ORIGINAL

Progress Energy

JOHN T. BURNETT
ASSOCIATE GENERAL COUNSEL
PROGRESS ENERGY SERVICE COMPANY, LLC

January 6, 2006

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COMMISSION
CLERK

Ms. Blanca S. Bayo, Director
Division of Commission Clerk and
Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Petition of Progress Energy Florida, Inc. for approval of revised underground residential distribution tariffs; Docket No. 060017-EI

Dear Ms. Bayo:

Enclosed for filing on behalf of Progress Energy Florida, Inc. are an original and fifteen (15) copies of its petition for approval of revised underground residential distribution tariffs filed pursuant to Rule 25-6.078, F.A.C.

Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. A 3 ½ inch diskette containing the above-referenced document in Word format is also enclosed. Thank you for your assistance in this matter.

Very truly yours,

John T. Burnett lms

John T. Burnett

JTB/lms
Enclosure

Original Tariffs forwarded to ECR

RECEIVED & FILED
FPSC-BUREAU OF RECORDS

DOCUMENT NUMBER-DATE
00138 JAN-6 06
FPSC-COMMISSION CLERK

100 Central Avenue (33701) ▯ Post Office Box 14042 (33733) ▯ St. Petersburg, Florida
Phone: 727.820.5184 ▯ Fax: 727.820.5519 ▯ Email: john.burnett@pgnmail.com

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition of Progress Energy Florida, Inc. for Approval of Revised Underground Residential Distribution Tariffs.	Docket No. 060017-EI Submitted for filing: January 6, 2006

PETITION

Progress Energy Florida, Inc. ("PEF" or "the Company"), pursuant to Rule 25-6.078, F.A.C., hereby requests that the Florida Public Service Commission ("the Commission") approve the revised tariff sheets, as hereby amended, contained in the attached Exhibit A. These tariff sheets comprise PEF's Underground Residential Distribution (URD) policy established pursuant to Commission Rule 25-6.078, as set forth in Part XI of the Company's Rules and Regulations Governing Electric Service. The revisions contained in these tariff sheets consist of updated URD charges based on the differential between the cost of overhead and underground facilities, as well as other minor revisions described below. Exhibit B provides the revised and amended tariff sheets in legislative format, showing the revisions to the currently effective tariff sheets. In support of its petition, PEF states as follows.

Introduction

1. PEF is a public utility subject to the regulatory jurisdiction of the Commission pursuant to Chapter 366, Florida Statutes. The Company's

principal place of business is located at 100 Central Avenue, St. Petersburg, Florida 33701.

2. All notices, pleadings and correspondence required to be served on the petitioner should be directed to:

John T. Burnett, Esquire
Post Office Box 14042
St. Petersburg, FL 33733-4042
Facsimile: (727) 820-5249
Email: john.burnett@pgnmail.com

For express private courier deliveries, the street address and zip code in paragraph 1 above should be used.

Discussion

3. The updated URD differential charges shown on the revised tariff sheets contained in Exhibit A have been calculated in accordance with Commission Rule 25-6.078. Exhibit C includes schedules from Form PSC/EAG 13, *Overhead/Underground Residential Differential Cost Data*, which provides the underlying data and analyses supporting Progress Energy's URD charges, as specified by Rule 25-6.078.

4. The proposed URD charges for typical subdivision lots are contained in subsection 11.03(2)(a) of PEF's tariff rules and regulations, which have increased compared to the current charges established in 2003. The proposed charges have increased from $350 to $428, or 22%, for the 210-lot low density typical subdivision; from $130 to $165, or 27%, for the 176-lot high density, gang

metered typical subdivision; and from $224 to $256, or 14%, for a 176-lot high density, individually metered typical subdivision. Other updated URD charges for three-phase conductors, customer trenching credits, and new and converted service laterals, are contained in subsections 11.03(2)(b) and (c), 11.04(2)(a) and (b), and 11.05(4), respectively. A summary of the reasons for each of the changes from the current URD charges is provided in Exhibit D.

5. The various revisions to Sections 11.03, 11.04 and 11.05 addressed above affect three of the seven tariff sheets in Part XI, the URD section of the Company's tariff, *i.e.*, Sheets 4.113, 4.114 and 4.115.

WHEREFORE, Progress Energy respectfully requests that the Commission grant this petition and approve the revised and amended URD tariff sheets contained in Exhibit A hereto.

Respectfully submitted,

John T. Burnett
Associate General Counsel
Progress Energy Service Company, LLC
Post Office Box 14042
St. Petersburg, Florida 33733-4042
Telephone: 727-820-5184
Facsimile: 727-820-5249
Email: john.burnett@pgnmail.com

Attorney for
PROGRESS ENERGY FLORIDA, INC.

EXHIBIT A

REVISED URD TARIFF SHEETS

Nos. 4.113, 4.114, and 4.115

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(2) Contribution by Applicant:

(a) Schedule of Charges:

Company standard design underground residential distribution 120/240 volt single-phase service (see also Part 11.03(7)):

To subdivisions with a density of 1.0 or more
but less than six (6) dwelling units per acre ..... $428.00 per dwelling unit

To subdivisions with a density of six (6) or more
dwelling units per acre ..... $256.00 per dwelling unit

To subdivisions with a density of
six (6) or more dwelling units per acre taking service
at ganged meter pedestals ..... $165.00 per dwelling unit

To multi-occupancy buildings ..... See Part 11.06(2)

(b) The above costs are based upon arrangements that will permit serving the local underground distribution system within the subdivision from overhead feeder mains. If feeder mains within the subdivision are deemed necessary by the Company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the Company the average differential cost between such underground feeder mains within the subdivision and equivalent overhead feeder mains as follows:

Three-phase primary main or feeder charge per trench-foot within subdivision:

(U.G. - Underground, O.H. - Overhead)

#1/0 AWG U.G. vs. #1/0 AWG O.H ..... $ 5.34 per foot

500 MCM U.G. vs. 336 MCM O.H ..... $15.84 per foot

1000 MCM U.G. vs. 795 MCM O.H. ..... $18.62 per foot

The above costs assume that underground feeder construction utilizes system conduit but does not require the use of pad-mounted switchgear(s) or terminal pole(s). If such facilities are required, a differential cost for same will be determined by the Company on an individual basis and added to charges determined above.

(c) Credits (not to exceed the "average differential costs" stated above) will be allowed where, by mutual agreement, the Applicant provides trenching and backfilling for the use of the Company's facilities in lieu of a portion of the cash payment described above. These credits, based on the Company's design drawings, are:

Primary and/or Secondary Systems,
for each Foot of Trench $1.40

Service Laterals,
for each Foot of Trench $1.40

(3) Point of Delivery:

The point of delivery shall be determined by the Company and will be on the side of the building that is nearest the point at which the underground secondary electric supply is available to the property. The point of delivery will only be allowed on the rear of the building by special exception. The Applicant shall pay the estimated full cost of service lateral length required in excess of that which would have been needed to reach the Company's designated point of service.

(4) Location of Meter and Socket:

The Applicant shall install a meter socket at the point designated by the Company in accordance with the Company's specifications. Every effort shall be made to locate the meter socket in unobstructed areas in order that the meter can be read without going through fences, etc.

(5) Development of Subdivisions:

The above charges are based on reasonably full use of the land being developed. Where the Company is required to construct underground electric facilities through a section or sections of the subdivision or development where service will not be required for at least two (2) years, the Company may require a deposit from the Applicant before construction is commenced. This deposit, to guarantee performance, will be based on the estimated total cost of such facilities rather than the differential cost. The amount of the deposit, without interest, in excess of any charges for underground service will be returned to the Applicant on a prorata basis at quarterly intervals on the basis of installations to new customers. Any portion of such deposit remaining unrefunded, after five (5) years from the date the Company is first ready to render service from the extension, will be retained by the company.

(6) Relocation or Removal of Existing Facilities:

If the Company is required to relocate or remove existing overhead and/or underground distribution facilities in the implementation of these Rules, all costs thereof shall be borne exclusively by the Applicant. These costs shall include costs of relocation or removal, the in-place value (less salvage) of the facilities so removed, and any additional costs due to existing landscaping, pavement or unusual conditions.

(7) Other Provisions:

If soil compaction is required by the Applicant at locations where Company trenching is done, an additional charge may be added to the charges set forth in this tariff. The charge will be estimated based on the Applicant's compaction specifications.

11.04 UNDERGROUND SERVICE LATERALS FROM OVERHEAD ELECTRIC DISTRIBUTION SYSTEMS.

(1) New Underground Service Laterals:

When requested by the Applicant, the Company will install underground service laterals from overhead systems to newly constructed residential buildings containing less than five (5) separate dwelling units.

(2) Contribution by Applicant:

(a) The Applicant shall pay the Company the following average differential cost between an overhead service and an underground service lateral:

For Service Lateral up to 80 feet $364.50

For each foot over 80 feet up to 300 feet..... $ 1.26 per foot

Service laterals in excess of 300 feet shall be based on a specific cost estimate.

(b) Credits will be allowed where, by mutual agreement, the Applicant provides trenching and backfilling in accordance with the Company specifications and for the use of the Company facilities, in lieu of a portion of the cash payment described above. These credits, based on the Company's design drawings, are as follows:

For each Foot of Trench ..... $ 1.40

The provisions of Paragraphs 11.03(3) and 11.03(4) are also applicable.

11.05 UNDERGROUND SERVICE LATERALS REPLACING EXISTING RESIDENTIAL OVERHEAD SERVICES:

(1) Applicability:

When requested by the Applicant, the Company will install underground service laterals from existing overhead lines as replacements for existing overhead services to existing residential buildings containing less than five (5) separate dwelling units.

(2) Rearrangement of Service Entrance:

The Applicant shall be responsible for any necessary rearranging of his existing electric service entrance facilities to accommodate the proposed underground service lateral in accordance with the Company's specifications.

(3) Trenching:

The Applicant shall also provide, at no cost to the Company, a suitable trench and perform the backfilling and any landscaping, pavement, or other suitable repairs. If the Applicant requests the Company to supply the trench, the charge to the Applicant for this work shall be based on a specific cost estimate.

(4) Contribution by Applicant:

The charge excluding trenching costs shall be as follows:

For Service Lateral up to 80 feet.....$258.30

For each foot over 80 feet up to 300 feet.....$ 0.82 per foot

Service laterals in excess of 300 feet shall be based on a specific cost estimate.

11.06 UNDERGROUND DISTRIBUTION FACILITIES TO MULTIPLE-OCCUPANCY RESIDENTIAL BUILDINGS:

(1) Availability:

Underground electric distribution facilities may be installed within the tract of land upon which multiple-occupancy residential buildings containing five (5) or more separate dwelling units will be constructed.

(2) Contribution by Applicant:

There will be no contribution from the Applicant so long as the Company is free to construct the extension in the most economical manner, and reasonably full use is made of the tract of land upon which the multiple-occupancy buildings will be constructed. Other conditions will require special arrangements.

(3) Responsibility of Applicant:

(a) Furnish details and specifications of the proposed building or complex of buildings. The Company will use these in the design of the electric distribution facilities required to render service.

(b) Where the Company determines that transformers are to be located inside the building, the Applicant shall provide:

i. The vault or vaults necessary for the transformers and the associated equipment, including the ventilation equipment.

ii. The necessary raceways or conduit for the Company's supply cables from the vault or vaults to a suitable point five (5) feet outside the building in accordance with the Company's plans and specifications.

iii. Conduits underneath all buildings when required for the Company's supply cables. Such conduits shall extend five (5) feet beyond the edge of the buildings for joining to the Company's facilities.

iv. The service entrance conductors and raceways from the Applicant's service equipment to the designated point of delivery within the vault.

EXHIBIT B

REVISED URD TARIFF SHEETS

Nos. 4.113, 4.114 and 4.115

(Legislative Format)

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(2) Contribution by Applicant:

(a) Schedule of Charges:

Company standard design underground residential distribution 120/240 volt single-phase service (see also Part 11.03(7)):

To subdivisions with a density of 1.0 or more
but less than six (6) dwelling units per acre ..... $428~~350~~.00 per dwelling unit

To subdivisions with a density of six (6) or more
dwelling units per acre ..... $256~~24~~.00 per dwelling unit

To subdivisions with a density of
six (6) or more dwelling units per acre taking service
at ganged meter pedestals ..... $165~~30~~.00 per dwelling unit

To multi-occupancy buildings..... See Part 11.06(2)

(b) The above costs are based upon arrangements that will permit serving the local underground distribution system within the subdivision from overhead feeder mains. If feeder mains within the subdivision are deemed necessary by the Company to provide and/or maintain adequate service and are required by the Applicant or a governmental agency to be installed underground, the Applicant shall pay the Company the average differential cost between such underground feeder mains within the subdivision and equivalent overhead feeder mains as follows:

Three-phase primary main or feeder charge per trench-foot within subdivision:

(U.G. - Underground, O.H. - Overhead)

#1/0 AWG U.G. vs. #1/0 AWG O.H ..... $5.34~~4.37~~ per foot

500 MCM U.G. vs. 336 MCM O.H ..... $15.84~~14.23~~ per foot

1000 MCM U.G. vs. 795 MCM O.H. ..... $18.62~~98~~ per foot

The above costs assume that underground feeder construction utilizes system conduit but does not require the use of pad-mounted switchgear(s) or terminal pole(s). If such facilities are required, a differential cost for same will be determined by the Company on an individual basis and added to charges determined above.

(c) Credits (not to exceed the "average differential costs" stated above) will be allowed where, by mutual agreement, the Applicant provides trenching and backfilling for the use of the Company's facilities in lieu of a portion of the cash payment described above. These credits, based on the Company's design drawings, are:

Primary and/or Secondary Systems,
for each Foot of Trench..... $1.4036

Service Laterals,
for each Foot of Trench..... $1.4036

(3) Point of Delivery:

The point of delivery shall be determined by the Company and will be on the side of the building that is nearest the point at which the underground secondary electric supply is available to the property. The point of delivery will only be allowed on the rear of the building by special exception. The Applicant shall pay the estimated full cost of service lateral length required in excess of that which would have been needed to reach the Company's designated point of service.

(4) Location of Meter and Socket:

The Applicant shall install a meter socket at the point designated by the Company in accordance with the Company's specifications. Every effort shall be made to locate the meter socket in unobstructed areas in order that the meter can be read without going through fences, etc.

(5) Development of Subdivisions:

The above charges are based on reasonably full use of the land being developed. Where the Company is required to construct underground electric facilities through a section or sections of the subdivision or development where service will not be required for at least two (2) years, the Company may require a deposit from the Applicant before construction is commenced. This deposit, to guarantee performance, will be based on the estimated total cost of such facilities rather than the differential cost. The amount of the deposit, without interest, in excess of any charges for underground service will be returned to the Applicant on a prorata basis at quarterly intervals on the basis of installations to new customers. Any portion of such deposit remaining unrefunded, after five (5) years from the date the Company is first ready to render service from the extension, will be retained by the company.

(6) Relocation or Removal of Existing Facilities:

If the Company is required to relocate or remove existing overhead and/or underground distribution facilities in the implementation of these Rules, all costs thereof shall be borne exclusively by the Applicant. These costs shall include costs of relocation or removal, the in-place value (less salvage) of the facilities so removed, and any additional costs due to existing landscaping, pavement or unusual conditions.

(7) Other Provisions:

If soil compaction is required by the Applicant at locations where Company trenching is done, an additional charge may be added to the charges set forth in this tariff. The charge will be estimated based on the Applicant's compaction specifications.

11.04 UNDERGROUND SERVICE LATERALS FROM OVERHEAD ELECTRIC DISTRIBUTION SYSTEMS.

(1) New Underground Service Laterals:

When requested by the Applicant, the Company will install underground service laterals from overhead systems to newly constructed residential buildings containing less than five (5) separate dwelling units.

(2) Contribution by Applicant:

(a) The Applicant shall pay the Company the following average differential cost between an overhead service and an underground service lateral:

For Service Lateral up to 80 feet ..... $364.50~~355.00~~

For each foot over 80 feet up to 300 feet..... $ 1.26~~0.60~~ per foot

Service laterals in excess of 300 feet shall be based on a specific cost estimate.

(b) Credits will be allowed where, by mutual agreement, the Applicant provides trenching and backfilling in accordance with the Company specifications and for the use of the Company facilities, in lieu of a portion of the cash payment described above. These credits, based on the Company's design drawings, are as follows:

For each Foot of Trench ..... $ 1.40~~36~~

The provisions of Paragraphs 11.03(3) and 11.03(4) are also applicable.

11.05 UNDERGROUND SERVICE LATERALS REPLACING EXISTING RESIDENTIAL OVERHEAD SERVICES:

(1) Applicability:

When requested by the Applicant, the Company will install underground service laterals from existing overhead lines as replacements for existing overhead services to existing residential buildings containing less than five (5) separate dwelling units.

(2) Rearrangement of Service Entrance:

The Applicant shall be responsible for any necessary rearranging of his existing electric service entrance facilities to accommodate the proposed underground service lateral in accordance with the Company's specifications.

(3) Trenching:

The Applicant shall also provide, at no cost to the Company, a suitable trench and perform the backfilling and any landscaping, pavement, or other suitable repairs. If the Applicant requests the Company to supply the trench, the charge to the Applicant for this work shall be based on a specific cost estimate.

(4) Contribution by Applicant:

The charge excluding trenching costs shall be as follows:

For Service Lateral up to 80 feet.....$258.30 ~~257.20~~

For each foot over 80 feet up to 300 feet.....$ 0.82~~96~~ per foot

Service laterals in excess of 300 feet shall be based on a specific cost estimate.

11.06 UNDERGROUND DISTRIBUTION FACILITIES TO MULTIPLE-OCCUPANCY RESIDENTIAL BUILDINGS:

(1) Availability:

Underground electric distribution facilities may be installed within the tract of land upon which multiple-occupancy residential buildings containing five (5) or more separate dwelling units will be constructed.

(2) Contribution by Applicant:

There will be no contribution from the Applicant so long as the Company is free to construct the extension in the most economical manner, and reasonably full use is made of the tract of land upon which the multiple-occupancy buildings will be constructed. Other conditions will require special arrangements.

(3) Responsibility of Applicant:

(a) Furnish details and specifications of the proposed building or complex of buildings. The Company will use these in the design of the electric distribution facilities required to render service.

(b) Where the Company determines that transformers are to be located inside the building, the Applicant shall provide:

i. The vault or vaults necessary for the transformers and the associated equipment, including the ventilation equipment.

ii. The necessary raceways or conduit for the Company's supply cables from the vault or vaults to a suitable point five (5) feet outside the building in accordance with the Company's plans and specifications.

iii. Conduits underneath all buildings when required for the Company's supply cables. Such conduits shall extend five (5) feet beyond the edge of the buildings for joining to the Company's facilities.

iv. The service entrance conductors and raceways from the Applicant's service equipment to the designated point of delivery within the vault.

EXHIBIT C

DEVELOPMENT OF UPDATED URD COSTS

Schedules from Form PSC/EAG 13

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST ESTIMATE

OVERHEAD vs. UNDERGROUND SUMMARY SHEET

SCHEDULE NO. 1

LOW DENSITY 210 LOT SUBDIVISION
COST PER SERVICE LATERALS

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	286	576	290
Material	361	499	138
TOTAL	647	1075	428

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST DATA

COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

SCHEDULE NO. 2

LOW DENSITY 210 LOT SUBDIVISION

ITEM	MATERIAL	LABOR	TOTAL
Service(2)	53.06	73.06	126.12
Primary	32.16	44.39	76.55
Secondary	48.08	21.36	69.44
Initial Tree Trim	0.00	0.00	0.00
Poles	100.63	41.48	142.11
Transformers	102.69	14.57	117.26
Sub-Total(1)	336.62	194.86	531.48
Stores Handling(3)	24.08	0.00	24.08
Sub-Total	360.70	194.86	555.56
Engineering(4)	0.00	90.76	90.76
TOTAL	360.70	285.62	646.33

1-Includes Sales Tax.

2-Includes Meter.

3-10% of all material except transformer units with a cost of: 83.89
and meters with a cost of: 32.00

4-20% of all matl. and labor except transformer units with a cost of: 89.70
and meters with a cost of: 41.45

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST DATA

COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

SCHEDULE NO. 3

LOW DENSITY 210 LOT SUBDIVISION

ITEM	MATERIAL	LABOR	TOTAL
Service (2)	76.96	65.50	142.46
Primary	102.54	58.81	161.35
Secondary	138.54	69.21	207.75
Transformers	147.55	28.03	175.58
TRENCHING:			
Prim. & Secondary	0.00	123.79	123.79
Service	0.00	75.08	75.08
Sub-Total(1)	465.59	420.42	886.01
Stores Handling(3)	33.08	0.00	33.08
Sub-Total	498.67	420.42	919.09
Engineering(4)	0.00	155.58	155.58
TOTAL	498.67	576.00	1074.68

1-Includes Sales Tax.

2-Includes Meter.

3-10% of all material except transformer units with a cost of: 120.35
and meters with a cost of: 32.00

4-20% of all matl. and labor except transformer units with a cost of: 125.29
and meters with a cost of: 41.45

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST ESTIMATE

OVERHEAD vs. UNDERGROUND SUMMARY SHEET

SCHEDULE NO. 5

HIGH DENSITY 176 LOT SUBDIVISION
COMPANY OWNED SERVICE LATERALS
COST PER SERVICE LATERAL

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	207	387	180
Material	273	349	76
TOTAL	480	736	256

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST DATA

COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

SCHEDULE NO. 6

HIGH DENSITY 176 LOT SUBDIVISION
COMPANY OWNED SERVICE LATERALS

ITEM	MATERIAL	LABOR	TOTAL
Service(2)	60.55	74.61	135.16
Primary	20.00	20.37	40.37
Secondary	33.00	12.95	45.95
Initial Tree Trim	0.00	0.00	0.00
Poles	67.82	25.42	93.24
Transformers	75.06	11.58	86.64
Sub-Total(1)	256.43	144.93	401.36
Stores Handling(3)	16.24	0.00	16.24
Sub-Total	272.67	144.93	417.60
Engineering(4)	0.00	61.75	61.75
TOTAL	272.67	206.68	479.35

1-Includes Sales Tax.

2-Includes Meter.

3-10% of all material except transformer units with a cost of: 62.03
and meters with a cost of: 32.00

4-20% of all matl. and labor except transformer units with a cost of: 67.41
and meters with a cost of: 41.45

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST DATA

COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

SCHEDULE NO. 7

HIGH DENSITY 176 LOT SUBDIVISION
COMPANY OWNED SERVICE LATERALS

ITEM	MATERIAL	LABOR	TOTAL
Service (2)	76.17	63.65	139.82
Primary	33.46	26.04	59.50
Secondary	103.76	45.42	149.18
Transformers	115.88	20.18	136.06
TRENCHING:			
Prim. & Secondary	0.00	74.80	74.80
Service	0.00	57.81	57.81
Sub-Total(1)	329.27	287.90	617.17
Stores Handling(3)	19.98	0.00	19.98
Sub-Total	349.25	287.90	637.15
Engineering(4)	0.00	98.89	98.89
TOTAL	349.25	386.79	736.03

1-Includes Sales Tax.

2-Includes Meter.

3-10% of all material except transformer units with a cost of: 97.51
and meters with a cost of: 32.00

4-20% of all matl. and labor except transformer units with a cost of: 101.26
and meters with a cost of: 41.45

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST ESTIMATE
12/01/05

OVERHEAD vs. UNDERGROUND SUMMARY SHEET

SCHEDULE NO. 8

HIGH DENSITY 176 LOT SUBDIVISION
GANGED METERS
COST PER SERVICE

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	135	249	114
Material	209	260	51
TOTAL	344	509	165

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST DATA

COST PER SERVICE OVERHEAD MATERIAL AND LABOR

SCHEDULE NO. 9

HIGH DENSITY 176 LOT SUBDIVISION
GANGED METERS

ITEM	MATERIAL	LABOR	TOTAL
Service(2)	48.80	41.09	89.89
Primary	17.76	21.18	38.94
Secondary	9.63	3.56	13.19
Initial Tree Trim	0.00	0.00	0.00
Poles	38.10	15.91	54.01
Transformers	83.40	12.83	96.23
Sub-Total(1)	197.69	94.57	292.26
Stores Handling(3)	10.92	0.00	10.92
Sub-Total	208.61	94.57	303.18
Engineering(4)	0.00	40.19	40.19
TOTAL	208.61	134.76	343.37

1-Includes Sales Tax.

2-Includes Meter.

3-10% of all material except transformer units with a cost of: 56.45
and meters with a cost of: 32.00

4-20% of all matl. and labor except transformer units with a cost of: 60.79
and meters with a cost of: 41.45

PROGRESS ENERGY FLORIDA
OVERHEAD/UNDERGROUND RESIDENTIAL COST DATA

COST PER SERVICE UNDERGROUND MATERIAL AND LABOR

SCHEDULE NO. 10

HIGH DENSITY 176 LOT SUBDIVISION
GANGED METERS

ITEM	MATERIAL	LABOR	TOTAL
Service (2)	97.99	62.79	160.78
Primary	32.84	24.82	57.66
Secondary			0.00
Transformers	116.11	20.25	136.36
TRENCHING:			
Prim. & Secondary	0.00	77.52	77.52
			0.00
Sub-Total(1)	246.94	185.38	432.32
Stores Handling(3)	13.32	0.00	13.32
Sub-Total	260.26	185.38	445.64
Engineering(4)	0.00	63.86	63.86
TOTAL	260.26	249.24	509.51

1-Includes Sales Tax.

2-Includes Meter.

3-10% of all material except transformer units with a cost of: 81.72
and meters with a cost of: 32.00

4-20% of all matl. and labor except transformer units with a cost of: 84.87
and meters with a cost of: 41.45

PROGRESS ENERGY FLORIDA
OVERHEAD / UNDERGROUND RESIDENTIAL COST DATA

AVERAGE UNDERGROUND FEEDER COSTS

SCHEDULE NO. 12

1/0 Al. Underground Cable

	Material	Labor	Total
From Computer Study	$23,798.46	$16,695.07	$40,493.53
Stores 10%	$2,379.85	$0.00	$2,379.85
Subtotal			$42,873.38
Engineering & Supervision 20%			$8,575.00
Total			$51,448.38

1/0 AAAC Overhead Conductor

	Material	Labor	Total
From Computer Study	$8,405.16	$10,124.33	$18,529.49
Stores 10%	$840.52	$0.00	$840.52
Subtotal			$19,370.01
Engineering & Supervision 20%			$3,874.00
Total			$23,244.01

Differential = ($51,448.38 - $23,244.01) / 5280

= $5.34 /ft.

FLORIDA POWER CORPORATION
OVERHEAD / UNDERGROUND RESIDENTIAL COST DATA

AVERAGE UNDERGROUND FEEDER COSTS

SCHEDULE NO. 12

500 MCM Al. Underground Cable

	Material	Labor	Total
From Computer Study	$62,763.24	$26,089.82	$88,853.06
Stores 10%	$6,276.32	$0.00	$6,276.32
Subtotal			$95,129.38
Engineering & Supervision 20%			$19,025.88
Total			$114,155.26

336 MCM AAAC Overhead Conductor

	Material	Labor	Total
From Computer Study	$13,567.94	$10,506.35	$24,074.29
Stores 10%	$1,356.79	$0.00	$1,356.79
Subtotal			$25,431.08
Engineering & Supervision 20%			$5,086.22
Total			$30,517.30

Differential = ($114,155.26 - $30,517.30) / 5280

= $15.84 /ft.

FLORIDA POWER CORPORATION
OVERHEAD / UNDERGROUND RESIDENTIAL COST DATA

AVERAGE UNDERGROUND FEEDER COSTS

SCHEDULE NO. 12

1000 MCM Al. Underground Cable

	Material	Labor	Total
From Computer Study	$80,664.06	$29,382.03	$110,046.09
Stores 10%	$8,066.41	$0.00	$8,066.41
Subtotal			$118,112.50
Engineering & Supervision 20%			$23,622.50
Total			$141,735.00

795 MCM AAAC Overhead Conductor

	Material	Labor	Total
From Computer Study	$23,052.67	$10,824.83	$33,877.50
Stores 10%	$2,305.27	$0.00	$2,305.27
Subtotal			$36,182.77
Engineering & Supervision 20%			$7,236.55
Total			$43,419.32

Differential = ($141,735.00 - $43,419.32) / 5280

= $18.62 /ft.

UNDERGROUND SERVICE LATERALS FROM
OVERHEAD ELECTRIC DISTRIBUTION SYSTEMS
Date 12/01/2005

Underground Fixed Costs:	Material	Labor	Total
From Computer Study	$137.27	$266.00	$403.27
Stores 20%	$27.45		$27.45
Engineering 2 hrs. @ $31.80		$63.60	$63.60
Total			$494.32

Underground Excess Costs:	Material	Labor	Total
From Computer Study	$403.07	$634.30	$1,037.37
Stores 20%	$80.61		$80.61
Total (for 300 ft)			$1,117.98

Overhead Fixed Costs:	Material	Labor	Total
From Computer Study	$32.04	$59.57	$91.61
Stores 20%	$6.41		$6.41
Engineering 1 hrs. @ $31.80		$31.80	$31.80
Total			$129.82

Overhead Excess Costs:	Material	Labor	Total
From Computer Study	$461.09	$187.25	$648.34
Stores 20%	$92.22		$92.22
Total (for 300 ft)			$740.56

DIFFERENTIAL

Fixed Underground		$494.32
Fixed Overhead	-	$129.82
Difference		$364.50
Excess Underground		$1,117.98
Excess Overhead	-	$740.56
Difference		$377.42

Excess
Cost per foot:
$ 1.26

UNDERGROUND SERVICE LATERALS REPLACING
EXISTING RESIDENTIAL OVERHEAD SERVICES

date 12/1/2005

Fixed Cost	

Overhead to Underground Service Differential (Calculated Previously)	$364.50
Removal Cost of Overhead Service (From Computer Study)	$33.14
Less Trenching	($132.90)
Depreciated Cost of Overhead Service	$38.15
Salvage of Overhead Service	($44.59)
Total	$258.30
Variable Cost (Based on 220 ft)	

Overhead to Underground Service Differential (Calculated Previously)	$377.42
Less Trenching (From Computer Study)	($299.20)
Removal of Overhead Service (From Computer Study)	$169.32
Depreciated Cost of Overhead Service	$233.95
Salvage of Overhead Service	($302.04)
Total	$179.45
Cost per foot = $179.45 / 220	$0.82

Progress Energy Florida

DISTRIBUTION CONSTRUCTION COSTS — LOW DENSITY OVERHEAD SUBDIVISION - 210 LOTS

DATE: 12/1/2005
PAGE: 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Services					
S301	210	svc 1/cbl,tri w/o po att dev,1/0 al	3.42	28.55	31.97
TSC	210	TAP-UP SECONDARY AND CODE	0.00	20.45	20.45
S31	8820	SERVICE WIRE, 3 WIRE,#1/0AL	17.64	14.81	32.45
USER-INPUT:MTR	210	METER	32.00	9.26	41.26
			53.06	73.06	126.12
*** OH Primary					
WR1	14723	WIRE, #1/0 AAAC AL, ON 700 LB. REEL	10.52	24.71	35.23
V101 M	15	VERT 1PH 0 TO 5 DEG, 1/0 AAAC	1.27	0.58	1.85
V111 M	15	VERT 1PH 6 TO 15 DEG, 1/0AAAC	2.90	0.58	3.48
V121 M	17	VERTICAL 1PH 16 TO 59 DEG 1/0 AAAC	1.93	0.66	2.58
V131 M	2	VERTICAL 1PH 60 TO 90 DEG 1/0 AAAC	0.47	0.15	0.62
V141 M	17	VERTICAL 1 PHASE DEADEND 1/0 AAAC	1.99	0.66	2.65
V151 M	8	VERT 1PH SLACKSPAN, 1/0AAAC	0.67	2.39	3.06
V307 M	2	VERTICAL 3PH 0 TO 5 DEG. 795 AAC	0.63	0.23	0.86
CP	31	USE "CP M" cutout 15kv pole mtd "L" brkt	6.80	2.19	8.98
AP1	10	arr 9 kv w/o bracket (1)	0.89	0.54	1.42
N1E1 M	40	NEUTRAL 1 WIRE EYEBOLT 1/0 AAAC AUTO DE	2.26	1.34	3.61
N1S1S M	6	NEUTRAL 1 WIRE SPOOL&BOLT1/0AAAC SLCKSPN	0.16	1.79	1.96
N101	10	neutral 1 wire no pole attach dev 1/0AL	0.46	0.29	0.74
EN	10	EYE NUT 5/8"	0.05	0.02	0.07
SUPW	9	SETUP PILOT WINDER	0.00	1.51	1.51
SUTT	9	SETUP TENSIONER, TUGGER	0.00	6.04	6.04
KC11	14	COMPRESSION CONN 1/0 STR AL-1/0 STR AL	0.03	0.16	0.19
KC71	2	WEDGE CONN 795 MCM AL 1/0 STR AL	0.24	0.02	0.26
KSC1	10	STEM CONNECTOR 1/0 AL	0.08	0.12	0.20
MSC11	4	MID-SPAN CLAMP 1/0 AAAC TO 1/0 AAAC	0.40	0.17	0.57
MST11	2	MID SPAN TAP 1/0 AAC TO 1/0 AAC	0.21	0.19	0.41
N1C1 M	3	NEUTRAL 1 WIRE CLAMP MESSENGER 1/0 AAAC	0.19	0.05	0.24
			32.16	44.39	76.55

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Secondary					
C3C0 M	19	SEC CBL 3W MESSENGER CLAMP 4/0 AL	1.18	0.32	1.50
C3C1 M	1	SEC CABLE 3/W, MESSENGER CLAMP 1/0 AL	0.06	0.02	0.08
C3E0 M	8	SEC CBL TRIPX W/EYEBOLT4/0AL	0.45	0.27	0.72
C3E1S M	57	SEC CBL TRIPLEX W/EYEBOLT 1/0AL SLCKSPN	4.15	1.91	6.06
C31	2611	AERIAL CABLE, 3 WIRE,#1/0AL	7.09	4.38	11.47
C30	7431	AERIAL CABLE, 3 WIRE, 4/0 AL	32.55	12.47	45.03
EN	69	EYE NUT 5/8"	0.37	0.12	0.49
C301S	15	sec cbl trplx no pole attach 1/0al slack	0.10	0.45	0.56
C3E0S M	5	SEC CBL TRIPLEX W/EYEBOLT 4/0AL SLCKSPN	0.38	0.17	0.55
C3E1 M	4	SEC CBL TRIPX W/EYEBOLTDE 1/0AL	0.23	0.13	0.36
C300	32	sec cbl trplx no pole attach dev 4/0al	1.47	0.97	2.44
C300S	5	sec cbl triplx no pole attach 4/0 slack	0.03	0.15	0.19
			48.08	21.36	69.44
*** OH Poles					
P30	44	POLE WOOD 30' CL 6	16.13	6.65	22.79
P35	2	POLE WOOD 35' CL 5	0.82	0.30	1.12
P45	2	POLE WOOD 45' CL 4	1.99	0.30	2.29
P40	67	POLE WOOD 40' CL 5	48.96	10.13	59.09
FL2	60	REMOVE ONLY - FIBERGLASS LINK 24"	2.98	0.50	3.49
GA111 M	55	GUY ASSY 1PH 1/0AAAC PH 5/16&N 5/16-10"	19.48	19.02	38.49
GD05	6	GUYDOWN, NO LINK, 5/16" GUY WIRE	0.68	0.40	1.08
GD07	6	GUY DOWN, NO LINK, 7/16" GUY WIRE	0.92	0.52	1.44
GS05	18	GUY SPAN, NO LINK, 5/16" GUY WIRE	1.66	1.21	2.87
AN08	9	ANCHOR, SINGLE HELIX, 8"	0.61	0.35	0.96
AN10	54	ANCHOR SINGLE HELIX 10"	6.40	2.08	8.49
			100.63	41.48	142.11

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Transformers					
TA1S25 M	1	XFMRASSY 1PH120/240V 7200Y 1B/C 25KVA	2.62	0.29	2.91
TA1S50 M	14	XFMR ASSY 1PH 120/240V 1 BUSHC 50KVA	44.26	5.38	49.64
TA1D75T M	8	XFMRASSY 1PH120/240V 2B/C75KVA TAPS	46.09	3.50	49.60
GO	35	GROUND, OVERHEAD	4.87	3.11	7.98
G	105	GROUND ROD AND COUPLING	4.49	1.57	6.06
KSP1	35	COMPRESSION STIRRUP, 1/0 STR AL	0.36	0.71	1.06
			102.69	14.57	117.26

MATERIAL DOES NOT INCLUDE STORES CHARGES. LABOR ADJUSTED BY COMPANY BENEFITS LOADING AND PRODUCTIVITY.
LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Services					
US320	6006	SEC CABLE D/B 2/0-2/0-#2 AL	20.02	6.86	26.88
US30	2394	SEC CABLE DB 3C 4/0TPX 600V	12.08	2.73	14.82
US33	420	UG D/B SERVICE CABLE 350-350-4/0 AL	3.32	0.48	3.80
MBR2	210	METER BASE RISER 2"	9.54	25.73	35.27
USER-INPUT:MTR	210	METER	32.00	9.26	41.26
TSC	210	TAP-UP SECONDARY AND CODE	0.00	20.45	20.45
			76.96	65.50	142.47
*** UG Primary					
UP11	17949	PRI CABLE 15 KV, 1PH, 1/0AL	75.21	15.67	90.88
TMP21 M	2	TERMINAL POLE RISER, 2 PH1/0 SOLID AL	1.94	3.19	5.13
TMP11 M	2	TERMINAL POLE RISER, 1 PH1/0 SOLID AL	1.05	2.40	3.45
CA2T	2	cutout & arr 2 ea w/triple mtg brkt t/p	2.03	0.36	2.39
CA1T	2	cutout & arr. w/"t" brkt terminal pole	0.88	0.20	1.08
KSP7	4	WEDGE STIRRUP 795 MCM AL	0.62	0.05	0.67
D425	4500	CONDUIT SCH 40 PVC 2.5"	18.43	8.84	27.27
SUC	25	SETUP TO PULL UG CABLE	0.00	8.59	8.59
GO	4	GROUND, OVERHEAD	0.56	0.36	0.91
V	45	VACUUM - PER 100'	0.00	6.42	6.42
CC1	4500	CABLE, 1 PHASE CABLE IN CONDUIT 500KCM<	0.00	12.54	12.54
APS	3	ARRESTER - PARK STAND	1.82	0.20	2.02
			102.54	58.81	161.35
*** UG Secondary					
UC320	1724	2/0 UG DIRECT BURIAL TRIPLEX CABLE	5.75	1.45	7.19
UC340	10378	4/0 UG D/ B TRIPLEX 4/0-4/0-2/0 AL	52.38	11.85	64.23
UC33	3765	SEC CABLE D/B 3/C 350-350-4/0 AL	29.76	4.30	34.06
D425	3123	CONDUIT SCH 40 PVC 2.5"	12.79	6.13	18.92
V	32	VACUUM - PER 100'	0.00	4.56	4.56
CC1	3123	CABLE, 1 PHASE CABLE IN CONDUIT 500KCM<	0.00	8.70	8.70

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
SUC	24	SETUP TO PULL UG CABLE	0.00	8.25	8.25
ME	62	MARKER ELECTRONIC - WHOOPEE CUSHION	2.32	0.83	3.15
K044W	120	CONNECTOR PED 4 WAY 4/0 WATERPROOF	4.84	2.19	7.03
K060	63	CONNECTOR PEDESTAL 6 WAY 4/0 STR	1.54	1.15	2.69
K065	126	CONNECTOR PEDESTAL 6 WAY 500 MCM	5.98	2.30	8.28
PED8	7	PED SEC FLUSH 12X20	1.34	0.79	2.13
PED7	33	PED SEC FLUSH 9X14	3.25	3.71	6.95
PED4	63	PED SEC 9X14	18.59	2.97	21.57
TSC	103	TAP-UP SECONDARY AND CODE	0.00	10.03	10.03
			138.54	69.21	207.75
***	UG Transformers				
TA1L25 M	2	XFMR ASSY 120/240V PDMT DF LOOP 25KVA	9.45	1.40	10.86
TA1L50 M	7	XFMR ASSY 120/240V PDMT DF LP 50KVA	39.35	4.92	44.26
TA1L75 M	13	XFMR ASSY 120/240V PDMT DF LOOP 75 KVA	84.07	9.13	93.20
K580	84	CONNECTOR XFMR 5/8" STUD 8 WAY 4/0 STR	2.66	1.53	4.19
K065	66	CONNECTOR PEDESTAL 6 WAY 500 MCM	3.13	1.21	4.34
TE1	44	TERMNR LDBRK 200 A, LDBRKELBOW	5.02	7.75	12.77
GU	22	GROUND ROD AND COUPLING	2.66	1.96	4.61
APS	2	ARRESTER - PARK STAND	1.21	0.13	1.35
			147.55	28.03	175.58
***	UG Primary/Secondary Trenching				
TRM	17986	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	123.79	123.79
			0.00	123.79	123.79
***	UG Service Trenching				
TRH	2100	TRENCH BY HAND PER FT, INC BACKFILLNG	0.00	31.73	31.73
TRM	6300	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	43.36	43.36
			0.00	75.08	75.08

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL

MATERIAL DOES NOT INCLUDE STORES CHARGES. LABOR ADJUSTED BY COMPANY BENEFITS LOADING AND PRODUCTIVITY.
LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Transformers Only					
T1S25	1	XFMR 120/240 7200/12470Y 1BC 25KVA	2.32	0.16	2.48
T1S50	14	XFMR 120/240 7200/12470Y 1BC 50KVA	39.88	3.60	43.48
T1D75T	8	XFMR 120/240V 7200/12470Y2B/C 75KVAW/TP	41.70	2.05	43.75
			83.89	5.81	89.71
*** UG Transformers Only					
T1L25	2	XFMR 1PH 120/240V PM DF LOOP, 25KVA	8.31	0.45	8.76
T1L50	7	XFMR 1PH 120/240V PM DF LOOP, 50KVA	35.37	1.57	36.94
T1L75	13	XFMR 1PH 120/240V PM DF LOOP, 75KVA	76.67	2.92	79.59
			120.35	4.94	125.29

MATERIAL DOES NOT INCLUDE STORES CHARGES. LABOR ADJUSTED BY COMPANY BENEFITS LOADING AND PRODUCTIVITY.
LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Services					
S31	4646	SERVICE WIRE, 3 WIRE,#1/0AL	11.09	9.31	20.39
TSC	71	TAP-UP SECONDARY AND CODE	0.00	8.25	8.25
S300	55	svc 1/cbl,w/o pole att dev,4/0 al	4.33	2.75	7.09
S301	71	svc 1/cbl,tri w/o po att dev,1/0 al	1.38	11.52	12.90
USER-INPUT:MTR	176	METER	32.00	9.26	41.26
			48.80	41.09	89.88
*** OH Primary					
WR1	8230	WIRE, #1/0 AAAC AL, ON 700 LB. REEL	7.01	16.48	23.50
CA1	5	cutout & arr (1 ea) pole mtd on "T" brkt	1.94	0.60	2.54
V101 M	23	VERT 1PH 0 TO 5 DEG, 1/0 AAAC	2.32	1.06	3.38
V141 M	23	VERTICAL 1 PHASE DEADEND 1/0 AAAC	3.22	1.06	4.28
N1S1 M	4	NEUTRAL, 1 WIRE, W/SPOOL & BOLT 1/0 AAAC	0.14	0.18	0.32
N101	38	neutral 1 wire no pole attach dev 1/0AL	2.08	1.29	3.38
EN	38	EYE NUT 5/8"	0.25	0.08	0.32
GO	3	GROUND, OVERHEAD	0.50	0.32	0.82
G	6	GROUND ROD AND COUPLING	0.31	0.11	0.41
			17.76	21.18	38.95
*** OH Secondary					
C30	1615	AERIAL CABLE, 3 WIRE, 4/0 AL	8.44	3.23	11.68
C3C0 M	16	SEC CBL 3W MESSENGER CLAMP 4/0 AL	1.19	0.32	1.51
			9.63	3.56	13.18
*** OH Poles					
P45	1	POLE WOOD 45' CL 4	1.19	0.18	1.37
P40	29	POLE WOOD 40' CL 5	25.28	5.23	30.52
GA111 M	25	GUY ASSY 1PH 1/0AAAC PH 5/16&N 5/16-10"	10.56	10.31	20.88

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
FL2	18	REMOVE ONLY - FIBERGLASS LINK 24"	1.07	0.18	1.25
			38.10	15.91	54.01
*** OH Transformers					
TA1S25 M	17	XFMRASSY 1PH120/240V 7200Y 1B/C 25KVA	53.18	5.92	59.11
TA1S50 M	6	XFMR ASSY 1PH 120/240V 1 BUSHC 50KVA	22.63	2.75	25.39
GO	23	GROUND, OVERHEAD	3.82	2.44	6.26
G	69	GROUND ROD AND COUPLING	3.52	1.23	4.75
KSP1	20	COMPRESSION STIRRUP, 1/0 STR AL	0.24	0.48	0.73
			83.40	12.83	96.23

MATERIAL DOES NOT INCLUDE STORES CHARGES. LABOR ADJUSTED BY COMPANY BENEFITS LOADING AND PRODUCTIVITY.
LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Services					
UC33	710	SEC CABLE D/B 3/C 350-350-4/0 AL	6.70	0.97	7.66
UC340	5216	4/0 UG D/ B TRIPLEX 4/0-4/0-2/0 AL	31.41	7.10	38.52
UC320	3313	2/0 UG DIRECT BURIAL TRIPLEX CABLE	13.18	3.32	16.49
CC1	2309	CABLE, 1 PHASE CABLE IN CONDUIT 500KCM<	0.00	7.68	7.68
V	23	VACUUM - PER 100'	0.00	3.91	3.91
SUC	21	SETUP TO PULL UG CABLE	0.00	8.61	8.61
MBR2	63	METER BASE RISER 2"	3.41	9.21	12.63
USER-INPUT:MTR	176	METER	32.00	9.26	41.26
D425	2309	CONDUIT SCH 40 PVC 2.5"	11.28	5.41	16.69
TSC	63	TAP-UP SECONDARY AND CODE	0.00	7.32	7.32
			97.99	62.79	160.78
*** UG Primary					
V	22	VACUUM - PER 100'	0.00	3.74	3.74
CC1	1100	CABLE, 1 PHASE CABLE IN CONDUIT 500KCM<	0.00	3.66	3.66
UP11	4292	PRI CABLE 15 KV, 1PH, 1/0AL	21.46	4.47	25.93
CA1T	4	cutout & arr. w/"t" brkt terminal pole	2.09	0.48	2.57
GO	4	GROUND, OVERHEAD	0.66	0.42	1.09
TMP11 M	4	TERMINAL POLE RISER, 1 PH1/0 SOLID AL	2.51	5.72	8.23
KSP7	4	WEDGE STIRRUP 795 MCM AL	0.74	0.06	0.80
SUC	9	SETUP TO PULL UG CABLE	0.00	3.69	3.69
D425	1100	CONDUIT SCH 40 PVC 2.5"	5.38	2.58	7.95
			32.84	24.82	57.67
*** UG Transformers					
TA1L50 M	1	XFMR ASSY 120/240V PDMT DF LP 50KVA	6.71	0.84	7.54
TA1L75 M	13	XFMR ASSY 120/240V PDMT DF LOOP 75 KVA	100.31	10.89	111.20
GU	14	GROUND ROD AND COUPLING	2.02	1.49	3.50
DC	2	DUST COVER	0.23	0.07	0.30
TE1	28	TERMNR LDBRK 200 A, LDBRKELBOW	3.81	5.89	9.70

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
K580	42	CONNECTOR XFMR 5/8" STUD 8 WAY 4/0 STR	1.58	0.92	2.50
APS	2	ARRESTER - PARK STAND	1.45	0.16	1.61
			116.11	20.25	136.36

*** UG Primary/Secondary Trenching

TRH	315	TRENCH BY HAND PER FT, INC BACKFILLNG	0.00	5.68	5.68
TRM	8748	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	71.84	71.84
			0.00	77.52	77.52

MATERIAL DOES NOT INCLUDE STORES CHARGES. LABOR ADJUSTED BY COMPANY BENEFITS LOADING AND PRODUCTIVITY.
LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Transformers Only					
T1S25	17	XFMR 120/240 7200/12470Y 1BC 25KVA	39.36	2.80	42.16
T1S50	6	XFMR 120/240 7200/12470Y 1BC 50KVA	17.09	1.54	18.63
			56.45	4.34	60.79
*** UG Transformers Only					
T1L50	1	XFMR 1PH 120/240V PM DF LOOP, 50KVA	5.05	0.22	5.28
T1L75	13	XFMR 1PH 120/240V PM DF LOOP, 75KVA	76.67	2.92	79.59
			81.72	3.15	84.87

MATERIAL DOES NOT INCLUDE STORES CHARGES. LABOR ADJUSTED BY COMPANY BENEFITS LOADING AND PRODUCTIVITY.
LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Services					
S31	7392	SERVICE WIRE, 3 WIRE,#1/0AL	17.64	14.81	32.45
TSC	176	TAP-UP SECONDARY AND CODE	0.00	20.45	20.45
S3B1	86	svc 1/cbl tri w/btrfly clamp 1/0 al	9.16	15.50	24.66
USER-INPUT:MTR	176	METER	32.00	9.26	41.26
S301	90	svc 1/cbl,tri w/o po att dev,1/0 al	1.75	14.60	16.35
			60.55	74.61	135.16
*** OH Primary					
WR1	6990	WIRE, #1/0 AAAC AL, ON 700 LB. REEL	5.96	14.00	19.96
AP1	2	arr 9 kv w/o bracket (1)	0.21	0.13	0.34
CA1	4	cutout & arr (1 ea) pole mtd on "T" brkt	1.55	0.48	2.03
N101	26	neutral 1 wire no pole attach dev 1/0AL	1.43	0.89	2.31
V101 M	21	VERT 1PH 0 TO 5 DEG, 1/0 AAAC	2.12	0.97	3.08
V121 M	1	VERTICAL 1PH 16 TO 59 DEG 1/0 AAAC	0.14	0.05	0.18
V201 M	6	VERT 2PH, 0 TO 5 DEG, 1/0AAAC	1.21	0.55	1.76
V307 M	1	VERTICAL 3PH 0 TO 5 DEG. 795 AAC	0.38	0.14	0.52
V241 M	2	VERT 2PH DEADEND #1/0 AAAC	0.56	0.18	0.74
V221 M	1	VERT. 2 PH 16 TO 59 DEG. 1/0 AAAC	0.27	0.09	0.36
V141 M	15	VERTICAL 1 PHASE DEADEND 1/0 AAAC	2.10	0.69	2.79
EN	26	EYE NUT 5/8"	0.17	0.05	0.22
N1E1 M	24	NEUTRAL 1 WIRE EYEBOLT 1/0 AAAC AUTO DE	1.62	0.96	2.58
CP	3	USE "CP M" cutout 15kv pole mtd "L" brkt	0.78	0.25	1.04
AP1	8	arr 9 kv w/o bracket (1)	0.85	0.51	1.36
GO	4	GROUND, OVERHEAD	0.66	0.42	1.09
			20.00	20.37	40.37
*** OH Secondary					
C30	5508	AERIAL CABLE, 3 WIRE, 4/0 AL	28.79	11.03	39.82
C3C0 M	24	SEC CBL 3W MESSENGER CLAMP 4/0 AL	1.78	0.48	2.26
C3E0 M	36	SEC CBL TRIPX W/EYEBOLT4/0AL	2.43	1.44	3.87

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
			33.00	12.95	45.96
*** OH Poles					
P40	43	POLE WOOD 40' CL 5	37.49	7.76	45.25
P30	41	POLE WOOD 30' CL 6	17.94	7.40	25.34
P45	1	POLE WOOD 45' CL 4	1.19	0.18	1.37
GA111 M	24	GUY ASSY 1PH 1/0AAAC PH 5/16&N 5/16-10"	10.14	9.90	20.04
FL2	18	REMOVE ONLY - FIBERGLASS LINK 24"	1.07	0.18	1.25
			67.82	25.42	93.24
*** OH Transformers					
TA1S25 M	4	XFMRASSY 1PH120/240V 7200Y 1B/C 25KVA	12.51	1.39	13.91
TA1S50 M	15	XFMR ASSY 1PH 120/240V 1 BUSHC 50KVA	56.59	6.88	63.47
GO	18	GROUND, OVERHEAD	2.99	1.91	4.90
G	54	GROUND ROD AND COUPLING	2.76	0.96	3.72
KSP1	18	COMPRESSION STIRRUP, 1/0 STR AL	0.22	0.43	0.65
			75.06	11.58	86.64

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LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Services					
UC320	3800	2/0 UG DIRECT BURIAL TRIPLEX CABLE	15.11	3.80	18.92
US30	3240	SEC CABLE DB 3C 4/0TPX 600V	19.51	4.41	23.93
MBR2	176	METER BASE RISER 2"	9.54	25.73	35.27
USER-INPUT:MTR	176	METER	32.00	9.26	41.26
TSC	176	TAP-UP SECONDARY AND CODE	0.00	20.45	20.45
			76.17	63.65	139.82
*** UG Primary					
UP11	4292	PRI CABLE 15 KV, 1PH, 1/0AL	21.46	4.47	25.93
SUC	16	SETUP TO PULL UG CABLE	0.00	6.56	6.56
CC1	1100	CABLE, 1 PHASE CABLE IN CONDUIT 500KCM<	0.00	3.66	3.66
V	11	VACUUM - PER 100'	0.00	1.87	1.87
CA1T	4	cutout & arr. w/"t" brkt terminal pole	2.09	0.48	2.57
TMP11 M	4	TERMINAL POLE RISER, 1 PH1/0 SOLID AL	2.51	5.72	8.23
GO	4	GROUND, OVERHEAD	0.66	0.42	1.09
G	12	GROUND ROD AND COUPLING	0.61	0.21	0.83
KSP7	4	WEDGE STIRRUP 795 MCM AL	0.74	0.06	0.80
D425	1100	CONDUIT SCH 40 PVC 2.5"	5.38	2.58	7.95
			33.46	26.04	59.49
*** UG Secondary					
UC320	959	2/0 UG DIRECT BURIAL TRIPLEX CABLE	3.81	0.96	4.77
UC30	5017	SEC CABLE, DB 3C 4/0-4/0-1/0 AL	30.22	6.83	37.05
UC33	3001	SEC CABLE D/B 3/C 350-350-4/0 AL	28.30	4.09	32.39
PED0	21	PED SEC 12X20	11.27	1.18	12.46
PED4	37	PED SEC 9X14	13.03	2.08	15.11
K040	75	CONNECTOR PEDESTAL 4 WAY 4/0 STR	1.51	1.63	3.15
K031	42	CONNECTOR PED 3 CONDUCTOR 1/0	0.67	0.92	1.58
SUC	22	SETUP TO PULL UG CABLE	0.00	9.02	9.02
CC1	2244	CABLE, 1 PHASE CABLE IN CONDUIT 500KCM<	0.00	7.46	7.46

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
V	22	VACUUM - PER 100'	0.00	3.74	3.74
D425	2244	CONDUIT SCH 40 PVC 2.5"	10.97	5.26	16.22
ME	42	MARKER ELECTRONIC - WHOOPEE CUSHION	1.87	0.67	2.55
K060	72	CONNECTOR PEDESTAL 6 WAY 4/0 STR	2.10	1.57	3.67
			103.76	45.42	149.18
*** UG Transformers					
TA1L50 M	1	XFMR ASSY 120/240V PDMT DF LP 50KVA	6.71	0.84	7.54
TA1L75 M	13	XFMR ASSY 120/240V PDMT DF LOOP 75 KVA	100.31	10.89	111.20
GU	14	GROUND ROD AND COUPLING	2.02	1.49	3.50
TE1	28	TERMNR LDBRK 200 A, LDBRKELBOW	3.81	5.89	9.70
K580	42	CONNECTOR XFMR 5/8" STUD 8 WAY 4/0 STR	1.58	0.92	2.50
APS	2	ARRESTER - PARK STAND	1.45	0.16	1.61
			115.88	20.18	136.06
*** UG Primary/Secondary Trenching					
TRM	9109	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	74.80	74.80
			0.00	74.80	74.80
*** UG Service Trenching					
TRM	7040	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	57.81	57.81
			0.00	57.81	57.81

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LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Transformers Only					
T1S25	4	XFMR 120/240 7200/12470Y 1BC 25KVA	11.05	0.79	11.84
T1S50	15	XFMR 120/240 7200/12470Y 1BC 50KVA	50.98	4.60	55.58
			62.03	5.38	67.42
*** UG Transformers Only					
T1L50	1	XFMR 1PH 120/240V PM DF LOOP, 50KVA	6.03	0.27	6.30
T1L75	13	XFMR 1PH 120/240V PM DF LOOP, 75KVA	91.48	3.49	94.97
			97.51	3.75	101.27

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LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Feeder					
TRM	5280	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	7631.18	7631.18
TRH	200	TRENCH BY HAND PER FT, INC BACKFILLNG	0.00	634.50	634.50
D44	3000	CONDUIT SCH 40 PVC 4"	4470.00	1713.00	6183.00
UP31	16290	PRI CABLE, 15 KV, 3PH, 1/0 AL	15312.60	2182.86	17495.46
CBOM	3	BOX 6-1/2'X4' CONC PULL/SPLICE NO BTM	3049.74	555.77	3605.51
SP211	18	200A 1/0 -/0 SOL 15KV	652.32	446.05	1098.37
SUC	3	SETUP TO PULL UG CABLE	0.00	216.54	216.54
CC3	3000	CABLE, 3 PHASE CABLE IN CONDUIT	0.00	2115.00	2115.00
V	30	VACUUM - PER 100'	0.00	898.64	898.64
GU	6	GROUND ROD AND COUPLING	152.16	112.10	264.26
G	18	GROUND ROD AND COUPLING	161.64	56.53	218.17
CHP	2	TEST HI POT OR PH PRI CBL FOR SETUP	0.00	62.04	62.04
SL	3	SWITCH, UG LOOPS	0.00	70.85	70.85
			23798.46	16695.07	40493.53
*** OH Feeder					
P45	19	POLE WOOD 45' CL 4	3972.52	603.42	4575.94
V301	19	VERT 3PH, 0 TO 5 DEG 1/0 AL	271.51	435.34	706.85
V341	1	VERT 3PH DEADEND 1/0 AAAC	28.95	29.96	58.91
N1S1	19	NEUTRAL 1 WIRE SPOOL&BOLT1/0 AAAC	33.06	113.86	146.92
N1E1	1	NEUTRAL 1 WIRE W/EYEBLT 1/0AAAC AUTO DE	9.65	9.52	19.17
KAT1	15	ARR TAP(AL HOTLINE CLAMP)FOR 1/0 AL	82.50	26.44	108.94
AP1	15	arr 9 kv w/o bracket (1)	279.30	169.20	448.50
GO	5	GROUND, OVERHEAD	146.10	93.41	239.51
G	15	GROUND ROD AND COUPLING	134.70	47.11	181.81
GA311 M	1	GUYASSY3PH1/0AAAC AB&BC5/16N5/16-2H S/G	154.17	101.52	255.69
WR1	21754	WIRE, #1/0 AAAC AL, ON 700 LB. REEL	3263.10	7668.29	10931.39
SUPW	1	SETUP PILOT WINDER	0.00	35.25	35.25
SUTT	2	SETUP TENSIONER, TUGGER	0.00	282.00	282.00
SUTRC	3	SETUP TENSIONER REEL CHANGE	0.00	423.00	423.00
V341	1	REM: VERT 3PH DEADEND 1/0 AAAC	0.00	12.34	12.34
N1E1	1	REM: NEUTRAL 1 WIRE W/EYEBLT 1/0AAAC AUT	0.00	4.23	4.23

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
KST1	4	COMPRESSION SLV AUTO 1/0 AAAC FULL TENS	29.60	25.38	54.98
GA311	1	REM: GUY ASSY 3PH 1/0AAA AB&BCAB/BC 7/16	0.00	44.06	44.06
			8405.16	10124.33	18529.49

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LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Feeder					
TRM	5280	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	7631.18	7631.18
TRH	200	TRENCH BY HAND PER FT, INC BACKFILLNG	0.00	634.50	634.50
D46	5438	CONDUIT SCH 40 PVC 6"	13866.90	3105.10	16972.00
UP35	16290	PRI CABLE, 15 KV 3PH, 500MCM AL	37467.00	5761.77	43228.77
CC3	5438	CABLE, 3 PHASE CABLE IN CONDUIT	0.00	3833.79	3833.79
V	58	VACUUM - PER 100'	0.00	1737.37	1737.37
CBBM	6	BOX6-1/2'X4'CONCPULLSPLC W/BTM METAL LID	8110.98	1854.95	9965.93
SUC	6	SETUP TO PULL UG CABLE	0.00	433.08	433.08
MP	6	IN MANHOLE, PUMP OUT	0.00	188.76	188.76
SP655	18	SPLICE PRI 600AMP 500 STR-500 STR	3004.56	530.95	3535.51
GU	6	GROUND ROD AND COUPLING	152.16	112.10	264.26
G	18	GROUND ROD AND COUPLING	161.64	56.53	218.17
CHP	6	TEST HI POT OR PH PRI CBL FOR SETUP	0.00	186.12	186.12
SL	1	SWITCH, UG LOOPS	0.00	23.62	23.62
			62763.24	26089.82	88853.06
*** OH Feeder					
P45	24	POLE WOOD 45' CL 4	5017.92	762.22	5780.14
V303	24	VERT 3PH, 0 TO 5 DEG, 336AAC	148.56	549.90	698.46
V343	1	VERT 3PH DEADEND, 336 AAC	27.53	22.91	50.44
N1S1	24	NEUTRAL 1 WIRE SPOOL&BOLT1/0 AAAC	41.76	143.82	185.58
N1E1	1	NEUTRAL 1 WIRE W/EYEBLT 1/0AAAC AUTO DE	9.65	9.52	19.17
KAT3	12	ARR TAP(AL HOTLINE CLAMP)FOR 336 AAC	66.00	21.15	87.15
AP1	12	arr 9 kv w/o bracket (1)	223.44	135.36	358.80
GO	4	GROUND, OVERHEAD	116.88	74.73	191.61
G	12	GROUND ROD AND COUPLING	107.76	37.69	145.45
GA333 M	1	GUYASSY 3PH336 A&C 7/16 B7/16-2HN5/16-10	230.10	179.42	409.52
WR3	16314	WIRE 336 AAC AL ON REEL	6688.74	5750.69	12439.43
WR1	5436	WIRE, #1/0 AAAC AL, ON 700 LB. REEL	815.40	1916.19	2731.59
SUPW	1	SETUP PILOT WINDER	0.00	35.25	35.25
SUTT	2	SETUP TENSIONER, TUGGER	0.00	282.00	282.00
SUTRC	3	SETUP TENSIONER REEL CHANGE	0.00	423.00	423.00

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
V343	1	REM: VERT 3PH DEADEND, 336 AAC	0.00	7.05	7.05
N1E1	1	REM: NEUTRAL 1 WIRE W/EYEBLT 1/0AAAC AUT	0.00	4.23	4.23
KST3	3	COMPRESSION SLV FULL TENSION 336 AAC	28.86	19.04	47.90
KST1	1	COMPRESSION SLV AUTO 1/0 AAAC FULL TENS	7.40	6.35	13.75
GA333	1	REM: GUYASSY 3PH 336A/B/C 7/16 B 2H N 5/	0.00	87.42	87.42
GD05	1	GUYDOWN, NO LINK, 5/16" GUY WIRE	23.72	14.10	37.82
AN08	1	ANCHOR, SINGLE HELIX, 8"	14.22	8.11	22.33
GD05	1	REM: GUYDOWN, NO LINK, 5/16" GUY WIRE	0.00	8.11	8.11
AN08	1	REM: ANCHOR, SINGLE HELIX, 8"	0.00	8.11	8.11
			13567.94	10506.35	24074.29

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ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Feeder					
TRM	5280	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	7631.18	7631.18
TRH	200	TRENCH BY HAND PER FT, INC BACKFILLNG	0.00	634.50	634.50
D46	5438	CONDUIT SCH 40 PVC 6"	13866.90	3105.10	16972.00
UP39	16290	PRI CABLE, 15 KV, 3PH, 1000 MCM AL	54245.70	9053.98	63299.68
CC3	5438	CABLE, 3 PHASE CABLE IN CONDUIT	0.00	3833.79	3833.79
V	58	VACUUM - PER 100'	0.00	1737.37	1737.37
CBBM	6	BOX6-1/2'X4'CONCPULLSPLC W/BTM METAL LID	8110.98	1854.95	9965.93
SUC	6	SETUP TO PULL UG CABLE	0.00	433.08	433.08
MP	6	IN MANHOLE, PUMP OUT	0.00	188.76	188.76
SP699	18	SPLICE PRI 600AMP 1000 STR-1000 STR	4126.68	530.95	4657.63
GU	6	GROUND ROD AND COUPLING	152.16	112.10	264.26
G	18	GROUND ROD AND COUPLING	161.64	56.53	218.17
CHP	6	TEST HI POT OR PH PRI CBL FOR SETUP	0.00	186.12	186.12
SL	1	SWITCH, UG LOOPS	0.00	23.62	23.62
			80664.06	29382.03	110046.09
*** OH Feeder					
P40	29	POLE WOOD 40' CL 5	4450.05	921.02	5371.07
V307	29	VERT 3PH, 0 TO 5 DEG, 795AAC	186.47	664.46	850.93
V347	1	VERT 3PH DEADEND 795 AAC	97.39	29.96	127.35
N1S1	29	NEUTRAL 1 WIRE SPOOL&BOLT1/0 AAAC	50.46	173.78	224.24
N1E1	1	NEUTRAL 1 WIRE W/EYEBLT 1/0AAAC AUTO DE	9.65	9.52	19.17
KAT7	12	ARR TAP(AL HOTLINE CLAMP)FOR 795 AAC	107.76	21.15	128.91
AP1	12	arr 9 kv w/o bracket (1)	223.44	135.36	358.80
GO	4	GROUND, OVERHEAD	116.88	74.73	191.61
G	12	GROUND ROD AND COUPLING	107.76	37.69	145.45
GA374 M	1	GUYASSY 3PH 795 A&C7/16 B7/16-3HN5/16-2H	302.39	180.13	482.52
WR7	16315	WIRE 795 ACC AL ON REEL	16478.15	5751.04	22229.19
WR1	5436	WIRE, #1/0 AAAC AL, ON 700 LB. REEL	815.40	1916.19	2731.59
SUPW	1	SETUP PILOT WINDER	0.00	35.25	35.25
SUTT	2	SETUP TENSIONER, TUGGER	0.00	282.00	282.00
SUTRC	3	SETUP TENSIONER REEL CHANGE	0.00	423.00	423.00

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
V347	1	REM: VERT 3PH DEADEND 795 AAC	0.00	12.34	12.34
N1E1	1	REM: NEUTRAL 1 WIRE W/EYEBLT 1/0AAAC AUT	0.00	4.23	4.23
KST7	3	COMPRESSION SLV 795 AAC FULL TENSION	61.53	19.04	80.57
KST1	1	COMPRESSION SLV AUTO 1/0 AAAC FULL TENS	7.40	6.35	13.75
GA374	1	REM: GUY ASSY 3PH 795 ABC 7/16B-3H N-5/1	0.00	89.18	89.18
GD05	1	GUYDOWN, NO LINK, 5/16" GUY WIRE	23.72	14.10	37.82
AN08	1	ANCHOR, SINGLE HELIX, 8"	14.22	8.11	22.33
GD05	1	REM: GUYDOWN, NO LINK, 5/16" GUY WIRE	0.00	8.11	8.11
AN08	1	REM: ANCHOR, SINGLE HELIX, 8"	0.00	8.11	8.11
			23052.67	10824.83	33877.50

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ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Service Fixed					
S3E2	1	svc 1/cbl tri w/ibolt #2 al	5.07	28.91	33.98
S32	87	SERVICE CABLE, 3 WIRE #2 AL	26.97	30.67	57.64
			32.04	59.57	91.61
*** OH Service Removal Fixed					
S3E2	1	REM: svc 1/cbl tri w/ibolt #2 al	0.00	2.47	2.47
S32	87	REM: SERVICE CABLE, 3 WIRE #2 AL	0.00	30.67	30.67
			0.00	33.14	33.14

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LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** OH Service Excess					
S300	1	svc l/cbl,w/o pole att dev,4/0 al	13.86	8.81	22.67
C3E0	1	sec cbl triplx w/eyebolt 4/0al	9.65	6.35	16.00
EN	1	EYE NUT 5/8"	1.14	0.35	1.49
C30S	307	AERIAL CABLE SVC 3W 4/0 AL 600V	282.44	108.22	390.66
P30	2	POLE WOOD 30' CL 6	154.00	63.52	217.52
			461.09	187.25	648.34
*** OH Service Removal Excess					
S300	1	REM: svc l/cbl,w/o pole att dev,4/0 al	0.00	4.23	4.23
C3E0	1	REM: sec cbl triplx w/eyebolt 4/0al	0.00	5.99	5.99
EN	1	REM: EYE NUT 5/8"	0.00	0.35	0.35
C30S	307	REM: AERIAL CABLE SVC 3W 4/0 AL 600V	0.00	108.22	108.22
P30	2	REM: POLE WOOD 30' CL 6	0.00	50.53	50.53
			0.00	169.32	169.32

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LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Service Fixed					
RS111 M	1	RISER SECONDARY 1 SERVICE OH-UG 1PH 1/0	32.80	58.16	90.96
TSC	1	TAP-UP SECONDARY AND CODE	0.00	20.45	20.45
MBR25	1	METER BASE RISER 2 1/2"	20.47	25.73	46.20
US320	120	SEC CABLE D/B 2/0-2/0-#2 AL	84.00	28.76	112.76
TRH	10	TRENCH BY HAND PER FT, INC BACKFILLNG	0.00	31.73	31.73
TRM	70	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	101.17	101.17
			137.27	266.00	403.27

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LABOR = (RATE X 1.51) / 1

ITEM	QTY	DESCRIPTION	MATERIAL	LABOR	TOTAL
*** UG Service Excess					
TRM	290	TRENCH W/TRCHNG MACH P/FTINCL BKFILLNG	0.00	419.14	419.14
TRH	10	TRENCH BY HAND PER FT, INC BACKFILLNG	0.00	31.73	31.73
US340	330	4/0-4/0-2/0 AL D/B TRIPLEX SERVICE CABLE	349.80	79.10	428.90
MBR25	1	METER BASE RISER 2 1/2"	20.47	25.73	46.20
RS111 M	1	RISER SECONDARY 1 SERVICE OH-UG 1PH 1/0	32.80	58.16	90.96
TSC	1	TAP-UP SECONDARY AND CODE	0.00	20.45	20.45
			403.07	634.30	1037.37

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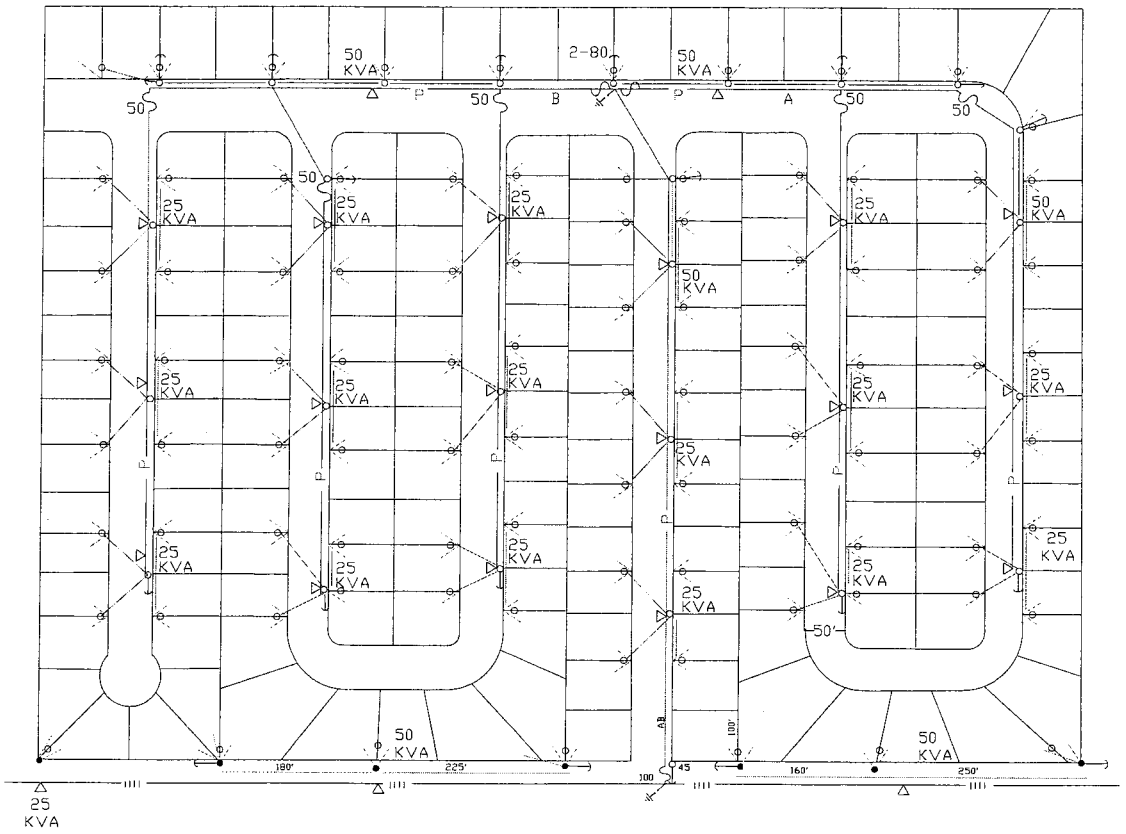
LABOR = (RATE X 1.51) / 1



S:

e homes

8 KVA/lot

VA

VA TOTAL

ARY & NEUTRAL WIRE IS 1/0 AAAC
NDARY CABLE IS 4/0-4/0-1/0 AL
SERVICE CABLE
Y DISTRIBUTION POLES ARE 40'
Y DISTRIBUTION POLES ARE 45'

ES 7% MAKE-UP

LEGEND

- FUSE PULL OFF
- TRANSFORMER STATION
- PRIMARY WIRE
- Secondary/2 FPC Services
- ANCHOR
- CUSTOMER METER POLE/2 CUSTOMER SERVICES
- ARRESTER

SCALE IN FEET

100 0 100

50

(High Density Subdivision)

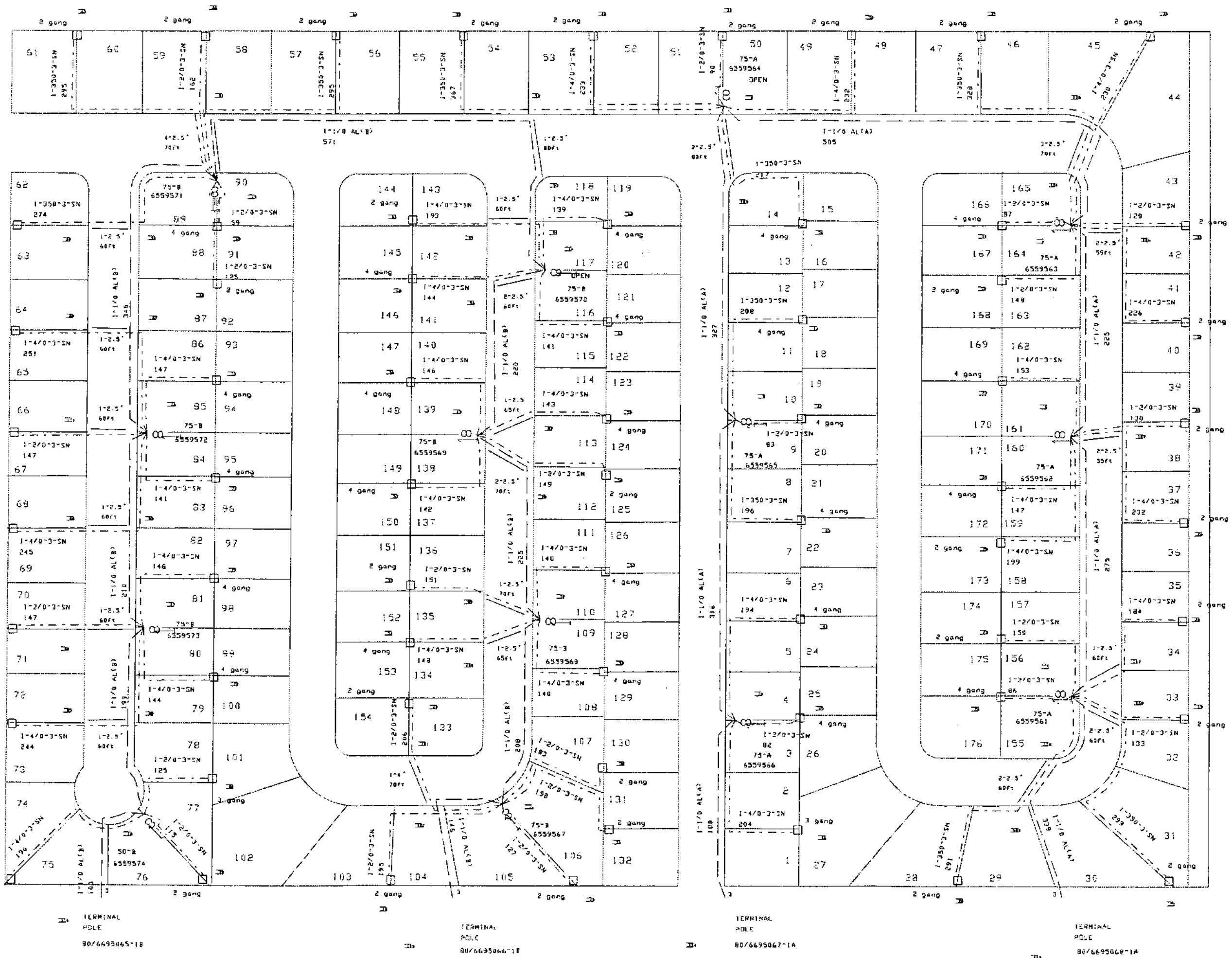
PROGRESS ENERGY FLORIDA
DISTRIBUTION ENGINEERING DEPARTMENT

Typical Mobile Home
Subdivision 176 Lots
OVERHEAD GANGED METERS

W.O. NO. 1245094 DATE 1/27/04
DRAWN T.BYRD CHECKED J. GRIFFIN
APPROVED J. GRIFFIN
SCALE 1"=100' DWG. NO. 176-OHG-01

D SIZE BORDER - 22 X 34

PSC FILING PROJECT
TYPICAL MHP W/
GANGED METERS



PSC FILING PROJECT
TYPICAL MHP W/
GANGED METERS

HIGH DENSITY

NOTES

CLASS 3 MOBILE HOMES
WITH 3.5 TON A/C

5.82 KVA PER LOT

CUSTOMER OWNED METER PEDESTALS

13 X 75 KVA TRANSFORMERS

1 X 50 KVA TRANSFORMERS

14 - 1025 KVA TOTAL

4,776 FT PRIMARY CABLE 1/0

2,909 FT 350-350-4/0 AL DIRECT BURIED
SECONDARY CABLE TO CUSTOMER OWNED
METER PEDESTALS

5,485FT 4/0-4/0-2/0 AL DIRECT BURIED
SECONDARY CABLE TO CUSTOMER OWNED
METER PEDESTALS

3,366 FT 2/0-2/0-2 AL DIRECT BURIED
SECONDARY CABLE TO CUSTOMER OWNED
METER PEDESTALS

WIRE LENGTHS INCLUDE 10% MAKEUP

11,765 FT PRIMARY & SECONDARY TRENCH

LEGEND

3 TERMINAL POLE

FUSED CUTOUT

PAD MOUNT TRANSFORMER

CUSTOMER OWNED TWO, THREE, OR FOUR
GANGED METER PEDESTAL AS NOTED

PRIMARY CABLE

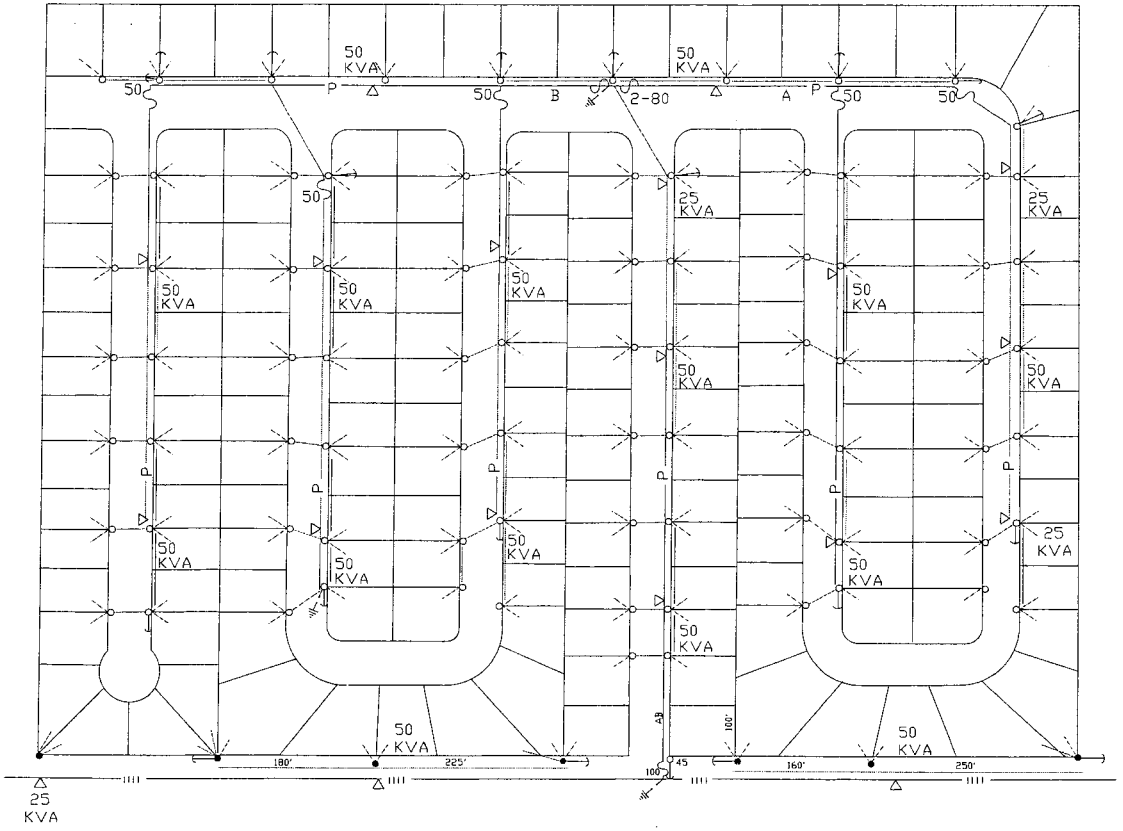
SECONDARY CABLE

CROSSING CONDUIT

WORK LOCATION NUMBER

PSC FILING PROJECT
TYPICAL MHP W/
GANGED METERS

PROGRESS ENERGY - FLORIDA



E HOMES

8 KVA/LOT

TOTAL

& NEUTRAL WIRE IS 1/0 AAAC.

DARY CABLE 4/0AL.

ES 1/0 AL.

1 – PRIMARY DISTRIBUTION POLES ARE 45'

43 – PRIMARY DISTRIBUTION POLES ARE 40'

41 – SECONDARY POLES ARE 30'

LEGEND

- FUSE PULL OFF
- TRANSFORMER STATION
- P — PRIMARY WIRE
- SECONDARY/2 FPC SERVICES
- ANCHOR
- ARRESTER AND GROUND

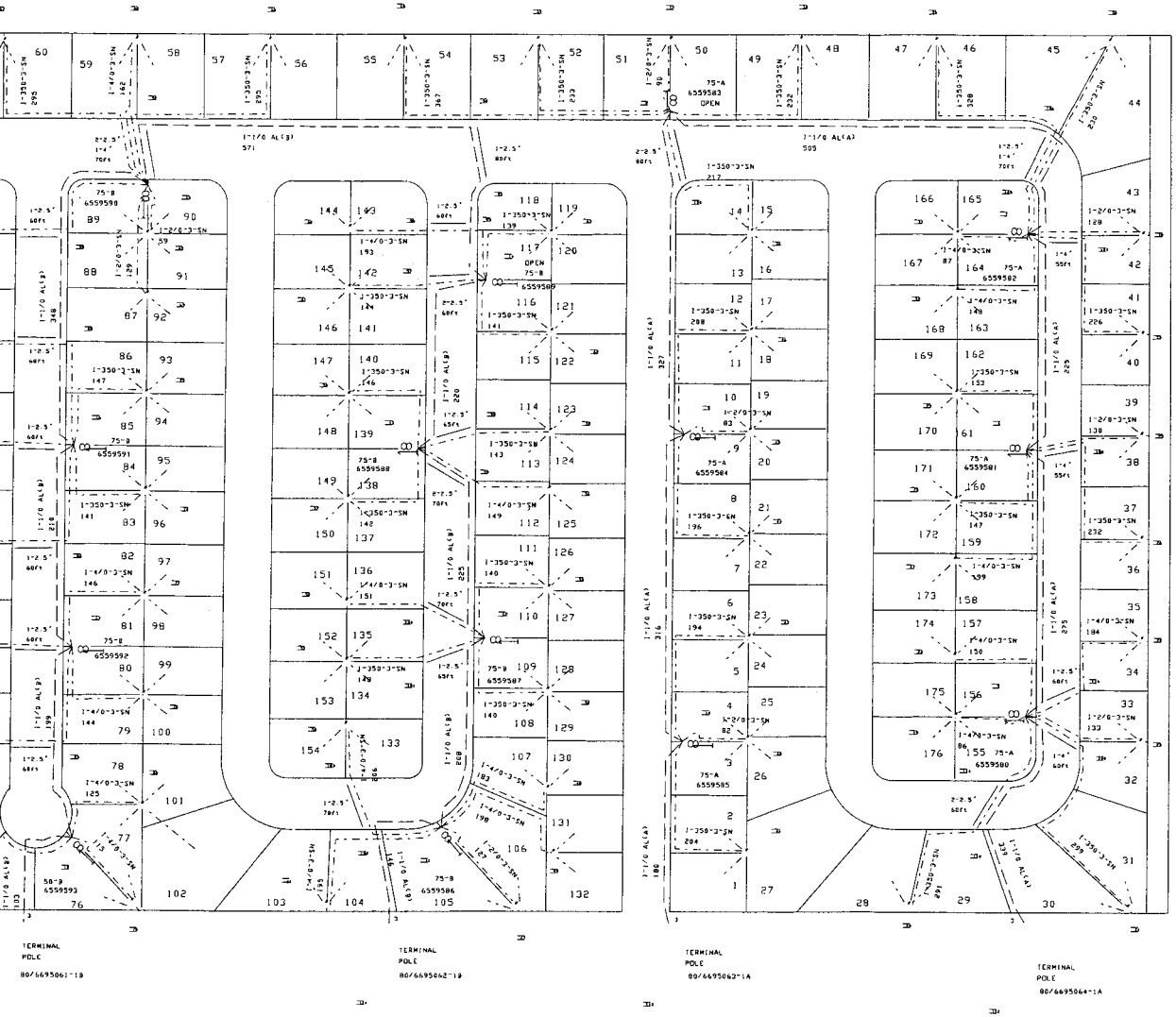
(HIGH DENSITY SUBDIVISION)

PROGRESS ENERGY FLOIRDA
DISTRIBUTION ENGINEERING DEPARTMENT

Typical Mobile Home
Subdivision 176 Lots
OVERHEAD INDIVIDUAL

W.O. NO. 1244819 DATE 6/7/01
DRAWN T.BYRD CHECKED
APPROVED E. E. BAKER
SCALE 1" = 100' DWG. NO. 176ohi-01

D SIZE BORDER - 22 x 34



PSC FILING PROJECT TYPICAL MHP WITH INDIVIDUAL SERVICES

NOTES:

176 LOTS

CLASS 'B' MOBILE HOMES
WITH 3.5 TON A/C

5.82 KVA PER LOT

13 - 75 KVA TRANSFORMERS
1 - 50 KVA TRANSFORMER
14 - 1025 KVA TOTAL

4,777 FT PRIMARY CABLE 1/0 AL

1,159 FT 2/0-2/0-1/0 AL
SECONDARY CABLE TO FP PEDESTALS

3,116 FT 4/0-4/0-1/0 AL
SECONDARY CABLE TO FP PEDESTALS

7,404.40 FT 350-350-4/0 AL
SECONDARY CABLE TO FP PEDESTALS

63 FP PEDESTALS

WIRE LENGTHS INCLUDE 10% MAKEUP

11,911 FT PRIMARY & SECONDARY TRENCH

LEGEND

- TERMINAL POLE
- FUSED CUTOUT
- PAD MOUNTED TRANSFORMER
- SECONDARY PEDESTAL
- PRIMARY CABLE
- SECONDARY CABLE
- CONDUIT CROSSING
- WORK LOCATION NUMBER

(HIGH DENSITY SUBDIVISION 7.0)

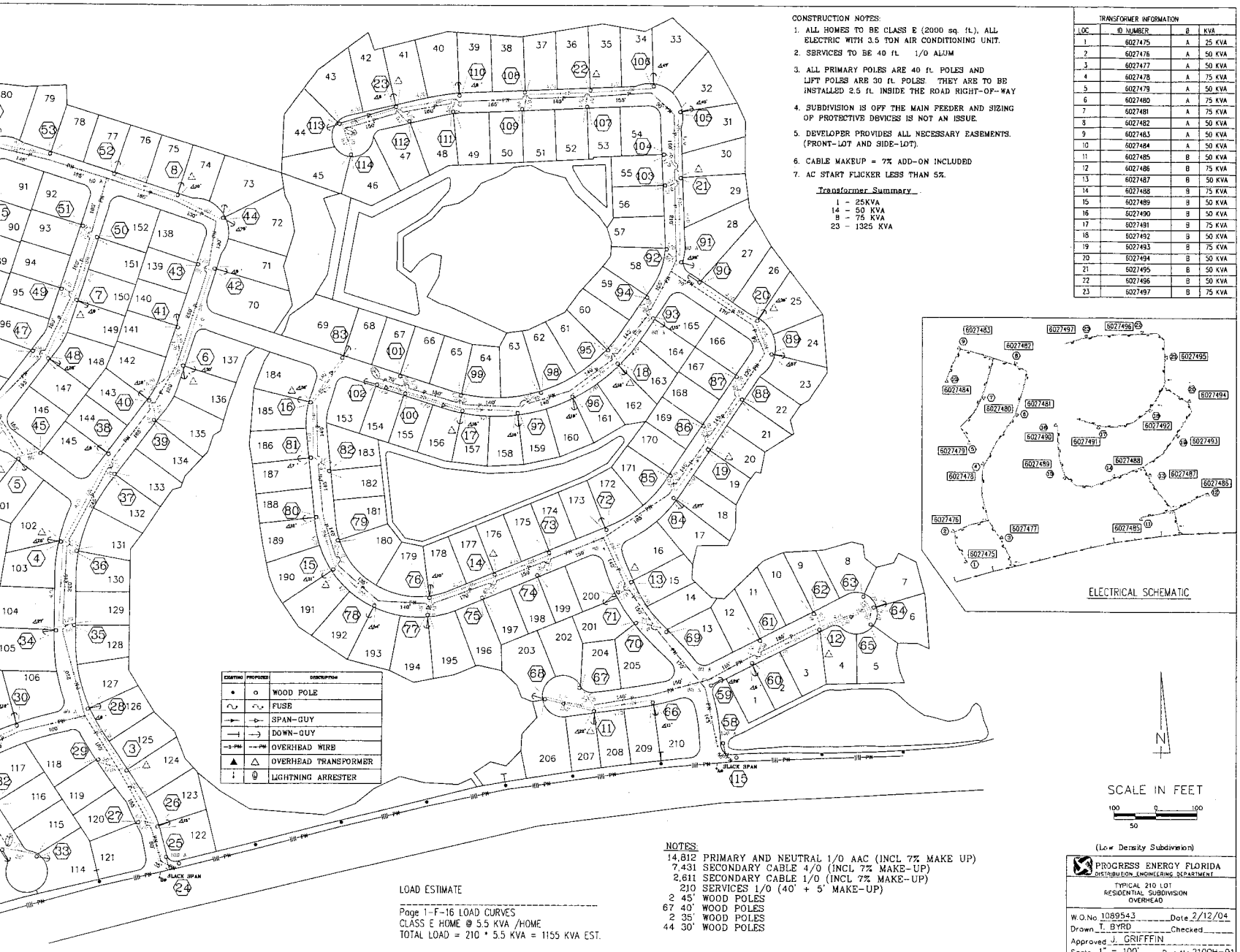
ADDRESS:
CONTACT:
SEE WORK AREA:
SEC TWP RNG
DIVISION:
REVISIONS

PSC FILING PROJECT
TYPICAL MHP WITH
INDIVIDUAL SERVICES

PROGRESS ENERGY - FLORIDA

NORTH

WORK REQUEST
APPROVED
SHEET
DRAWN BY
APPROVED
CHECKED
DATE
OF
DESIGNING ENGINEER
SCALE



CONSTRUCTION NOTES:

1. ALL HOMES TO BE CLASS E (2000 sq. ft.), ALL ELECTRIC WITH 3.5 TON AIR CONDITIONING UNIT.
2. SERVICES TO BE 40 ft. 1/0 ALUM
3. ALL PRIMARY POLES ARE 40 ft. POLES AND LIFT POLES ARE 30 ft. POLES. THEY ARE TO BE INSTALLED 2.5 ft. INSIDE THE ROAD RIGHT-OF-WAY
4. SUBDIVISION IS OFF THE MAIN FEEDER AND SIZING OF PROTECTIVE DEVICES IS NOT AN ISSUE.
5. DEVELOPER PROVIDES ALL NECESSARY EASEMENTS. (FRONT-LOT AND SIDE-LOT).
6. CABLE MAKEUP = 7% ADD-ON INCLUDED
7. AC START FLICKER LESS THAN 5%.

Transformer Summary

1 - 25KVA
14 - 50 KVA
8 - 75 KVA
23 - 1325 KVA

TRANSFORMER INFORMATION			
LOC	ID NUMBER	Ø	KVA
1	6027475	A	25 KVA
2	6027476	A	50 KVA
3	6027477	A	50 KVA
4	6027478	A	75 KVA
5	6027479	A	50 KVA
6	6027480	A	75 KVA
7	6027481	A	75 KVA
8	6027482	A	50 KVA
9	6027483	A	50 KVA
10	6027484	A	50 KVA
11	6027485	B	50 KVA
12	6027486	B	75 KVA
13	6027487	B	50 KVA
14	6027488	B	75 KVA
15	6027489	B	50 KVA
16	6027490	B	50 KVA
17	6027491	B	75 KVA
18	6027492	B	50 KVA
19	6027493	B	75 KVA
20	6027494	B	50 KVA
21	6027495	B	50 KVA
22	6027496	B	50 KVA
23	6027497	B	75 KVA

ELECTRICAL SCHEMATIC

EXISTING	PROPOSED	DESCRIPTION
•	o	WOOD POLE
∿	∿	FUSE
→←	→←	SPAN-GUY
⊣	→	DOWN-GUY
-3-PH-	-3-PH-	OVERHEAD WIRE
▲	△	OVERHEAD TRANSFORMER
↓	⊕	LIGHTNING ARRESTER

LOAD ESTIMATE

Page 1-F-16 LOAD CURVES
CLASS E HOME @ 5.5 KVA /HOME
TOTAL LOAD = 210 * 5.5 KVA = 1155 KVA EST.

NOTES:

14,812 PRIMARY AND NEUTRAL 1/0 AAC (INCL 7% MAKE UP)
7,431 SECONDARY CABLE 4/0 (INCL 7% MAKE-UP)
2,611 SECONDARY CABLE 1/0 (INCL 7% MAKE-UP)
210 SERVICES 1/0 (40' + 5' MAKE-UP)
2 45' WOOD POLES
67 40' WOOD POLES
2 35' WOOD POLES
44 30' WOOD POLES

N

SCALE IN FEET

100 0 100
50

(Low Density Subdivision)

PROGRESS ENERGY FLORIDA
DISTRIBUTION ENGINEERING DEPARTMENT

TYPICAL 210 LOT
RESIDENTIAL SUBDIVISION
OVERHEAD

W.O.No 1089543 Date 2/12/04
Drawn T. BYRD Checked
Approved J. GRIFFFIN
Scale 1" = 100' Dwg.No 2100H-01

D SIZE BORDER - 22 X 34

PSC FILING PROJECT
TYPICAL
UG RESIDENTIAL S/D

TRANSFORMER SUMMARY	
15-75KVA =	1125KVA
10-50KVA =	500KVA
3-25KVA =	75KVA
TOTAL =	1700KVA

NOTES:

15,868' PRIMARY CABLE 1/0 AL
1,390' SECONDARY CABLE TO FP PEDESTALS 350 AL
5,289' SECONDARY CABLE TO FP PEDESTALS 4/0 AL
6,578' SECONDARY CABLE TO FP PEDESTALS 2/0 AL
56 SECONDARY PEDESTALS UPRIGHT (9" X 14")
41 SECONDARY PEDESTALS FLUSHMOUNT (11" X 17")
17,145' PRIMARY AND SECONDARY TRENCHING
210 SERVICES 2/0 AL (40' + 15')
8400' SERVICE TRENCHING (210 @ 40')

CONSTRUCTION NOTES:

01. JOB SAFETY BRIEFING TO BE HELD BEFORE JOB BEGINS.
02. THIS WORK ORDER WILL PROVIDE FOR 120/240V-1PH UNDERGROUND SERVICE TO
A NEW 210 LOT SUBDIVISION.
SUBDIVISION NAME = TYPICAL UG RESIDENTIAL S/D
SUBDIVISION DENSITY = 2.75 DWELLING UNITS PER ACRE. TOTAL NET ACRES = 76.3
TOTAL LOAD = 210 X 6.79 KVA PER HOME = 1426 KVA EST.
03. DISTRIBUTION FACILITIES DESIGNED FOR CLASS E HOMES WITH 3.5 TON A/C UNITS.
04. PROPOSED UNDERGROUND PRIMARY CABLE = 1/0AL-1PH DIRECT BURIED WITH NO SPARE
DUCT UNLESS OTHERWISE NOTED.
05. PROPOSED UNDERGROUND SECONDARY CABLE WILL BE SIZED AS SHOWN.
06. PROPOSED UNDERGROUND SERVICE CABLE = 2/0-2/0-2AL UNLESS OTHERWISE NOTED.
07. SECONDARY PEDESTALS = 9"X14" UPRIGHT (2 SERVICES) AND 11"X17" FLUSHMOUNT (1 SERVICE).
08. EASEMENTS REQUIRED (PLATTED).
09. 10' EASEMENT ALONG RIGHT-OF-WAY.

PSC FILING PROJECT
TYPICAL
UG RESIDENTIAL S/D
PROGRESS ENERGY - FLORIDA

SUMMARY OF REASONS FOR CHANGES IN UPDATED URD CHARGES

effective 4/1/2004.

The new costs are as follows:

Subdivision of 1.0 to 6.0 density	$428 up from $350; 22% increase
Subdivision greater than 6.0 density	$256 up from $224; 14% increase
Subdivision greater than 6.0 densities ganged meters	$165 up from $130; 27% increase

11.03 (2) (b):

New: The average differentials for 3-phase underground vs. 3-phase overhead lines within a subdivision changed some up and some down with the largest increases resulting from Materials and Stores Loading. The increased contract labor rates mentioned above apply to these prices also.

1/0 ug vs. 1/0 oh	$5.34 per foot	up from	$4.37; 22% increase
500 ug vs. 336 oh	$15.84 per foot	up from	$14.23; 11% increase
1000 ug vs. 795 oh	$18.62 per foot	up from	$18.08; 3% increase

11.03 (2) (c):

Credit for customer trenching is adjusted up to the new contract price.
$1.40 per foot up from $1.36 per foot.

11.04 (2) (a):

New: The cost for an underground service from an overhead source will change to a slightly higher number. The increase in conduit usage in addition to increased labor costs have contributed to these increases.

New cost for service up to 80': $364.5 up from $355
Cost for an extra foot from 81' to 300': $1.26 per foot up from $0.60 per foot.

11.04 (2) (b):

Credit for customer trenching is adjusted up to the new contract price.
$1.40 per foot, up from $1.36 per foot.

11.05 (4):

New: The cost for an underground service replacing an overhead service remained nearly the same. Most of the contract labor rate increases don't apply here since the customer supplies the trenching.

New cost for a service conversion up to 80' $258.30 up from $257.20

New cost for extra footage from 81' to 300' $0.82 down from $0.96