



Halff Associates

ENGINEERS • ARCHITECTS • SCIENTISTS
PLANNERS • SURVEYORS

REC'D OCT 8 1996

8616 NORTHWEST PLAZA DRIVE
DALLAS, TEXAS 75225
(214) 739-0094
FAX (214) 739-0095

John Baumgartner P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001-0144

October 7, 1996
AVO 15787

Ref: 5656 Celestial Road (Daseke tract)

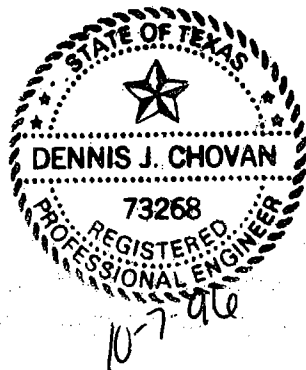
Mr. Baumgartner;

Enclosed is a revised copy of the flood plain delineation, showing erosion control and reclamation, along with the revised plat for the Don Daseke tract at 5656 Celestial Road. The proposed improvements to the existing structure, and erosion control measures, will have no adverse effects on the 100 year water surface elevations in this area. If you have any questions or need additional information please do not hesitate to call.

Sincerely,

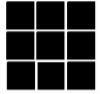
HALFF ASSOCIATES INC.

Dennis J. Chovan P.E.



DALLAS • FORT WORTH • HOUSTON • McALLEN

TRANSPORTATION • WATER RESOURCES • LAND DEVELOPMENT • MUNICIPAL • ENVIRONMENTAL • STRUCTURAL
MECHANICAL • ELECTRICAL • SURVEYING • GEOGRAPHIC INFORMATION SYSTEMS
ARCHITECTURE • LANDSCAPE ARCHITECTURE • PLANNING



Halff Associates

ENGINEERS • ARCHITECTS • SCIENTISTS
PLANNERS • SURVEYORS

8616 NORTHWEST PLAZA DRIVE
DALLAS, TEXAS 75225
(214) 739-0094
FAX (214) 739-0095

John Baumgartner P.E.
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001-0144

September 10, 1996
AVO 15787

Ref: 5656 Celestial Road

Mr. Baumgartner;

Enclosed is a copy of the flood plain delineation and plat for the Don Daseke tract at 5656 Celestial Road. The delineation of the flood plain is based on the enclosed Hec-Ras model using 100 year fully developed flows for Noel Branch and the 100 year water surface elevation as shown in the Flood Plain Management Study for White Rock Creek, prepared by Halff Associates in December 1989. The controlling 100 year water surface elevations are a result of backwater effects from White Rock Creek.

Since the finished floor elevation of the structure is 562.28 feet and the 100 year water surface elevation at this location is 555.50 feet, due to backwater, the proposed improvements to the existing structure should have no adverse effects on the water surface elevations in this area. If you have any questions or need additional information please do not hesitate to call.

Sincerely,

HALFF ASSOCIATES INC.

Dennis J. Chovan P.E.

DAL-TECH
ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS / SURVEYORS
CONSTRUCTION MANAGERS

December 4, 1995

Mr. Jeff Hicks
Llano Construction
1475 Richardson Drive
Suite 245
Richardson, Texas 75080

RE: Celestial Place
Sewer Line Staking
DTE Job No. 9313

Dear Jeff:

On July 7, 1994, we staked the sewer line from the cul-de-sac to the East property line where the existing manhole was located. A few days ago, we learned that you discovered that the sewer line has not been built in the easement.

We studied our field notes of July 7, 1994, as well as the computer data which was downloaded directly from the field notes to our computer, and learned that the sewer line was correctly staked and the closest distance to the North side of the easement adjacent to Lot 8 was a minimum of 3 feet. The details of this information are further exhibited in the attached field notes, computer printout and sketch.

We are not sure how the alignment of the line may have changed during construction. However, we are certain that this easement, with respect to lot lines 7 and 8 of Block B, were correctly staked. This is also confirmed by plotting the field easement on our plat.

Although we are not responsible for restaking of the subject sewer line, we have agreed to help you out by restaking this line free of charge, per your request. Please let me know when to schedule our crew for this work.

If you have any questions, please feel free to contact us.

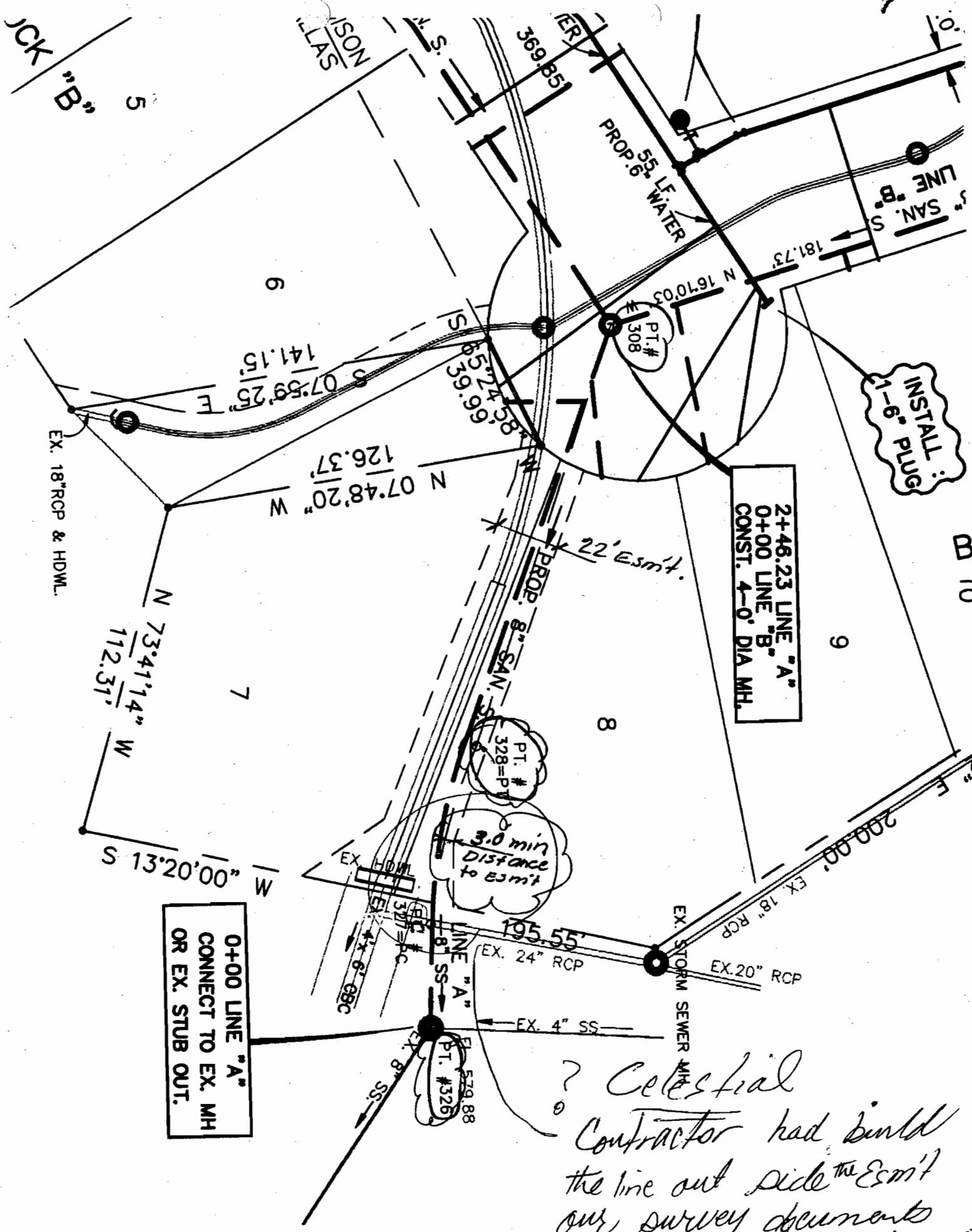
Sincerely,



Sedi A. Toumani, P.E.

SAT:lm
enclosures

cc: Mr. John Baumgartner
City of Addison



2+46.23 LINE "A"
 0+00 LINE "B"
 CONST. 4'-0" DIA. MH.

INSTALL:
 1-6" PLUG

0+00 LINE "A"
 CONNECT TO EX. MH
 OR EX. STUB OUT.

3.0 min
 distance
 to esmt

? Celestial
 Contractor had build
 the line out side the Esmt
 our survey documents
 shows staked 30' inside Esmt.

Point	Northing	Easting	Elevation	Note
305	4558.725767	5223.758422	159.000	CALL
306	4679.533675	5304.121407	0.000	CALL
307	4740.051742	5286.576502	0.000	CALL
308	4619.100985	5321.641560	0.000	CALL ←
309	4793.643888	5271.039504	0.000	CALL
310	4428.130255	5012.030848	0.000	CALL
311	4599.589059	5198.561135	0.000	CALL
312	4638.400578	5261.484191	602.300	CALL
313	4645.177956	5264.097042	0.000	CALL
314	4766.665582	5228.876363	0.000	CALL
315	4640.795823	5265.367475	0.000	CALL
316	4643.420706	5269.623058	0.000	CALL
317	4672.294418	5316.434475	0.000	CALL
318	4469.653458	4987.903439	0.000	CALL
319	4430.607696	4953.560631	0.000	CALL
320	4663.846666	5258.684762	0.000	CALL
321	4595.872487	5295.986332	594.674	3' O/S
322	4592.743558	5348.876868	592.863	3' O/S
323	4655.336420	5357.745103	595.139	3' O/S
324	4670.805228	5318.643479	595.561	3' O/S
325	4419.358809	5333.971252	600.124	TRAV. PT. 325
326	4552.941496	5556.396911	586.454	EXIST MH_SAN ←
327	4553.892949	5521.529890	0.000	CALL ←
328	4570.655418	5462.045350	0.000	CALL ←
329	4896.682947	5277.942058	0.000	CALL
330	4727.387207	5079.027015	0.000	CALL
331	4759.965430	5191.399873	0.000	CALL
332	4772.579943	5223.961822	0.000	CALL
333	4495.460434	5018.315294	0.000	CALL
334	4562.788611	5229.404032	597.652	265.0
335	4568.033439	5237.914166	597.132	275.0
336	4583.345606	5262.551598	596.788	304.0
337	4589.558334	5272.809484	596.364	316.0
338	4661.393987	5257.847645	599.866	395.0
339	4671.067972	5255.039653	600.284	405.0
340	4764.896973	5223.136682	604.976	LOT 3/4 B-A FRT
341	4643.779866	5258.241858	598.899	LOT 4 B-A FRT.
342	4604.649486	5195.443171	600.206	LOT 4/5 B-A FRT
343	4573.198715	5144.337442	602.475	LOT 5/6 B-A FRT
344	4541.683854	5093.310029	605.519	LOT 6/7 B-A FRT
345	4510.175260	5042.279389	608.291	LOT 7/8 B-A FRT
346	4495.637916	5017.645754	610.727	LOT 8 B-A FRT
347	4495.153093	4980.983214	612.204	LOT 8/9 B-A FT
348	4422.687240	4957.207306	613.076	LOT 9/1 B-A-B FT
349	4411.170712	5033.143821	613.144	L1/2 B-B FT
350	4444.510324	5048.435760	608.506	L 2 B-B FT
351	4459.007163	5074.465486	606.791	L 2/3 B-B FT
352	4490.798031	5124.243743	603.521	L 3/4 B-B FT
353	4522.068114	5175.917073	600.403	L 4/5 B-B FT.
354	4553.634304	5226.894689	598.114	L 5/6 B-B FT

9313

Celest - File
Celestial
San Sew. Line A

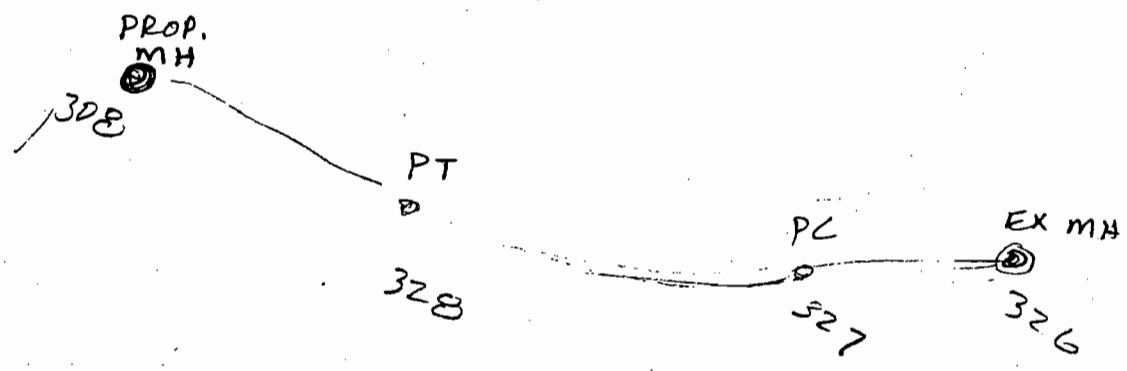
1/2
7-7-94
HOT
GARCIA
SAENZ

Te 325
BS 2
FS 333
493

Ream

Pt List 326 - 0+00
327 0+60.93
San Sew. RT 327 - 328 R=200' Beg STA 0+00 of LT Sec w 10'
328
3.17% 308

STA	INT	Grade	C/F
0+00	—	579.88	
0+34.88	34.88	580.99	C-6 ²²
0+65	30.12	581.94	C-5 ¹¹
0+97.84		582.98	C-7 ⁹⁶
1+50		584.64	C-7 ⁶⁸
2+00		586.22	C-8 ²⁷
2+46.23		587.70	C-7 ⁵⁰





September 20, 1996

John R. Baumgartner
Director of Public Works
Town of Addison
P.O. Box 144
Addison, Texas 75001

Dear John:

The City of Dallas Water Utilities Department has reviewed your request for reciprocal wastewater service to the single family residence in Addison at 5656 Celestial Road, and is agreeable to providing the service. The property owner should contact Mattie Wade, phone 214-948-4535, Dallas Water Utilities' Permits Section, 320 E. Jefferson, Room 118, to make the arrangements for the connection and permit.

Dallas Water Utilities will bill the customer monthly based on readings of Addison's retail water meter serving the residence. As required by the reciprocal agreement, the rate for the service will be Dallas' retail wastewater rate.

Please feel free to call me if you have any questions or if I can be of further assistance.

Sincerely,

Phillip L. Boyd
Manager
Wholesale Services

pb

c: Roger E. Proza, City of Dallas
Jim Milstead, City of Dallas

Water Utilities Department

Wholesale Services • City Hall, 1500 Marilla, Room 4AN • Dallas, Texas 75201 • 214/670-5888 • Fax 214/670-3154
A city utility providing regional water and wastewater services vital to public health and safety.

C.D.: John Freeman ✓
9-20-96



City of Dallas

September 20, 1996

John R. Baumgartner
Director of Public Works
Town of Addison
P.O. Box 144
Addison, Texas 75001

Dear John:

The City of Dallas Water Utilities Department has reviewed your request for reciprocal wastewater service to the single family residence in Addison at 5656 Celestial Road, and is agreeable to providing the service. The property owner should contact Mattie Wade, phone 214-948-4535, Dallas Water Utilities' Permits Section, 320 E. Jefferson, Room 118, to make the arrangements for the connection and permit.

Dallas Water Utilities will bill the customer monthly based on readings of Addison's retail water meter serving the residence. As required by the reciprocal agreement, the rate for the service will be Dallas' retail wastewater rate.

Please feel free to call me if you have any questions or if I can be of further assistance.

Sincerely,

Phillip L. Boyd
Manager
Wholesale Services

pb

c: Roger E. Proza, City of Dallas
Jim Milstead, City of Dallas

Water Utilities Department

Wholesale Services • City Hall, 1500 Marilla, Room 4AN • Dallas, Texas 75201 • 214/670-5888 • Fax 214/670-3154
A city utility providing regional water and wastewater services vital to public health and safety.

TOWN OF
ADDISON

PUBLIC WORKS

To: John Freeman

From: **John Baumgartner, P.E.**

Company: _____

Director

Phone: 972/450-2886

FAX #: 327-0198

FAX: 972/450-2837

Date: 9/20/96

16801 Westgrove

P.O. Box 144

of pages (including cover): 2

Addison, TX 75001

Original in mail

Per your request

FYI

Call me

Comments:

facsimile
TRANSMITTAL

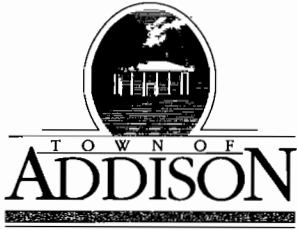
to: John Baumgartner
fax #: 450-2837
re: Reciprocal Wastewater Service to 5656 Celestial Road
date: September 20, 1996
pages: 2, including this cover sheet.

The letter approving the reciprocal service follows. Please call me if you have any questions.
Thanks!

From the desk of...

Phillip L. Boyd
Manager of Wholesale Services
City of Dallas Water Utilities Department
1500 Marilla Street, Room 4AN
Dallas, Texas 75201

(214) 670-5887
Fax: (214) 670-3154



PUBLIC WORKS DEPARTMENT

Post Office Box 144 Addison, Texas 75001

(214) 450-2871

16801 Westgrove

MEMORANDUM

September 19, 1996

To: Carmen Moran
Director of Developmental Services

From: John R. Baumgartner, P.E. *JRB*
Director of Public Works

Re: Daseke Addition Final Plat

The Public Works Department has reviewed the referenced plat and has the following comments:

1. A minimum slab elevation shall be established 2 feet above the 100-year flood plain.
2. The 100-year flood plain shall be designated as a drainage easement, or a flood plain reclamation plan shall be developed with sufficient capacity provided to convey the fully developed 100 year storm event from both the southern and western creeks.

The reclamation plan shall be prepared by a registered professional engineer. The plan shall not increase the upstream 100-year water surface elevation, and shall be safe from erosion.

3. The existing house is connected to a septic system. Any changes to the house's plumbing and/or damage/failure of this system will require connection to the public sewer system.
4. The proposed additions to the house appear to abut the floodplain. It may be necessary to provide certification from a registered professional engineer that the proposed improvements are flood proof, and that the creek bank adjacent to the proposed addition is stable from erosional forces of the stormwater flow.

Please call me if you have any questions or need additional information.



April 19, 1995

PUBLIC WORKS DEPARTMENT

Post Office Box 144 Addison, Texas 75001

(214) 450-2871

16801 Westgrove

File: PW #3

Celestial Place

Mr. James D. Hodges
Allegiance Group, Inc.
8080 N. Central Expressway
Suite 880
Dallas, Texas 75206

Mr. Hodges:

Installation of the main lane pavement, water, sanitary sewer, and storm sewer to serve the Celestial Place Addition has been completed in compliance with the Town of Addison specifications. (See attached.)

Onsite inspections have been made and "As Built" plans have been received without discrepancies found.

Upon expiration of the one year maintenance bonds, which become effective April 1, 1995, the Town of Addison will assume responsibility of the work herein accepted.

Note: The greenbelt landscape and wall along Montfort and Celestial Road must be completed and accepted by the Town of Addison Parks Department before a building permit can be issued for this subdivision.

Sincerely,

John R. Baumgartner, P.E.
Director of Public Works
Town of Addison

BE/amh

Attachment

cc: Llano Construction
Sedi A. Toumani, P.E. - Dal-Tech Engineering, Inc.
Bruce Ellis - Public Works Inspector Town of Addison
Robin Jones - Street Director Town of Addison
Ron Lee - Parks Supervisor Town of Addison
Lynn Chandler - Building Official Town of Addison
Keith Thompson - Utility Foreman Town of Addison

CELESTIAL PLACE ADDITION

WATER

8" S.D.R. 18	700' L.F.
1" Water Service	21 each
2" Water Service	2 each
Fire Hydrants	2 each
8" Valve	1 each
6" Valve	2 each

SANITARY SEWER

8" S.D.R. 35	1100' L.F.
4' Diameter Manhole	4 each
4" S.D.R. 35 Services	2' each

STORM SEWER

48" R.C.P. Class III	193' L.F.
45" R.C.P. Class III	415' L.F.
24" R.C.P. Class III	369' L.F.
21" R.C.P. Class III	436' L.F.
18" R.C.P. Class III	25' L.F.
12' Inlet	1 each
10' Inlet	3 each
8' Diameter Manhole	2 each
6' Diameter Manhole	1 each
4' Diameter Manhole	2 each
"Y" Inlet	2 each

PAVEMENT

Celestial Place	682 L.F.
27' B-B Concrete	

ALLEGIANCE GROUP, INC.

April 6, 1995

Mr. John Baumgartner
Director of Public Works
Town of Addison
P.O. Box 144
Addison, TX 75001

Re: Celestial Place Addition

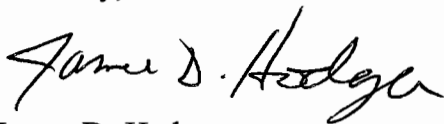
Dear Mr. Baumgartner,

I am in receipt of Mr. Bruce Ellis' letters dated February 23, 1995 and March 14, 1995 with respect to certain punch list items required by the City of Addison prior to the issuance of a Certificate of Occupancy. I have been advised by my partner, Mr. Charles Ames, that all work has been completed and inspected by Mr. Bruce Ellis of your office, with the exception of the following items:

1. We have not cleaned any silt from the downstream water impoundment, as requested, because we don't believe that we caused any of the silt accumulation and because we have not been able to get permission from the downstream property owner.
2. We will not be able to get a letter from the Walden School authorizing the placement of fill on their property, which we have subsequently seeded with grass because they are using this situation as an opportunity to request additional financial assistance for the school, even though we have improved their property.

Please contact Mr. Ames or myself when the permit is issued.

Sincerely,



James D. Hodges
President

cc: Mr. Charles D. Ames
Mr. William M. Reppeto, Esq.
Mr. Bruce Williams
Mr. John Martin

Addison!

JIM PIERCE, P.E.
Assistant Public Works Director
(972) 450-2879
(972) 450-2837 FAX
jpierce@ci.addison.tx.us

Town of Addison 16801 Westgrove Dr. P.O. Box 9010, Addison, Texas 75001-9010

1-11-05

Mike :

Randy:

Celestial P.S. Study

Lets Discuss

Jim

December 20, 2004

Mr. Jim Pierce, PE
Asst. City Engineer
Town of Addison
16801 Westgrove Rd.
Addison, TX 75001-9010

Celestial Rd. Pump Station Power Factor Correction Study

The power factor correction study was performed as a result of the TXU Energy proposition to upgrade the electrical metering at large electric user facilities. The purpose of the new metering is to meter the power factor in order to recover revenue associated with their existing tariff that allows for a power factor penalty. The power factor penalty is charged for the electrical power demand below 95% power factor.

The study investigated the following:

1. Previous power billing for the past 12 months.
2. Power factor equipment for addition to the existing electrical system.
3. Cost/Benefit (spreadsheet) of Power Factor Correction.

TXU Energy Power Billing information was provided in an email from Randy Moravec of the Town of Addison. A copy of a typical monthly electric bill was provided for the month of November 2004.

The electric design of the facility was from our files of previous design projects. A site visit with an engineer from General Electric was made to obtain motor data and verify the electrical system design.

Initial indications suggested that power factor capacitance could be added to increase the power factor as metered by the electrical utility. The goal, of course, is to increase the power factor above 0.95 or 95% to avoid any power factor correction penalty. Power factor penalties are established by electrical utilities to reduce the cost of adding additional infrastructure. The equation for power is know to be:

$$P \text{ (power-kW)} = \text{Volts} \times \text{current (amps)} \times \text{power factor}$$

As may be seen by the formula above the same amount of power (Hp) with the voltage being constant, a lower power factor requires the current to increase. Increasing the power factor reduces electrical losses and limitations of having to increase the electric utilities infrastructure (wires, transformers, busses) as additional facilities come on line.

In the case of the Celestial Pump Station, the primary electrical equipment loads are large motors. The three 500 Hp pump motors primarily define the power factor because during their operation the electrical demand load for calculating the power factor is established. To a lesser extent, the 200 Hp and 125 Hp pump motors add to the lowering of the power factor.

The 500 Hp motors are US Motors Titan (Vertical). Values of the power factor for the specific motors at their rpm are listed in the US Motors catalog with the matching value of full load current (64 amps). The listed power factor for the three 500 Hp motors ranged from 83% to 85% for 75% and 100% brake Hp loads. The 200 Hp and 125 Hp motors had full load power factors listed as 86.8% and 86.6%, respectively.

From the information obtained, the cost/benefit analysis data was input to the spreadsheet. The spreadsheet is one used by TXU Energy and modified to provide more detail. The values were determined to be accurate by matching the tariff requirements with those provided in the Town of Addison billing. In other words, the billing values that were reported from the kW meter readings matched our calculated values.

For the summer months higher values of kW were used to assume two of the three pumps operating instead of just one as indicated from the electrical bills for 2004. This was done to offset the unusually cool summer as reported by the operator.

Power factor correction is evaluated based on how much capacitance in kVAR (kilovolt-amps reactive) is required to offset the kVAR inductance to obtain the required power factor. The power factor used in the study was the worst case expected or 83%.

The spreadsheet (for 83% power factor) showed that 292 kVAR was required to obtain the required power factor correction (95%) based on 2004 electrical loads (modified to add more pumps) and 400 kVAR was recommended. Unfortunately, the maximum capacitance allowed to be connected to the motors according to the manufacturer data is 254 kVAR.

As may be noted from the spreadsheet, the corrected power factor with 254 kVAR was 94% which reduces the overall penalty to only \$560 annually.

The resulting power factor correction savings showed \$5,225. The expected cost for the contract to install the capacitance is shown as \$17,780 (based on General Electric equipment). The 500 Hp motor starters can have capacitor packages installed behind their starters and the small starters can be installed adjacent or in the MCCs. The existing equipment has unused space available for the cable entry and connections.

The simple payback as shown in the spreadsheet is 3.4 years based on the operation with two of the 500 Hp motors. Of course the payback will be longer if another cool summer requires operation of only one of the large pumps.

Sincerely,



Bill Goff

Attachment: Power Factor Cost/Benefit Analysis Spreadsheet

Power Factor Correction Cost / Benefit Analysis

McCREARY & ASSOCIATES, INC.

6310 LBJ FRWY., SUITE 217
 DALLAS, TEXAS 75240
 PHONE: 972-458-8745
 FAX: 972-392-0739

Customer:	Trower of Addison
ESI ID#:	1044372000/165819
Address:	5510 Celestial Rd. (Pump Station)
Rate:	Secondary Non-IDR

Billing Month	kWh	Billing kW	Actual kW	PF	kVA	TDSP Charges	TDSP with Max PF Adjustment Charges	TDSP with Max PF Adjustment Avail Charges	PF Adjust. Cost with No PF Correction	PF Adjust. Cost with Available PF Correction	Actual PF Adjust. Cost Savings
Nov-03	120,000	501	501	83.0%	604	\$2,923	\$3,328	\$2,962	\$405	\$39	\$366
Dec-03	96,000	437	437	83.0%	527	\$2,549	\$2,902	\$2,583	\$353	\$34	\$319
Jan-04	93,600	434	434	83.0%	523	\$2,531	\$2,881	\$2,565	\$351	\$34	\$317
Feb-04	98,400	441	441	83.0%	531	\$2,573	\$2,929	\$2,607	\$357	\$35	\$322
Mar-04	93,600	450	338	83.0%	407	\$2,459	\$2,799	\$2,492	\$341	\$33	\$308
Apr-04	124,800	680	450	83.0%	542	\$3,596	\$4,098	\$3,644	\$502	\$49	\$453
May-04	122,400	680	494	83.0%	595	\$3,658	\$4,169	\$3,707	\$511	\$49	\$462
Jun-04	127,200	680	436	83.0%	525	\$3,577	\$4,076	\$3,626	\$499	\$48	\$451
Jul-04	148,800	850	850	83.0%	1,024	\$4,893	\$5,580	\$4,959	\$687	\$67	\$621
Aug-04	148,800	850	850	83.0%	1,024	\$4,893	\$5,580	\$4,959	\$687	\$67	\$621
Sep-04	148,800	850	850	83.0%	1,024	\$4,893	\$5,580	\$4,959	\$687	\$67	\$621
Oct-04	144,000	501	501	83.0%	604	\$2,938	\$3,343	\$2,977	\$405	\$39	\$366
Totals	1,466,400	850	850	83.0%	1,024	\$41,481	\$47,266	\$47,266	\$5,785	\$560	\$5,225

Avg. Power Factor = 83.0%
 Peak kW = 850
 Peak kVA = 1,024
 Peak kVar = 571
 kVar @ 95% = 279
 kVar Required = 292
 kVar Recommended = 400
 Max. Available Kvars = 254
 Max. Power Factor Avail. = 94%

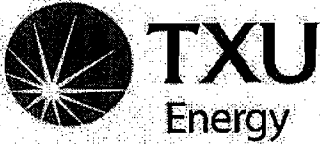
From Motor Vendor Data

Annual PF Penalty without Power Factor Correction =	\$5,225
PF Correction Cost =	\$17,780
Simple Payback =	3.4 years
Annual PF Penalty with Max. Avail. PF Correction =	\$560

Budgetary Opinion of Cost to correct power factor to 94% This is not a Quote

Load Factor = 20% *ratio of total energy used to total possible energy based on peak kW over 12 month period

850 0.83 0.5917 571.2 0.94 0.348166 308.5088041 262.69



Account Number:
 Bill:
 Statement Date:
 Due Date:
 Billing Address:

3797969967-1
 379796975986
 Nov 22, 2004
 Dec 22, 2004
 TOWN OF ADDISON
 16801 WESTGROVE DR
 ADDISON TX 75001
 Account Manager: MARI SALAS

12-14-04
 Page 2 of 3

00001568

MSALAS1@TXU.COM

Electric Service – Government

Usage

ESI ID: 10443720001165819
 Facility ID: 6583421513
 Facility Location:
 5510 CELESTIAL RD DALLAS, TX 75240

Service Period: Sep 24, 2004 to Oct 25, 2004

kW Consumption 501
 Current Total Consumption (kW) 501
 Meter: 079146652GE Mult: 24.000000
 Current Demand Meter Reading Oct 25 20.88
 Meter: 079146652GE Mult: 2400.000000
 Current Meter Reading Oct 25 7297
 Previous Meter Reading Sep 24 7237
 kWh Consumption 144000

Competitive – Price X Usage

144,000 kWh at \$0.04936 per kWh	\$	7,107.84
Aggregator Fee	\$	230.40
Gross Receipts Fee	\$	161.81
Sales Tax		

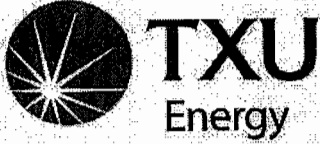
Competitive – Price X Usage Total \$ 7,500.05

Total Current Charges \$ 7,500.05

Total Charges:	\$	7,500.05
-----------------------------	----	-----------------

3182





Account Number: 3797969967-7
 Bill Number: 379796975986
 Statement Date: Nov 22, 2004
 Due Date: Dec 22, 2004
 Billing Address: TOWN OF ADDISON
 16801 WESTGROVE DR
 ADDISON TX 75001
 Account Manager: MARI SALAS

00001566

MSALAS1@TXU.COM

Electric Service-Distribution

Usage

ESI ID: 10443720001165819
 Facility ID: 6583421513
 Facility Location:
 5510 CELESTIAL RD DALLAS, TX 75240

Service Period: Sep 24, 2004 to Oct 25, 2004.

TDSP Charges

Transmission Charge (TUOS) - 501kW @ \$1.19	\$	596.19
Transition Charge - 501kW @ \$.262	\$	141.28
Customer Charge	\$	24.90
Transition Charge - 501kW @ \$.195	\$	97.70
Transmission Charge Recovery Factor - 501kW @ \$.219118	\$	109.78
System Benefit Fund (SBF)	\$	94.32
Nuclear Decommissioning (NDF) - 501kW @ \$.044	\$	22.04
Delivery Point	\$	16.65
Distribution Charge (DUOS) - 501kW @ \$3.55	\$	1,778.55
TDSP Charges Total	\$	2,881.41

Fee/Tax on TDSP Charges

Gross Receipts Fee	\$	55.70
Sales Tax		
Fee/Tax on TDSP Charges Total	\$	55.70

Total Current Charges \$ 2,937.11

Total Charges:	\$	2,937.11
-----------------------------	-----------	-----------------

3782

**Tariff for Retail Delivery Service
TXU Electric Delivery Company**

6.1.1 Delivery System Charges
Applicable: Entire Certified Service Area
Effective Date: January 1, 2004

Sheet: 3
Page 1 of 2
Revision: One

AVAILABILITY

This schedule is applicable to Delivery Service for non-residential purposes at secondary voltage with demand greater than 10 kW when such Delivery Service is to one Point of Delivery and measured through one Meter.

TYPE OF SERVICE

Delivery Service will be single or three-phase, 60 hertz, at a standard secondary voltage. Delivery Service will be metered using Company's standard meter provided for this type of Delivery Service, unless Retail Customer chooses a competitive meter provider. Any meter other than the standard meter provided by Company, will be provided at an additional charge. Where Delivery Service of the type desired is not available at the Point of Delivery, additional charges and special contract arrangements may be required prior to Delivery Service being furnished, pursuant to Section 6.1.2.2 of this Tariff.

MONTHLY RATE

I. Transmission and Distribution Charges:

Customer Charge	\$24.90	per Retail Customer per Month
Metering Charge	\$16.65	per Retail Customer per Month
Transmission System Charge		
Non-IDR Metered	\$ 1.19	per NCP kW
IDR Metered	\$ 1.47	per 4CP kW
Distribution System Charge	\$ 3.55	per Distribution System billing kW

II. System Benefit Fund: \$0.000655 per kWh, See Rider SBF

III. Transition Charge: See Rider TC

IV. Nuclear Decommissioning Charge: \$0.044 per Distribution System billing kW,
See Rider NDC

V. Transmission Cost Recovery Factor: See Rider TCRF

VI. Excess Mitigation Credit: See Rider EMC

VII. State Colleges and Universities Discount: See Rider SCUD

VIII. Competitive Metering Credit: See Rider CMC

IX. Other Charges or Credits:

Not Applicable

**Tariff for Retail Delivery Service
TXU Electric Delivery Company**

6.1.1 Delivery System Charges
Applicable: Entire Certified Service Area
Effective Date: January 1, 2004

Sheet: 3
Page 2 of 2
Revision: One

COMPANY SPECIFIC APPLICATIONS

At company's option, locations where the electrical installation has multiple connections to company's conductors, due to company facilities limitations or design criteria, may be considered one Point of Delivery for billing purposes.

DETERMINATION OF BILLING DEMAND FOR TRANSMISSION SYSTEM CHARGES

DETERMINATION OF NCP kW

The NCP kW applicable under the Monthly Rate section shall be the kW supplied during the 15 minute period of maximum use during the billing month.

DETERMINATION OF 4 CP kW

The 4 CP kW applicable under the Monthly Rate section shall be the average of the Retail Customer's integrated 15 minute demands at the time of the monthly ERCOT system 15 minute peak demand for the months of June, July, August and September of the previous calendar year. The Retail Customer's average 4CP demand will be updated effective on January 1 of each calendar year and remain fixed throughout the calendar year. Retail Customers without previous history on which to determine their 4 CP kW will be billed at the applicable NCP rate under the "Transmission System Charge" using the Retail Customer's NCP kW.

DETERMINATION OF BILLING DEMAND FOR DISTRIBUTION SYSTEM CHARGES

DETERMINATION OF BILLING kW

The Billing kW applicable to the Distribution System Charge shall be the higher of the NCP kW for the current billing month or 80% of the highest monthly NCP kW established in the 11 months preceding the current billing month (80% ratchet). The 80% ratchet shall not apply to retail seasonal agricultural customers, as determined by the utility.

NOTICE

This rate schedule is subject to the Company's Tariff and Applicable Legal Authorities.

Tariff for Retail Delivery Service TXU Electric Delivery Company

Chapter 5: Service Rules & Regulations (Retail Customers)

Applicable: Entire Certified Service Area

Effective Date: January 1, 2004

Page 10 of 16

Revision: One

If the Power Factor of Retail Customer's load is found to be less than 95% lagging as measured at Meter, Company may require Retail Customer to arrange for the installation of appropriate equipment on Retail Customer's side of the Meter necessary to maintain a Power Factor of not less than 95% lagging as measured at the Meter, or, at Retail Customer's option, to reimburse Company for installing the necessary equipment on the Delivery System.

Until the proper equipment has been installed to correct the Power Factor problem, the Billing Demand associated with Retail Customer's use of Delivery Service, as calculated in the appropriate Rate Schedule in Section 6.1, RATE SCHEDULES, may be adjusted according to the following formula:

Adjusted Billing Demand = (Billing Demand x .95)/Power Factor

5.6 LIMITATIONS ON USE OF DISTRIBUTION SERVICE

5.6.1 INTRASTATE RETAIL DELIVERY SERVICE LIMITATIONS (FOR ERCOT UTILITIES)

Company will not provide Delivery Service to Retail Customer where any part of Retail Customer's Electrical Installation is located outside the State of Texas or is connected directly or indirectly to any other electric lines, all or part of which are located outside the State of Texas, other than through certain high-voltage direct current interconnections constructed under orders of the Federal Energy Regulatory Commission.

5.6.2 PARALLEL OPERATION

Retail Customer may not, without written agreement with Company, connect Retail Customer's Electrical Installation to a source of Electric Power and Energy in a manner that may permit Electric Power and Energy to flow into the Delivery System from such source. Retail Customer proposing the interconnection of Distributed Generation must comply with the provisions set forth in this Tariff and P.U.C. SUBST. R. 25.211, Interconnection of On-Site Distributed Generation (DG), and 25.212, Technical Requirements for Interconnection and Parallel Operation of On-Site Distributed Generation, or successor rules. Requirements and specifications for all other interconnections for parallel operation shall be individually negotiated with Company.

5.7 FACILITIES EXTENSION POLICY

5.7.1 GENERAL

This Facilities Extension Policy ("Policy") addresses the requirements associated with extension of Delivery System facilities, i.e., Construction Services, at the request of Retail Customer or Competitive Retailer, for the following situations, which are sometimes collectively referred to as "extensions":

- (1) Installation of standard facilities;
- (2) Installation of facilities in excess of standard facilities normally provided for requested type of service and allowed for in this Tariff;
- (3) Installation of non-standard facilities;
- (4) Upgrades of facilities due to Customer adding load;
- (5) Electric connections to temporary facilities; and
- (6) Removal and relocation of facilities.

Company is responsible for the construction of Delivery System facilities necessary to connect Retail Customer's Point of Delivery to the Delivery System. The treatment of extension of Meter facilities is

Jim Pierce

From: Randy Moravec
Sent: Monday, December 13, 2004 5:12 PM
To: 'billgoff@swbell.net'
Cc: Jim Pierce
Subject: FW: Celestial Pump Station Electrical Study

Bill,

I am forwarding the email I sent to Jim that shows the historical use patterns for the Celestial pump station. I have also attached a PDF file of the November 2004 bill for this account as well as the applicable rate tariffs. Please contact me should you have any questions or require additional information.

Randy Moravec
Finance Director
Town of Addison
(972) 450-7050



Celestial Pump
Station 1104 Bi...

-----Original Message-----

From: Randy Moravec
Sent: Friday, December 10, 2004 4:54 PM
To: Jim Pierce
Subject: RE: Celestial Pump Station Electrical Study

Jim,

Below is information pertaining to our billing at the Celestial Pump Station. Through the 2004 calendar year, our retail electric provider is TXU. Effective 1/1/05, our provider will be Direct Energy Billing System, which will be providing electricity generated by FPL (Florida Power and Light). The rate tariff is #540. Please call me with any questions.

Randy

Start Date	End Date	KWH Used	Billed KW	Amount paid
11/21/2002	12/21/2002	100800	522.00	\$6,482.93
12/21/2002	1/23/2003	98400	522.00	\$6,383.16
1/23/2003	2/24/2003	98400	522.00	\$6,728.38
2/24/2003	3/25/2003	91200	522.00	\$6,403.40
3/25/2003	4/24/2003	115200	522.00	\$7,415.49
4/24/2003	5/23/2003	122400	474.00	\$7,727.33
5/23/2003	6/24/2003	141600	474.00	\$6,665.73
6/24/2003	7/24/2003	156000	474.00	\$9,289.74
7/24/2003	8/25/2003	213600	501.00	\$12,123.92
8/25/2003	9/24/2003	151200	501.00	\$9,329.95
9/24/2003	10/24/2003	146400	501.00	\$9,107.11
10/24/2003	11/24/2003	120000	501.00	\$7,881.50
11/24/2003	12/23/2003	96000	437.00	\$6,477.60
12/23/2003	1/23/2004	93600	434.00	\$6,623.95
1/23/2004	2/24/2004	98400	441.00	\$7,519.22
2/24/2004	3/25/2004	93600	338.00	\$6,982.50
3/25/2004	4/27/2004	124800	450.00	\$8,966.07
4/27/2004	5/26/2004	122400	494.00	\$9,068.48
5/26/2004	6/25/2004	127200	436.00	\$9,019.78

6/25/2004	7/27/2004	148800	500.00	\$10,633.00
7/27/2004	8/25/2004	148800	502.00	\$10,643.97
8/25/2004	9/24/2004	148800	501.00	\$10,690.30
9/24/2004	10/25/2004	144000	501.00	\$10,437.16

-----Original Message-----

From: Jim Pierce
Sent: Friday, December 10, 2004 11:29 AM
To: Randy Moravec
Cc: Mike Murphy; Jerry Davis
Subject: Celestial Pump Station Electrical Study

Randy: Please send me the electric bills for 2004 for Celestial Pump Station, who our electricity provider is, and any particulars about their billing tariffs for secondary service. Thanks,

Jim Pierce, P.E.
Assistant Public Works Director
P.O. Box 9010
Addison, TX 75001-9010
972-450-2879

Jim Pierce

From: Randy Moravec
Sent: Friday, December 10, 2004 4:54 PM
To: Jim Pierce
Subject: RE: Celestial Pump Station Electrical Study

Jim,

Below is information pertaining to our billing at the Celestial Pump Station. Through the 2004 calendar year, our retail electric provider is TXU. Effective 1/1/05, our provider will be Direct Energy Billing System, which will be providing electricity generated by FPL (Florida Power and Light). The rate tariff is #540. Please call me with any questions.

Randy

Start Date	End Date	KWH Used	Billed KW	Amount paid
11/21/2002	12/21/2002	100800	522.00	\$6,482.93
12/21/2002	1/23/2003	98400	522.00	\$6,383.16
1/23/2003	2/24/2003	98400	522.00	\$6,728.38
2/24/2003	3/25/2003	91200	522.00	\$6,403.40
3/25/2003	4/24/2003	115200	522.00	\$7,415.49
4/24/2003	5/23/2003	122400	474.00	\$7,727.33
5/23/2003	6/24/2003	141600	474.00	\$6,665.73
6/24/2003	7/24/2003	156000	474.00	\$9,289.74
7/24/2003	8/25/2003	213600	501.00	\$12,123.92
8/25/2003	9/24/2003	151200	501.00	\$9,329.95
9/24/2003	10/24/2003	146400	501.00	\$9,107.11
10/24/2003	11/24/2003	120000	501.00	\$7,881.50
11/24/2003	12/23/2003	96000	437.00	\$6,477.60
12/23/2003	1/23/2004	93600	434.00	\$6,623.95
1/23/2004	2/24/2004	98400	441.00	\$7,519.22
2/24/2004	3/25/2004	93600	338.00	\$6,982.50
3/25/2004	4/27/2004	124800	450.00	\$8,966.07
4/27/2004	5/26/2004	122400	494.00	\$9,068.48
5/26/2004	6/25/2004	127200	436.00	\$9,019.78
6/25/2004	7/27/2004	148800	500.00	\$10,633.00
7/27/2004	8/25/2004	148800	502.00	\$10,643.97
8/25/2004	9/24/2004	148800	501.00	\$10,690.30
9/24/2004	10/25/2004	144000	501.00	\$10,437.16

-----Original Message-----

From: Jim Pierce
Sent: Friday, December 10, 2004 11:29 AM
To: Randy Moravec
Cc: Mike Murphy; Jerry Davis
Subject: Celestial Pump Station Electrical Study

Randy: Please send me the electric bills for 2004 for Celestial Pump Station, who our electricity provider is, and any particulars about their billing tariffs for secondary service. Thanks,

Jim Pierce, P.E.
Assistant Public Works Director
P.O. Box 9010
Addison, TX 75001-9010
972-450-2879

HP LaserJet 3200se



HP LASERJET 3200

NOV-18-2004 5:43PM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
830	11/18/2004	5:42:09PM	Send	99723920739	1:06	3	OK

TOWN OF

ADDISON

PUBLIC WORKS

To: Joe Kotria

From: Jim Pierce, P.E.

Company: McCreary & Assoc

Asst. Public Wks. Dir.

Phone: 972/450-2879

FAX: 972/450-2837

FAX #: 972-392-0739

jpierce@ci.addison.tx.us

Date: 11-18-04

16801 Westgrove

P.O.Box 9010

of pages (including cover): 3

Addison, TX 75001-9010

Re: Celestial Pump Station Energy Study

Original in mail

Per your request

FYI

Call me

Comments: Please consider this your notice to proceed.

Thanks,

Jim

McCREARY & ASSOCIATES, INC.6310 LBJ Suite 217 Dallas, Texas 75240
972-458-8745 Fax: 972-392-0739

August 5, 2004

Mr. James C. Pierce, JR. P.E.
Assistant Public Works Director
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001-9010

Subject: Engineering Service Proposal
Celestial Road Pump Station – Energy Study

Dear Jim,

We propose to render engineering services for the above referenced project. We will evaluate the existing rate structure with the existing energy provider and determine if a more desirable rate structure exists for the pump station. We will also check for power factor penalty that may be charged now or in the near future. If power factor improvement is determined to be necessary, we will determine the amount of correction necessary and recommend a solution. A fee breakdown for our work is attached. A report will be submitted with our findings.

McCreary & Associates proposes to be compensated on a time-expended basis with a not to exceed maximum of \$5,400.00 (five thousand four hundred dollars). We propose to invoice monthly at the rates listed below.

Engineer, P.E.	\$100.00 per hour
Engineer, Sr.	\$ 95.00 per hour
Engineering Technician, Sr.	\$ 80.00 per hour
Engineering Technician	\$ 65.00 per hour
Clerical	\$ 50.00 per hour

Services outside the scope of the work shall include but not be limited to the following:

1. Change in scope.
2. Implementation (plans and specifications) of power factor improvements.

If services are to be performed that are outside the scope of work, then the maximum may be exceeded and the above listed rates shall apply.

Engineering Services Proposal

We appreciate the opportunity to submit this proposal and look forward to working with you on this project.

Sincerely,



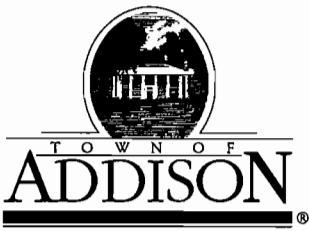
Joseph J. Kotrla, P.E.
President
McCreary & Associates, Inc.

ACCEPTED



Authorized Officer of the Company

DATE 11-18-04



Public Works / Engineering

16801 Westgrove • P.O. Box 9010

Addison, Texas 75001

Telephone: (972) 450-2871 • Fax: (972) 450-2837

LETTER OF TRANSMITTAL

DATE	11-18-04	JOB NO.
ATTENTION		
RE:	Celestial Pump Station	
	Energy Study	

TO Carmen Moran

GENTLEMAN:

WE ARE SENDING YOU

- Attached
- Under separate cover via _____ the following items:
- Shop Drawings
- Prints
- Plans
- Samples
- Specifications
- Copy of letter
- Change order
- _____

COPIES	DATE	NO.	DESCRIPTION
1			Engineering Service Proposal for Celestial Pump Station - Energy Study accepted by J. Price

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE _____ 19____
- Approved as submitted
- Approved as noted
- Returned for corrections
- _____
- Resubmit _____ copies for approval
- Submit _____ copies for distribution
- Return _____ corrected prints
- PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO _____

SIGNED: J. Price

If enclosures are not as noted, please notify us at once.

Jim Pierce

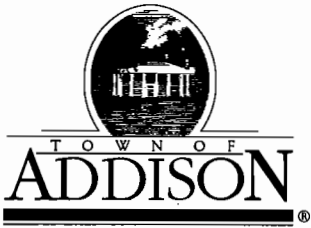
From: Randy Moravec
Sent: Monday, October 11, 2004 4:00 PM
To: Mike Murphy; Jim Pierce
Subject: Energy Audits of Pump Stations

Gentlemen,

In the past I was not too concerned with power factor metering that TXU is going to begin imposing over the next couple of years because they were intending to only concentrate on accounts in excess of 1,000 kw (1 MW) demand. However, the City of Allen has been told by their TXU representative that the company will remeter accounts as low as 400 kw. Our account at Celestial pump station is the only account in Town that exceeds the 400 kw level. Have you had that account analyzed to see what the power factor is? If it is below 90% we may want to consider making some modifications to bring it closer to 100%. Let me know what you think.

THANKS!!!

Randy



Public Works / Engineering
 16801 Westgrove • P.O. Box 9010
 Addison, Texas 75001
 Telephone: (972) 450-2871 • Fax: (972) 450-2837

LETTER OF TRANSMITTAL

DATE	8/25/04	JOB NO.
ATTENTION		
RE:		

TO Joe Kotila

GENTLEMAN:

WE ARE SENDING YOU

- Attached
- Under separate cover via _____ the following items:
- Shop Drawings
- Prints
- Plans
- Samples
- Specifications
- Copy of letter
- Change order
- _____

COPIES	DATE	NO.	DESCRIPTION
			Samples of Wire taken from our traffic signals at Lindbergh & Midway Rd.

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE _____ 19____
- Approved as submitted
- Approved as noted
- Returned for corrections
- _____
- Resubmit _____ copies for approval
- Submit _____ copies for distribution
- Return _____ corrected prints
- PRINTS RETURNED AFTER LOAN TO US

REMARKS Joe - This wire is 20 years old and in various stages of decomposition. Why is the black wire unaffected? Are we specifying the right type of wire?

COPY TO Please call 972 450 2879
SIGNED: Jim Preece

If enclosures are not as noted, please notify us at once.

McCREARY & ASSOCIATES, INC.
6310 LBJ Suite 217 Dallas, Texas 75240
972-458-8745 Fax: 972-392-0739

August 5, 2004

Mr. James C. Pierce, JR. P.E.
Assistant Public Works Director
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001-9010

Subject: Engineering Service Proposal
Celestial Road Pump Station – Energy Study

Dear Jim,

We propose to render engineering services for the above referenced project. We will evaluate the existing rate structure with the existing energy provider and determine if a more desirable rate structure exists for the pump station. We will also check for power factor penalty that may be charged now or in the near future. If power factor improvement is determined to be necessary, we will determine the amount of correction necessary and recommend a solution. A fee breakdown for our work is attached. A report will be submitted with our findings.

McCreary & Associates proposes to be compensated on a time-expended basis with a not to exceed maximum of \$5,400.00 (five thousand four hundred dollars). We propose to invoice monthly at the rates listed below.

Engineer, P.E.	\$100.00 per hour
Engineer, Sr.	\$ 95.00 per hour
Engineering Technician, Sr.	\$ 80.00 per hour
Engineering Technician	\$ 65.00 per hour
Clerical	\$ 50.00 per hour

Services outside the scope of the work shall include but not be limited to the following:

1. Change in scope.
2. Implementation (plans and specifications) of power factor improvements.

If services are to be performed that are outside the scope of work, then the maximum may be exceeded and the above listed rates shall apply.

We appreciate the opportunity to submit this proposal and look forward to working with you on this project.

Sincerely,



Joseph J. Kotrla, P.E.
President
McCreary & Associates, Inc.

ACCEPTED _____ DATE _____
Authorized Officer of the Company

McCreary & Assoc. Engineering Fee Proposal

Proj. Name: Addison P.S. Energy Study

Client: Town of Addison

Prepared By: Bill Goff

Date: 08/04/04

Project No.: 01.040

Page 1 of 1

Rev. 0

Deliverables	Hours by Deliverables					
	ENG'R, P.E.	ENG'R, Sr.	Eng'r Tech, Sr.	Eng'r Tech.	Tech./CAD	Clerical
Onoor Requirements	0.5	8				
Calc. - Develop Energy & Demand Spreadsheet		16				
Data Gathering		4				
Data Input & Study		14				
Report	2	10				2
Hours by Discipline	2.5	52	0	0	0	2
Hourly Rate	\$100.00	\$95.00	\$80.00	\$60.00	\$50.00	\$50.00
Labor Costs by Discipline	\$250.00	\$4,940.00	\$0.00	\$0.00	\$0.00	\$100.00

Sub-Total Labor Costs \$5,290.00

Mileage 30
Rate (\$/mi.) \$0.345

Sub-Total Travel Costs \$10.35

Office Equipment (cad, printing, faxing, etc.) \$50.00

Total Project Engineering Fee \$5,350.35

Jim Pierce

From: Randy Moravec
Sent: Tuesday, March 02, 2004 2:44 PM
To: Jerry Davis
Cc: Jim Pierce
Subject: RE: Electrical Study @ Celestial P.S.

Jerry,
I've called Joe and will get him the information he needs.

Randy

-----Original Message-----

From: Jerry Davis
Sent: Tuesday, March 02, 2004 10:43 AM
To: Randy Moravec
Cc: Jim Pierce
Subject: Electrical Study @ Celestial P.S.

Randy, we had our first meeting with Joe Katrola 'McCreary & Associates, Inc' 972-458-8745 ext. 28. We are asking Mr. Katrola for a proposal to review our electrical usage and operations on how we are managing our pumping and to recommend any cost savings? Mr. Katrola request the following information:

- Previous billing 2000, 2001, 2002
- When did we start with First Choice
- Phone number, contact name and account # (5510 Celestial Rd.) at First Choice
- Copy of contract

I appreciate any info you can provide, please call if you have any questions. Thank You

***Jerry Davis, Utilities Superintendent
972-661-1693***

**Tariff for Retail Delivery Service
TXU Electric Delivery Company**

6.1.1 Delivery System Charges
Applicable: Entire Certified Service Area
Effective Date: January 1, 2004

Sheet: 6
Page 4 of 6
Revision: One

Schedule C* applies to:

Group 1 Street lights installed for the use of Retail Customer by Retail Customer or by a governmental subdivision. All equipment replacement and maintenance is performed by Retail Customer or the governmental subdivision. Company provides lamp replacement service only which includes lamp and labor (unless otherwise requested in writing by Retail Customer).

Group 2 Company owned street lights mounted on steel or other ornamental poles of a type not normally used by Company, and Retail Customer has contributed to Company an amount equivalent to the entire construction cost of the street lighting facilities including luminaires and circuits.

*Company operates all street lights under Schedule C (must be of a type suitable for use with the lamp sizes provided for herein) and makes all normal lamp replacements which includes lamp and labor at its expense. All other maintenance will be billed to Retail Customer on the basis of actual costs including appropriate overhead expenses.

Schedule D applies to:

Retail Customer operated and maintained street lights and overhead sign lights or where such lights are installed by a governmental subdivision for the use of Retail Customer, and Company supplies distribution service to Retail Customer for the operation of the street lights or overhead sign lights.

Rectangular, Post-Top and Historical apply to:

Company installed, owned, operated, and maintained street lights mounted on steel or other ornamental poles of a type normally used by Company and served either overhead or underground.

Pedestrian Walkway Lighting :

Pedestrian walkway lighting is used to illuminate sidewalks along municipally-owned streets and roads and within municipally-owned parks and recreational areas.

CONVERSION OR REPLACEMENT OF EXISTING FACILITIES

Company will convert existing Company-owned facilities (size or type of luminaire) to a different Company-offered size or type of luminaire upon request of and payment by Retail Customer of an amount equal to the estimated cost of such conversion, including labor and materials, less the salvage value of the existing facilities.

Company will replace existing lighting facilities upon request of and payment by Retail Customer of an amount equal to the estimated removal cost less salvage value of existing facilities. Installation of new facilities requested by Retail Customer will be performed pursuant to the appropriate Schedule and Group described above.

SPECIAL CONDITIONS

For billing purposes the monthly street lighting and overhead sign lighting burning hours are 333 hours per month and all connections and disconnections are assumed to have occurred at the beginning of the current month's billing period.

Retail Customer-owned unmetered lamps other than those of the lamp sizes shown under Schedule D are billed under the metered rate and the amount of monthly energy is determined by multiplying the connected load (including ballast) by the number of burning hours.

Company reserves the right to discontinue service at locations where excessive maintenance and/or lamp replacement occur, or Company may charge Retail Customer for such maintenance and/or lamp replacements. Company makes all connections and disconnections to its distribution system.

AGREEMENT

An Agreement for Delivery Service with a term of not less than ten years is required.

NOTICE

This rate schedule is subject to the Company's Tariff and Applicable Legal Authorities.

**Tariff for Retail Delivery Service
TXU Electric Delivery Company**

6.1.1 Delivery System Charges
Applicable: Entire Certified Service Area
Effective Date: January 1, 2004

Sheet: 6
Page 3 of 6
Revision: One

MONTHLY RATE

I. Metered Facilities - Company-Owned (Closed to new installations)

Distribution Charges	Amount
Customer Charge	\$ 2.55
Meter Charge	\$19.95
Distribution System Charge	\$ 0.1195 per kWh

- II. System Benefit Fund:** \$0.000655 per kWh, See Rider SBF
- III. Transition Charge:** See Rider TC
- IV. Nuclear Decommissioning Charge:** \$0.000147 per kWh, See Rider NDC
- V. Transmission Cost Recovery Factor:** Not Applicable
- VI. Excess Mitigation Credit:** See Rider EMC
- VII. State Colleges and Universities Discount:** See Rider SCUD
- VIII. Competitive Metering Credit:** See Rider CMC
- IX. Other Charges or Credits:**

Not Applicable

DEFINITIONS

Schedule A applies to:

- Group 1** Company installed, owned, operated, and maintained street lights mounted on wood poles and served overhead.
- Group 2** Company installed, owned, operated, and maintained street lights mounted on wood, steel, or ornamental poles of a type normally used by Company, and served overhead or underground, and Retail Customer has contributed to Company an amount equivalent to the difference between the total installed cost of such street lighting and the total installed cost of an equivalent lighting system mounted on wood poles and served overhead.

Schedule B applies to:

- Group 1** Company installed, owned, operated, and maintained street lights mounted on steel or other ornamental poles of a type normally used by Company and served overhead. If the number of steel and/or other ornamental poles exceeds the number of such poles on which lights are mounted, there will be an additional charge of \$4.85 per month for each such excess pole. Where two street lights with lamps of the same size are mounted on the same steel and/or other ornamental pole, Schedule B applies to one of the lights and Schedule A to the other.
- Group 2** Company installed, owned, operated, and maintained street lights mounted on steel or other ornamental poles of a type normally used by Company and served underground, and Retail Customer has contributed to Company an amount equivalent to the difference between the total installed cost of the underground circuits serving the street lights and the total installed cost of overhead circuits. Where two street lights with lamps of the same size are mounted on the same steel and/or other ornamental pole, Schedule B applies to one of the lights and Schedule A to the other.

**Tariff for Retail Delivery Service
TXU Electric Delivery Company**

6.1.1 Delivery System Charges
Applicable: Entire Certified Service Area
Effective Date: January 1, 2004

Sheet: 6
Page 2 of 6
Revision: One

- II. System Benefit Fund:** \$0.000655 per kWh, See Rider SBF
- III. Transition Charge:** See Rider TC
- IV. Nuclear Decommissioning Charge:** \$0.000147 per kWh, See Rider NDC
- V. Transmission Cost Recovery Factor:** Not Applicable
- VI. Excess Mitigation Credit:** See Rider EMC
- VII. State Colleges and Universities Discount:** See Rider SCUD

VIII. Other Charges or Credits:

Not Applicable

MONTHLY RATE

I. Metered Facilities - Non-Company-Owned

Applicable for distribution service supplied at one point of delivery and measured through one meter to Retail Customer owned, operated and maintained street and highway lighting, overhead sign lighting, and incidental safety lighting equipment which operates same hours as normal street lighting.

Distribution Charges	Amount
Customer Charge	\$ 2.72
Meter Charge	\$10.78
Distribution System Charge	\$ 0.0340 per kWh

- II. System Benefit Fund:** \$0.000655 per kWh, See Rider SBF
- III. Transition Charge:** See Rider TC
- IV. Nuclear Decommissioning Charge:** \$0.000147 per kWh, See Rider NDC
- V. Transmission Cost Recovery Factor:** Not Applicable
- VI. Excess Mitigation Credit:** See Rider EMC
- VII. State Colleges and Universities Discount:** See Rider SCUD
- VIII. Competitive Metering Credit:** See Rider CMC

IX. Other Charges or Credits:

Not Applicable

**Tariff for Retail Delivery Service
TXU Electric Delivery Company**

6.1.1 Delivery System Charges
Applicable: Entire Certified Service Area
Effective Date: January 1, 2004

Sheet: 6
Page 1 of 6
Revision: One

6.1.1.6 - Lighting Service

Street Lighting Service

AVAILABILITY

Applicable to Competitive Retailer for street lighting, pedestrian walkway lighting, and overhead sign lighting service to governmental entities in areas served by Company. Overhead sign lighting is available only under the provisions of Schedule D of the Monthly Rate - Unmetered Facilities or the Monthly Rate - Metered Facilities - Non-Company-Owned provisions.

TYPE OF SERVICE

Single or three phase, 60 hertz, at any of the Company's standard secondary or primary service voltages as required by Competitive Retailer. Where existing distribution facilities are not adjacent to the point of delivery, additional charges and special contract arrangements may be required prior to its being furnished. If service is provided at primary voltage, Company may at its option meter service on the secondary side of the governmental entity's transformers and adjust for transformer losses in accordance with Company's Tariff for Retail Delivery Service.

MONTHLY RATE

I. Unmetered Facilities

Points of Delivery (POD) Charge: \$22.50 per governmental entity served by the Competitive Retailer.

Facilities Charge, per Luminaire									
Lamp	Watts	Lumens	KWh	Schedule				Rect- angular	Post-Top
				A	B	C	D		
Mercury Vapor	175	7,900	70	\$ 7.35	\$15.15	\$ 3.35	\$ 2.25	\$18.65	\$12.00
	400	21,000	150	\$11.25	\$18.10	\$ 6.65	\$ 5.15	N.A.	N.A.
	1,000	63,000	370	\$25.00	\$33.05	\$17.70	\$12.75	N.A.	N.A.
Sodium Vapor	100	9,500	40	\$ 6.90	\$14.25	\$ 2.75	\$ 1.40	\$18.85	\$11.20
	150	16,000	70	\$ 8.50	\$15.65	\$ 4.15	\$ 2.30	\$23.45	N.A.
	200	22,000	80	\$ 9.45	\$16.35	\$ 4.60	\$ 2.75	\$23.85	N.A.
	250	27,500	100	\$ 9.90	\$17.00	\$ 5.30	\$ 3.45	\$24.30	N.A.
	400	50,000	160	\$14.25	\$23.45	\$ 8.50	\$ 5.30	\$35.45	N.A.
Metal Halide	1,000	140,000	375	\$27.35	\$36.60	\$19.30	\$12.90	\$48.00	N.A.
	175	14,000	65	\$ 9.20	\$16.80	\$ 5.05	\$ 2.10	\$20.90	\$16.60
	250	25,000	100	\$11.75	\$20.25	\$ 6.70	\$ 3.70	\$30.40	N.A.
	400	36,000	160	\$14.00	\$23.70	\$ 8.50	\$ 4.85	\$39.80	N.A.
	1,000	110,000	370	\$26.45	\$35.65	\$18.85	\$12.45	\$48.55	N.A.
Other									
Incandescent*	All			\$ 6.90					
Wallpack Mercury Vapor*	250W			\$16.10					
Fluorescent*	\$19.55								
Historical	\$19.55								
*Closed to new street lighting installations									

Electric Bills for Celestial P.S.

Department	Bill Date	Start Date	End Date	Billed KW	KWH Used	Current bill	Amount paid
Utility	06-Jan-03	21-Nov-02	21-Dec-02	522.00	100800	\$6,482.93	\$6,482.93
Utility	03-Feb-03	21-Dec-02	23-Jan-03	522.00	98400	\$6,383.16	\$6,383.16
Utility	27-Mar-03	23-Jan-03	24-Feb-03	522.00	98400	\$7,238.38	\$6,728.38
Utility	02-Apr-03	24-Feb-03	25-Mar-03	522.00	912000	\$6,403.40	\$6,403.40
Utility	30-Apr-03	25-Mar-03	24-Apr-03	522.00	115200	\$7,415.49	\$7,415.49
Utility	30-May-03	24-Apr-03	23-May-03	474.00	122400	\$7,727.33	\$7,727.33
Utility	30-Jun-03	23-May-03	24-Jun-03	474.00	141600	\$8,618.69	\$6,665.73
Utility	30-Jul-03	24-Jun-03	24-Jul-03	474.00	156000	\$9,289.74	\$9,289.74
Utility	29-Aug-03	24-Jul-03	25-Aug-03	501.00	213600	\$12,123.92	\$12,123.92
Utility	30-Sep-03	25-Aug-03	24-Sep-03	501.00	151200	\$9,329.95	\$9,329.95
Utility	29-Oct-03	24-Sep-03	24-Oct-03	501.00	146400	\$9,107.11	\$9,107.11
Utility	02-Dec-03	24-Oct-03	24-Nov-03	501.00	120000	\$7,881.50	\$7,881.50
Utility	02-Jan-04	24-Nov-03	23-Dec-03	437.00	96000	\$6,477.60	\$6,477.60
Utility	30-Jan-04	23-Dec-03	23-Jan-04	434.00	93600	\$6,623.95	\$6,623.95

\$0.056/kwh

\$0.07/kwh

3/1/04

Summary of charges with kW based billing for Oncor Secondary Service >10kW

These are the current charges that utilize a form of kW as the basis to determine billing amount as shown on the Oncor tariff for Secondary Service Greater than 10 kW.

Transmission System Charge		
Non-IDR Metered	\$ 1.19	per NCP kW
IDR Metered	\$ 1.47	per 4CP kW
Distribution System Charge	\$ 3.55	per Distribution System billing kW

Nuclear Decommissioning Charge:
\$0.044 per Distribution System billing kW

Excess Mitigation Credit:		
Secondary Service		
Less than or Equal to 10 kW	\$0.001789	per kWh
Greater than 10 kW	\$0.612	per Distribution System billing kW

Transmission Cost Recovery Factor:		
Non-IDR Metered	\$0.059254	per NCP kW
IDR Metered	\$0.068434	per 4CP kW

III. Transition Charge:
Secondary Service Greater than 10 kW \$0.158 per kW

These are the explanation of charges as shown on the Oncor tariff with some clarifying notes added (in italics).

DETERMINATION OF NCP kW

The NCP kW applicable under the Monthly Rate section shall be the kW supplied during the 15-minute period of maximum use during the billing month.

This is the actual monthly peak kW often referred to as the "Actual kW". NCP stands for non-coincident peak, or the peak monthly kW reading for the account, that is not necessarily coincident with the overall ERCOT system-wide peak. The NCP kW reading should be different every month.

DETERMINATION OF 4 CP kW

The 4 CP kW applicable under the Monthly Rate section shall be the average of the Retail Customer's integrated 15-minute demands at the time of the monthly ERCOT system 15-minute peak demand for the months of June, July, August and September of the previous calendar year. The Retail Customer's average 4CP demand will be updated effective on January 1 of each calendar year and remain fixed throughout the calendar year. Retail Customers without previous history on which to determine their 4 CP kW will be billed at the applicable NCP rate under the "Transmission System Charge" using the Retail Customer's NCP kW.

This is a calculated kW based on the average of the kW readings for a particular metered account at the time that the ERCOT system reaches its peak demand in the months of June, July, August, and September. Thus this is the reading for the account that is coincident with the ERCOT system peak for the four months of anticipated highest usage of the ERCOT system (hence the 4 CP name).

It would require an IDR type meter that would record at least every fifteen-minute peak to measure the 4CP. In ERCOT any account over 1,000 kW peak demand must be IDR metered. However, there is no prohibition against accounts less than 1,000 kW peak demand being IDR metered.

This 4CP peak number is calculated in the summer months of year X and applied to the account throughout the year of X+1.

DETERMINATION OF BILLING kW

The Billing kW applicable to the Distribution System Charge shall be the higher of the NCP kW for the current billing month or 80% of the highest monthly NCP kW established in the 11 months preceding the current billing month (80% ratchet). The 80% ratchet shall not apply to retail seasonal agricultural customers, as determined by the utility.

This is the 80% ratchet provision applied to the distribution charge and some surcharges often referred to as the "Billing kW". This 80% ratchet kW amount may stay consistent for up to 11 months or vary month to month depending on whether the NCP reading for the month is greater than or less than 80% of the maximum NCP kW reading for the previous 11 months.