OR FOR LOW AND HIGH LEVEL ALARMS.



DRAWING G1021



OWE, NO. FA-1000-6A

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100 North Miami Beach, Florida 33162
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SUNSET HARBOUR PLACE
WATER AND SEWER PLANS
CITY OF MIAMI BEACH, DADE COUNTY, FLORIDA.

DATE: SEPT. 7, 1994
DRAWN BY: C.S.
CHECKED BY: C.S.
DESIGN NO.: 840879/785
PROJECT NO.: 479/08
SHEET NO.: 884-025
4 of 4

8/21/95
CARL L. SKILES P.E.
FLA. REG. NO. 13617