

2000-3 Arapaho Road  
TU Electric - 1999

12

Jeff Hill

approx 7/13  
Tu / Quorum / arapahoe:  
Kenny on vacation

Don't have right size  
wire

912-323-8942 Kenny Martin

---

7-22-99 Come Busted out  
Pull cable<sup>15</sup> Set up for Fri or Mon  
Mid week next week  
Poles should be out

---

Joel Porter: 7-19-99  
9:45AM

Kenny - Needs to  
hear back from  
contractor -

Kenny back from  
vacation -

**IMPORTANT MESSAGE**

FOR Jim

DATE 7/9 TIME 4:20 P.M.

M Judd Porter

OF \_\_\_\_\_

PHONE 972 888 1313

AREA CODE NUMBER EXTENSION

FAX

MOBILE Jeanne 1302

AREA CODE NUMBER TIME TO CALL

TELEPHONED	<input checked="" type="checkbox"/>	PLEASE CALL	<input checked="" type="checkbox"/>
CAME TO SEE YOU	<input type="checkbox"/>	WILL CALL AGAIN	<input type="checkbox"/>
WANTS TO SEE YOU	<input type="checkbox"/>	RUSH	<input type="checkbox"/>
RETURNED YOUR CALL	<input type="checkbox"/>	WILL FAX TO YOU	<input type="checkbox"/>

MESSAGE \_\_\_\_\_

Dave Wilde  
TX Electric / Gary Wyatt  
No permit -  
Mike Smith - should be OK.  
A TXU works with Subs

SIGNED

Brooks Brinson

TX Edge

SE of Quon #  
Beltline -

all done by phone

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Thursday, July 08, 1999 8:05 AM  
**To:** 'joel.porter@txu.com'; Jeanne Hooker (E-mail)  
**Cc:** John Baumgartner  
**Subject:** RE: Arapaho Rd - Relocations on Quorum

As of yesterday, nothing has been done. Jim.

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

**From:** [joel.porter@txu.com](mailto:joel.porter@txu.com) [SMTP:[joel.porter@txu.com](mailto:joel.porter@txu.com)]  
**Sent:** Thursday, June 24, 1999 5:15 PM  
**To:** [jpierce@ci.addison.tx.us](mailto:jpierce@ci.addison.tx.us)  
**Cc:** Jeanne Hooker  
**Subject:** Re: Arapaho Rd - Relocations on Quorum

Jim,

I got word from Kenny Martin this afternoon that the work will be completed by mid to late next week. A technician will be making the switches this week and pull wire. The concrete needs to be busted out around the risers so we can tie into the conduit which is the part that will happen next week.

[jpierce@ci.addison.tx.us](mailto:jpierce@ci.addison.tx.us) on 06/24/99 04:32:38 PM

To: Jeanne Hooker/LSG/ENSERCH/US  
cc: Joel Porter/Texas Utilities, Bob Inmon/Texas Utilities,  
[JBaumgartner@ci.addison.tx.us](mailto:JBaumgartner@ci.addison.tx.us)  
Subject: Arapaho Rd - Relocations on Quorum

Jeanne: Wanted to let you know that the two poles with risers on Quorum, north of Arapaho are still there. I believe last time we met you stated the work would be done by the end of this week. Please give this your personal attention. Thanks, Jim.

7-15-99 - Called Jeanne Hooker & left  
message. Called Joel Porter:  
Kenny (Scheduler) is on vacation and  
therefore a delay. Also, TXU does not  
have the right size cable for some reason.  
I asked Joel to follow up!

Joe?

Arapaho/

Meeting with TU

6-14-99

Jeanne Hooker Bobby Jamon -  
John B. Pat Rivera, J.P.  
Johnnie - Anchor Bolts needed for  
new streetlights - he should have/get them

Bobby: 13 <sup>streetlights</sup> - New Arapaho - J.P.  
thinks one was added on Quorum  
Streetlights have not been ordered.

3-5 weeks out to work in medians  
Bobby will count streetlight bases & verify & load.  
Brick - 4-5 days left. (with Johnnie)

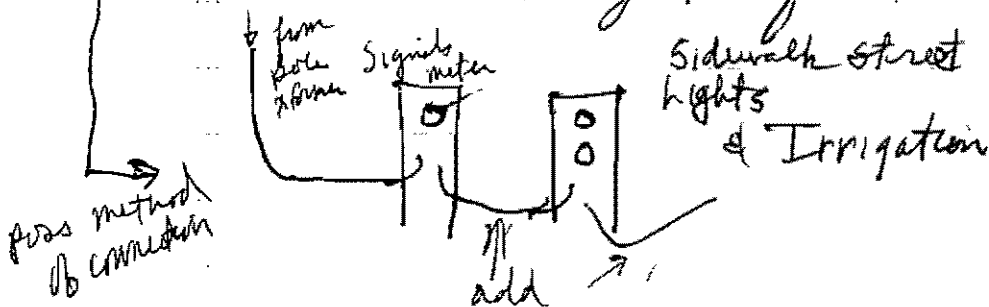
Sidewalk - N. Side Arapaho to be done

Trench @ Car America - still open -

End of next week for 2 poles on Quorum  
3 & riser feeds addresser wide -  
feed direction work needs to be done

Need 2 meters @ Quorum & Arapaho -

Empty conduit @ pole should be for 480V  
Streetlight feed



Called Joel for  
follow up 6-22-99

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Wednesday, June 09, 1999 10:05 AM  
**To:** Jeanne Hooker; kenny.martin@tu.com; jpierce@ci.addison.tx.us; binmon@tue.com; JBaumgartner@ci.addison.tx.us; jimmy.fletcher@tu.com; richard.lorenz@tu.com  
**Subject:** Meeting

Jeanne and I believe it would benefit all of us if we had a short meeting this Friday at 11:00 a.m. at the Addison Service Center. We need to discuss what remains to be done and who is responsible for each aspect of the remaining work. Considering what transpired this past week, we're overdue for a meeting. John, Jim, please inform Ed Bell Construction of this meeting so that they can have someone in attendance too. Let me know if you can make it or if this time is not convenient. Jeanne has a meeting in the morning, so an earlier time would not work.

Jim, I also need a status report ASAP as to when the ditch will be reopened. Our crews are ready to make the connections this coming Sunday but only if it is opened before then. Also, Carramerica says we can do a clearance that day but they need to know soon for certain if we will be doing the work so they can notify their tenants.

Drupah

6-9-99

Johnnie called -

Cannot get meter at Quorum  
because overhead lines are not hot.

Overhead lines cannot be energized  
until the Car America switch takes  
place. They take place together

This info came from  
Jimmie Fletcher (meter setting person)  
972-323-8942

11:30 AM There was a mis-understanding between  
Johnnie & Bobby Inmon as to who would  
pull wires from the pad mt. X former @  
Edwin Lewis. That has now been cleared  
up and TU will pull the wires. That should  
be done today or tomorrow @ the latest &  
both meters should be energized. Johnny  
has technician scheduled for Friday and  
will upgrade to Thurs. if possible.



Pat

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Tuesday, June 08, 1999 3:03 PM  
**To:** jpierce@ci.addison.tx.us  
**Cc:** Jeanne Hooker; jimmy.fletcher@tu.com; kenny.martin@tu.com; binmon@tue.com  
**Subject:** Re: Arapaho Road

Jim,

From what I understand we couldn't do the work in the trench until prior work was completed and a clearance was coordinated with the Carramerica building. Bottom line is Ed Bell Const. filled in a trench they didn't excavate and didn't confer with us before they did it. Whether it's 2 days or 2 months, that shouldn't be done. There are other options such as metal plates to cover it. Also, if the pile of dirt was covering where they needed to install the pull box they could have contacted us to remedy the situation. Our distribution department is not interested in taking on the cost of reexcavating the trench since we made all necessary parties aware we would be beginning the remaining work on Saturday, June 5 at 11:00 am. As it stands now, we are going to have to reschedule another clearance with Carramerica which is not going to make their tenants happy. We will probably also have to pay overtime to our crews since it will most likely be on a Sunday because Carramerica closed the building to some of their tenants last week. We will have a supervisor check the trench to make sure it meets our specifications.

Joel

jpierce@ci.addison.tx.us on 06/08/99 02:01:56 PM

**To:** Joel Porter/Texas Utilities  
**cc:** Bob Inmon/Texas Utilities, Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** Arapaho Road

The trench at the SE corner of Arapaho and Quorum was backfilled by Ed Bell Const. because the dirt from the trench was piled where he had to install a pull box to get the signals up and running. As you know, the signals are high priority. Ed Bell stated that that trench was open for over 2 months and TXU had adequate time to do whatever needed to be done in the trench. (The sidewalk was also in danger of being undermined). Therefore, Ed Bell states he will not re-excavate the trench. I think it best that TXU coordinate and control the whole operation and re-excavate the trench, as that way, the depth and location will better suit your needs, Ed Bell will not be at risk damaging your facilities and causing further delay, and the trench will be open for a minimum amount of time. This also gives you more positive control of the outage required. Please advise. Jim.

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Tuesday, June 08, 1999 3:03 PM  
**To:** jpierce@ci.addison.tx.us  
**Cc:** Jeanne Hooker; jimmy.fletcher@tu.com; kenny.martin@tu.com; binmon@tue.com  
**Subject:** Re: Arapaho Road

*Read second*  
↙

Jim,

From what I understand we couldn't do the work in the trench until prior work was completed and a clearance was coordinated with the Carramerica building. Bottom line is Ed Bell Const. filled in a trench they didn't excavate and didn't confer with us before they did it. Whether it's 2 days or 2 months, that shouldn't be done. There are other options such as metal plates to cover it. Also, if the pile of dirt was covering where they needed to install the pull box they could have contacted us to remedy the situation. Our distribution department is not interested in taking on the cost of reexcavating the trench since we made all necessary parties aware we would be beginning the remaining work on Saturday, June 5 at 11:00 am. As it stands now, we are going to have to reschedule another clearance with Carramerica which is not going to make their tenants happy. We will probably also have to pay overtime to our crews since it will most likely be on a Sunday because Carramerica closed the building to some of their tenants last week. We will have a supervisor check the trench to make sure it meets our specifications.

Joel

*Read First*  
↙

jpierce@ci.addison.tx.us on 06/08/99 02:01:56 PM

**To:** Joel Porter/Texas Utilities  
**cc:** Bob Inmon/Texas Utilities, Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** Arapaho Road

*(pat)*

The trench at the SE corner of Arapaho and Quorum was backfilled by Ed Bell Const. because the dirt from the trench was piled where he had to install a pull box to get the signals up and running. As you know, the signals are high priority. Ed Bell stated that that trench was open for over 2 months and TXU had adequate time to do whatever needed to be done in the trench. (The sidewalk was also in danger of being undermined). Therefore, Ed Bell states he will not re-excavate the trench. I think it best that TXU coordinate and control the whole operation and re-excavate the trench, as that way, the depth and location will better suit your needs, Ed Bell will not be at risk damaging your facilities and causing further delay, and the trench will be open for a minimum amount of time. This also gives you more positive control of the outage required. Please advise. Jim.

Post-it® Fax Note	7671	Date	6-8-99	# of pages	▶ 1
To	Robert Weber	From	Jim Pierce		
Co./Dept.	Ed Bell	Co.	Addison		
Phone #		Phone #	972-450-2879		
Fax #	214-352-3201	Fax #			

*Robert -  
Please call -  
I need your help  
on this one.  
Jim*

Arapaho

6-9-99

Johnnie called -

Cannot set meter at Quorum  
because overhead lines are not hot.

Overhead lines cannot be energized  
until the Carr America switch takes  
place. They take place together

This info came from  
Jimmie Fletcher (meter setting person)  
972-323-8942

(found out later overhead wires  
are hot.)

Telcom from

6-8-99

Bobby Inman

Meters : @ Quorum & Edwin Lewis for Signals

Greg Hilton - looked @ meters

( Got permit & order to set meters )

Wire from Meter to traffic signals not in yet

all wires must be terminated in meter box  
Wires from source & wires from load.

Telcom from Joel Porter:

6-8-99

2 meters dont have

conductors pulled into -

2<sup>nd</sup>ary last responsibility on U.G.

Edwin Lewis - Pad is locked - Someone  
will have to meet svc man on site

Call Jimmie Fletcher TU

- 972-323-8942 -

Called Tim/  
Mel's Electric  
on this

we will  
get it done.

Ditch needs to be opened up  
Needs to be opened back up -

TOWN OF  
**ADDISON**

**PUBLIC WORKS**

To: Joel Porter

From: James C. Pierce, Jr., P.E., DEE  
Assistant City Engineer  
Phone: 972/450-2879  
FAX: 972/450-2834

Company: TXU

FAX #: 972-888-1304

Date: 6-7-99

16801 Westgrove  
P.O. Box 9010  
Addison, TX 75001-9010

# of pages (including cover): 2

Re: Arapaho Rd / Edwin Lewis Drive

- Original in mail       Per your request       FYI       Call me

Comments: \_\_\_\_\_

*Attached is a "map" showing  
what needs to be done here.*

*We need a pad mounted  
transformer and a meter.*

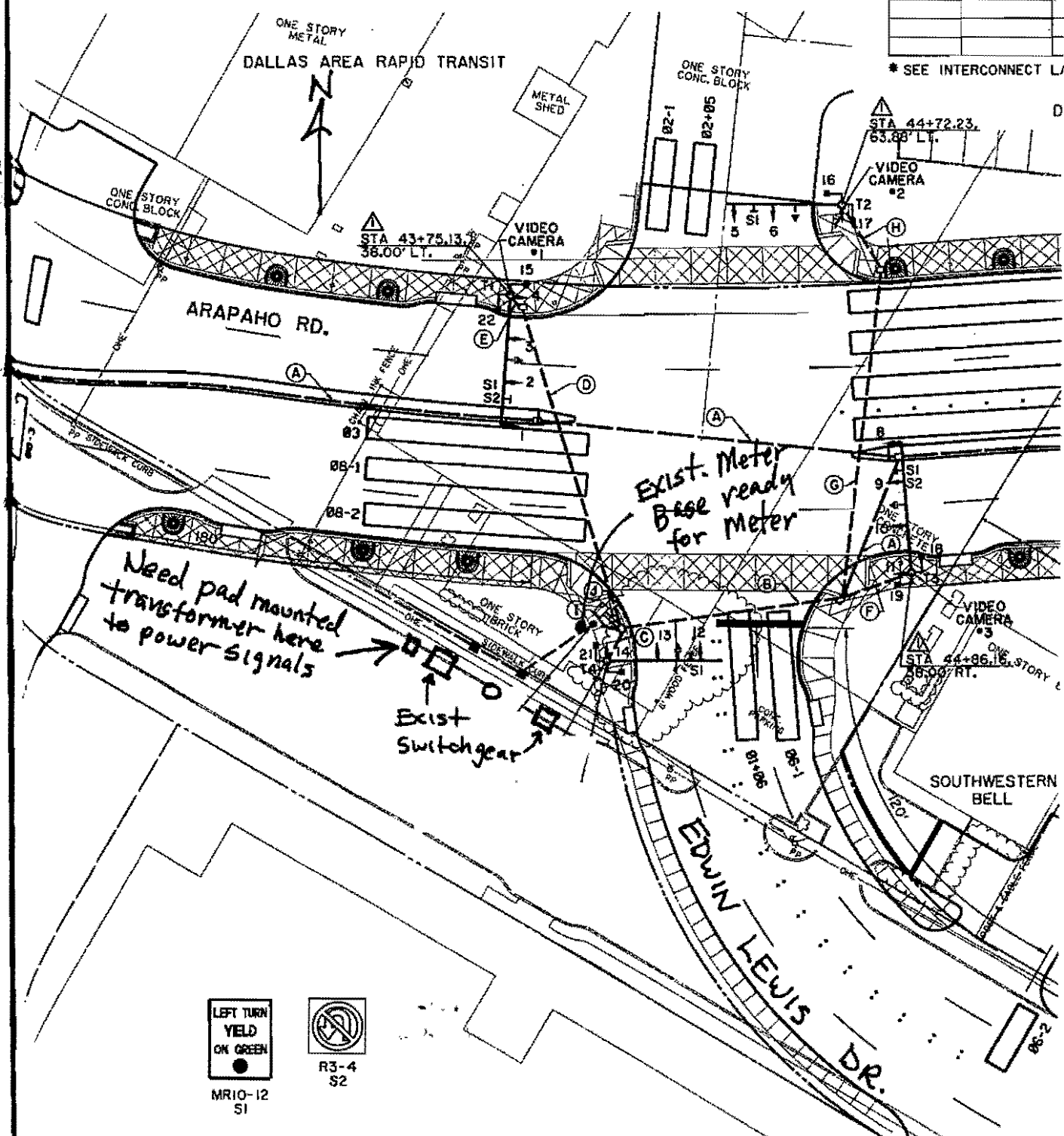
*Please call if you have any  
questions*

*Jim*

# CABLE VERIFICATION CHART

CABLE CONDUCTOR	T-1		T-2		T-3		T-4	
	S. H. NO.	INDICATION	S. H. NO.	INDICATION	S. H. NO.	INDICATION	S. H. NO.	INDICATION
WHITE/BLACK	SPARE		SPARE		SPARE		SPARE	
WHITE	COMMON		COMMON		COMMON		COMMON	
RED	1-4	R	5-7	R	8-11	R	12-14	R
RANGE	1-4	Y	5-7	Y	8-11	Y	12-14	Y
GREEN	1-4	G	5-7	G	8-11	G	12-14	G
BLUE	1	--G	5	--G	8	--G	12	--G
BLACK	1	--Y	5	--Y	8	--Y	12	--Y
BLUE/BLACK	4	G--	7	G--	11	G--	14	G--
BLACK/WHITE	4	Y--	7	Y--	11	Y--	14	Y--
GREEN/BLACK	22	W	16	W	18	W	20	W
GREEN/WHITE	16	W	17	W	19	W	21	W
RED/BLACK	22	DW	16	DW	18	DW	20	DW
RED/WHITE	15	DW	17	DW	19	DW	21	DW
RANGE/BLACK	PB22	Ø2	PB16	Ø4	PB18	Ø6	PB20	Ø8
BLUE/WHITE	PB15	Ø4	PB17	Ø6	PB19	Ø8	PB21	Ø2
BLACK/RED	P. B. COM		P. B. COM		P. B. COM		P. B. COM	

RUN NO.	SIZE/TYPE CONDUIT
* A	2" PVC
B	4" PVC
C	3" PVC
D	3" PVC
E	3" PVC
F	3" PVC
G	3" PVC
H	3" PVC
I	2" PVC
J	2-3" PVC



LEFT TURN  
YIELD  
ON GREEN  
MR10-12  
51

R3-4  
S2

TOWN OF  
**ADDISON**

*Faxed  
8:40 AM*

**PUBLIC WORKS**

To: Joel Porter

From: James C. Pierce, Jr., P.E., DEE

Company: TXU

Assistant City Engineer

Phone: 972/450-2879

FAX: 972/450-2834

FAX #: 972-888-1304

Date: 6-7-99

16801 Westgrove

P.O. Box 9010

Addison, TX 75001-9010

# of pages (including cover): 2

Re: Arapaho Rd / Quorum Rd

Original in mail

Per your request

FYI

Call me

Comments: Attached is a "map" of what  
needs to be done at above site.

We need the meter set immediately  
so we can get the signals working.  
We are waiting on the meter.

Map of Edum Lewis to follow

Please call if you have any  
questions

Jim



# CONDUIT RUNS

SIZE/TYPE CONDUIT	CABLE TYPE						LENGTH OF CONDUIT	FINAL
	2 COND #6 XHHW WIRE POWER	#6 BARE WIRE GROUND	COAX CABLE	4 CNDR. #20 CABLE OPT	16 CNDR. CABLE	3 CNDR. VIDEO		
2" PVC								
3" PVC		15	15	15	15	15	9	
3" PVC		104	104	104	104	104	98	
2-3" PVC	12	36	48	48	48	48	12	6
3" PVC	20	20	20	20	20	20		
3" PVC		20	10	10	10	10		
2" PVC								
2" PVC	16	16						
2" PVC		80						
2" PVC		32					32	26
4" PVC		107	214	214	214	214		101
3" PVC		24	12	12	12	12		7
3" PVC		126	126	126	126	126		120
3" PVC		11	11	11	11	11		5

Poles to be removed to build Sidewalk

Risers need to be removed.

New Poles have been set

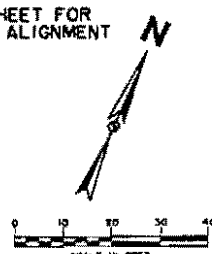
Near pole has been set Transformer has been set on pole.

Need Meter set - here OF ADDISON to run signals. Meter base ready.

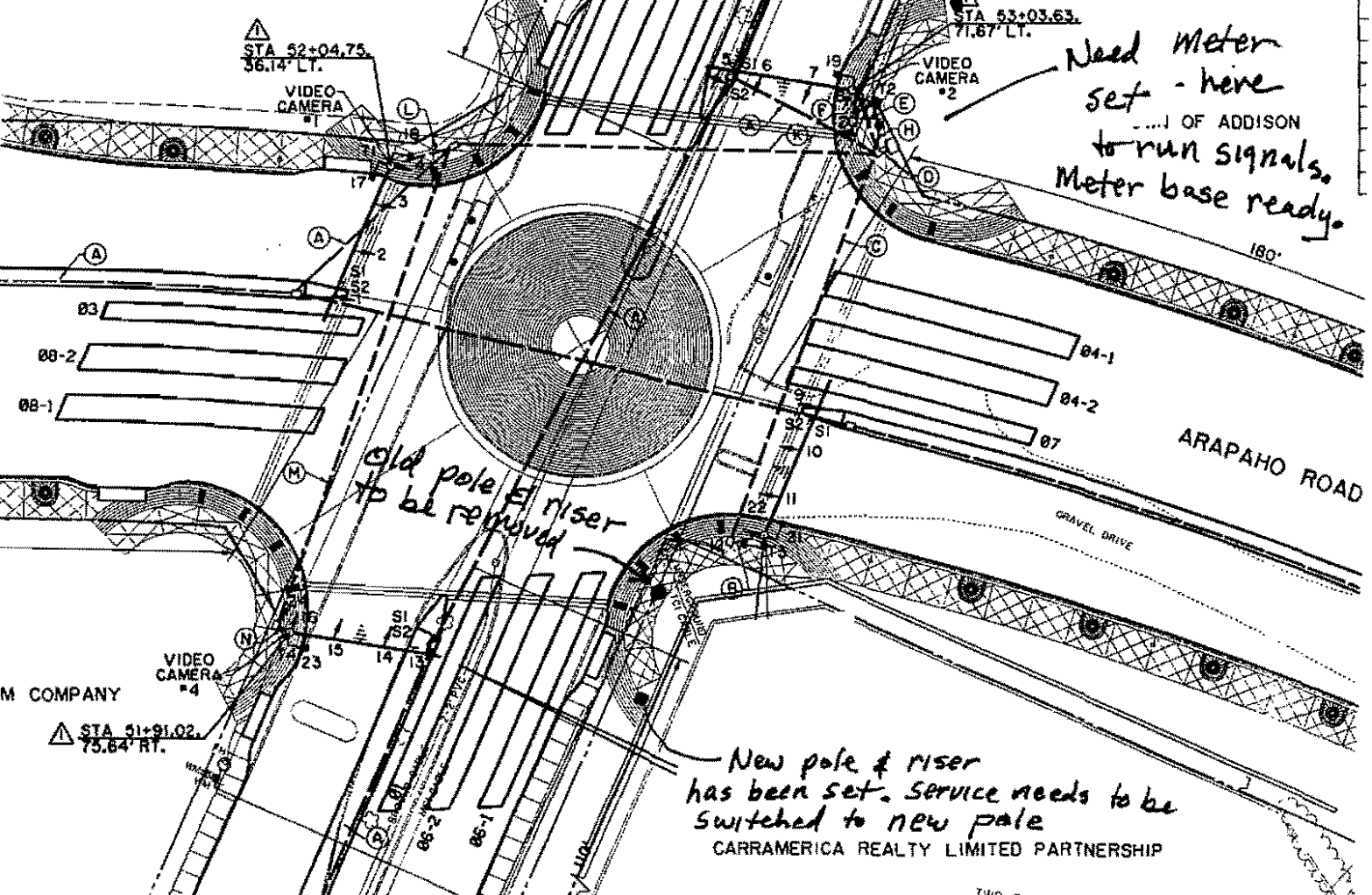
Old pole & riser to be removed

New pole & riser has been set. Service needs to be switched to new pole

CONNECT  
INTERCONNECT LAYOUT SHEET FOR  
CONNECT QUANTITY AND ALIGNMENT



AREA RAPID TRANSIT



MR10-12  
S1

CARRAMERICA REALTY LIMITED PARTNERSHIP

TWO STORY

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Thursday, May 20, 1999 11:20 AM  
**To:** Bobby Inmon (E-mail); Joel Porter (E-mail)  
**Cc:** Dave Wilde; Mitchell  
**Subject:** FW: Electric Meters @ NE Corner Arapaho & Quorum, 15400 Quorum Drive

OK, we are back to 3 meters on Quorum. We want the 3 separate meters. However this may help: For the signals at Arapaho and Addison Rd, we will "upgrade" and use the existing meter #81 66317; 67266317 at that location. If a pedestal was ordered for this, it could be used at Quorum. Joel: Please cancel the new meter address @ 15300 Addison Rd as per above.

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

**From:** [binmon@tue.com](mailto:binmon@tue.com) [SMTP:binmon@tue.com]  
**Sent:** Thursday, May 20, 1999 8:21 AM  
**To:** [jpierce@ci.addison.tx.us](mailto:jpierce@ci.addison.tx.us)  
**Subject:** Re: Electric Meters @ NE Corner Arapaho & Quorum, 15400 Quorum Drive

The median lights that TXU installs in the median of new Arapaho Road will not require a meter. The lights will be billed to the Town of Addison on a monthly rate. But you would like separate meters for the irrigation, signal lights and the sidewalk lights- needing 3 meter bases? I will have to order another single meter pedestal, which may take 3 to 4 weeks. If this is correct, I will have the service center order another single meter pedestal today to speed up the receiving process. Thanks.

Post-it® Fax Note	7671	Date	5/20/99	# of pages	1
To	Johnnie	From	Jim Pierce		
Co./Dept.	Mel's Elec	Co.	Addison		
Phone #		Phone #	472-450-2879		
Fax #	214-565-1081	Fax #			

*Faxed*

*cc Pat Rivera*

**Jim Pierce**

**To:** Joel Porter (E-mail); Bobby Inmon (E-mail)  
**Cc:** Slade Strickland; Mitchell; Dave Wilde  
**Subject:** Electric Meters @ NE Corner Arapaho & Quorum, 15400 Quorum Drive

Joel/Bobby: One final change on the meter set-up:

Meter A shall serve the traffic signals

Meter B shall serve the irrigation controller

Meter C shall serve the sidewalk streetlights

~~Meter D shall serve the median streetlights~~

So we will have <sup>1</sup> meters there. Sorry about the last minute changes. Jim.

3

Faxed  
to Johnnie  
@ Mel's Electric

cc Pat Rivera ✓

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Monday, May 10, 1999 3:30 PM  
**To:** jpierce@ci.addison.tx.us  
**Subject:** Re: Meter Address

The record has been corrected.

jpierce@ci.addison.tx.us on 05/10/99 10:43:00 AM

**To:** Joel Porter/Texas Utilities, Bob Inmon/Texas Utilities  
**cc:**  
**Subject:** Meter Address

Back in November, I gave you a meter address for a meter to serve our traffic signal controller at the SW corner of Arapaho Rd and Addison Rd as 15299 Addison Road. Please cancel that address. We have moved the traffic controller to the NE corner and the new meter address will be 15300 Addison Road. Thanks, Jim.

Jim Pierce

To: Joel Porter (E-mail); Bobby Inmon (E-mail)

Subject: Meter Address

Back in November, I gave you a meter address for a meter to serve our traffic signal controller at the SW corner of Arapaho Rd and Addison Rd as 15299 Addison Road. Please cancel that address. We have moved the traffic controller to the NE corner and the new meter address will be 15300 Addison Road. Thanks, Jim.

Feeds  
Both  
Intersections  
(Lindberg &  
Arapaho)

Existing  
Meter #  
81 66317  
67266317  
Addison Rd @ Arapaho  
5-20-99

**Jim Pierce**

**To:** Joel Porter (E-mail); Bobby Inmon (E-mail)  
**Cc:** Slade Strickland; Mitchell; Dave Wilde  
**Subject:** Electric Meters @ NE Corner Arapaho & Quorum, 15400 Quorum Drive

Joel/Bobby: One final change on the meter set-up:

Meter A shall serve the traffic signals

Meter B shall serve the irrigation controller

Meter C shall serve the sidewalk streetlights

~~Meter D shall serve the median streetlights~~

So we will have 4 meters there. Sorry about the last minute changes. Jim.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Wednesday, January 06, 1999 3:52 PM  
**To:** Joel Porter (E-mail)  
**Cc:** Bobby Inmon (E-mail); Slade Strickland; Ron Davis; Mitchell  
**Subject:** Electric Meters @ N.E. Corner Arapaho & Quorum, 15400 Quorum Drive

Meter A shall serve the traffic signals

Meter B shall serve the Irrigation controller ~~and the Pedestrian Street Lights~~

Jim.

Meter C Street Lights ... Median of Sidewalk

TOWN OF  
**ADDISON**

*Faxed*

**PUBLIC WORKS**

To: Bobby Inman

From: James C. Pierce, Jr., P.E., DEE  
Assistant City Engineer  
Phone: 972/450-2879  
FAX: 972/450-2837

Company: TU Electric

FAX #: 214/812-7828

Date: 11/17-98

To Pat Rivera  
Ed Bell ✓  
214-352-3201  
12-10-98 10

# of pages (including cover): 1

Re: Arapaho Road

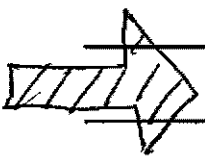
- Original in mail
- Per your request
- FYI
- Call me

Comments: Meter addresses:

S.W. Corner Arapaho & Addison Rd:  
15299 Addison Road

S.W. Corner Edwin Lewis Drive (old Arapaho)  
and new Arapaho:  
4898 Arapaho Rd.

Arapaho & Quorum, N.E. Corner:  
15400 (A & B) Quorum Drive



CC Joel Porter @ 972-888-1304

*Faxed*

11-19-98



**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Thursday, May 13, 1999 9:50 AM  
**To:** jpierce@ci.addison.tx.us  
**Cc:** jhooker1@tu.com  
**Subject:** Re: Locate Requests

I just got off the phone with Pat and it appears that whoever he is sending his locate requests to is not forwarding the info to us. I will work out the problems with Pat and find out who it is he's sending the requests to or at least give him a contact with us so we'll know what he needs done.

JP

jpierce@ci.addison.tx.us on 05/12/99 12:23:38 PM

**To:** Bob Inmon/Texas Utilities, Joel Porter/Texas Utilities  
**cc:** Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** Locate Requests

I have been advised by Pat Rivera, Supt., Ed Bell Construction, (214-507-4916) that he has not been getting satisfactory response on his requests for locates. This causes project delays and has obvious safety implications. Please do whatever possible to improve this situation. Thanks, Jim.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Thursday, May 06, 1999 4:12 PM  
**To:** Joel Porter (E-mail); Bobby Inmon (E-mail)  
**Cc:** Jeanne Hooker (E-mail)  
**Subject:** Arapaho Road Up-date

We now know that DART intends to open the Transit Center on June 7, 1999. Approximately 2 weeks prior to that, the road needs to be open as their bus drivers need to make training runs on their new routes to prepare for the opening.

At a minimum, the intersections with Addison Road, Edwin Lewis Drive and Quorum Drive need to be completed, and the signals need to be working. This means we need power to our controllers at each intersection. As per a previous message from Joel, the poles in the sidewalk on Quorum are to be moved this week.

This is to request that you focus on and redouble your efforts to meet our needs to accommodate the Transit Center opening. Please call me at 972-450-2879 if you have any questions.

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Monday, May 10, 1999 3:37 PM  
**To:** jpierce@ci.addison.tx.us  
**Subject:** Re: Arapaho Rd/Quorum Dr

At this time I do not have a new schedule. We are short handed since some of our crews are in Moore, OK to help restore service in the aftermath of the tornado. That's pretty standard practice among all electrical utilities when serious, wide-spread damage occurs. They would do the same for us if it was the other way around. I'll let you know more once I hear anything new in the next day or two.

jpierce@ci.addison.tx.us on 05/07/99 11:57:14 AM

**To:** Joel Porter/Texas Utilities, Bob Inmon/Texas Utilities  
**cc:** Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** Arapaho Rd/Quorum Dr

As of 10:45 AM today there was no activity on Quorum Dr, just north of Arapaho as was scheduled previously. Please let me know what the new work schedule is. Jim.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Tuesday, May 04, 1999 9:47 AM  
**To:** Joel Porter (E-mail); Bobby Inmon (E-mail)  
**Cc:** Jeanne Hooker (E-mail)  
**Subject:** Quorum Drive

My notes indicate that the work that needs to be done on Quorum Drive, just north of Arapaho, was scheduled for the latter part of this week. Please follow up on this for me. Thanks, Jim.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Tuesday, April 27, 1999 8:07 AM  
**To:** 'Joel Porter (E-mail)'; 'Bobby Inmon (E-mail)'  
**Cc:** 'Jeanne Hooker (E-mail)'  
**Subject:** RE: Arapaho Road/Quorum Drive

Follow-up: The power lines have been moved over, but there are still 2 old poles (with risers) in the sidewalk area that need to be moved. The rest of the original message still stands. Jim.

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

**From:** Jim Pierce  
**Sent:** Tuesday, March 30, 1999 9:40 AM  
**To:** Joel Porter (E-mail); Bobby Inmon (E-mail)  
**Cc:** Jeanne Hooker (E-mail)  
**Subject:** Arapaho Road/Quorum Drive

Thanks for your help in getting the new poles installed along Quorum Drive at Arapaho. Now we need the power lines moved from the old poles to the new poles, and the old poles removed.. This work needs to be done so that sidewalk construction can proceed. Right now, the contractor is being held up. Also, we will need our power supply at this intersection for street lights, pedestrian lights, traffic signals and irrigation controller. Power supplies will be needed soon at Edwin Lewis Drive and Addison Road for signals. Your attention to these matters will be most appreciated. Jim.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Friday, April 09, 1999 10:28 AM  
**To:** Jeanne Hooker (E-mail); Joel Porter (E-mail)  
**Cc:** John Baumgartner  
**Subject:** Arapaho Road/Quorum Drive

This is to once again request your help in getting the power lines moved to the new poles on Quorum, at new Arapaho. Also, then removing the old poles so sidewalk construction can proceed. We wanted to have the sidewalk in for Taste Addison May 15&16, but won't occur unless this work gets done now. Bobby Inmon has been trying to get the work done to no avail. We need help from the top. Please advise. Thanks, Jim.

TOWN OF  
**ADDISON**

*Faxed*

**PUBLIC WORKS**

To: Bobby Inmon

From: James C. Pierce, Jr., P.E., DEE

Company: TU Electric

Assistant City Engineer

Phone: 972/450-2879

FAX #: 214-812-7828

FAX: 972/450-2834

Date: 4-5-99

16801 Westgrove

P.O. Box 9010

Addison, TX 75001-9010

# of pages (including cover): 2

Re: Arapaho Rd.

Original in mail

Per your request

FYI

Call me

Comments: Plan attached shows streetlight  
that needs to be relocated.

We will pour the foundation for  
the Light.

*Jim*

cc Pat Rivera

Dave Wilde

CARRAMERICA REALTY LIMITED PARTNERSHIP

1/4" CROSS SLOPE  
TRANSITION

6" THICK 650 PSI FLEX  
REINF. CONC. DRIVE



FIVE STORY  
CLASS & MARBLE

16+22

EX. 1/4" CROSS SLOPE  
1/4" CROSS SLOPE

EXISTING IRRIGATION  
CONTACT BUILDING  
MANAGEMENT SUITE 380  
PRIOR TO DEMOLITION.

17+10.37' LT.  
COMBINATION  
SIDEWALK  
RETAINING WALL

17+05.39' LT.  
CONSTRUCT  
STREET LIGHT  
FOUNDATION

MATCH PVM  
AT EX. JOINT

LONGITUDINAL  
BUTT JOINT

MATCH  
EX. T.C.

17+61.53' LT.  
COMBINATION  
SIDEWALK  
RETAINING WALL

MATCH EX.  
T.C. 622.45

T.C. 622.00

PAV. STA. 17+69  
6" 14" REC. INLET  
T.C. 620.73  
F.L. 616.73

MATCH EX.  
T.C. 622.44

10" R  
T.C. 622.20

T.C. 621.55

T.C. 621.70

T.C. 621.15

T.C. 620.75

T.C. 620.89

T.C. 620.69

T.C. 621.86

T.C. 621.95

T.C. 621.65

T.C. 621.35

C DRIVE  
A= 54°08'45"  
R= 32.00'  
T= 16.36'  
L= 30.25'

T.C. 621.80

EXP. JOINT

55+66.98

51.81'

T.C. 621.30

T.C. 621.55

T.C. 621.70

T.C. 621.15

T.C. 620.75

T.C. 620.89

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

T.C. 619.94

STREET LIGHT TO BE RELOCATED

SPECTRUM

MP  
T.C. 622.70

T.C. 622.44

T.C. 622.41

T.C. 621.95

T.C. 621.44

T.C. 620.89

T.C. 620.69

T.C. 621.86

T.C. 621.95

T.C. 621.65

T.C. 621.35

T.C. 619.94

T.C. 619.94

MATCH EX.  
T.C.

16+26.97  
P.C. LEFT  
TURN LANE

250'R

16+99.08  
C.R.

17+23.38

17+26.48  
P.C. RT. TURN LANE

250'R

17+55.43, 37.42' RT.  
P.C. RT. TURN LANE

18+03.08, 42.00' RT.  
P.C. RT. TURN LANE

18+03.08, 42.00' RT.  
P.C. RT. TURN LANE

18+03.08, 42.00' RT.  
P.C. RT. TURN LANE

18+03.08, 42.00' RT.  
P.C. RT. TURN LANE

18+03.08, 42.00' RT.  
P.C. RT. TURN LANE

LONGITUDINAL  
BUTT JOINT

6" MONO. CONC.  
CURB (TYP.)

T.C. 621.65

T.C. 621.35

T.C. 621.44

T.C. 620.89

T.C. 620.69

T.C. 621.86

T.C. 621.95

T.C. 621.65

T.C. 621.35

T.C. 619.94

T.C. 619.94

IRRIGATION IN EXISTING  
MEDIAN CONTACT TOWN  
OF ADDISON PRIOR TO  
DEMOLITION

STA. 16+22  
UNDERCUT HEADER

T.C. 621.65

T.C. 621.35

T.C. 621.44

T.C. 620.89

T.C. 620.69

T.C. 621.86

T.C. 621.95

T.C. 621.65

T.C. 621.35

T.C. 619.94

T.C. 619.94

MEPC QUORUM PROPERTIES I INC.

COORDINATE DRIVEWAY  
CONSTRUCTION WITH  
DRIVE THRU BANK TO  
INSURE CUSTOMER ACCESS

18+03.08, 42.00' RT.  
P.C. RT. TURN LANE

EX. T.C.

16+22 MATCH  
EXISTING T.C.

EX. 1.002

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. GROUND AT LT. B.O.W.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.

EX. T.C.



**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Tuesday, March 30, 1999 9:40 AM  
**To:** Joel Porter (E-mail); Bobby Inmon (E-mail)  
**Cc:** Jeanne Hooker (E-mail)  
**Subject:** Arapaho Road/Quorum Drive

Thanks for your help in getting the new poles installed along Quorum Drive at Arapaho. Now we need the power lines moved from the old poles to the new poles, and the old poles removed.. This work needs to be done so that sidewalk construction can proceed. Right now, the contractor is being held up. Also, we will need our power supply at this intersection for street lights, pedestrian lights, traffic signals and irrigation controller. Power supplies will be needed soon at Edwin Lewis Drive and Addison Road for signals. Your attention to these matters will be most appreciated. Jim.

4-5-99- Bobby Inmon called - guy wire needed @ pole on Quorum will be installed by the overhead crew when they come in, if they haven't already. If not done last week, should be done this week.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Tuesday, March 16, 1999 3:52 PM  
**To:** 'jporter1@tu.com'  
**Cc:** Bobby Inmon (E-mail); Jeanne Hooker (E-mail)  
**Subject:** RE: Arapaho Road Gas Line Locates

Joel: Thanks for the update. I need your help with another item, and that is, getting the 3 street light poles removed from the north side of Arapaho, west of the Tollway. The contractor is lime stabilizing in that area right now, preparing for paving. Anything you can do to expedite this will be most appreciated. Thanks, Jim.

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

**From:** [jporter1@tu.com](mailto:jporter1@tu.com) [SMTP:[jporter1@tu.com](mailto:jporter1@tu.com)]  
**Sent:** Tuesday, March 16, 1999 10:57 AM  
**To:** [jpierce@ci.addison.tx.us](mailto:jpierce@ci.addison.tx.us)  
**Cc:** Jeanne Hooker  
**Subject:** Re: Arapaho Road Gas Line Locates

Jim,

Here is an update on the gas line locates.

----- Forwarded by Joel Porter/Texas Utilities on 03/16/99  
10:47 AM -----

Kathy A Brown  
03/16/99 07:50 AM

Sent by: Kathy Brown

To: Joel Porter/Texas [Utilities@TU](mailto:Utilities@TU)  
cc:  
Subject: Re: Arapaho Road Gas Line Locates (Document link not converted)

When our locator, Louis Meadors was out at this location the first week of March, the main was flagged and the curb was painted marking the gas lines. Also carsonite signs installed for gas. Mr. Meadors will try to go by sometime today, he has commitments scheduled and will do his best to further check on their work progress.

To: Michael L Smith/Texas [Utilities@TU](mailto:Utilities@TU), Kathy A Brown/[LSG/ENSERCH/US@TU](mailto:LSG/ENSERCH/US@TU),  
James Switzer/Texas [Utilities@TU](mailto:Utilities@TU)  
cc:  
Subject: Arapaho Road Gas Line Locates  
From: Joel Porter

To: Mike Smith, Kathy Brown, Jim Switzer  
cc:  
Subject: Arapaho Road Gas Line Locates

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Tuesday, March 16, 1999 10:57 AM  
**To:** jpierce@ci.addison.tx.us  
**Cc:** Jeanne Hooker  
**Subject:** Re: Arapaho Road Gas Line Locates

Jim,

Here is an update on the gas line locates.

----- Forwarded by Joel Porter/Texas Utilities on 03/16/99 10:47 AM -----  
-----

Kathy A Brown

03/16/99 07:50 AM

Sent by: Kathy Brown

**To:** Joel Porter/Texas Utilities@TU  
**cc:**  
**Subject:** Re: Arapaho Road Gas Line Locates (Document link not converted)

When our locator, Louis Meadors was out at this location the first week of March, the main was flagged and the curb was painted marking the gas lines. Also carsonite signs installed for gas. Mr. Meadors will try to go by sometime today, he has commitments scheduled and will do his best to further check on their work progress.

**To:** Michael L Smith/Texas Utilities@TU, Kathy A Brown/LSG/ENSERCH/US@TU,  
James Switzer/Texas Utilities@TU  
**cc:**  
**Subject:** Arapaho Road Gas Line Locates  
**From:** **Joel Porter**  
**To:** Mike Smith, Kathy Brown, Jim Switzer  
**cc:**  
**Subject:** Arapaho Road Gas Line Locates

**To:** Michael L Smith/Texas Utilities@TU, Kathy A Brown/LSG/ENSERCH/US@TU,  
James Switzer/Texas Utilities@TU  
**cc:**  
**Subject:** Arapaho Road Gas Line Locates

Whoever can help in getting this done, or can shed some light on what has happened would be a great help.

Thanks,

Joel

----- Forwarded by Joel Porter/Texas Utilities on 03/15/99 04:10 PM -----  
-----

jpierce@ci.addison.tx.us on 03/15/99 03:25:25 PM

To: Jeanne Hooker/LSG/ENSERCH/US, Joel Porter/Texas Utilities  
cc: JBaumgartner@ci.addison.tx.us, mmurphy@ci.addison.tx.us  
Subject: Arapaho Road Gas Line Locates

Our Contractor has been unable to get gas line locates for his road construction activities at the east end of this project near the Tollway. They have hit one gas line, and have exposed 3 laterals that have never been located. I have called Howard Lewis to no avail. Please give this matter your personal attention. Thanks, Jim.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Friday, February 19, 1999 8:29 AM  
**To:** Bobby Inmon (E-mail); Joel Porter (E-mail)  
**Cc:** Jeanne Hooker (E-mail)  
**Subject:** Quorum Drive

This is to again request that the poles be moved out of the sidewalk area along Quorum Drive. A new pole must also be set on the SE corner of Quorum and Arapaho. Failure to do this is holding up construction progress. Please advise when this work will be done. Jim.

---

## CONSENT AGENDA

- #2a - Approval of the Minutes for the February 9, 1999, Council Meeting.
- 
- #2b - Approval of a 9-1-1 billing agreement with Level (3) Communications, which has received a Service Provider Certificate of Operating Authority (SPCOA) from the Texas Public Utilities Commission.
- 
- #2c - Approval of a 9-1-1 billing agreement with Intermedia Communications, Inc., which has received a Service Provider Certificate of Operating Authority (SPCOA) from the Texas Public Utilities Commission.
- 
- #2d - Consideration of a Resolution authorizing the dedication of a 10 foot strip of land for the extension and widening of Quorum Drive.
-

#2d

TOWN OF ADDISON, TEXAS

RESOLUTION NO. \_\_\_\_\_

A RESOLUTION OF THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS, AUTHORIZING THE DEDICATION OF A 10 FOOT STRIP OF LAND FOR THE EXTENSION AND WIDENING OF QUORUM DRIVE; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Town of Addison is widening, extending and constructing improvements on Quorum Drive; and

WHEREAS, it is necessary to relocate utilities that are on the existing right-of-way; and

WHEREAS, the Town desires to dedicate a 10 foot strip of land to accommodate the utility location.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS:

Section 1. That the above recitals are true and correct and incorporated herein for all purposes.

Section 2. That the City Council hereby authorizes the dedication of a 10 foot wide strip of land to the public forever as described on Exhibit A attached hereto, for use by the public for street purposes.

Section 3. That the City Secretary shall file a copy of this resolution in the Deed and Plat Records of Dallas County, Texas.

Section 4. That this resolution shall take effect immediately upon passage and approval, and it is so resolved.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE TOWN OF ADDISON, TEXAS, this \_\_\_\_\_ day of \_\_\_\_\_, 1999.

ATTEST:

\_\_\_\_\_  
Mayor  
Town of Addison, Texas

\_\_\_\_\_  
City Secretary  
Town of Addison, Texas

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney  
Town of Addison, Texas

January 7, 1999

**FIELD NOTE DESCRIPTION**

Being a tract of land situated in the C.W. FISHER SURVEY, ABSTRACT 482, Town of Addison, Dallas County, Texas, and being a portion of a 6.272 Acres tract of land to the Town of Addison as recorded in Volume 93243, Page 6422, in the Deed Records of Dallas County, Texas, and being more particularly described as follows:

**COMMENCING** at a 5/8 inch iron rod found for the most northwesterly corner of said 6.272 acres tract, said corner also being in the easterly right-of-way line of Quorum Drive (80 feet right-of-way) and the southerly right-of-way line of the St. Louis & Southwestern Railroad (100 feet right-of-way);

**THENCE** departing said easterly right-of-way of Quorum Drive and with the southerly right-of-way line of said St. Louis & Southwestern Railroad and the northerly line of said 6.272 acres tract, North 66°12'00" East, a distance of 6.49 feet to the **POINT OF BEGINNING**;

**THENCE** continuing with the northerly line of said 6.272 acres tract and the southerly right-of-way line of said St. Louis & Southwestern Railroad, North 66°12'00" East, a distance of 10.90 feet to a point for corner;

**THENCE** departing the southerly right-of-way line of said St. Louis & Southwestern Railroad and the northerly line of said 6.272 acres tract, South 00°21'20" East, a distance of 186.60 feet to a point for corner in the northerly right-of-way line of Arapaho Road (93 feet right-of-way);

**THENCE** with said northerly right-of-way of Arapaho Road, North 50°44'40" West, a distance of 12.98 feet to a point for corner;

**THENCE** departing said northerly right-of-way of Arapaho Road, North 00°21'20" West, a distance of 173.98 feet to the **POINT OF BEGINNING**;

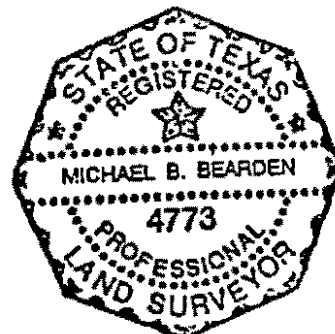
**CONTAINING** within these metes and bounds, 1803 square feet or 0.041 acres of land more or less.

The basis of bearing for this survey was the bearing of record for the most northerly line of said 6.272 acres tract of land to the Town of Addison as recorded in Volume 93243, Page 6422, Deed Records of Dallas County, Texas.

The Field Notes were prepared from an on the ground survey under my direction and supervision on January 6, 1999.

*Michael B. Bearden*

MICHAEL B. BEARDEN  
Registered Professional Land Surveyor  
Texas Registration No. 4773  
(ORIGINAL SIGNED IN RED INK)







POINT OF BEGINNING

POINT OF COMMENCING

N 66°12'00" E  
10.90'

S 66°12'00" W  
6.49'

ST. LOUIS & SOUTHWESTERN R.R. (100' R.O.W.)

QUORUM DRIVE (80' R.O.W.)

0.041 AC  
or  
1803 sq.ft.

TOWN OF ADDISON  
VOL. 93243, PG. 6422

N 50°44'40" W  
12.98'

S 04°29'08" W  
190.66'

ARAPAHO ROAD (93' R.O.W.)



**Winkelmann  
& Associates, Inc.**

CONSULTING CIVIL ENGINEERS & SURVEYORS  
(214) 490-7090 FAX (214) 490-7099

Scale : 1" = 30' Date : 1/07/99

Design : MBB

Drawn : MBB

Dwg. File : 15970.DWG

Project No. : 15970

C.W. FISHER SURVEY, A-482

TOWN OF ADDISON  
DALLAS COUNTY, TEXAS

TEXAS UTILITIES ELECTRIC COMPANY  
1601 BRYAN STREET  
DALLAS, TEXAS 75201

ARAPAHO ROAD @  
QUORUM DRIVE - ADDISON  
RELOCATION

SHEET  
2  
OF  
2



MEPC O & I Inc.  
15303 Dallas Parkway  
Suite 400 LB5  
Dallas, Texas 75248

Telephone (972) 980-5000  
Facsimile (972) 980-5092

**Fax transmission**

To *Jim Pierce* 972-450-2837

Of *City of Addison*

From *Rick Weibler*  
Position  
Company

MEPC O & I Inc.

Telephone  
Fax

~~972-980-5000~~ 687-7797  
972-980-5092

Date *2-23-99*

Number of pages (including cover sheet) *3*

*Here's a copy of the signed off T.O.  
inspection reports that Mills Electrical  
received for the vault*

**MILLS ELECTRIC**  
**DFW AIRPORT GROUP**  
 2525 W. STORY ROAD  
 IRVING, TEXAS 75038  
 214-570-2665

**CIVIL WORK INSPECTION FORM**

DATE: 7-26-97

WORK LOCATION: Colonnade Towers WR-1025064

TYPE OF WORK:

DUCT BANK     XFMR PAD

SWGR PAD     VAULT Splice Box

MANHOLE     OTHER \_\_\_\_\_

SPECTION:

PRELIMINARY     FINAL

PASSED     FAILED

REMARKS: Right elevation and tied in  
both ways with conduit

INSPECTOR'S NAME: B. Hoan  
(PRINT)

SIGNATURE: [Signature]

# TU ELECTRIC

## DFW AIRPORT GROUP

2525 W. STORY ROAD  
IRVING, TEXAS 75038  
214-570-2665

### CIVIL WORK INSPECTION FORM

DATE: 1-29-97

WORK LOCATION: Colonnade Towers UR-10250A

TYPE OF WORK:

1-6"  
350'

DUCT BANK  XFMR PAD

SWGR PAD  VAULT

MANHOLE  OTHER \_\_\_\_\_

INSPECTION:

PRELIMINARY  FINAL

PASSED  FAILED

COMMENTS:

Ready to Back-Fill

INSPECTOR'S NAME:

Est. House  
(PRINT)

SIGNATURE:

Alan Payne

TOWN OF  
ADDISON

PUBLIC WORKS

To: Bill Milsap

From: James C. Pierce, Jr., P.E., DEE

Company: MESA

Assistant City Engineer

Phone: 972/450-2879

FAX: 972/450-2837

FAX #: 214-871-1507

Date: 2-10-99

16801 Westgrove

P.O. Box 9010

Addison, TX 75001-9010

# of pages (including cover): 2

Re: Arapaho Rd / TU Vault / Pedestrian Lights

Original in mail

Per your request

FYI

Call me

Comments: Bill - What do you think about  
shifting/eliminating one light on  
shown. Would allow handicap room  
@ vault. Jerry

FROM: CLIFF,

Jim - Jodie, w/ T.U. is looking into this  
for us. I talked to Jodie today  
2-18-99; he has turned it over  
to a gentleman from Customer Service.  
He will try to get an answer  
back this week. <sup>if at all possible</sup> I have to go  
out of town on Fri but will be  
checking messages and if I hear  
anything I will notify you ASAP.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Wednesday, February 03, 1999 1:51 PM  
**To:** Joel Porter (E-mail); Bobby Inmon (E-mail)  
**Cc:** Jeanne Hooker (E-mail); Dave Wilde  
**Subject:** Arapaho Road Update

The following TU activities are needed to prevent further delays on Arapaho Road:

1. The vault in the sidewalk area in front of the Colonnade needs to be moved.
2. The pole on the S.E. corner of Arapaho and Quorum needs to be moved. Then all the power lines along that stretch need to be moved to the new poles.

Please advise when these items will be accomplished. Jim.

Telmon from Bobby Inmon

2-8-99

Pull Box - in an easement -  
Will have to Re-do - AT OUR COST

Easement was established before the ROW  
was established -

Would have to kill out, bore under  
driveway -

\$ 10,000 to install new box

wire \$34/ft 400' @ \$102/ft

\$ 40,000 wire

Plus: Conduit

Terminations \$500 each

Splices

Bores 6" \$1000 plus \$18/ft  
under the drive

Plus: 3 to 4 months delay -

ROW overlaps the  
easement but easement  
still exists  
Easement ~~is~~ is in our  
ROW - Obtained when new ROW  
was obtained,  
Bill Shipp has

\*  
Q \*  
\*

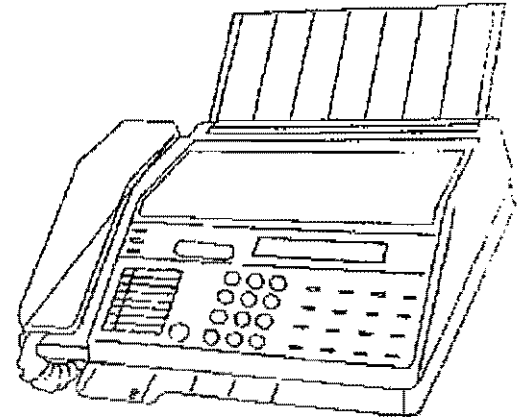




**EAST Design Engineering Services**

1506 Commerce Street - 3 East  
Dallas, Texas 75201

FAX # 214 / 812 - 7828



**DATE:** 2-9-99

**TO:** Jim Pierce Town of Addison **PHONE #** 972 450-2879

**FROM:** Bobby Inman T.U. Electric **PHONE #** (214) 812-7310

**REMARKS:**  
Property Plat with easements  
New Pumpaho at Tollway

**NUMBER OF PAGES SENT** 4 **(INCLUDING THIS SHEET)**



← COPY →

### TU ELECTRIC SERVICE DIVISION INVOICE

Please Remit To:

TU Electric Service Division  
P.O. Box 910104  
DALLAS, TX 75391-0104

or Please Wire To:

Chase Bank of Texas  
ABA # 113000609  
TU Electric Service Division  
Account # 08806169791

Page:

1

Invoice No:

ESD0002144

Invoice Date:

01/07/99

Customer Number:

402380

Payment Terms:

Net 30

Due Date:

02/06/99

Customer:

TOWN OF ADDISON  
16801 WESTGROVE  
P O BOX 9010  
ATTN: JIM PIERCE  
ADDISON, TX 75001-9010

AMOUNT DUE: \$ 20,150.00

\$ \_\_\_\_\_  
Amount Remitted

For billing questions, please call 214-812-7806

Line	Adj	Identifier	Description	Quantity	UOM	Unit Amt	Net Amount
For questions please call: Bobby Inmon 214/812-7310 or Joel Porter 972/888-1313 Refer to WR # 1110395							
1			Streetlights	1.00	Each	20,150.00	20,150.00
Install (13) 30 Ft. square streetlight standards with 250 watt Hps. Double luminaires on Arapaho Road from Addison Road to the Tollway.							
<b>SUBTOTAL:</b>							20,150.00
<b>TOTAL AMOUNT DUE :</b>							<b>\$ 20,150.00</b>

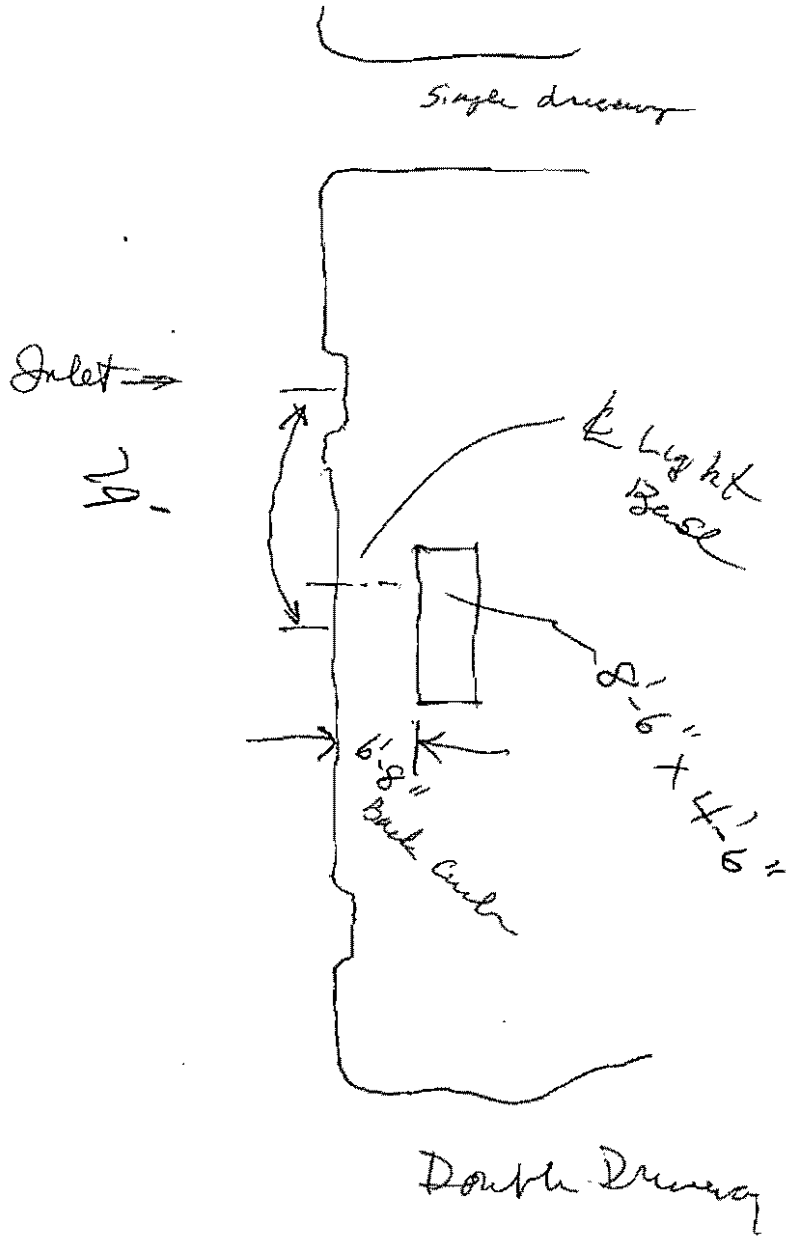
*OK to pay*  
*Jim Pierce*  
*1-13-99*



# Radisson.

HOTEL DALLAS

1893 West Mockingbird Ln. • Dallas, TX 75235  
Phone (214) 634-8850 • Fax (214) 630-8134



Arapaho Rd.

1-6-98

Met with Bobby Inman @ job site

1. TU surveyors staking out easement on N.E. side of Quorum, on our property, so that poles can be moved out of the sidewalk area. Poles should be set tomorrow.
2. I showed Bobby the TU Electric vault that is in our sidewalk area adjacent to the Colonnade project. Bobby said he would look into getting the vault moved. He has to make sure they have adequate easement from Colonnade to move it into.

JW

cc Dave Wilde

12-4-98

TU Electric Poles -

Telecom to Mae Smith - DART

Pole @ Addison & Arapaho has their phone service. To remove the pole, service must be disconnected permanently. I told Mae I think they will need to apply for a new service. Mae will call Tim Beidelman and see what needs to be done.

Maybe DART <sup>Trailers</sup> can be served from the permanent service needed to serve the transit center.

JSP

TOWN OF  
**ADDISON**

*Faxed*

**PUBLIC WORKS**

To: Tim Beidelman

From: James C. Pierce, Jr., P.E., DEE

Company: SW Bell

Assistant City Engineer

Phone: 972/450-2879

FAX #: 972-234-7062

FAX: 972/450-2837

Date: 12-2-98

16801 Westgrove

P.O. Box 9010

Addison, TX 75001-9010

# of pages (including cover): 2

Re: Arapaho Rd

Original in mail

Per your request

FYI

Call me

Comments: Tim: The "pole to be removed"  
on the attached plan has a SW Bell  
cable on it that we believe serves  
the construction trailer for the new DART  
transit center job. I have been trying  
for months to get that pole down  
(as well as others) so we can continue  
construction of Arapaho Rd. Please  
expidite relocation of your cable off  
the subject pole. Thanks, Jim.





**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Tuesday, November 24, 1998 3:16 PM  
**To:** 'jporter1@tu.com'; Jim Pierce  
**Cc:** Dave Wilde  
**Subject:** RE: Southwestern Bell Clearance on Arapaho

I found out today that there is no underground conduit and wire from your new Underground service switchgear to the PMT at the SWBell building. This has to be installed (bored under new pavement) before the clearance can occur. Please take whatever steps are necessary to accomplish this. Thanks, Jim.

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

**From:** jporter1@tu.com [SMTP:jporter1@tu.com]  
**Sent:** Monday, November 23, 1998 2:17 PM  
**To:** jpierce@ci.addison.tx.us  
**Subject:** Southwestern Bell Clearance on Arapaho

Forgot to cc: you on this one.

----- Forwarded by Joel Porter/Texas Utilities on 11/23/98  
02:14 PM -----

Joel Porter  
11/23/98 02:15 PM

**To:** Michael L Smith/Texas Utilities@TU  
**cc:**  
**Subject:** Southwestern Bell Clearance on Arapaho

Mike,  
I've coordinated a clearance for Southwestern Bell's switch station at 4851 Arapaho Rd for 1:00pm on Tuesday, 12/1. Contact is Bob Sands (972) 234-7081.

**Jim Pierce**

**From:** Jim Pierce  
**Sent:** Tuesday, November 24, 1998 3:21 PM  
**To:** John Baumgartner  
**Cc:** Slade Strickland  
**Subject:** RE: Arapaho Streetlights

Use of hi pressure sodium lamps Vs metal halide. As we discussed today, I will go ahead with hi pressure sodium for the median streetlights. Jim.

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

**From:** John Baumgartner  
**Sent:** Tuesday, November 24, 1998 8:31 AM  
**To:** Jim Pierce  
**Subject:** RE: Arapaho Streetlights

What is the question?

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

**From:** Jim Pierce  
**Sent:** Tuesday, November 17, 1998 10:47 AM  
**To:** John Baumgartner  
**Subject:** Arapaho Streetlights

Any direction or decisions regarding the Arapaho streetlights? Jim.

Call about pole

12-1-98

Called Bobby Inman  
He will send an E-mail  
and let me know

Signal pole

Pat Rivera

Mobile - 214-507-4916

Home - 972-924-2941

SWBell

11-24-98

No conduit & wire between  
TU VG Switchgear and SWB PMT  
@ Building. Will have to be installed  
Will probably be done next week. 3 poles  
on the west end can & will be removed -  
this will allow the most important road  
const. to continue. The 2 easterly poles  
will come down after the VG service  
is made & switched.

TOWN OF  
**ADDISON**

*Faxed  
call waiting to Tim*

**PUBLIC WORKS**

To: Tim Beidelman

From: James C. Pierce, Jr., P.E., DEE

Company: SW Bell

Assistant City Engineer

Phone: 972/450-2879

FAX #: 972-234-7062

FAX: 972/450-2837

Date: 11-20-98

16801 Westgrove

P.O. Box 9010

Addison, TX 75001-9010

# of pages (including cover): 3

Re: Arapaho Rd - TU Power Switch

Original in mail

Per your request

FYI

Call me

Comments: Tim: I need your help one more time. Our project has been held up about 3 months due to conflict with TU poles near the intersection of Arapaho & Addison Rd. The poles are preventing us from completing Phase I of the project. You got your facilities off the poles promptly, but it has been forever getting the fiber optics off the poles. That has finally been accomplished. TU must now switch power from the overhead wires to the underground cables. TU is ready to do so but need a "clearance" from SW Bell. They have a clearance scheduled with the only other customer

concerned, Summerfield Suites.  
(Scheduled for 11/24). We need a  
clearance from SW Bell on or  
before that date. The attached  
e-mail messages between Joel Porter  
of TU, and me, indicates non-  
responsiveness from SW Bell. Please  
assist us with this and let me  
know if there is anything else I  
can do to expedite the clearance.

Thanks

Jim

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Thursday, November 19, 1998 4:30 PM  
**To:** jpierce@ci.addison.tx.us  
**Subject:** Re: SWBell Clearance/Arapaho Rd.

I've put my third call into their office with no response. I've spoken with Bob Sands (972) 234-7084 who said he was going to get in touch with the person responsible for that switch station. I've left Bob messages indicating I haven't heard back from anyone. He hasn't returned my calls either. It wouldn't offend me if they happened to hear from the Town of Addison too. We can do their clearance anytime. It doesn't have to coincide with the clearance for Summerfield Suites. In fact, we will have to do them separately since they are on different risers.

jpierce@ci.addison.tx.us on 11/19/98 09:22:14 AM

**To:** Joel Porter/Texas Utilities  
**cc:** Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** SWBell Clearance/Arapaho Rd.

Joel: How are you doing with SWBell? FYI, they have battery backup electric supply in that building. Please advise. Jim.



# LETTER OF TRANSMITTAL

**TOWN OF  
ADDISON**

**Public Works / Engineering**

801 Westgrove • P.O. Box 144

Addison, Texas 75001

Telephone: (214) 450-2871 • Fax: (214) 931-6643

Bobby Inman  
TU Electric

DATE	11-20-98	JOB NO.	
ATTENTION			
RE	Arapaho Rd		

**GENTLEMAN:**

**WE ARE SENDING YOU**

- Shop Drawings
- Copy of letter

- Attached
- Prints
- Change order

- Under separate cover via \_\_\_\_\_ the following items:
- Plans       Samples       Specifications
- \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1			Deed and Plat of 6.272 acres owned by the Town @ Quorum & Arapaho
1			Land Description and Exhibit for "Parcel 5" which was taken out of the 6.272 acres for Arapaho Rd ROW.

**THESE ARE TRANSMITTED as checked below:**

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

**REMARKS** We do not have a plat of the 4.763 acres of property remaining after the ROW "take"

The Town is willing to grant a 10' easement only. We will consider granting more when and if under-ground becomes a reality.

Hope this is enough for your surveyors to proceed.

**COPY TO** \_\_\_\_\_

**SIGNED:** Jim Francis

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



Meeting with Bobby Inman  
TU Electric - @ site.

11-4-98

Joel - Streetlight proposal ? ✓ <sup>Email to</sup> Joel 11/19

Quorum - add streetlight (move/relocate - no cost increase)  
get video conduit over to it

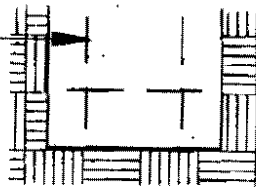
More pole on S.E. corner  
Add a pole on N.E. side

@ Saw Bell - Move the anchor of reattach guy

Address - Hang X former on exist pole  
add pole close to controller  
Put meter box on pole

Intersection - as planned -

18" DIA. X 60" CONC. PIER W/  
 (4) #4 VERTICAL



**SECTION - FOOTING (FIXTURE TYPE "A")**

L3.2 NTS

(PHOTO-CELL ON ENCLOSURE)

(TIME CLOCK TORK NO. T920L)

CONTACTORS FOR ALL LIGHTS AND 4-2P SPARES

PANEL

METER PEDESTAL PER TU  
 SPECS.

EXIST. PAD MTD. TRANS.  
 TERMINATE CONDUCTORS  
 PER TU.

MIN. 2'-0" X 2'-0" X 8" CONC. BASE

G.R.S.C. ELBOWS, TYP.

CONDUIT FROM PROPERTY LINE TO  
 TRANSFORMER INSTALLED UNDER  
 ANOTHER CONTRACT. VERIFY AT SITE.

2" C PVC SCHEDULE 40 WITH 3#2, 1#6 GND, 2'-0" BELOW GRADE

8' GROUND ROD, COPPER CLAD.

12" THICK CONC. PAD. #3 @ 12" O.C. EACH WAY.

CIRCUITS TO LIGHTS. PVC 2'-0" BELOW GRADE.

**DETAIL A - ELEVATION**

L3.2 NTS

HEAVY GAUGE TAMPER PROOF STEEL ENCLOSURE  
 WITH SCREENED LOUVERS AT TOP AND BOTTOM  
 FOR VENTILATION, WEATHER PROOF CONSTRUCTION.  
 MIN. 60"H X 48"W X 18"D. PRIME AND PAINT PER SPECS.  
 PROVIDE BRACKETS FOR MOUNTING PANELBOARD.

CONC. PAD, MIN. 6" LARGER THAN STEEL ENCLOSURE

1/8" ALUMINUM MOUNTING BOARD.

MOUNT CONTACTORS, TIMERS, ETC. ON MOUNTING  
 BOARD OR BRACKETS.

2 DOORS WITH PADLOCK PROVISION.

**DETAIL B - PLAN**

L3.2 NTS

4 #8, 1 #10G - 1" C, TYP.

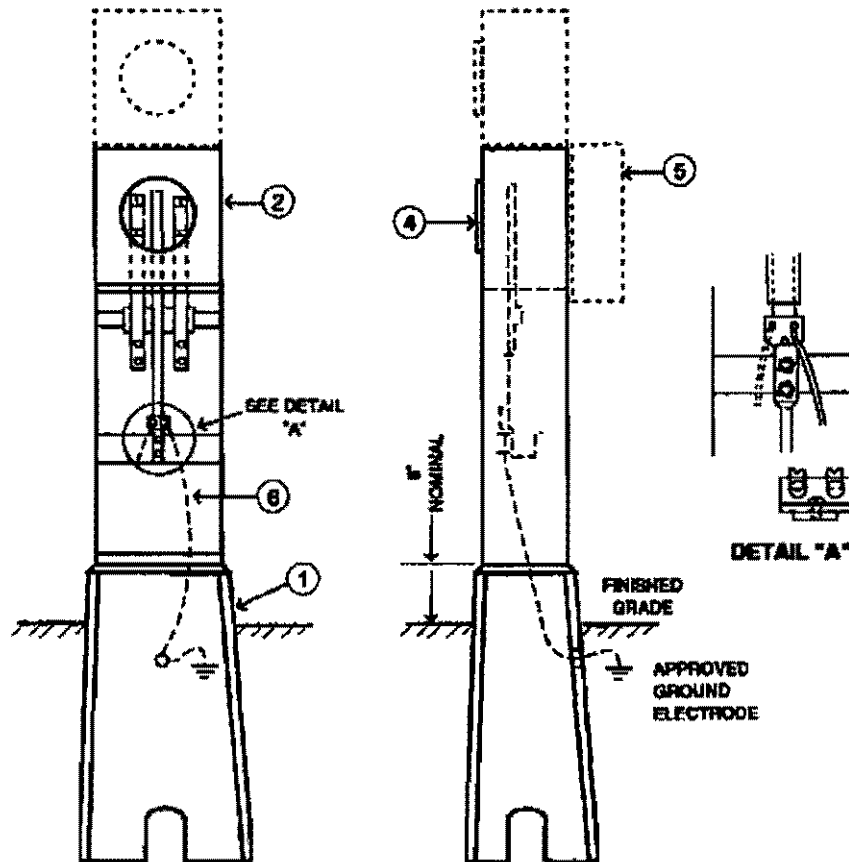
A  
 (2.4)

A  
 (6.8)

MATCHLINE B

## UNDERGROUND SERVICE MOBILE HOME PEDESTAL

FIGURE 4-D



### NOTES:

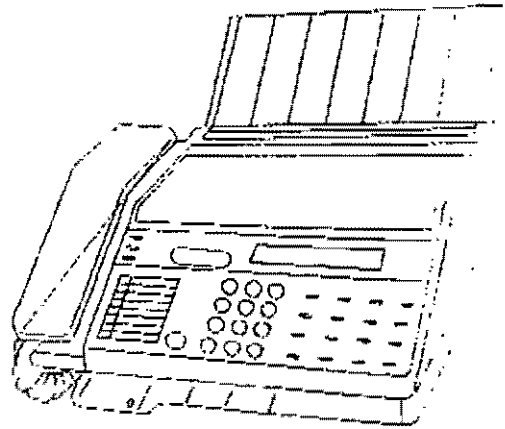
1. Precast foundation provided and installed by Company.
2. Meter pedestal provided by Company and installed or replaced by Customer. Anchor clips and bolts provided with meter pedestal.
3. Service lateral or source conductors provided and installed by Company.
4. Three feet-eight inches clearance is required from meter side of pedestal to any obstruction or structure.
5. Customer service equipment may be installed on meter pedestal in accordance with all applicable codes.
6. Customer may connect grounding electrode conductor to duplex connector on neutral bus. The grounding electrode conductor (#8 Cu min.) shall connect to an approved ground electrode. Company reserves the right to refuse installation of service contingent upon inspection of Customer's grounding connections.
7. Alternate Design - Company may choose to provide and install an alternate meter pedestal without precast foundation.



**EAST Design Engineering Services**

1506 Commerce Street - 3 East  
Dallas, Texas 75201

FAX # 214 / 812 - 7828



**DATE:** 11-18-98

**TO:** Town of Addison Jim Pierce **PHONE #** (972) 450-2879

**FROM:** Bobby Inmon T.U. Electric **PHONE #** (214) 812-7310

**REMARKS:**  
UG Pedestal Diagram

**NUMBER OF PAGES SENT** 2 **(INCLUDING THIS SHEET)**

## **Jim Pierce**

---

**From:** Jim Pierce  
**Sent:** Tuesday, November 17, 1998 11:45 AM  
**To:** 'jporter1@tu.com'  
**Subject:** RE: FW: Arapaho Road Update

Good news! Thanks, Jim.

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

**From:** jporter1@tu.com [SMTP:jporter1@tu.com]  
**Sent:** Monday, November 16, 1998 4:11 PM  
**To:** jpierce@ci.addison.tx.us  
**Subject:** Re: FW: Arapaho Road Update

Jim,

I have a clearance scheduled for Summerfield Suites on 11/24 at noon. I am still waiting to hear back from SWB as to when we can switch their service. I will try to have that set prior to 11/24 so that we will be finished by 11/25. Will let you know more after I hear back from SWB.

jpierce@ci.addison.tx.us on 11/16/98 02:53:31 PM

**To:** Joel Porter/Texas Utilities  
**cc:** Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** FW: Arapaho Road Update

Confirmation that the cable will be down today, Again, please advise your schedule for getting the poles down. Jim Pierce.

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

**From:** Dave Wilde  
**Sent:** Monday, November 16, 1998 11:08 AM  
**To:** Jim Pierce  
**Subject:** RE: Arapaho Road Update

TCI was on site taking their cables down as of 10:30am today. Mike Rasmussen figured that they would be done today. TU is free to remove their poles. Dave Wilde

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

**From:** Jim Pierce  
**Sent:** Friday, November 13, 1998 5:01 PM  
**To:** Joel Porter (E-mail)  
**Cc:** Jeanne Hooker (E-mail); Dave Wilde  
**Subject:** Arapaho Road Update

The fiber optics cable "rollover" will be complete this weekend. The cable will come off the poles Monday. Please schedule the work to get the poles down without any further delay. Please advise your schedule so

we  
can schedule additional paving. Jim.

John

11-13-98

# Re Arapaho Streetlights

## RECAP:

The shoebox streetlight costs \$1550- regardless of the type of fixture that is supplied. We are currently ordering 250 watt hi pressure sodium lamps (HPS)

The fixtures can be changed for \$73- per fixture (2 fixtures per streetlight).

If we don't like the HPS lamps:

\$73 x 2 x 14 streetlights = \$2,044- to change out all the fixtures on the job.

## Operating Cost comparison:

Assume streetlights are on an average of 12 hrs/day

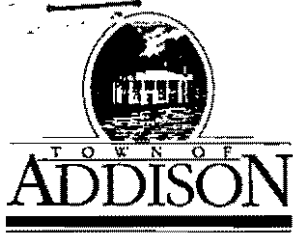
Each 400 watt streetlight will cost:

$$\frac{2 \text{ bulbs} \times 400 \text{ watts} \times 12 \text{ hrs} \times 365 \text{ days}}{1000 \text{ watts}} \times \frac{\$0.08 \text{ Kw-hr}}{4 \text{ hr Kw-hr}} = \$280/\text{yr}$$

Each 250 watt streetlight will cost

$$\frac{\$280}{400} \times 250 = \$175/\text{year}$$

Jim



**Public Works / Engineering**

16801 Westgrove • P.O. Box 144

Addison, Texas 75001

Telephone: (214) 450-2871 • Fax: (214) 931-6643

Resent to  
Pat Rivera &  
Bobby Inman  
6-15-99

# LETTER OF TRANSMITTAL

DATE	11-4-98	JOB NO.
ATTENTION		
RE:	Arapaho Rd	

TO Robert Weber  
Ed Bell Construction

**GENTLEMAN:**

**WE ARE SENDING YOU**

- Shop Drawings
- Prints
- Change order
- Attached
- Under separate cover via \_\_\_\_\_ the following items:
- Plans
- Samples
- Specifications
- \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
5			Drawing showing new streetlight location & new video camera location.

**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** One of the purposes of the new streetlight location is to provide a better mounting location for the video camera. We should have existing pay items for this work except for conduit up the streetlight for mounting the camera. Please incorporate this change into the work and advise of any additional charges.

**COPY TO** Dave Wilde  
Bobby Inman

**SIGNED:** Jim Lucie

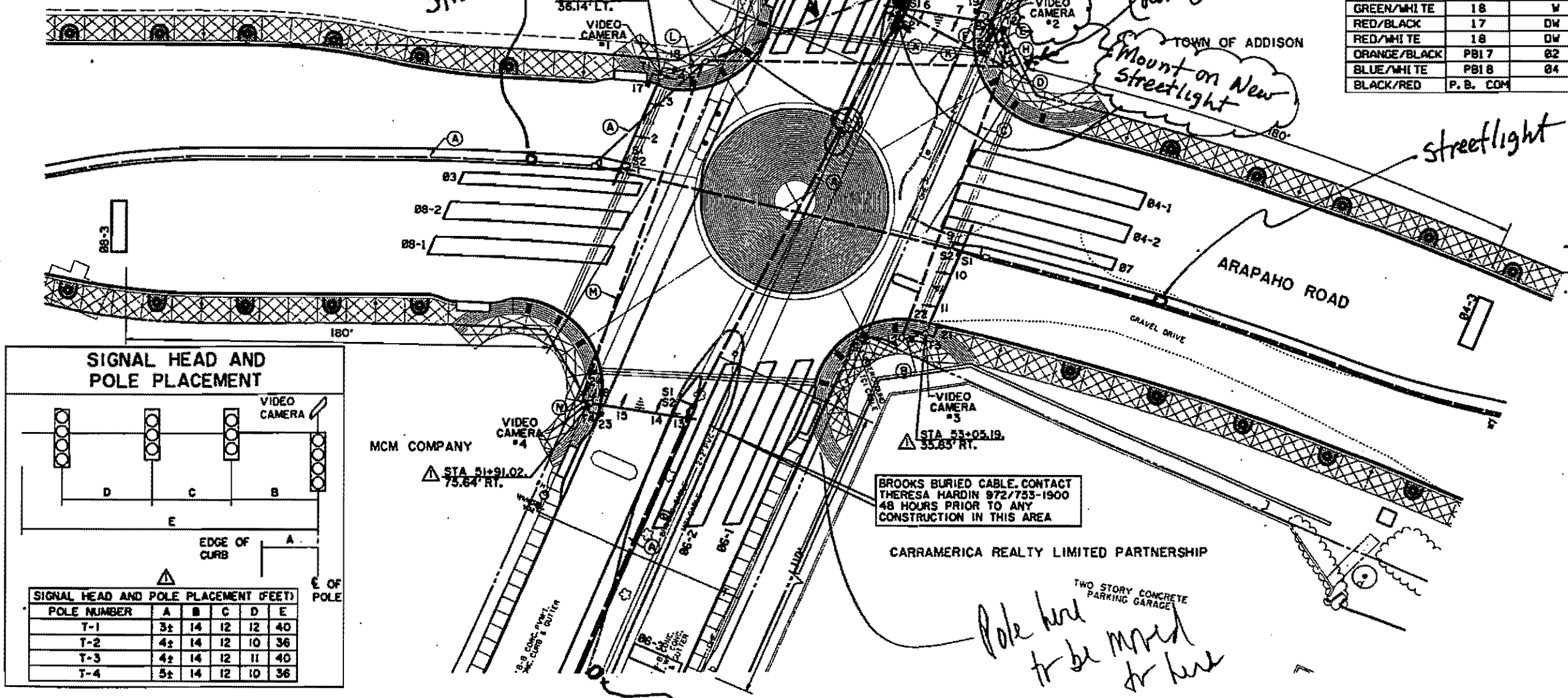
If enclosures are not as noted, please notify us at once.



VIDEO CAMERA	EA.	4
3M OPTICOM DETECTOR	EA.	4
PEDESTRIAN PUSH BUTTON	EA.	8
CABLE WIRE		
5 CONDUCTOR RR	L.F.	321
7 CONDUCTOR #12	L.F.	307
5 CONDUCTOR #12	L.F.	420
16 CONDUCTOR #12	L.F.	560
COAX CABLE	L.F.	560
1 CONDUCTOR #6 GROUND	L.F.	591
2 CONDUCTOR #6 POWER	L.F.	64
3 CONDUCTOR VIDEO	L.F.	680
4 CONDUCTOR OPTICOM	L.F.	630
SIGNS		
MR10-12	EA.	4
R3-4	EA.	4
FOUNDATIONS		
CONTROLLER	EA.	1
TYPE 30-A	EA.	2
TYPE 30-B	EA.	2
POLES:		
SIGNAL PEDESTAL	EA.	-
MAST ARM POLE	EA.	2
W/ 36' ARM	EA.	2
W/ 40' ARM	EA.	2
SIGNAL HEADS:		
4 SECTION 12" LENS	EA.	8
3 SECTION 12" LENS	EA.	8
2 SECTION PEDESTRIAN	EA.	8
MISCELLANEOUS:		
CONNECT TO RAILROAD GATE	L.S.	1
CONTROLLER	L.S.	1
INSTALL TUE PEDESTAL & METER	L.S.	1

RUN NO.	SIZE/TYPE CONDUIT	2" WIRE	#6 WIRE	COAX	4 CN CABL	16 CA	3 CND	5C1	LENGTH
B	3" PVC	15	15	15	15	15			9
C	3" PVC	104	104	104	104	104			98
D	2-3" PVC	12	36	48	48	48	12		6
E	3" PVC	20	20	20	20	20	20		14
F	3" PVC	20	10	10	10	10			4
G	2" PVC							176	170
H	2" PVC	16	16						10
I	2" PVC	80					80		74
J	2" PVC	32					32		26
K	4" PVC	107	214	214	214	214			101
L	3" PVC	24	12	12	12	12			7
M	3" PVC	126	126	126	126	126			120
N	3" PVC	11	11	11	11	11			5

\* INTERCONNECT  
 \* SEE INTERCONNECT LAYOUT SHEET FOR INTERCONNECT QUANTITY AND ALIGNMENT



Existing Streetlight

Move Controller to this area

East Streetlight base to be Demol

New Streetlight # 1811 box

MCI BURIED CABLE CONTACT ADRIAN THEBAU 972/554-4127 48 HOURS PRIOR TO ANY CONSTRUCTION IN THIS AREA.

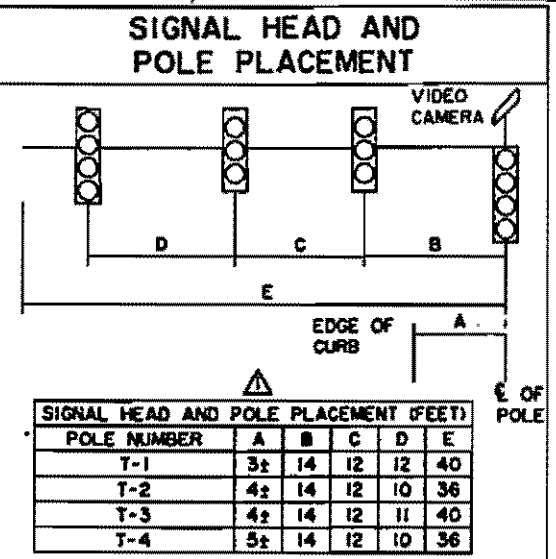
BROOKS BURIED CABLE CONTACT THERESA HARDIN 972/753-1900 48 HOURS PRIOR TO ANY CONSTRUCTION IN THIS AREA.

- NOTES:
- ALL CABLE SHALL BE RUN CONTINUOUSLY WITHOUT SPLICES.
  - SEE INTERCONNECT LAYOUT SHEET FOR 2" PVC RUN A ALIGNMENT AND SUMMARY.
  - CONTRACTOR SHALL CONTACT TU ELECTRIC TO COORDINATE DISCONNECT AND RECONNECT OF EXISTING STREET LIGHT CIRCUIT. CONTRACTOR SHALL INSTALL NEW FOUNDATION, CONDUIT AND CONDUCTOR IF NECESSARY TO RELOCATE SERVICE POLE.
  - VIDEO CAMERAS SHALL BE MOUNTED ON TOP OF SIGNAL POLE AND AIMED IN THE SAME DIRECTION AS SIGNAL HEADS AND ALIGNED TO DETECT ZONES SHOWN ON THIS SHEET.
  - STREET NAME SIGNS WILL BE INSTALLED BY THE TOWN OF ADDISON.
  - TUE WILL PROVIDE PEDESTAL & METER FOR CONTRACTOR TO INSTALL.

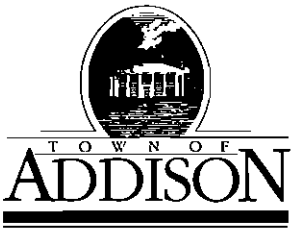
4	V4RT	84		1
5	V4LT	81		1
6	V3	86	1	
7	V3	86	1	
8	V4RT	86		1
9	V4LT	83		1
10	V3	88	1	
11	V3	88	1	
12	V4RT	88		1
13	V4LT	85		1
14	V3	82	1	
15	V3	82	1	
16	V4RT	82		1
17,24	PED	82P		
18,19	PED	84P		
20,21	PED	86P		
22,23	PED	88P		
TOTALS			8	8

CABLE CONDUCTOR	T-1		T-2		T-3		S. H.
	S. H. NO.	INDICATION	S. H. NO.	INDICATION	S. H. NO.	INDICATION	
WHITE/BLACK	SPARE		SPARE		SPARE		SPA
WHITE	COMMON		COMMON		COMMON		COM
RED	1-4	R	5-8	R	9-12	R	13-
ORANGE	1-4	Y	5-8	Y	9-12	Y	13-
GREEN	1-4	G	5-8	G	9-12	G	13-
BLUE	1	-G	5	-G	9	-G	3
BLACK	1	-Y	5	-Y	9	-Y	3
BLUE/BLACK	4	G-	8	G-	12	G-	16
BLACK/WHITE	4	Y-	8	Y-	12	Y-	16
GREEN/BLACK	17	W	19	W	21	W	23
GREEN/WHITE	18	W	20	W	22	W	24
RED/BLACK	17	DW	19	DW	21	DW	23
RED/WHITE	18	DW	20	DW	22	DW	24
ORANGE/BLACK	PB17	82	PB19	84	PB21	86	PB23
BLUE/WHITE	PB18	84	PB20	86	PB22	88	PB24
BLACK/RED	P. B. COM		P. B. COM		P. B. COM		P. B.

- LEGEND
- PROPOSED PEDESTRIAN SIGNAL
  - CONDUIT RUN NUMBER
  - SIGNAL HEAD NUMBER
  - PROPOSED SIGNAL HEAD
  - PROPOSED SIGNAL CONDUIT
  - EXISTING SIGNAL CONDUIT
  - FUTURE SIGNAL CONDUIT
  - PROPOSED PULL BOX
  - EXISTING PULL BOX
  - PROPOSED SIGNAL POLE
  - LEFT TURN ON ARROW SIGN
  - OPTICOM
  - DETECTION ZONE FOR VIDEO
  - TUE SWITCHGEAR
  - TUE PEDESTAL SOURCE & METER



SIGNALIZATION				
ARAPAHO ROAD & QUORUM DR				
ARAPAHO ROAD				
ADDISON ROAD TO DALLAS ROAD				
TOWN OF ADDISON				
Hull-Zellers, Inc./Consulting				
Dallas, Fort Worth, Houston, Texas				
DESIGN	DRAWN	APPR.	SCALE	DATE
HZI	HZI	DLM	1"=20'	OCT 9



**Public Works / Engineering**

16801 Westgrove • P.O. Box 144  
 Addison, Texas 75001  
 Telephone: [214] 450-2871 • Fax: [214] 931-6643

LETTER OF TRANSMITTAL

DATE	10-29-98	JOB NO.
ATTENTION		
RE:	Arapaho Rd	

TO Bobby Inman  
TW Electric

**GENTLEMAN:**

**WE ARE SENDING YOU**

- |   |  |                                |                                  |   |  |
|---|--|--------------------------------|----------------------------------|---|--|
| <input type="checkbox"/> Attached       | <input type="checkbox"/> Under separate cover via _____ the following items: |                                |                                  |   |  |
| <input type="checkbox"/> Shop Drawings  | <input type="checkbox"/> Prints  | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples | <input type="checkbox"/> Specifications |  |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order  | <input type="checkbox"/> _____ |                                  |   |  |

COPIES	DATE	NO.	DESCRIPTION
1			Sheets S-2, S-4, S-6, S-11 & S-12 (Signalization)
1			Sheet IR-3 (Irrigation)
1			Sheets SE 1 & SE 3 (Pedestrian Lighting)

**THESE ARE TRANSMITTED as checked below:**

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> For approval              | <input type="checkbox"/> Approved as submitted            | <input type="checkbox"/> Resubmit _____ copies for approval   |
| <input checked="" type="checkbox"/> For your use   | <input type="checkbox"/> Approved as noted                | <input type="checkbox"/> Submit _____ copies for distribution |
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| <input type="checkbox"/> For review and comment    | <input type="checkbox"/> _____                            |   |
| <input type="checkbox"/> FOR BIDS DUE _____ 19____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US |   |

REMARKS We can discuss when you come up  
next week

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

COPY TO \_\_\_\_\_

SIGNED: Jim Luce

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

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Tuesday, October 20, 1998 2:20 PM  
**To:** jpierce@ci.addison.tx.us  
**Subject:** Re: Arapaho Road

I've placed another call to our distribution group for them to let me know what the schedule is. I'm pretty sure they are holding off doing anything until TCI is off the poles so they can transfer the facilities and remove poles all at the same time. We prefer to do this type of work all at once so we don't have to piecemeal the job. I will let you know something as soon as I hear anything.

jpierce@ci.addison.tx.us on 10/20/98 01:38:57 PM

**To:** Joel Porter/Texas Utilities  
**cc:** Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** Arapaho Road

TCI Cable will be off your poles next week. I hope TU can be off before that so we can get those poles out of there! Also, one pole in the north-south alignment needs to be moved out of the ROW. Joel, please give this your personal attention, and please let me know your schedule.  
Jim.

for John —

Cost  
Comparison

250 w metal Halide

400 w metal Halide

250 HPS

Fixture Cost —

Operating Cost —

Fixture Cost to Switch back —

11-10-98

Operating Cost Comparison:

Assume streetlights are on an average of 12 hrs/day

Each 250 watt streetlight will cost:

$$\frac{2 \text{ bulbs} \times 250 \text{ watts}}{1000 \text{ watts}} \times \frac{\text{bulbs}}{\text{bulbs}} \times 12 \text{ hrs/day} \times \frac{365 \text{ days}}{\text{yr}} \times \frac{\$ 0.08 \text{ Kw}}{\text{Kw-hr}} = \$ 175.20 \text{ per year}$$

Each 400 watt streetlight will cost

$$\frac{\$ 175.20}{250} \times 400 = \$ 280.32 \text{ per year}$$

## **Jim Pierce**

---

**From:** Robin Jones  
**Sent:** Monday, October 05, 1998 9:10 AM  
**To:** Jim Pierce  
**Subject:** RE: Arapaho - Street Lights in Medians

Talk to John. Robin

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

**From:** Jim Pierce  
**Sent:** Friday, October 02, 1998 4:53 PM  
**To:** Robin Jones; Slade Strickland  
**Cc:** John Baumgartner  
**Subject:** Arapaho - Street Lights in Medians

TU wants to know what type of bulb we want (white light, orange light, Wattage, etc.) Please advise. Jim.

## **Jim Pierce**

---

**From:** Slade Strickland  
**Sent:** Monday, October 05, 1998 2:09 PM  
**To:** Ron Whitehead  
**Cc:** Jim Pierce; John Baumgartner  
**Subject:** Arapaho Center Median Streetlights

Ron, we want to consider using a metal halide lamp (white light) in the streetlight fixtures on the Arapaho medians. All of our other streetlights are high pressure sodium and we think the metal halide will look better with the metal halide pedestrian lights. The street will also be brighter. What do you think?

**Slade Strickland**  
**Town of Addison - x2869**

## **Jim Pierce**

---

**From:** Slade Strickland  
**Sent:** Monday, October 05, 1998 2:49 PM  
**To:** Jim Pierce  
**Subject:** FW: Arapaho Center Median Streetlights

Jim, is there any way we can have them demo one or two lights?

**Slade Strickland**  
**Town of Addison - x2869**

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

**From:** Ron Whitehead  
**Sent:** Monday, October 05, 1998 2:41 PM  
**To:** Slade Strickland  
**Subject:** RE: Arapaho Center Median Streetlights

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

**From:** Slade Strickland  
**Sent:** Monday, October 05, 1998 2:09 PM

**To:** Ron Whitehead  
**Cc:** Jim Pierce; John Baumgartner  
**Subject:** Arapaho Center Median Streetlights

Slade,

John asked me this this morning and I told him i would have to talk to you. Let's try it and see what it looks like. If it is a lot better we might use it on other streets. What is the cost difference?  
Ron

Ron, we want to consider using a metal halide lamp (white light) in the streetlight fixtures on the Arapaho medians. All of our other streetlights are high pressure sodium and we think the metal halide will look better with the metal halide pedestrian lights. The street will also be brighter. What do you think?

**Slade Strickland**  
**Town of Addison - x2869**

**Jim Pierce**

---

**From:** Slade Strickland  
**Sent:** Tuesday, October 06, 1998 9:39 AM  
**To:** Jim Pierce  
**Subject:** FW: Arapaho Center Median Streetlights

Jim, what is the initial cost difference between the metal halide and the hps fixture?

**Slade Strickland**  
**Town of Addison - x2869**

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

**From:** Ron Whitehead  
**Sent:** Monday, October 05, 1998 2:41 PM  
**To:** Slade Strickland  
**Subject:** RE: Arapaho Center Median Streetlights

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

**From:** Slade Strickland  
**Sent:** Monday, October 05, 1998 2:09 PM  
**To:** Ron Whitehead  
**Cc:** Jim Pierce; John Baumgartner  
**Subject:** Arapaho Center Median Streetlights

Slade,

John asked me this this morning and I told him i would have to talk to you. Let's try it and see what it looks like. If it is a lot better we might use it on other streets. What is the cost difference?  
Ron

Ron, we want to consider using a metal halide lamp (white light) in the streetlight fixtures on the Arapaho medians. All of our other streetlights are high pressure sodium and we think the metal halide will look better with the metal halide pedestrian lights. The street will also be brighter. What do you think?

10-14-98 Called Joel Porter & advised  
that cable connections to terminal  
poles have been completed. Requested  
the switchover be completed. He stated  
he would call Mike Smith and let me  
know status.

for John —

Cost  
Comparison

250 w metal Halide

400 w metal Halide

250 HPS

Fixture Cost —

Operating Cost —

Fixture Cost to Switch back —

11-10-98

Operating Cost Comparison:

Assume streetlights are on an average of 12 hrs/day

Each 250 watt streetlight will cost:

$$\frac{2 \text{ bulbs} \times 250 \text{ watts}}{1000 \text{ watts}} \times \frac{\text{bulbs}}{\text{bulb}} \times 12 \text{ hrs/day} \times \frac{365 \text{ days}}{\text{yr}} \times \frac{\$ 0.08 \text{ Kw}}{\text{Kw-hr}} = \$ 175.2 \text{ per year}$$

Each 400 watt street light will cost

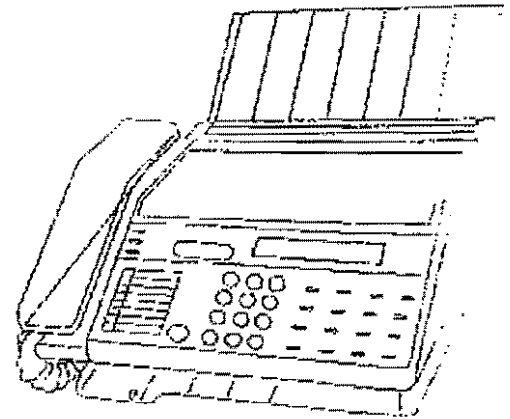
$$\frac{\$ 175.20}{250} \times 400 = \$ 280.32 \text{ per year}$$





**EAST Design Engineering Services**  
1506 Commerce Street - 3 East  
Dallas, Texas 75201

FAX # 214 / 812 - 7828



**DATE:** 10-6-98

**TO:** City of Addison  
Attn: Jim Pierce

**PHONE #** (972) 450-2879

**FROM:** Bobby Inman

**PHONE #** (214) 812-7310

**REMARKS:** Information on Street Lights

(fixture must be changed) \$73 / head to change out bulbs -  
\$73 x 2 heads / pole x 13 poles = \$1898

**NUMBER OF PAGES SENT** 13 **(INCLUDING THIS SHEET)**

# ILLUMINATION RECOMMENDATIONS—OUTDOOR

These recommendations for outdoor lighting are for average maintained (mean) illuminance at grade except in the case of roadways where they are average for the end of lamp life. Except where specifically indicated the layout and coverage arrangements and footcandle/uniformity graphs on subsequent pages are configured so that reasonable uniformity is obtained with commonly available wide distribution lighting equipment such as a NEMA 5x5 (or wider) floodlight and ANSI Type II, III, IV, and V roadway distributions. The illuminance recommendations herein are extractions from *IESNA LIGHTING HANDBOOK*, 1987 Application Volume, Section 2-14.

GENERAL APPLICATION	FOOT CANDLE
<b>AIRPORTS</b>	
Hanger aprons to approximately 50 feet out	1.0
Service aprons to approximately 200 feet	0.5
Center of aircraft service (vertical)	2.0
<b>BUILDING EXTERIOR—SITE AREAS ADJACENT TO</b>	
Active entrances—pedestrian or vehicle	5.0
Inactive entrances—normally locked	1.0
Vital locations or structures (security)	5.0
Building Surrounds	1.0
<b>BUILDING FLOODLIGHTING</b>	
Terra cotta, light marble, plaster	A* 15 B* 10 C* 5
Bedford, or buff limestone, smooth buff face brick, concrete, aluminum	10 15 10
Smooth or medium gray brick, common tan or dark field gray brick	30 20 15
Brownstone, stained shingles, other dark surfaces	50 35 20
*A=city; B=urban; C=rural	
<b>CENTRAL STATIONS—ELECTRIC UTILITY</b>	
Barge unloading, car dumping	5.0
Conveyors	2.0
Storage tanks	1.0
Storage piles—coal, ash	0.2
Substation general lighting	2.0
<b>FLOODLIGHTED SIGNS</b>	
Bright surrounds, light surfaces	50
Bright surrounds, dark surfaces	100
Dark surrounds, light surfaces	20
Dark surrounds, dark surfaces	50
<b>PARKING AREAS</b>	
High Activity	3.6
Medium Activity	2.4
Low Activity	0.8
<b>QUARRIES AND OPEN MINES</b>	
Men and machines	5.0
<b>ROADWAYS—NON-DEDICATED AND PRIVATE</b>	
High Activity	2.0
Medium Activity	1.0
Low Activity	0.5
<b>SHIPPING—PIERS</b>	
Freight	20.0
Passengers	20.0
Surrounding active areas	5.0
<b>YARDS</b>	
Material Handling	5.0
Prison—general lighting	5.0
Railroad—general lighting bare yard	1.0
Storage—Inactive	1.0

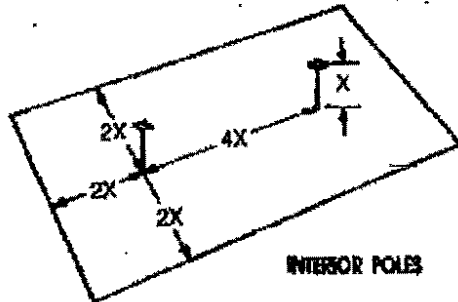
GENERAL APPLICATION			
ROADWAYS—MINIMUM AVERAGE FCS (AVERAGE/MINIMUM UNIFORMITY)	MINIMUM AVERAGE FCS (AVERAGE/MINIMUM UNIFORMITY)		
	Commercial	Intermediate	Residential
Freeway—Major Urban	0.84 (3:1)	0.84 (3:1)	0.84 (3:1)
Freeway—All Other	0.56 (3:1)	0.56 (3:1)	0.56 (3:1)
Divided Highway	1.30 (3:1)	1.12 (3:1)	0.84 (3:1)
Major	1.58 (3:1)	1.21 (3:1)	0.84 (3:1)
Collector	1.12 (4:1)	0.84 (4:1)	0.56 (3:1)
Local	0.84 (5:1)	0.65 (5:1)	0.37 (6:1)

NOTE: Minimum Average FCS refers to average footcandles at end-of-life lamp or group relamping.



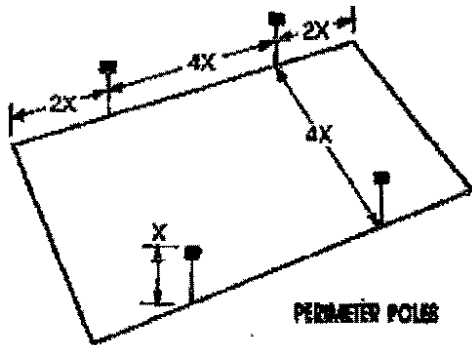
# OUTDOOR LIGHTING — LAYOUT, AIMING INSTRUCTIONS

## FLOODLIGHTS — 2X-4X RULE



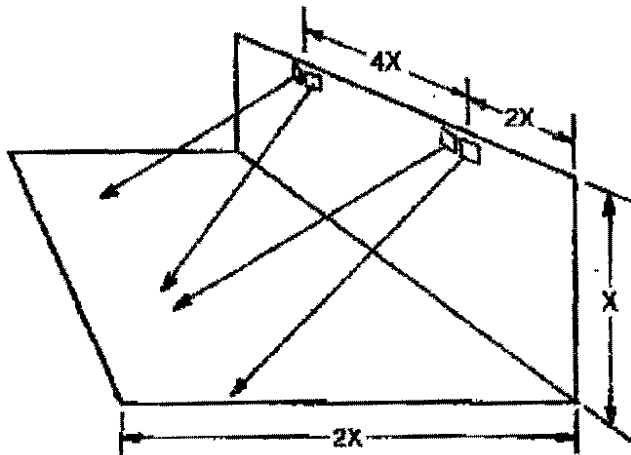
INTERIOR POLES

Areas lighted from central locations can be more economical but periphery locations are also desirable to provide needed visibility at entrances and exits.



PERIMETER POLES

If corner locations are not used, the distance from any side location to the edge of the area should not exceed twice the mounting height.



WALL MOUNTED FLOODLIGHTS AND WALLLIGHTERS

If luminaire locations are limited to only one side of the area to be lighted, the system will be effective for a distance of only two mounting heights unless the owner is agreeable to compromise the quality of the installation from the glare standpoint.

## FLOODLIGHTS — NEMA AND ANSIES BEAM DESCRIPTIONS

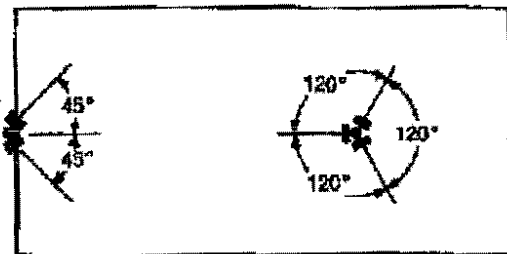
Illuminating engineers use various categorizing descriptors to save time in writing specifications and in describing the light distribution of luminaires. With respect to floodlights, the descriptor is a set of limits created by the National Electrical Manufacturers Association (NEMA) which assigns a number to the horizontal and vertical limits of a floodlight's beam spread. A NEMA 7X6 floodlight would have a beam that is over 130° wide horizontally and 100-130° wide vertically. In general, we regard anything wider than NEMA 5 as a wide beam floodlight.

NEMA TYPE	HORIZONTAL BEAM SPREAD	SUGGESTED MAX. AIMING LINE SEPARATION
2	18°-29°	12°
3	29°-46°	24°
4	46°-70°	40°
5	70°-100°	60°
6	100°-130°	90°
7	130°+	120°

## FLOODLIGHTS — AIMING

Widebeam floodlights with NEMA 6 or 7 horizontal beams will effectively light an area 45 degrees to either side of the aiming line. Perimeter poles therefore need at least two floodlights to cover the area in all directions. Narrower beam floodlights require less separation to achieve uniform lighting.

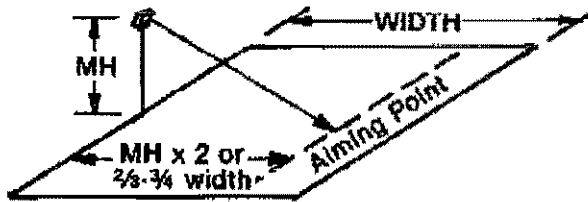
Interior Floodlights  
3 Per Pole  
Min.



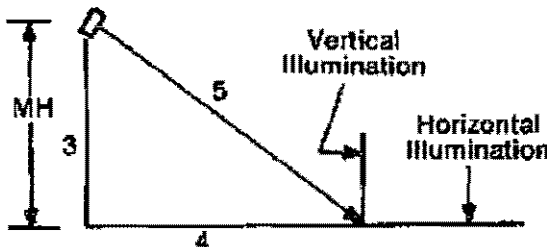
Perimeter Floodlights  
2 Per Pole  
Min.

# OUTDOOR LIGHTING—LAYOUT, AIMING INSTRUCTIONS

For normal area lighting the aiming point should be 2/3-3/4 the distance across the area or twice the mounting height, whichever is the lowest value. Higher aiming angles will not improve utilization and uniformity.



The highest horizontal illumination a floodlight can produce at a distance from the pole occurs when the maximum intensity or candlepower is aimed to form approximately a 3, 4, 5 triangle. This is useful when determining pole height for area lighting or setback for building floodlighting.



Illumination on vertical surfaces is often as important as horizontal illumination. This is especially true in outdoor work area and security lighting. The vertical illumination in line with the floodlight can be determined by the ratio of the horizontal distance to the mounting height. If, for example, the horizontal distance is twice the mounting height, the vertical illumination will be twice the horizontal.

$$\text{VERT FC} = \frac{\text{HORIZ FC} \times \text{Horizontal distance away from floodlight}}{\text{Mounting Height}}$$

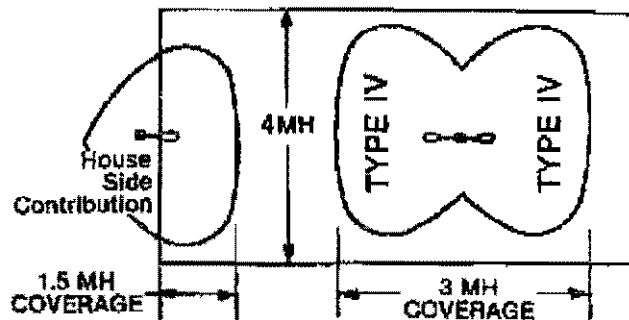
## ROADWAY LUMINAIRES

Roadway luminaires have a variety of descriptors established by the Illuminating Engineering Society of North America (IES) and the American

**ANSIES  
 HORIZONTAL  
 BEAM SHAPE  
 DESCRIPTORS**

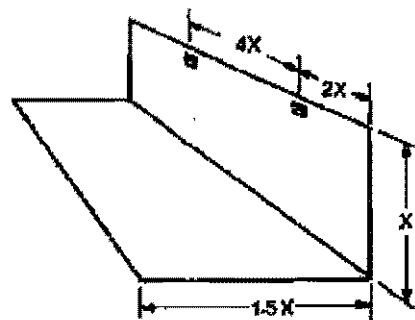
National Standards Institute (ANSI). The ANSIES descriptor important to area lighting is the horizontal beam shape and is designated by Roman Numerals I through V. For the purpose of our Quick Selector, the shape of the beam is more important than the other two ANSIES designator digits.

Roadway luminaires are better suited for lighting an area from poles mounted within the area. Their distribution produces some "house side" illumination in the direction of the pole that is useful. But, the house side illumination can be wasted or become light trespass if the roadway luminaire is mounted around the perimeter of an area. For lighting from within an area, two roadway units should be mounted back-to-back to get best uniformity. Luminaires with 90° cutoff (from vertical) are useful for controlling light trespass in close quarters.



## WALLLIGHTS LUMINAIRE

Walllights are a hybrid combination of wide beam floodlight and roadway optics giving them enough sideward output to be used with only one unit per location. Transverse (out front) coverage is still 2 mounting heights.



WALLLIGHTS

# OUTDOOR LIGHTING QUICK SELECTOR

This quick selector is to help estimate the number of wide beam floodlights, roadway luminaires, walllighters or high mast lighting systems needed to light an outdoor area from within or from around the perimeter of the area. The luminaires may be mounted on poles or on nearby buildings and structures.

For applications lighted from the perimeter, the lighted area is considered to be that bordered by the floodlight locations (even if the luminaires are set back away from the actual application area). This method is only applicable for setbacks of up to one mounting height.

Other considerations are: In general, A luminaire location can effectively cover an area of up to two mounting heights away from it. Floodlights are usually considered first for this because they can be aimed away from their location. For example, this makes them especially suited for lighting from around the perimeter of an area. But, floodlights can only light an area 90° wide so that you usually need two or more units per location. Luminaires with roadway light distribution can cover a wide area both in front of and behind the location and find application within the site to be lighted. However roadway luminaires can not light as far out in front as a floodlight. Walllighters are a hybrid luminaire which combines floodlight and roadway characteristics.

A word of caution: This method is not intended for estimating roadway or sports lighting. The following sections cover these applications in detail.

### HERE'S HOW TO USE THIS SELECTOR:

- STEP 1. Determine the average maintained illumination level recommended from Illumination Recommendations—Outdoor Table.
- STEP 2. Determine the dimensions (length and width) of the site.
- STEP 3. Select light source type (high pressure sodium, metal halide).

STEP 4. Use figure below to determine the WATTS/SQUARE FOOT by moving horizontally along the desired footcandle line to the appropriate diagonal light source line and then moving vertically down to read the Watts/Sq. Ft. on the horizontal axis.

STEP 5. Calculate the total lamp watts needed for the area:  
 $TOTAL\ WATTS = AREA\ (L\ X\ W) \times WATTS/SQ.\ FT.$   
(Multiply all total watts by 1.7 when using Walllighters.)

STEP 6. Using your knowledge of the site, determine the probable mounting height for the luminaires. Perhaps the height of a nearby building, existing poles, local height restrictions, nearby lighting, or your experience may factor into this decision.

The simple 2X-4X rule of thumb is also effective. Simply divide the shortest distance that can be covered by adjacent luminaire locations by four to get a mounting height that conforms to the rule.

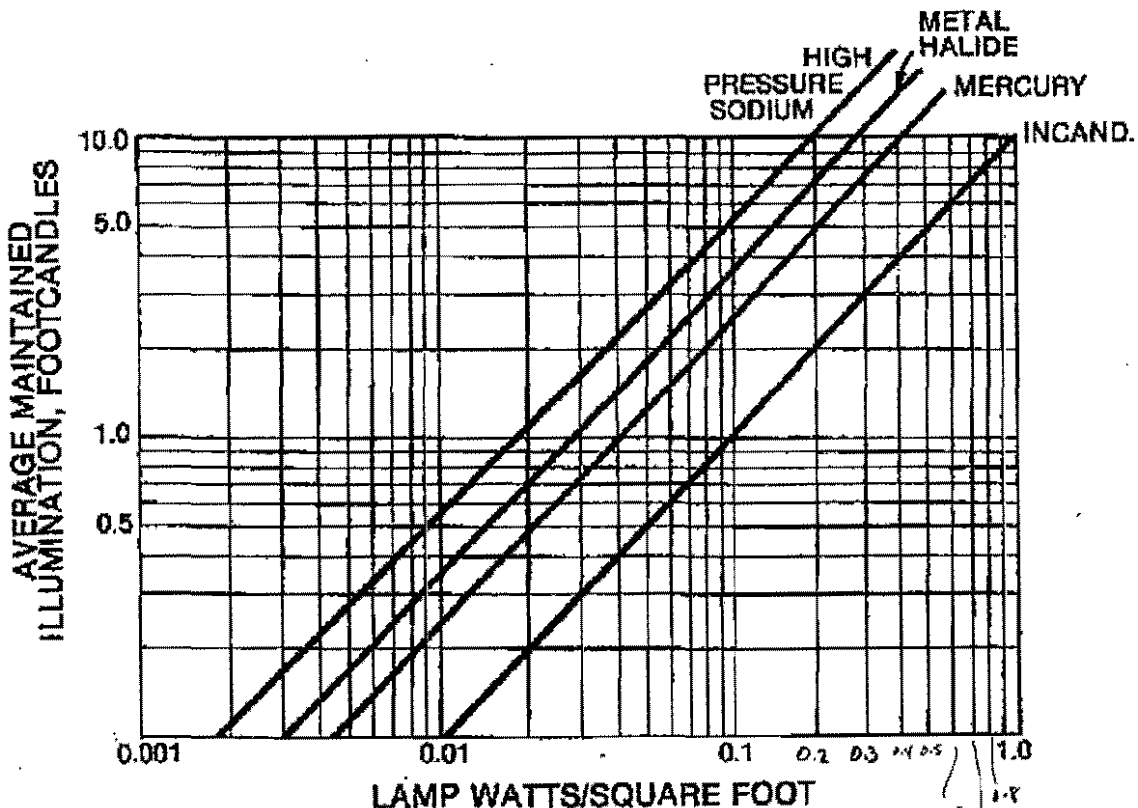
Note that the higher the mounting height, the fewer the locations or poles. Fewer poles, fewer foundations, less wiring, and less trenching translate into lower cost of installation.

STEP 7. Using your mounting height, position pole or building mounted luminaire locations. Keep in mind that the luminaire locations should not be spaced more than four mounting heights apart and that light coverage is not effective more than two mounting heights away or uniformity suffers.

STEP 8. Fine tune your layout in terms of quantity of luminaires per location by referring to the guidelines in this section.

STEP 9. Now calculate the wattage of the luminaires:  
 $Luminaire\ Wattage = \frac{Total\ lamp\ wattage\ for\ the\ area\ (STEP\ 5)}{Number\ of\ Luminaires}$

STEP 10. Select the actual GE luminaire for your application.

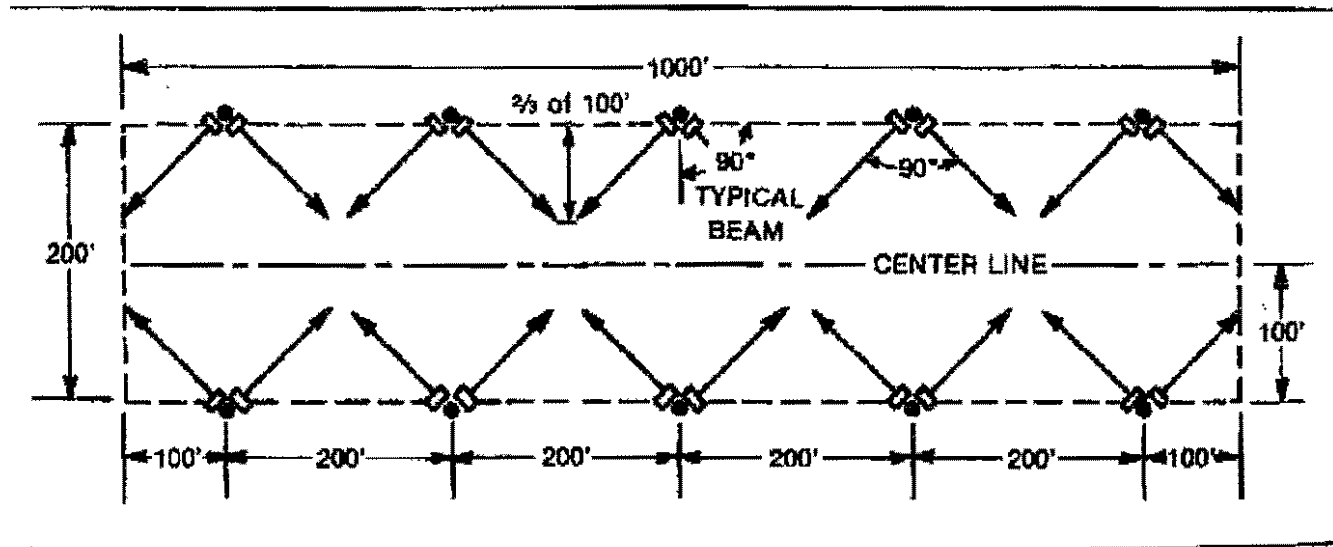


# OUTDOOR LIGHTING QUICK SELECTOR

Consider this example: You want to light a materials handling yard measuring 200 by 1000 ft. To permit free movement within the fenced-in area, you want to locate poles around the perimeter just inside the fence. There are no adjacent structures.

- STEP 1. From the Outdoor Illumination Recommendations Table you select a 5 FC light level.
- STEP 2. The area is  $1000 \times 200 = 200,000$  sq. ft.
- STEP 3. You chose high pressure sodium because of its efficiency.
- STEP 4. From the graph, lamp watts/sq. ft. = 0.1.
- STEP 5.  $200,000 \times 0.1 = 20,000$  lamp watts.
- STEP 6. Per the 2X-4X rule:  $\frac{200 \text{ ft.}}{4} = 50 \text{ ft. mounting height.}$

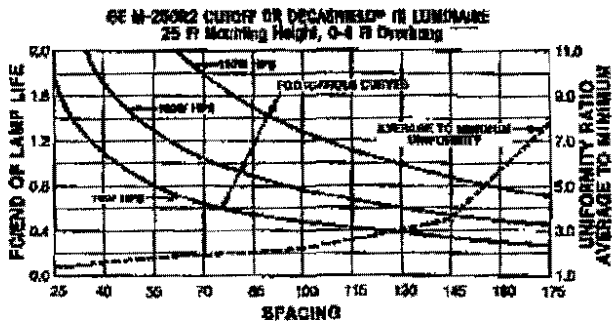
- STEP 7. You select locations for the poles along both 1000 ft. sides of the area.
- STEP 8. You position the poles at 200 ft. intervals along the sides with the first pole 100 ft. - 2X from either end.
- STEP 9.  $\frac{20,000}{40 \text{ locations}} = 2,000 \text{ watts/location} = \frac{\text{two (2) 1000-watt floodlights/location}}$   
Following the guidelines, you aim the two floodlights on each pole at 45° angles to the sides of the area (90° from each other) at points 67 ft. ( $\frac{1}{3} \times$  two mounting heights) from the sides of the area (see diagram).
- STEP 10. You select a GE HIX Powerflood® floodlight with a wide beam (NEMA 6X5) distribution.



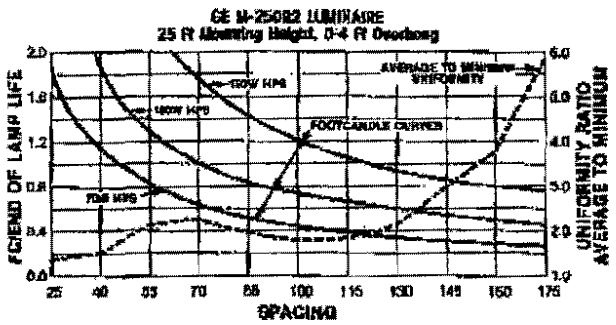
# ROADWAY LIGHTING QUICK SELECTOR

The graphs below are summaries of point by point computer arrays for various pole spacings. Select the maximum spacing for the average to minimum uniformity desired (dashed line); scale on the right. Then select the wattage rating that provides the maintained footcandles desired. Footcandle and uniformity recommendations are shown on page 7, 9030.

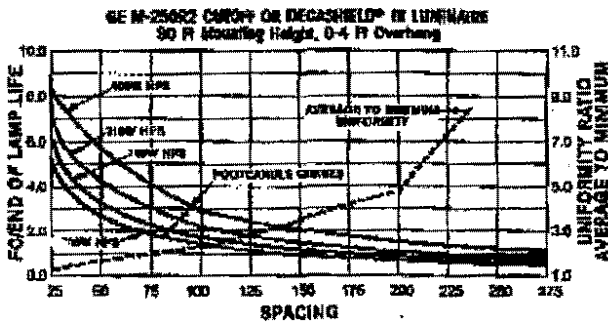
## TWO-LANE ROADWAY



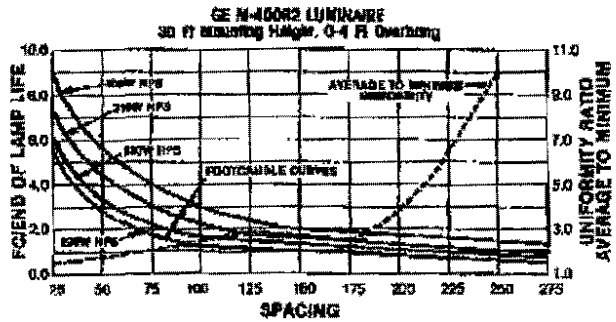
## TWO-LANE ROADWAY



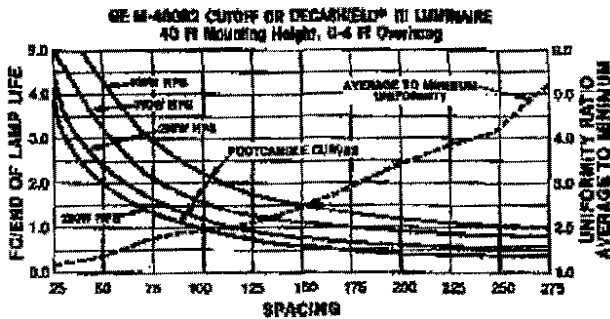
## THREE-LANE ROADWAY



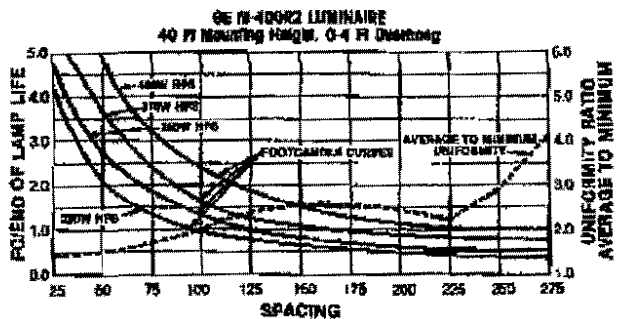
## THREE-LANE ROADWAY



## FOUR-LANE ROADWAY



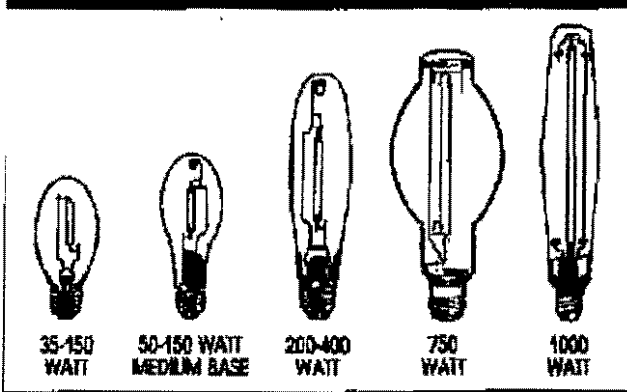
## FOUR-LANE ROADWAY



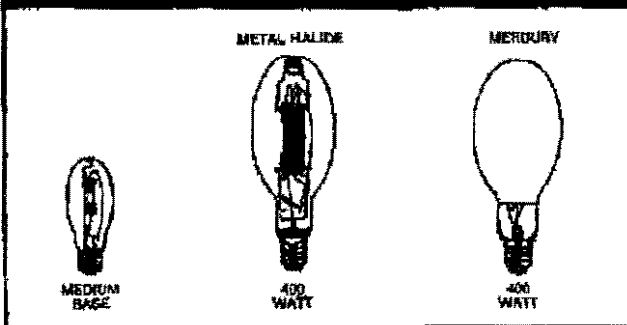
# HID LAMP DATA

The following data represents inputs available from lamp manufacturers at the time of publication of this catalog. We suggest that you consult the most current lamp data available for critical design purposes.

## HIGH PRESSURE SODIUM (HPS) LAMPS



## METAL HALIDE AND MERCURY LAMPS



## HIGH INTENSITY DISCHARGE LAMPS

High Intensity Discharge (HID) lamps are those which have a gaseous discharge arc tube, operating at pressures and current densities sufficient to generate desired quantities of visible radiation within their arcs alone. These lamp types have become popular primarily for three reasons.

1. High efficacy — more lumens per watt of power consumed.
2. Long lamp life and good lumen maintenance — reduces operating expenses.
3. Compact source — permits good light control by use of reflectors and refractors, resulting in high system efficiency.

The three principal HID lamps now in common use are mercury, metal halide and high pressure sodium (HPS).

LAMP WARMUP CHARACTERISTICS	
(TIME TO REACH 80% LIGHT OUTPUT)	
Mercury	5-7 minutes
Metal Halide	2-4 minutes
High Pressure Sodium	3-4 minutes

**HID RESTART CHARACTERISTICS**  
 All HID lamps will deionize when there is a power interruption or if the lamp socket voltage drops below the amount required to sustain the arc for more than a few cycles. Because it takes greater voltage to ionize the arc tube vapors while they are hot and under higher pressure, the lamp will not restart immediately.

TIME TO RESTART	
Mercury	3-6 minutes
Metal Halide	10-45 minutes
High Pressure Sodium	1 minute

**PHASING REQUIREMENTS**  
 HID lamp output tends to follow the alternating current waveform. This can cause small moving objects to flicker. To avoid this annoyance three phase power is suggested for mercury and HPS lamps. Split phase ballasting can also be used with mercury lamps. Single phase power can be used with metal halide lamps.

**LIGHTING SYSTEM MAINTENANCE FACTOR**  
 The lighting system maintenance factor (MF) is the product of the lamp lumen depreciation (LLD) and the luminaire dirt depreciation (LDD). The lamp lumen depreciation is given in the lamp tables for both the "mean" and "end of relamping period." The mean value is taken at approximately 40% life for metal halide and 50% life for HPS lamps. For mercury lamps the value is taken at 8,000 hours. This is due to the extreme long life of the mercury lamp. A 16,000-hour economic life is suggested for this lamp. The values for "end of relamping period" are taken at the end of the lamp's life. The user may also use a more convenient group relamping period and should adjust the value accordingly.

Luminaire dirt depreciation (LDD) is a function of the in-service conditions and the type of luminaire. Enclosed and filtered luminaires have built-in maintenance characteristics which reduce the amount and effect of dirt accumulation. While it is not possible to select one number to describe all conditions, the following LDD values are suggested.

OUTDOOR APPLICATIONS			
LUMINAIRE TYPE	LUMINAIRE DIRT DEPRECIATION (LDD)		
Enclosed and filtered	0.95		
Unfiltered	0.60		
INDOOR APPLICATIONS			
LUMINAIRE TYPE	LUMINAIRE DIRT DEPRECIATION (LDD)		
	Light	Medium	Heavy
Enclosed and filtered	0.97	0.93	0.88
Enclosed	0.94	0.86	0.77
Open and ventilated	0.94	0.84	0.74



**HIGH PRESSURE SODIUM LAMP DATA**

ORDERING ABBREVIATION	BALLAST ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	INITIAL LUMENS	LAMP LUMEN DEPRECIATION	
					MEAN	END OF LIFE
LU50Med	S70-NA	Clear	5 1/4	2,250	0.90	0.73
LU50Med	S70-NB	Diffuse	5 1/4	2,150	0.90	0.73
LU60Med	S68-IX	Clear	3 1/2	4,000	0.90	0.73
LU50Med	S68-YY	Diffuse	3 1/2	3,800	0.90	0.73
LU60	S68-MS	Clear	5	4,000	0.90	0.73
LU60D	S68-IX	Clear	5	4,000	0.90	0.73
LU60D	S68-NF	Diffuse	5	3,800	0.90	0.73
LU60D	S68-YY	Diffuse	5	3,800	0.90	0.73
LU70Med	S62-LC	Clear	5 1/4	6,400	0.85	0.77
LU70Med	S62-LH	Diffuse	5 1/4	5,950	0.85	0.77
LU70	S62-NE	Clear	5	4,400	0.85	0.77
LU70D	S62-LF	Diffuse	5	5,950	0.85	0.77
LU70D	S62-NF	Diffuse	5	5,950	0.85	0.77
LU70D	S62-LH	Diffuse	5	5,950	0.85	0.77
LU100Med	S54-SB	Clear	3 1/2	9,300	0.90	0.73
LU100Med	S54-SU	Diffuse	3 1/2	8,800	0.90	0.73
LU100	S54-SB	Clear	5	9,300	0.90	0.73
LU100D	S54-SG	Diffuse	5	8,800	0.90	0.73
LU100D	S54-MC	Diffuse	5	8,800	0.90	0.73
LU100D	S54-SH	Diffuse	5	8,800	0.90	0.73
LU150Med	S55-RN	Clear	3 1/2	16,000	0.90	0.73
LU150Med	S55-RP	Diffuse	3 1/2	16,000	0.90	0.73
LU150	S55-RC	Clear	5	16,000	0.90	0.73
LU150D	S55-MD	Diffuse	5	16,000	0.90	0.73
LU150D100	S55-GD	Clear	5	16,000	0.90	0.73
LU150D100D	S55-GE	Diffuse	5	16,000	0.90	0.73
LU250	S50-NA	Clear	5 1/4	22,000	0.90	0.73
LU250	S50-NA	Clear	5 1/4	22,000	0.90	0.73
LU250D	S50-VC	Diffuse	5	26,000	0.90	0.73
LU250D	S50-VA	Clear	5 1/4	30,000	0.90	0.73
LU300	S57-MR	Clear	5 1/4	32,000	0.90	0.73
LU400	S51-NA	Clear	5 1/4	50,000	0.90	0.73
LU400D	S51-NB	Diffuse	5 1/4	47,500	0.90	0.73
LU750	S114-NH	Clear	7	110,000	0.90	0.73
LU1000	S22-AB	Clear	8 1/4	140,000	0.90	0.73

ORDERING ABBREVIATION	BALLAST ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	INITIAL LUMENS	LAMP LUMEN DEPRECIATION	
					MEAN	END OF LIFE
LU700Med	S62-LB	Clear	3 1/2	3,800	0.90	0.60
LU700Med	S62-LH	Diffuse	3 1/2	3,600	0.90	0.60
LU1500Med	S55-RN	Clear	3 1/2	16,000	0.92	0.73
LU1500Med	S55-RP	Diffuse	3 1/2	9,900	0.92	0.73
LU1500Med	S55-MC	Clear	5	10,500	0.92	0.73
LU1500Med	S55-MD	Diffuse	5	9,900	0.92	0.73
LU2500K	S60-VA	Clear	5 1/4	22,500	0.92	0.83
LU2500K	S60-VC	Diffuse	5	20,000	0.92	0.83
LU4000K	S51-NA	Clear	5 1/4	57,400	0.92	0.83
LU4000K	S51-NB	Diffuse	5 1/4	55,900	0.92	0.83

**NOTE**

Similar wattage clear and diffuse HPS lamps may not have the same bulb size or light center length. If lamps are interchanged, the socket position may need to be changed to obtain the desired photometric distribution.

Most GE Lighting Systems products will be furnished with Mogul Base Sockets. Any exceptions will be noted on product pages. Medium base socket must be rated for 4KV.

**HIGH PRESSURE SODIUM-AVERAGE LIFE VS. HOURS START**

HOURS START	ESTIMATED AVG. LIFE
Continuous	24,000+
10	24,000+
5	18,000
2.5	13,500
1.2	10,000

#Does not apply to 35W HPS, E-2 Lux® or "Deluxe" lamps.

# METAL HALIDE LAMP DATA\* (See WARNING)

ORDERING DESIGNATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	VERTICAL BURNING				HORIZONTAL BURNING				
				MINIMAL LUMENS	LAMP LUMEN DEPRECIATION		RATED AVERAGE LIFE IN HOURS PER START	INITIAL LUMENS	LAMP LUMEN DEPRECIATION		RATED AVERAGE LIFE IN HOURS PER START	
					MEAN*	END OF LIFE			MEAN*	END OF LIFE		
<b>25-WATT ENCLOSED BULBS ONLY - MFD 0.15A</b>												
M75U	M70	Clear	3-25/64	2,200	0.79	0.65	5,000	5,000	0.79	-	5,000	
<b>25-WATT ENCLOSED BULBS ONLY - MFD 0.15A</b>												
M100U	M90	Clear	3-3/8	4,500	0.80	0.65	7,500	8,500	0.80	-	7,500	
<b>25-WATT ENCLOSED BULBS ONLY - MFD 0.15A</b>												
M175BU**	M57	Clear	5	15,000	0.80	0.69	15,000	-	-	-	-	
M175BD**	M57	Clear	5	15,000	0.80	0.69	15,000	-	-	-	-	
M175BCBU	M57	Phos.	5	15,750	0.77	0.65	10,000	-	-	-	-	
M175BCBU	M57	Phos.	5	15,750	0.77	0.65	10,000	-	-	-	-	
M175BU	M57	Clear	5	14,000	0.74	0.65	10,000	12,000	0.69	0.57	6,000	
M175BUHED	M57	Clear	3-1/2	13,000	0.80	0.65	10,000	12,000	0.69	0.55	6,000	
M175BCBU	M57	Phos.	5	14,000	0.74	0.62	10,000	12,000	0.65	0.56	6,000	
M175BCBUHED	M57	Phos.	3-1/2	12,350	0.80	0.65	10,000	11,000	0.69	0.55	6,000	
<b>25-WATT ENCLOSED BULBS ONLY - MFD 0.15A</b>												
M125BU	M58	Clear	5	20,000	0.83	0.69	10,000	19,000	0.72	0.54	10,000	
M125BCBU	M58	Phos.	5	20,000	0.78	0.60	10,000	19,000	0.69	0.55	10,000	
<b>25-WATT ENCLOSED BULBS ONLY - MFD 0.15A</b>												
M140BUHED	-	Clear	5	36,000	0.80	-	15,000	34,000	0.80	-	15,000	
<b>40-WATT - MFD 0.15A</b>												
M175BU	M59	Clear	7	36,000	0.80	0.66	20,000	32,000	0.74	0.66	15,000	
M175BCBU	M59	Phos.	7	36,000	0.77	0.58	20,000	32,000	0.71	0.58	15,000	
M175BUHED	M59	Clear	5	36,000	0.80	0.65	20,000	32,000	0.69	0.56	15,000	
M175BUHED	M59	Clear	7	40,000	0.80	0.64	20,000	-	-	-	-	
M175BUHED**	M59	Clear	7	40,000	0.80	0.64	20,000	-	-	-	-	
M175BCBUHED**	M59	Phos.	7	40,000	0.77	0.59	20,000	-	-	-	-	
M175BCBUHED**	M59	Phos.	7	40,000	0.77	0.59	20,000	-	-	-	-	
M140BUHED**	-	-	7	42,000	0.85	0.80	20,000	-	-	-	-	
<b>50-WATT - MFD 0.15A</b>												
M100BU	M47	Clear	9-1/2	110,000	0.80	0.70	12,000	107,000	0.80	0.70	12,000	
M100BCBU	M47	Phos.	9-1/2	105,000	0.76	0.65	12,000	100,000	0.76	0.65	12,000	
M100BUHED**	M47	Clear	9-1/2	115,000	0.80	0.70	12,000	-	-	-	-	
M100BCBUHED**	M47	Phos.	9-1/2	115,000	0.80	0.70	12,000	-	-	-	-	
<b>150-WATT ENCLOSED BULBS ONLY - MFD 0.15A</b>												
M150BUHED	M48	Clear	9-3/8	155,000	0.90	0.87	3,000	150,000	0.90	0.87	3,000	
M150BCBUHED	M48	Clear	9-3/8	155,000	0.90	0.87	3,000	150,000	0.90	0.87	3,000	

\*SAF-CALOP lamps are available. Lamp designation is changed from MVR to MVI. All other data remains the same. Also available as MVI400BU or MVI400CBU.  
 \*87% of rated life. \*\*Variable life, open fixture—all other, enclosed fixture.

## METAL HALIDE LAMP TILT FACTOR

When the following metal halide lamps are operated in other than vertical positions (as in floodlights), initial vertical-burning lumens are reduced by the multipliers in this table.

LAMP	ANGLE OFF VERTICAL*						
	0°	15°	30°	45°	60°	75°	90°
MVR1500HBU/E MVR1500HBU/E MVR1000BU	1.0	0.95	0.94	0.90	0.88	0.87	0.98
MVR400U and lower wattages	1.0	0.95	0.94	0.90	0.88	0.87	0.94

\*This data is for GE lamps only.

## BURNING POSITIONS

MVR 400VBU or VBD MVR 1000VBU or VBD MVR 175BU or BD	Vertical burning only BU—Base up ± 15° BD—Base down ± 15°
M75U M100U MVR 175U MVR 250U MVR 400U MVR 1000U	Universal burning
MVR 1500HBU or HBD	HBU—Base up to 15° below horizontal HBD—Base down to 15° above horizontal

## WARNING

**(ALL MERCURY AND METAL-HALIDE LAMPS)**  
 This lamp can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken are commercially available from the General Electric Company.

### MERCURY LAMP DATA (See WARNING)

ORDERING ABBREVIATION	MS CODE	FINISH	LIGHT CENTER LENGTH INCHES	VERTICAL BURNING			HORIZONTAL BURNING		
				INITIAL LUMENS	LAMP LUMEN DEPRECIATION		INITIAL LUMENS	LAMP LUMEN DEPRECIATION	
					MEAN	END OF RELAMPING PERIOD		MEAN	END OF RELAMPING PERIOD
100 WATT - LIFE 24,000 - HOURS TO HOURS START - MODULE BASE									
HR100A38	H38HR100	Clear	5	3,850	0.81	0.64	3,680	0.77	0.57
HR100DX38†	H33JA-R100DX	Deluxe	5	4,200	0.84	0.69	4,000	0.79	0.63
75 WATT - LIFE 24,000 - HOURS TO HOURS START - MODULE BASE									
HR175A39	H39XB-R175	Clear	6	7,950	0.94	0.88	7,570	0.90	0.81
HR175DX39†	H39XC-R175DX	Deluxe	5	8,600	0.89	0.79	8,150	0.86	0.74
HR175WDX39	H39WC-R175W DX	Warm DX	5	7,000	0.85	0.72	6,840	0.81	0.65
65 WATT - LIFE 24,000 - HOURS TO HOURS START - MODULE BASE									
HR250A37	H37KB-R250	Clear	6	11,200	0.92	0.85	10,700	0.88	0.77
HR250DX37†	H37KC-R250DX	Deluxe	6	12,100	0.86	0.75	11,500	0.82	0.65
HR250WDX37	H37WC-R250W DX	Warm DX	6	10,000	0.84	0.63	9,540	0.76	0.58
400 WATT - LIFE 24,000 - HOURS TO HOURS START - MODULE BASE									
HR400A33	H33CD-R400	Clear	7	21,900	0.91	0.83	20,000	0.87	0.75
HR400DX33†	H33GL-R400DX	Deluxe	7	22,500	0.85	0.71	21,500	0.80	0.63
HR400WDX33	H33GL-R400W DX	Warm DX	7	19,500	0.82	0.67	18,600	0.77	0.58
1000 WATT - LIFE 24,000 - HOURS TO HOURS START - MODULE BASE									
HR1000A36	H36GV-R1000	Clear	9%	57,000	0.85	0.72	54,000	0.85	0.72
HR1000DX36†	H36GW-R1000DX	Deluxe	9%	63,000	0.75	0.54	60,000	0.80	0.63
HR1000WDX36	H36GW-R1000W DX	Warm DX	9%	58,000	0.63	0.48	54,200	0.73	0.58

\* Mercury Lamp Lumen Depreciation based on 24,000 hours of operation at 10 hours/start on the most common ballast type for that lamp.  
 †SAF-T-GARD® lamps are available. Lamp designation is changed from HR to HT. All other data remains the same.

### QUARTZ/TUNGSTEN - HALOGEN LAMP DATA (120V Except as Noted)

### WARNING

ORDERING ABBREVIATION	WATT	MAX. OVERALL LENGTH IN.	BURNING POSITION	APPROXIMATE LUMENS		LIFE HOURS
				INITIAL	MEAN	
Q300T3CL	300	4%	Horiz.	5,950	5,760	2,000
Q425T3CL	425	4%	Horiz.	8,900	8,600	2,000
Q500T3W/W	350	4%	Horiz.	10,000	9,500	2,000
Q500T3CL (130V)	500	4%	Horiz.	10,950	10,600	2,000
Q500T3CL	500	4%	Horiz.	11,400	10,260	2,000
Q1500T3W/W	900	10%	Horiz.	32,000	30,400	2,000
Q1250T3CL (208V)	1250	10%	Horiz.	28,000	27,100	2,000
Q1500T3CL (240V)	1500	10%	Horiz.	35,800	34,700	2,000
LAMPS FOR INSTANT-ON AUTOMATICALLY SWITCHED QUARTZ						
Q150CLDC	150	2%	Any	2,800	2,600	2,000
Q250CLDC	250	3	Any	5,000	4,850	2,000

### (ALL MERCURY AND METAL HALIDE LAMPS)

This lamp can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or fractured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken are commercially available from the General Electric Company.

### FLUORESCENT LAMP DATA

ORDERING ABBREVIATION	WATTS	VOLTS	LUMENS	MEAN @ 1000 HR	LIFE HOURS	STARTING TEMP °F	BASE STYLE
FOR QUARTZ HALOGEN STARTERS							
PLCP150UR22W/RS	22	120	1,250	1,082	10,000	25	PLC (2 pin) GX300-2
FOR QUARTZ HALOGEN STARTERS							
PL18Z7	13	120	800	780	10,000	25	PL (2 pin) GX23
FOR QUARTZ HALOGEN STARTERS							
F130T796K	13	120	660	--	10,000	25	(2 pin) GX23-2
FOR BI-PIN STARTERS							
F40BX/SPX1/RS	40	--	9150	--	20,000	50	(4 pin) 2B11

NOTE: 9 Hours/Start will be longer at 10 Hours/Start

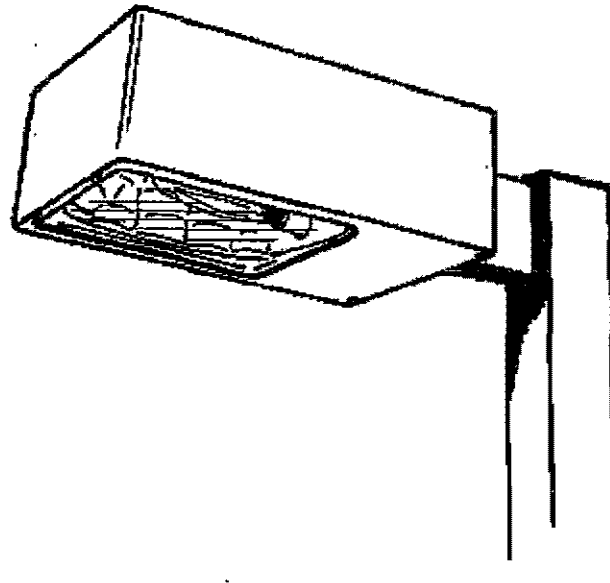
# DECASHIELD® III LUMINAIRE

## APPLICATIONS

Walkways, driveways, tennis courts, malls, shopping center, commercial and industrial complexes, and residential areas

## SPECIFICATION FEATURES

- UL1572 Listed SUITABLE FOR WET LOCATIONS
- CSA certified
- Heavy-duty die-cast aluminum housing and door
- Polyester powder paint finish standard for dark bronze, black and white
- No-tool access stainless steel latch design
- Heat and impact resistant tempered flat glass lens
- ALGLAS® finish on Type II, Type III and Type V reflectors, anodized finish on Forward Throw reflector
- Type II, Type III metal halide, and all Forward Throw reflectors are field rotatable
- Enclosed and gasketed optical
- Decorative Mounting Arm standard
- Mogul base socket
- Plug-in ignitor
- Unit shipped complete in one carton (Ballast secured to housing)
- Removable ballast tray (DSMT)



## ORDERING NUMBER LOGIC

REGISTERED

**DSMT 40 S O A 1 G MC3 DB C**

PRODUCT ID XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	PF FUNCTION X	LENS TYPE X	IES DISTRIBUTION TYPE X X X	COLOR XX	OPTIONS XXX
<b>DSMT</b> = Decashield III Luminaire with Ballast Tray <b>DSMF</b> = Decashield III Luminaire with Internal Slipfitter, adjustable for 1.660 to 2.375 in. (42 to 60mm) OD pipe mounted.	07 = 70 10 = 100 NOTE: HPS only 15 = 150 (SSV) 17 = 175 25 = 250 40 = 400 75 = 750	S = HPS M = MH Standard: Mogul base lamp not included.	0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120/347 NOTE: 120/347 connected for 120V	See Ballast and Photometric Selection Table A = Autoreg H = HPF Reactor or Lag M = Mag-Reg	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacles connected same voltage as unit.	G = Glass S = Short M = Medium FWT* = Forward Throw HTV** = Horizontal Type V	See Ballast and Photometric Selection Table C = Cutoff 2 = Type II 3 = Type III	Al = Aluminum Bl = Black DB = Dark Bronze (Standard) WH = White	A = Lightning Arrestor C = Charcoal Filter F = Fusing (Not available with multivolt or 120/347V) R = No Arm

NOTE: \*Use FWT for 3-character distribution type  
 \*\*Use HTV for 3-character distribution type

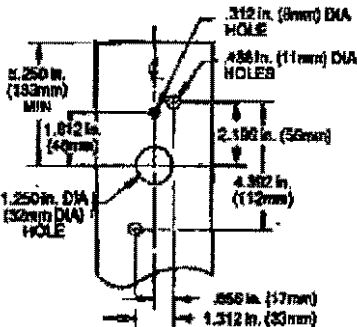
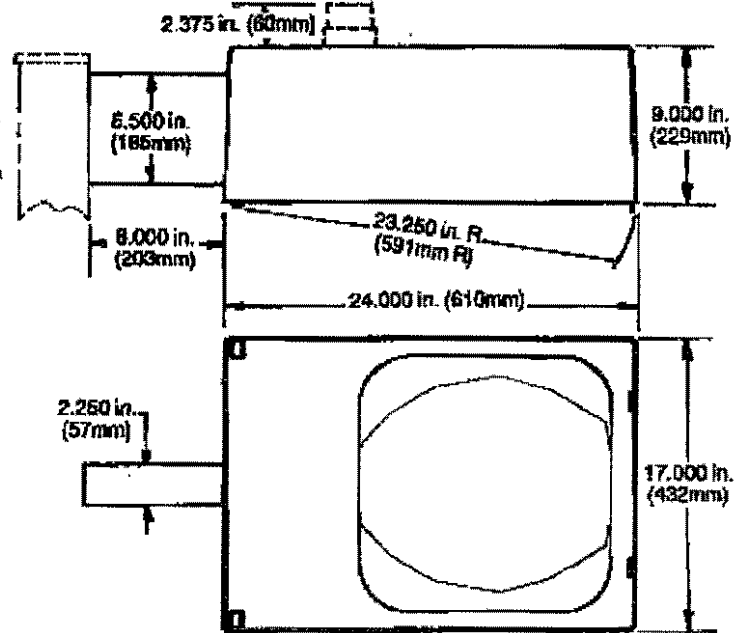
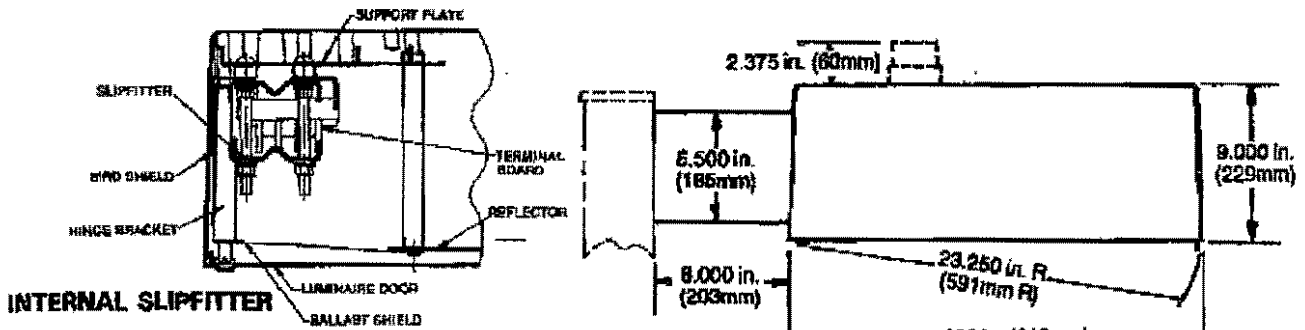
Data subject to change without notice

The catalog numbers, options and modifications on this page are UL Listed unless otherwise noted.  
 \* Registered Trademark of General Electric Company

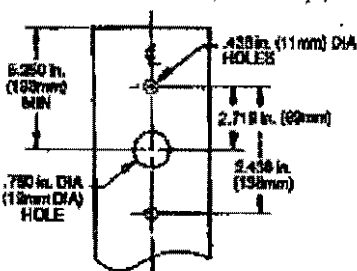


# DECASHIELD® III LUMINAIRE

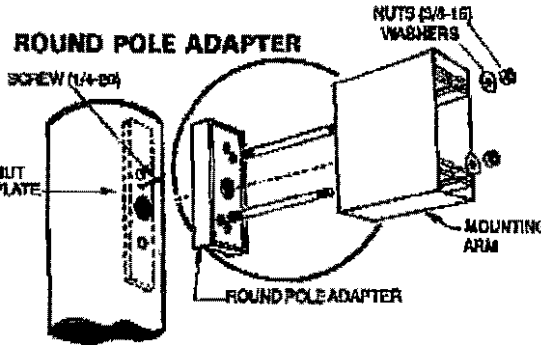
## DIMENSIONS



**DRILLING TEMPLATE FOR SQUARE POLES**



**DRILLING TEMPLATE FOR ROUND POLES\***



\*For use with round pole adapter only:  
 RPADB-05—Dark Bronze, for 3.5 to 4.5-inch (89 to 114mm) OD pole  
 RPADB-06—Black, for 3.5 to 4.5-inch (89 to 114mm) OD pole

### DATA

Approximate Net Weight:	35-45 Lbs.
Approximate Net Weight:	16-18 Kgs
Suggested Mounting Height:	20-40 Ft
Suggested Mounting Height:	6-12 M
Effective Projected Area	
With Mounting Arm:	1.8 Sq ft
Without Mounting Arm:	0.17 Sq ft
Without Mounting Arm:	1.4 Sq ft
Without Mounting Arm:	0.43 Sq ft

### BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type Voltage							Photometric Curve No. 35-17----				
		Multivolt	120	208	240	277	347, 20X347	480	SC2	MC2	MC3	HTV	FWT
70, 100, 150 (55V)	HPS	A, H	A, H, M, A, M	A, M, A, M	A, M, A, M	A, H	A, M	N/A	8591	8596	8599	8604	
250, 400	HPS	A	A	A	A	A	A	N/A	8592	7315	8600	8605	
750	HPS	H	H	H	H	A	H	N/A	N/A	8256	8601	8606	
175, 250	MH	A	A	A	A	A	A	N/A	8594	8597	8602	8607	
400	MH	A	A	A	A	A	A	7312	8595	8598	8603	8608	

NOTE: N/A=Not Available

### REFERENCES

See Page 6900 for start of Accessories and Mounting  
 See Page 6980 for Distribution Type Classification  
 See Page 8000 for start of Pole Selection

10-6-98

## Street lights

Mercury Vapor — Orange light

High Pressure Sodium — Yellowish light

We have these on Belt Line Rd — 250 watts

400 watts are available  
(must be on 40' pole)

Metal Halide — White Light

@ Spectrum - 250 watts

Sodium Vapor -

Ray Hilton

Hi Pres Sodium Orange light

Metal Halide - White Light

Addison Arice 250w hi pres  
Sodium

around the circle  
BEGA's 175 watts Metal Halide

Streetlights -

Round / Cobra double \$550

Rectangular double \$1550 / standard  
Single \$1300

250 W HPS or 400 Metal  
Halide

How controlled



10/7/98

Bobby FARM - Street lights

Talked <sup>with</sup> Standards Dept  
& City of Dallas <sup>the</sup> Bureau

\* Recommend 250 metal

→ Halide and/or

Get a consulting firm

to study the situation

Re our spacing -

Bigger <sup>wattage</sup> may overflow  
sidewalk lights

Dont want one light  
to overflow the other

**Jim Pierce**

**From:** jporter1@tu.com  
**Sent:** Wednesday, September 30, 1998 10:45 AM  
**To:** jpierce@ci.addison.tx.us  
**Subject:** Re: Arapaho Road Streetlights

Jim,

I have spoken to Bobby and everything is squared away for the lights to be installed as requested. He and I are both having to perform functions we haven't had to do before. Ideally, you wouldn't have even noticed anything different.

jpierce@ci.addison.tx.us on 09/25/98 03:41:21 PM

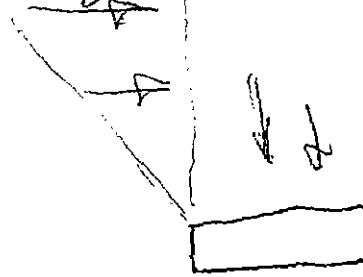
**To:** Joel Porter/Texas Utilities  
**cc:** Jeanne Hooker/LSG/ENSERCH/US  
**Subject:** Arapaho Road Streetlights

Bobby Inmon advises he needs authorization to order streetlights for the Arapaho Road Project. Please prepare whatever paperwork is necessary for the streetlights. Thanks, Jim.

TA Pole  
212

2207  
471  
3421

Exigmo-Time Switch



Arapaho -

9-4-98

TU pole removal issue

Tim Beidleman / SA Bell 972-234-7085

can remove on 3 poles to east.  
pole @ west serves coast trailers --

So must be moved - don't know how  
it can be done. Will meet inspector  
out on job site Tuesday and try  
to figure out.

Telcom from Joel Porter:

8-24-98

Mike Smith / Mgr over Contractors

Have it, working on it,

Word Customer switch over a problem

Some changeover will be done by TU people

Some by contractors -

Switching by TU

9-8-98 Called Bobby Inman re pole in  
the middle of drainage ditch that  
needs to be moved. Bobby will start  
the process to get the pole moved.

8-10-98

Bobby Inman — from voice mail —

Cable Pulling working today & continuing until complete.

Joe Perez — from voice mail —

Engr Design Svcs Dept —

Should have a response Monday AM

(Bobby's call) plus a timetable. Bruce

Nutt or Joe will call Monday AM.

8/20/98 Met Bobby Inman @ the site to

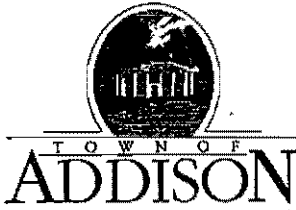
observe progress of the U.G. project.

Bobby observed that a lot of work needs to be done. He suggested I contact Joel Porter.

8/21

Bobby Inman advised making good progress on the relocates along E. side Quorum. Will set the new poles next week.

Faxed to Both Porter & Hooker



**PUBLIC WORKS DEPARTMENT**

(972) 450-2871

Post Office Box 9010 Addison, Texas 75001-9010

16801 Westgrove

August 21, 1998

Mr. Joel Porter  
Sr. Cust Svc Mkt Rep  
TU Electric Lone Star Gas  
14400 Josey Lane  
Farmers Branch, TX 75234

Post-it® Fax Note	7671	Date	8/21/98	# of pages	1
To	Jeanne Hooker		From	Jim Pierce	
Co./Dept.	TU Electric		Co.	Addison	
Phone #		Phone #	972-450-2879		
Fax #		Fax #			

Re: Arapaho Road Underground Electric

Dear Mr. Porter:

As you may know, the Town is in the process of constructing improvements to Arapaho Road. Part of the improvements include elimination of the overhead electric lines at the west end of Arapaho Road. The necessary underground conduit and switchgear vault facilities were constructed by E.L. Dalton Co. and were completed on or about June 26, 1998.

Since that time, I have been trying to get TU Electric to install the underground cable, make the switchovers, and remove the poles, so that road paving can progress. I have communicated our need to Joe Perez, Bruce Nutt, and Bobby Inmon. Some work has been done, but as of August 20, 1998, a significant amount of additional work remains.

The situation is now CRITICAL as our contractor has begun lime stabilizing the road, with the concrete pavement to follow. If we don't get the poles removed, we will have to pave around them, which is an option we do not want to consider.

This is to request that you marshal all of the forces necessary to complete this project and remove the poles before the paving crew gets to that area. Please call me at 972-450-2879 if you have any questions.

Very truly yours,

Town of Addison

James C. Pierce, Jr., P.E., DEE  
Assistant City Engineer

cc: Jeanne Hooker, District Manager, TU Electric  
John Baumgartner, Director of Public Works  
Bobby Inmon, Engineering Analyst, TU Electric

## TU Underground

7-13-98 Discussed with Bruce Nutt — 214-812-7051 —  
Electric Design Engr Svcs Supervisor

He will check status with Joe Perry and get back to me.

7-16-98 8:30AM - Call working to Bruce Nutt

7-17-98 Bruce Nutt referred me to Bobby Inman  
214-812-7316 (Bruce is Bobby's boss)  
Will call Monday & report when wire  
can be pulled

7-20 The Farmers Branch Service center will  
start underground switchover/pulling  
cables, etc, Monday July 27<sup>th</sup>

7-31 Called Bobby Inman & reported little progress  
switching to underground. Bobby will check  
into the situation & call back.



Arapato Rd  
Underground Electric

7-6-98

Called Joe Perez and advised underground work is about complete and we are ready for the switchover from poles to underground.

Joe will contact the const department and Joel Porter - Joel arranges for the power outages with the customers SW Bell  
Summerfield Suites.

Joe

6-16-98

Jim Thomas TU Electric

He will be preparing a survey  
and easement description for the  
TU underground in Arapaho Rd.

Arapaho/TU Electric

5-8-98

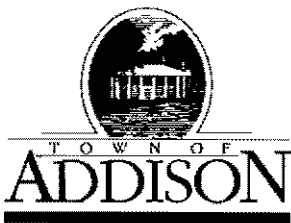
Telephoned Larry Bell & advised the urgency of getting the revised plan drawn. (Left word on voice mail).

Phoned Joe Perez of ditto above. He was there. Joe said he would make some calls, including Jim Switzer, /Farmers Branch/Contract Award

Joe said he would get back to me.

Larry called back. He has finished the plan and has given 7 sets to Todd Guerin to deliver to me.

Joe called back - the people he needs to contact are out. He will call me 1<sup>st</sup> thing morn AM



**Public Works / Engineering**

16801 Westgrove • P.O. Box 144

Addison, Texas 75001

Telephone: (214) 450-2871 • Fax: (214) 931-6643

**LETTER OF TRANSMITTAL**

DATE	5-11-98	JOB NO.
ATTENTION		
RE:	Arapaho Rd	
	TU Underground	

TO Robert Weber  
Ed Bell Const. Co.

**GENTLEMAN:**

**WE ARE SENDING YOU**

- Shop Drawings
- Copy of letter

- Attached
- Prints
- Change order

- Under separate cover via \_\_\_\_\_ the following items:
- Plans       Samples       Specifications
- \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
4			Arapaho Rd. - TU underground Electric Service

**THESE ARE TRANSMITTED as checked below:**

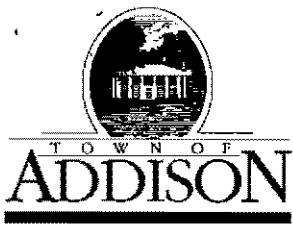
- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE \_\_\_\_\_ 19\_\_\_\_
- Approved as submitted
- Approved as noted
- Returned for corrections
- \_\_\_\_\_
- Resubmit \_\_\_\_\_ copies for approval
- Submit \_\_\_\_\_ copies for distribution
- Return \_\_\_\_\_ corrected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

**REMARKS** It is my understanding that E.L. Dalton will receive verbal go-ahead today.

**COPY TO** Dave Wilde

**SIGNED:** *Jim [Signature]*

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



**Public Works / Engineering**

16801 Westgrove • P.O. Box 144

Addison, Texas 75001

Telephone: (214) 450-2871 • Fax: (214) 931-6643

**LETTER OF TRANSMITTAL**

DATE	4-27-98	JOB NO.
ATTENTION		
RE:	Arapaho Rd	
	TU Electric Underground	

TO Robert Weber  
Ed Bell Const

**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			Phase 1 A
			Phase 1 B

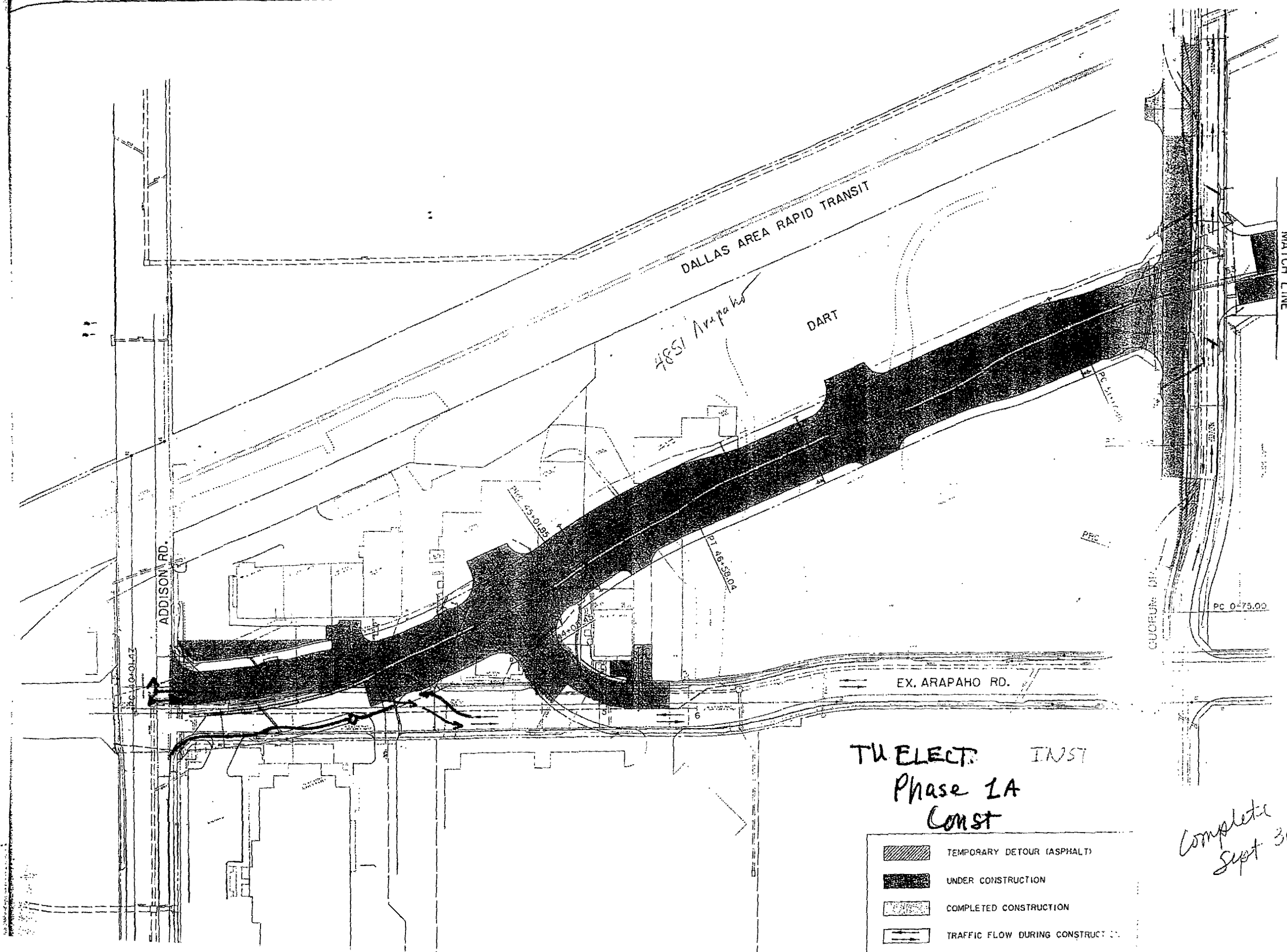
**THESE ARE TRANSMITTED as checked below:**

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- FOR BIDS DUE \_\_\_\_\_ 19\_\_\_\_\_
- Approved as submitted
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- \_\_\_\_\_
- Resubmit \_\_\_\_\_ copies for approval
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- Return \_\_\_\_\_ corrected prints
- PRINTS RETURNED AFTER LOAN TO US

**REMARKS** This is a suggested traffic  
routing and idea for getting the  
TU underground installed in Phase I  
takes one Traffic shift north (back south later)





**COPY TO** \_\_\_\_\_

**SIGNED:** Jim Lewis



- GENERAL
1. THE FOR PRIOR DEVELOPMENT TO BE AS LANE DRIVE OTHER ADD
  2. OUR TRAFFIC PAYMENT ACCORDING IN V
  3. LIGHT AND EDIT STATION
  4. MAJOR COORDINATE THE
  5. PC AND
  6. VE REST. THE
  7. DE
  8. TR
  9. C

TU ELECT. INST  
 Phase 1A  
 Const

	TEMPORARY DETOUR (ASPHALT)
	UNDER CONSTRUCTION
	COMPLETED CONSTRUCTION
	TRAFFIC FLOW DURING CONSTRUCTION

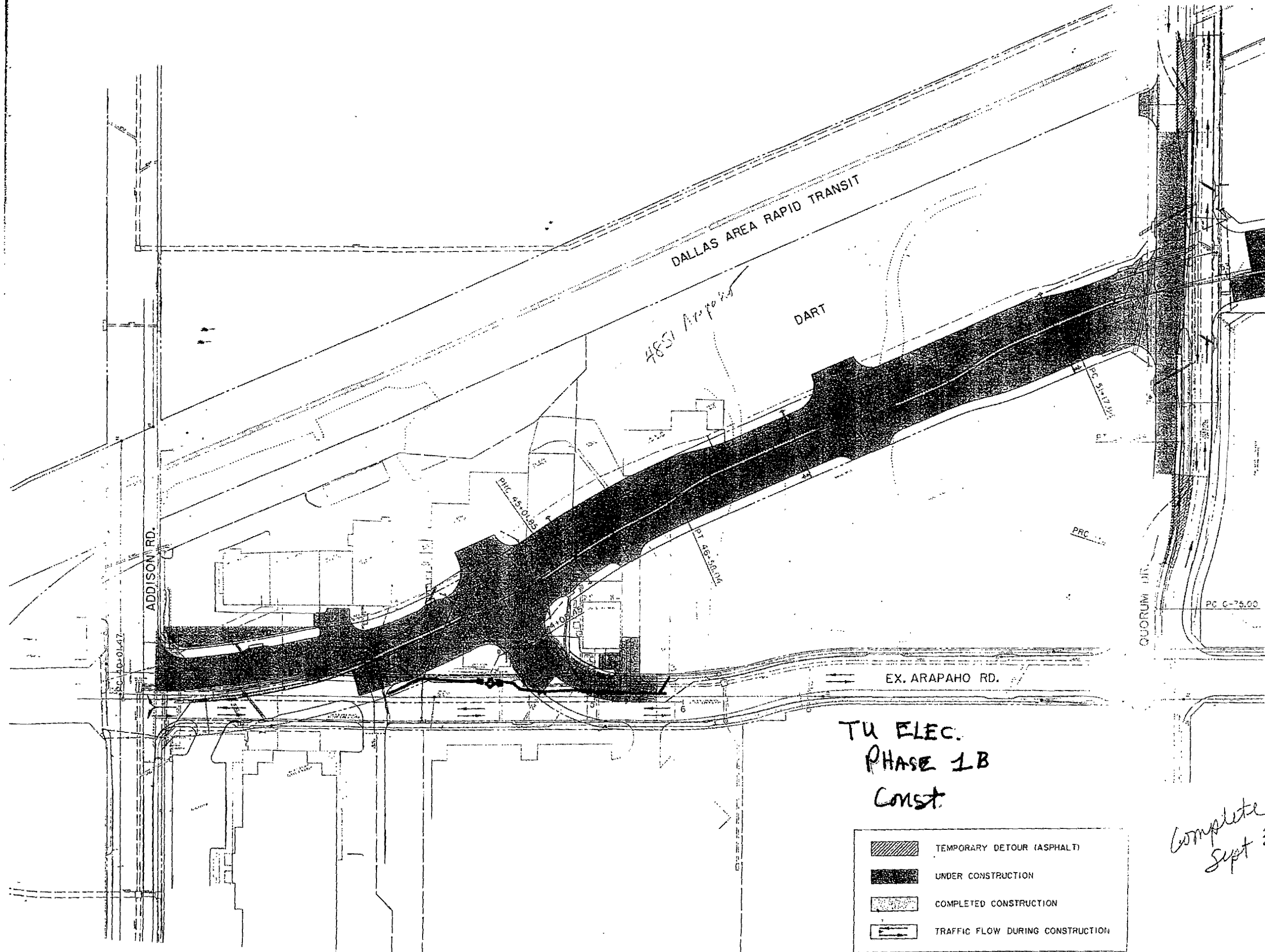
*Complete  
 Sept 30<sup>th</sup>*

SEQUENCE OF CONSTRUCTION  
(For Bidding Purposes)

GENERAL:

1. THE SEQUENCE OF CONSTRUCTION SHALL BE FOR THE PREPARATION AND COMPARISON OF THE SEQUENCE OF CONSTRUCTION, THE DEVELOPMENT IN DETAIL, A CONSTRUCTION SEQUENCE OF CONSTRUCTION, THAT IS INTERFERENCE WITH TRAFFIC ALONG THE PROJECT DURING CONSTRUCTION OR SEQUENCE BECOMES UNWORKABLE AS WORK PROCEEDS, ADJUSTMENTS IN LINES OF TRAFFIC ON ARAPAHO ROAD (DIRECTION) AND ACCESS TO ALL SIDE DRIVEWAYS MUST BE MAINTAINED OTHERWISE AUTHORIZED IN WRITING ADDISON.
2. DURING ALL PHASES OF CONSTRUCTION TRAFFIC (22' MIN. PAVEMENT WIDTH) PAVEMENT) ON ARAPAHO ROAD (ONE ACCESS TO ALL SIDE STREETS AND MAINTAINED AT ALL TIMES, ACCESS IN WRITING BY THE TOWN OF ADDISON.
3. LIGHTED BARRICADES, TEMPORARY F AND CHANNELIZING DEVICES CONFORMANCE OF THE M.U.C.D. SHALL BE STAGES OF CONSTRUCTION TO CONTINUE THROUGH THE WORK ZONES.
4. MAINTAIN A MINIMUM RADIUS OF 2 CONNECTIONS AND 10 FEET ON ALL DURING CONSTRUCTION OF ARAPAHO THE TRAFFIC USING THE ROADWAY.
5. POLLUTION CONTROL DEVICES MUST AND MAINTAINED DURING ALL STAGES.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY STAGE OF CONSTRUCTION AND INSURE THE EXTENT POSSIBLE.
7. DRIVEWAY CONSTRUCTION SHALL BE PHASE OF CONSTRUCTION, INSURE 1/2 DRIVE DRIVEWAY TO THE PER AFFECTED PROPERTY OWNER, CONTACT PROPERTY OWNER A MINIMUM 14 DAYS CONSTRUCTION OF ANY DRIVEWAY.
8. IT IS ASSUMED THAT ALL UTILITIES RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO THE CONSTRUCTION AND REPORT THE RELATIVE UTILITY COMPANY, OWNERS FOUND TO EXIST.
10. CONTRACTOR SHALL COMPLETE DART CONTRACTOR WHO IS CONSTRUCTION AT THE NORTH-ADDISON CORN. & PROPOSED ARAPAHO ROAD.

MATCH LINE



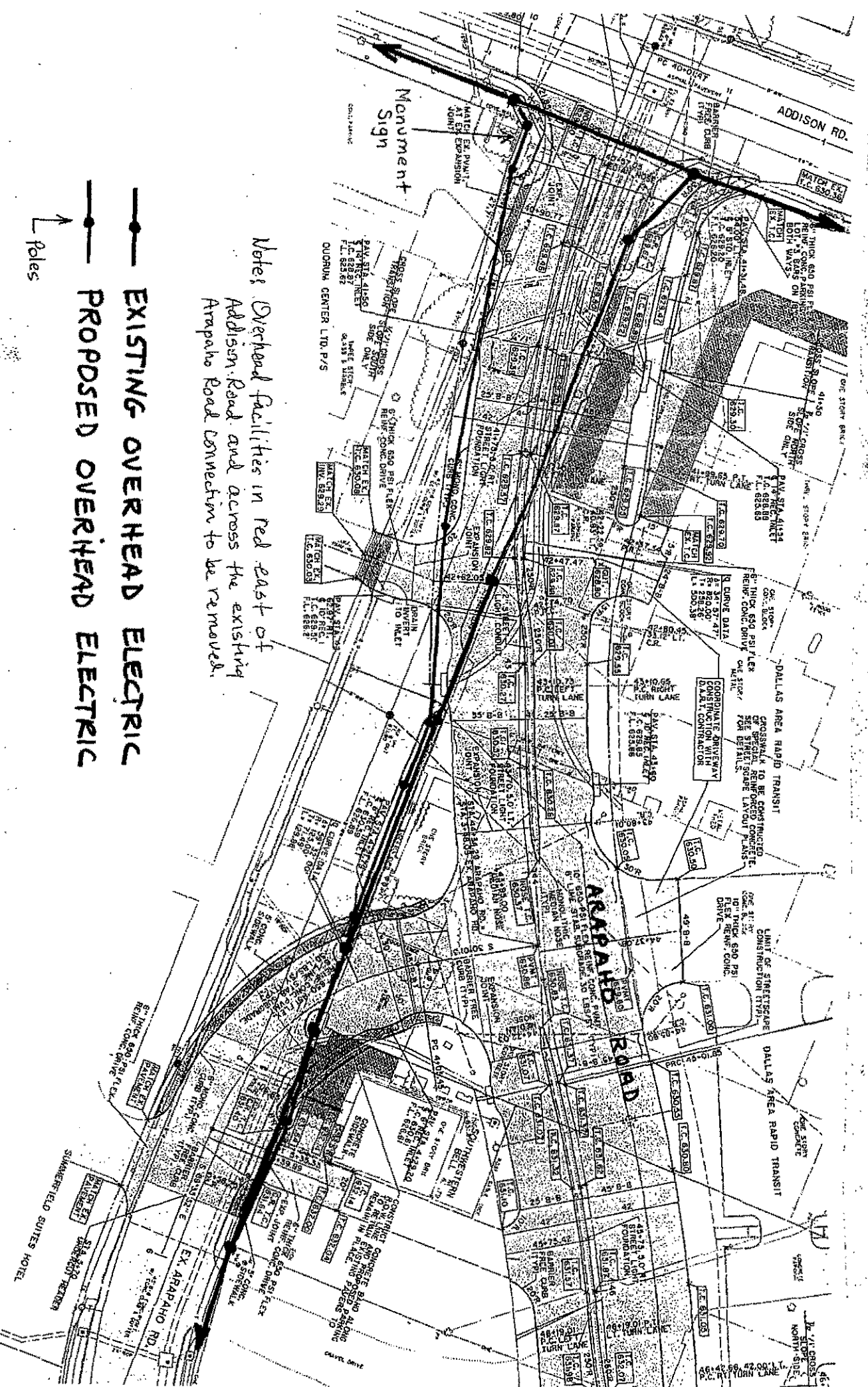
NOTE:  
CONTRACTOR SHALL COMPLETE  
OF ARAPAHO ROAD FROM  
TO QUORUM DRIVE BY

TU ELEC.  
PHASE 1B  
Const.

	TEMPORARY DETOUR (ASPHALT)
	UNDER CONSTRUCTION
	COMPLETED CONSTRUCTION
	TRAFFIC FLOW DURING CONSTRUCTION

*Complete  
Sept 30th*

CONSTRUCTION SEQUENCE
PHASE
<b>ARAPAHO</b>
ADDISON ROAD TO DALLAS
TOWN OF ADDISON

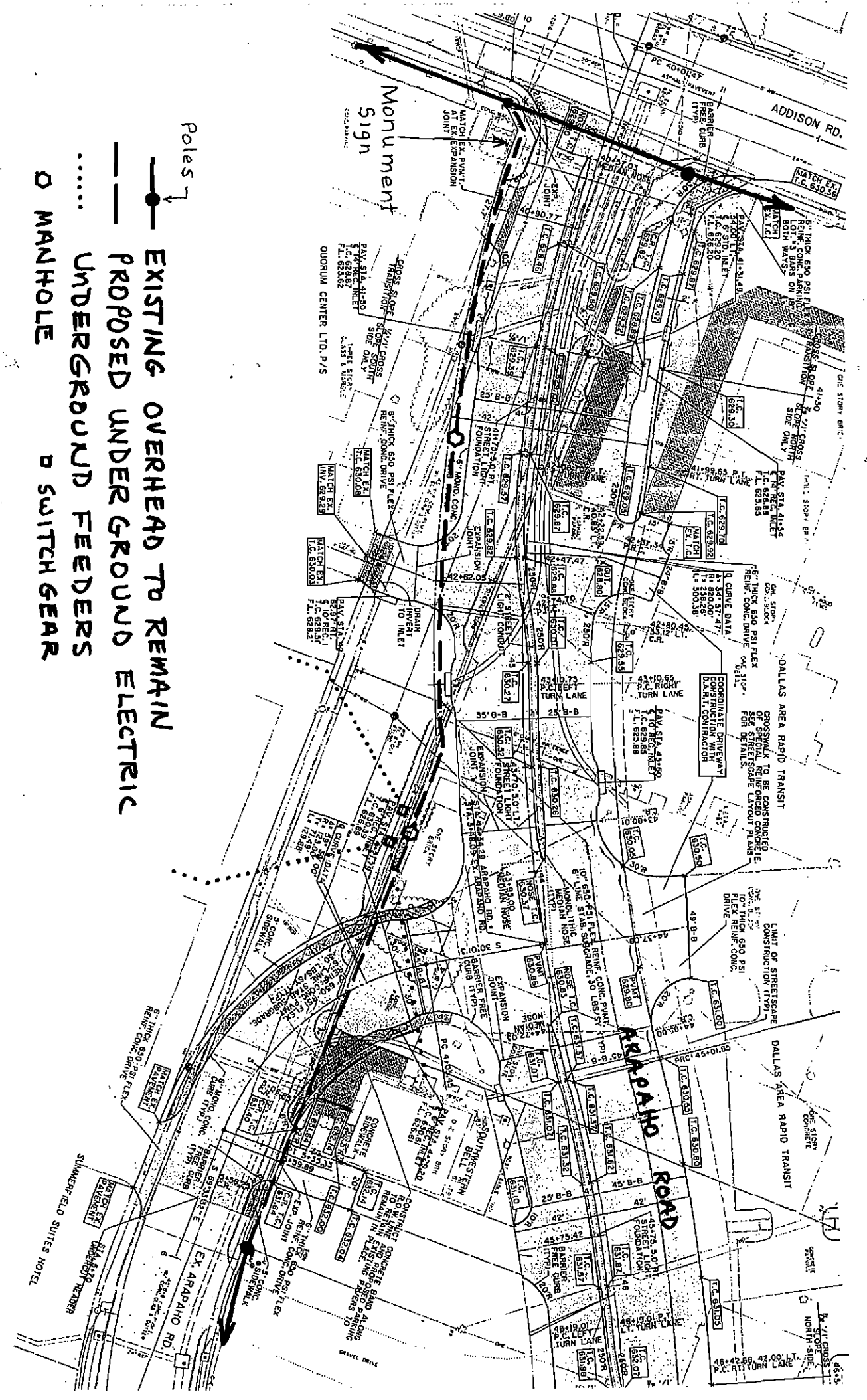


Notes: Overhead facilities in red east of Addison Road and across the existing Arapaho Road connection to be removed.

- EXISTING OVERHEAD ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- ↓ Poles



- EXISTING OVERHEAD TO REMAIN
- PROPOSED UNDERGROUND ELECTRIC
- ..... UNDERGROUND FEEDERS
- MANHOLE
- SWITCH GEAR



Monument Sign

Poles

ADDISON RD.

ARAPAHO ROAD

SUNNYSIDE SUITES HOTEL

QUORUM CENTER LTD. P/S

DALLAS AREA RAPID TRANSIT  
GROSSWALK TO BE CONSTRUCTED  
FOR SPECIAL REINFORCED CONCRETE  
FOR SPECIAL LAYOUT PLANS

LIMIT OF STREETSCAPE  
CONSTRUCTION (TYP.)  
CONC. SLAB 60 PSI  
FLEX REINFC. CONC.  
DRIVE

DALLAS AREA RAPID TRANSIT

CONSTRUCT CONCRETE BAND ALONG  
TO REMAIN IN PLACE  
REINFC. CONC. DRIVE

46+42.66 42.00' L.T.  
P.C. RT TURN LANE

TOWN OF  
**ADDISON**

**PUBLIC WORKS**

To: Joe Perez

From: James C. Pierce, Jr., P.E., DEE

Company: TU Electric

Assistant City Engineer

Phone: 972/450-2879

FAX #: 214-812-7828

FAX: 972/450-2834

Date: 2-11-98

16801 Westgrove

P.O. Box 144

Re: Arapaho Rd Electric

Addison, TX 75001

# of pages (including cover): 1

Original in mail

Per your request

FYI

Call me

Comments:

Council approved entering into an agreement with TU for the underground facilities just east of Addison Rd for a net cost of \$143,940.

We can now proceed with this work full speed ahead.

Please call.

Jim

2-16-98 called Joe. He is working on Quorum/ Arapaho - SE Cor - moving pole, clearances, wall conflict. Larry Bell is working on the design @ Arapaho & Addison. Joe will call for a meeting when more details are avail. Mega coordination needed.

\*\*\*\*\* -COMM. JOURNAL- \*\*\*\*\* DATE 02-11-1998 \*\*\*\*\* TIME 02:28PM \*\* P.1

MODE = TRANSMISSION

START=02-11 02:28PM

END=02-11 02:28PM

NO.	COM	SPEED	NO	STATION NAME/ TELEPHONE NO.	PAGES
001	OK	2		9214812782B	001

-Addison Svc Ctr -Upstairs-

\*\*\*\*\* ( FAX-200 V2.17)\* - 972 450 2834- \*\*\*\*\*



January 21, 1998

James C. Pierce, Jr., P.E., DEE  
Town of Addison  
16801 Westgrove Drive  
Addison, Texas 75001-0144

RE: Cost Estimates for Underground Distribution Facilities along Arapaho Road

Dear Jim:

After further review of the above mentioned subject and with the expertise of Larry Bell (TU Electric Duct Bank Designer), we have composed a distribution underground design that will enable for us to maintain a reliable electrical distribution system and still fulfill all of your requests. These two cost estimates are as follows:

(1) The intersection of Arapaho Road and Addison Road will require two manholes, two switchgears, and one duct bank from the southeast corner of Arapaho Road and Addison Road up to and past the east property line of the Southwestern Bell building. This will extend the underground facilities further from originally designed. Furthermore, this cost estimate includes the proper cost to set the new duct bank in solid rock as was discussed in our previous meeting. The approximate cost for this specific area is \$165,940.00.

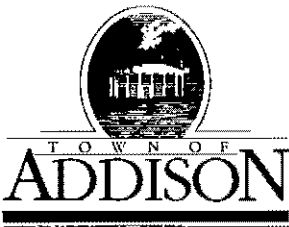
(2) The existing Arapaho Road and Quorum Drive intersection will be the starting point for all distribution facilities heading north to be placed underground. In order for us to match the underground distribution facilities existing north of the Dart R/R Tracks, we will have to construct the same duct bank size. This design will require two manholes, two street bores, one switchgear, one pull box, and the matching duct bank in solid rock. Once again this cost estimate will include a larger section of underground facilities to be constructed north of the existing Arapaho Road & Quorum Drive intersection. The approximate cost for this specific area is \$285,722.00

Please call my office number at (214) 812-7812, so we may reschedule a new meeting date & time for us to review the construction sketches that I have prepared.

Sincerely,

A handwritten signature in black ink, appearing to read "Joe R. Perez", is written over a horizontal line.

Joe R. Perez  
Engineering Analyst



# LETTER OF TRANSMITTAL

**Public Works / Engineering**

16801 Westgrove • P.O. Box 144  
 Addison, Texas 75001  
 Telephone: (214) 450-2871 • Fax: (214) 931-6643

TO Dallas Region Engineering  
TU Electric  
1506 Commerce St, 3-E  
Dallas, TX 75201

DATE	1-30-98	JOB NO.
ATTENTION	Joe Perez, Engr. Analyst	
RE:	Arayaho Rd - Relocation of Utilities	

**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			Sheet D-1 Proposed Underground - West End
1			Sheet D-2 " " @ Quorum

**THESE ARE TRANSMITTED as checked below:**

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

**REMARKS** We want to go with the proposed underground facilities shown on Sheet D-1. I am putting an item on our Council's agenda to authorize this at their meeting on Feb 10<sup>th</sup>. We do not want to do the underground shown on Sheet D-2. We will stay overhead in this area. We have the ROW needed @ west end so please proceed with design with all haste possible.

**COPY TO** Bruce Ellis  
Glade Strickland

**SIGNED:** Jim Penu

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

Arapaho / TU Electric

Joe Perez, Larry Bell  
Borne, Jeff  
1-27-98

Design time for all underground would mean  
May 1<sup>st</sup> for Const.

7-8 projects ahead of us — only one person  
to do design — would have to work O.T.

Overhead — no cost to Addison

OH / Quorum — Design about the same  
possible move a pole @ NW cor of Car America  
Poles taller Garage

\$ 135,000 for Addison Rd End-

About 11.6 K to go underground <sup>with direct buried cable</sup> from  
Addison Rd East about 300'

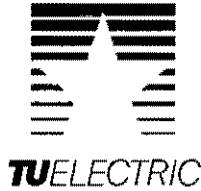
Includes MH and 2 switchgear:

would serve { Clubhouse Streetlights  
Hotel Intersection  
SW Bell

Allows NO room for future

Joe has a complete set of plans —

Aerial Easement? Eliminates 1 pole @  
Addison Rd & Arap @ Quorum II



cc John ✓  
Ken Roberts ✓  
Glade ✓

January 21, 1998

James C. Pierce, Jr., P.E., DEE  
Town of Addison  
16801 Westgrove Drive  
Addison, Texas 75001-0144

165  
- 24  
-----  
\$ 141,000

RE: Cost Estimates for Underground Distribution Facilities along Arapaho Road

Dear Jim:

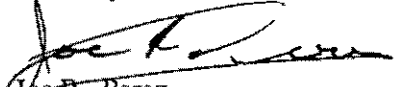
After further review of the above mentioned subject and with the expertise of Larry Bell (TU Electric Duct Bank Designer), we have composed a distribution underground design that will enable for us to maintain a reliable electrical distribution system and still fulfill all of your requests. These two cost estimates are as follows:

(1) The intersection of Arapaho Road and Addison Road will require two manholes, two switchgears, and one duct bank from the southeast corner of Arapaho Road and Addison Road up to and past the east property line of the Southwestern Bell building. This will extend the underground facilities further from originally designed. Furthermore, this cost estimate includes the proper cost to set the new duct bank in solid rock as was discussed in our previous meeting. The approximate cost for this specific area is \$165,940.00.

(2) The existing Arapaho Road and Quorum Drive intersection will be the starting point for all distribution facilities heading north to be placed underground. In order for us to match the underground distribution facilities existing north of the Dart R/R Tracks, we will have to construct the same duct bank size. This design will require two manholes, two street bores, one switchgear, one pull box, and the matching duct bank in solid rock. Once again this cost estimate will include a larger section of underground facilities to be constructed north of the existing Arapaho Road & Quorum Drive intersection. The approximate cost for this specific area is \$285,722.00

Please call my office number at (214) 812-7812, so we may reschedule a new meeting date & time for us to review the construction sketches that I have prepared.

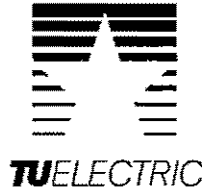
Sincerely,

  
Joe R. Perez  
Engineering Analyst

Total \$451,662

Faxed

cc John  
Ken Roberts



January 21, 1998

James C. Pierce, Jr., P.E., DEE  
Town of Addison  
16801 Westgrove Drive  
Addison, Texas 75001-0144

Post-it® Fax Note	7671	Date	1-23-98	# of pages ▶	1
To	Ken Roberts	From	Jim Pierce		
Co./Dept.	Hunt Zollars	Co.	Addison		
Phone #		Phone #	972-450-2879		
Fax #	214-871-0757	Fax #			

RE: Cost Estimates for Underground Distribution Facilities along Arapaho Road

Dear Jim:

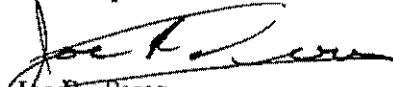
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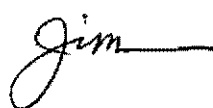
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Please call my office number at (214) 812-7812, so we may reschedule a new meeting date & time for us to review the construction sketches that I have prepared.

Sincerely,

  
Joe R. Perez  
Engineering Analyst

Ken - will let you know  
when meeting is set up.  




\*\*\*\*\* -COMM. JOURNAL- \*\*\*\*\* DATE 01-23-1998 \*\*\*\*\* TIME 01:30PM \*\* P.1

MODE = TRANSMISSION

START=01-23 01:29PM

END=01-23 01:30PM

NO.	COM	SPEED NO	STATION NAME/ TELEPHONE NO.	PAGES
001	OK	2	92148710757	001

-Addison Svc Ctr -Upstairs-

\*\*\*\*\* ( FAX-200 02.17)\* - 972 450 2834- \*\*\*\*\*

Mapabo

12-5-97

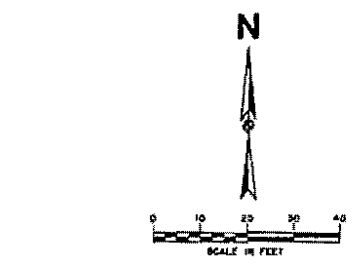
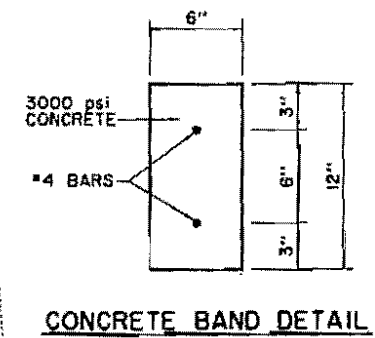
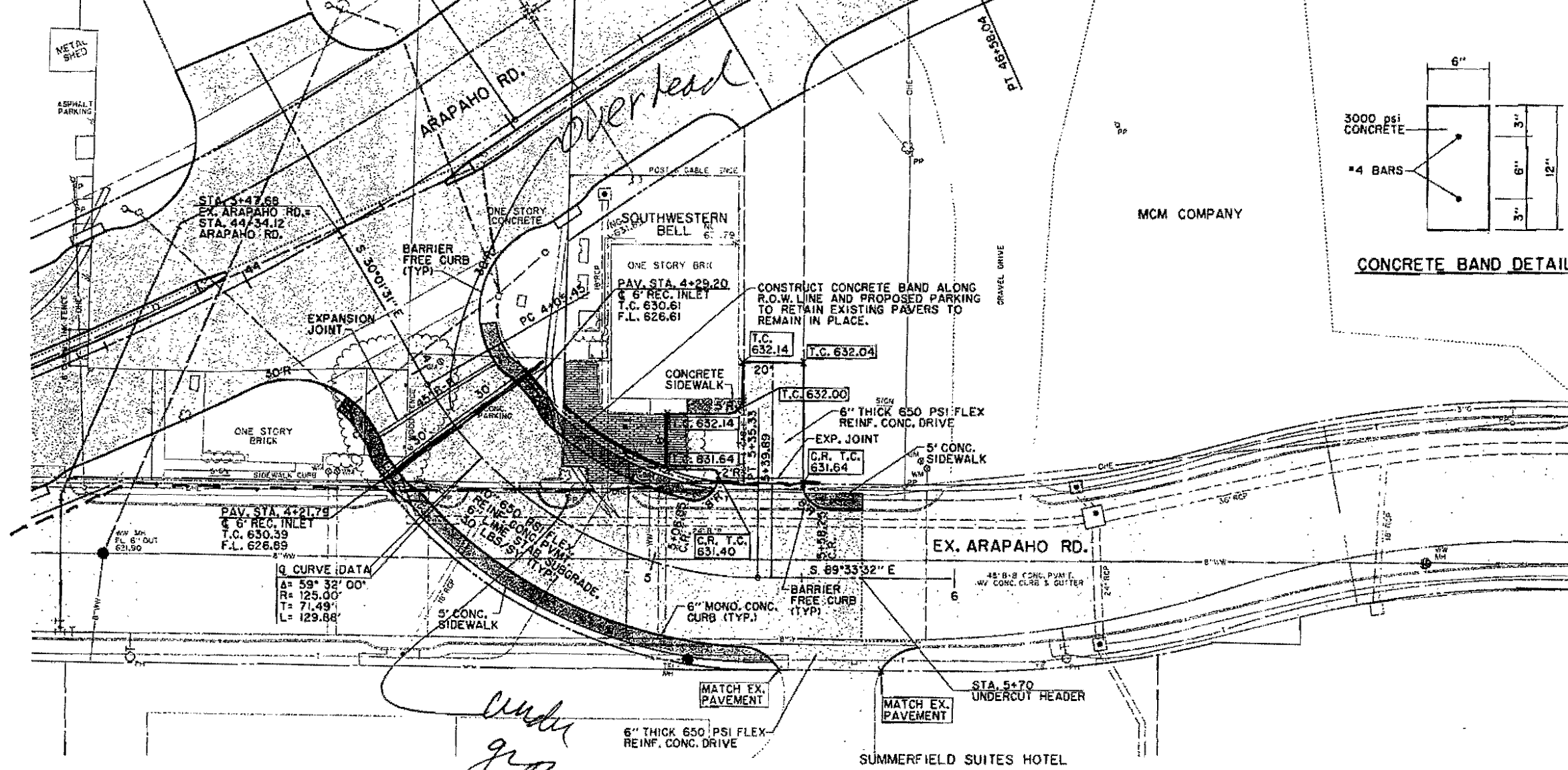
TU Electric - Joe Perry

will have  
Est Est

Tues PM

by

DALLAS AREA RAPID TRANSIT

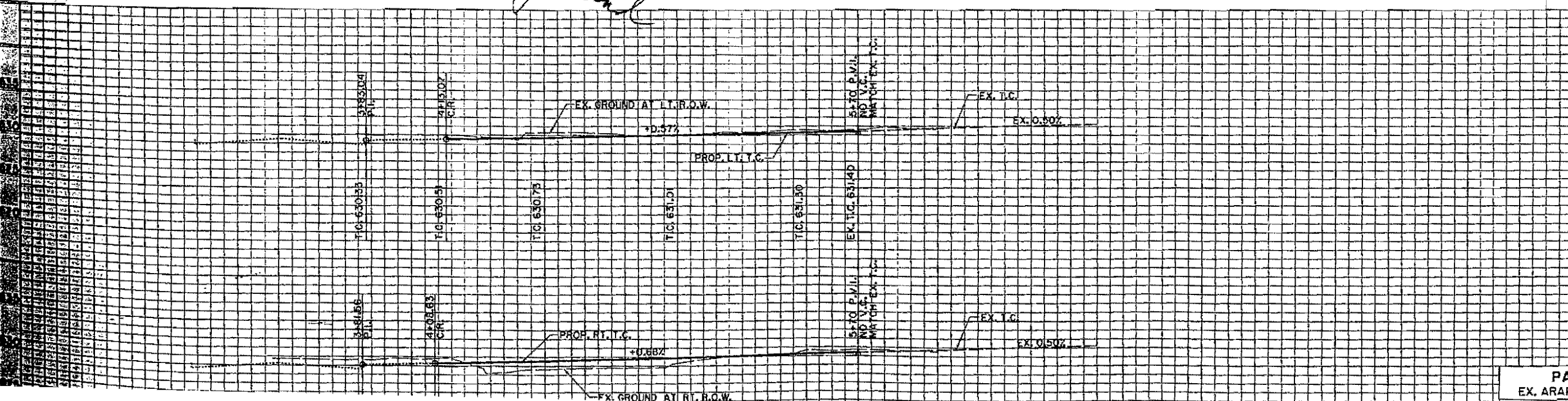


SEE STREETScape PLANS FOR SIDEWALK, LANDSCAPING, IRRIGATION AND PAVEMENT ENHANCEMENT DETAILS.

Q CURVE DATA  
 $\Delta = 59^\circ 32' 00''$   
 $R = 125.00'$   
 $T = 71.49'$   
 $L = 129.88'$

LEGEND

ELECTRIC — E —	WATER — W —
○ LIGHT POLE	FH ○ FIRE HYDRANT
PP ○ POWER POLE	WM ○ METER
E ○ GUY WIRE	T ○ WATER VALVE
TELEPHONE — T —	MISC.
● TELEPHONE MANHOLE	48" RCP X X X R.C.P. REMOVAL
○ TELEPHONE PEDESTAL	— CHAIN LINK FENCE
TS ○ TELEPHONE SIGN	— WOOD FENCE
GAS — G —	— EXISTING ASPHALT
GM ○ GAS METER	— EXISTING DIRT OR GRAVEL
GS ○ GAS SIGN	— EX. CONCRETE
LAND USE	○ TREE/TREE LINE
R.R. RAILROAD SIGN	— EXISTING CURB
SIGN	— PROP. CURB
SURVEY	— EX. PROPERTY LINE
I.R. FOUND IRON ROD	— PROP. CENTERLINE
TEMP BENCHMARK	— PROP. R.O.W.
WASTEWATER — WW —	— PROP. INLET
WM ○ WASTEWATER MANHOLE	PVMT TOP OF PAVEMENT
CO ○ CLEANOUT	T.C. TOP OF CURB
	C.R. CURB RETURN



BENCHMARKS:

635	USC & GS E-921 DISK IN BRICK WALL OF OLD ADDISON SCHOOL HOUSE (MAGIC TIME MACHINE RESTAURANT) ON SOUTH WALL, 4' EAST OF CENTER OF THE ENTRANCE, 4.7' ABOVE THE GROUND. ELEV. 650.61
630	'I' ON SOUTHEAST CORNER OF CONCRETE WALK AT FRONT ENTRANCE TO 4805 ARAPAHO ROAD. ELEV. 630.61
625	
620	
635	THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KENNETH A. ROBERTS, P.E. 35446 ON OCTOBER 24, 1997
635	
630	

PAVING PLAN & PROFILE  
 EX. ARAPAHO STA. 3+47.66 TO STA. 5+70

Arapaho Rd

Meeting with Joe Perez, Ken Roberts 214-812-7812 11-18-97  
Bruce, Jeff, Jerry Bell

Pole line parallel to railroad - will  
feed DART transit center - do we want  
to go underground?

Meeting a January schedule hard to do

Need 3' wide ditch, max

Would meet to sequence with our contractor

Need 15 x 18' easement

150K ~~170K~~ for Add / Arapaho Intersection  
Do we want to cross old Arapaho?

Send Lighting Requests  
Thruway Intersection

Gave Joe a Bid Set of plans minus  
the landscape plans.

Joe will advance the design -

Arapaho Rd / TU Electric

11/3/97

Joe Perez: (214-812-7812)

\* On Arapaho add -  
Move for Roadway  
22,000

Maintain overhead  
Convert from O.H. to underground  
64,000  
Diff of \$42,000

\* Quorum of Arapaho

Convert to underground \$76,000  
\$22,000 Move & maintain  
\$54,000 difference

Total \$96,000 to convert to  
underground. Does NOT include  
crew OT for working on weekend

\$96K min.

11-6-97 - called Joe to advise we want to do the  
underground.

Ft. Worth load study <sup>planning</sup> group

if go to UG - install duct  
bank & Manholes -

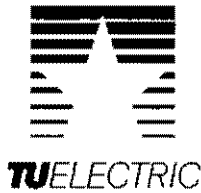
MH's & Duct Bank would have  
to be accommodated -

Would apply to both locations

No add'l cost to the project -

Joe will send us a letter  
regarding same -

We will do the underground



Reed 11-12-97

November 10, 1997

James C. Pierce, Jr., P.E., DEE  
Town of Addison  
16801 Westgrove Drive  
Addison, Texas 75001-0144

**RE: COST ESTIMATE FOR UNDERGROUND DISTRIBUTION FACILITIES ALONG ARAPAHO ROAD**

Dear Jim:

In reference to the above mentioned subject, I have produced an estimate of approximately \$96,000 which would be required from the Town of Addison in order to convert the existing overhead distribution facilities along the proposed Arapaho Road to an underground distribution system. Please be advised that this cost estimate will expire in 90 days.

In addition to the \$96,000 cost, there will be overtime charges involved in order to construct our underground distribution facilities while minimizing electrical outages for the customers within this specific area. These charges will be determined on actual figures when the overtime work takes place. Furthermore, we will need the necessary right-of-way easements to be acquired by the Town of Addison for our new underground distribution facilities.

Since this area is projected to have growth in the near future, our Ft. Worth Planning Group has made a recommendation that we make the new underground design accommodate a 8E6 duct bank with manholes. In essence, this proposal from our planning group may affect the current construction plans of the proposed Arapaho Road. This recommendation was not considered as part of the estimated cost since it will be a betterment for TU Electric.

Sincerely,

A handwritten signature in black ink, appearing to read 'Joe R. Perez', written over a horizontal line.

Joe R. Perez  
Engineering Analyst

214-812-7812

November 12, 1997

To: Jim Pierce  
Town of Addison

**RE: ATTACHMENT TO LETTER DATED 11/10/97, ARAPAHO ROAD EXPANSION**

Dear Jim:

Per your request, these are the breakdown charges for the total cost of \$96,000 that was listed in the letter dated 11/10/97.

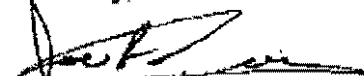
(1) The cost to convert our existing facilities for the expansion of Arapaho Road will be approximately \$22,000.

(2) The cost to convert the area just east of Addison Road to the existing Arapaho Road will be approximately \$64,000. Therefore, the cost to the Town of Addison for the conversion in this specific area will be  $(\$64K - \$22K = \$42K)$ .

(3) The cost to convert the area at Quorum Road and the new Arapaho Road will be approximately \$76,000. Therefore, the cost to the Town of Addison for the conversion in this specific area will be  $(\$76K - \$22K = \$54K)$ .

In essence, the approximate total cost to the Town of Addison will be  $(\$42K + \$54K = \$96K)$ . Please be advised that this cost study does not take into consideration the cost for the overtime involved for customer clearance(s).

Sincerely,



Joe R. Perez  
Engineering Analyst

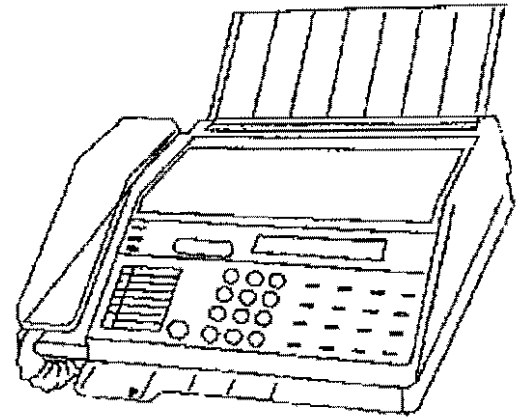




**EAST Design Engineering Services**

1506 Commerce Street - 3 East  
Dallas, Texas 75201

FAX # 214 / 812 - 7828



**DATE:** 11-12-97

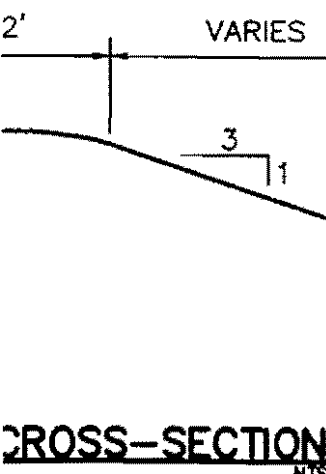
**TO:** Jim PIERCE **PHONE #** \_\_\_\_\_

**FROM:** JOE PEREZ **PHONE #** 214/812-7812

**REMARKS:**  
F. Y. I., AS REQUESTED.

**NUMBER OF PAGES SENT** 2 **(INCLUDING THIS SHEET)**

(AS BUILT)



$\Delta = 19^{\circ}49'05''$   
 $R = 739.00'$   
 $T = 129.10'$   
 $L = 255.61'$   
 $CB = S75^{\circ}30'48''W$   
 $CD = 254.34'$

$\Delta = 21^{\circ}28'35''$   
 $R = 750.97'$   
 $T = 142.42'$   
 $L = 281.49'$   
 $CB = N74^{\circ}41'04''E$   
 $CD = 279.84'$

S04^{\circ}3'9.0"

CROSS-SECTION N15

21^{\circ}21'38''  
1051.00'  
198.21'  
391.83'  
N76^{\circ}15'05''E  
389.56'

ARAPAHO ROAD

N65^{\circ}36'16''E 36.90'  
N63^{\circ}56'46''E 109.78'

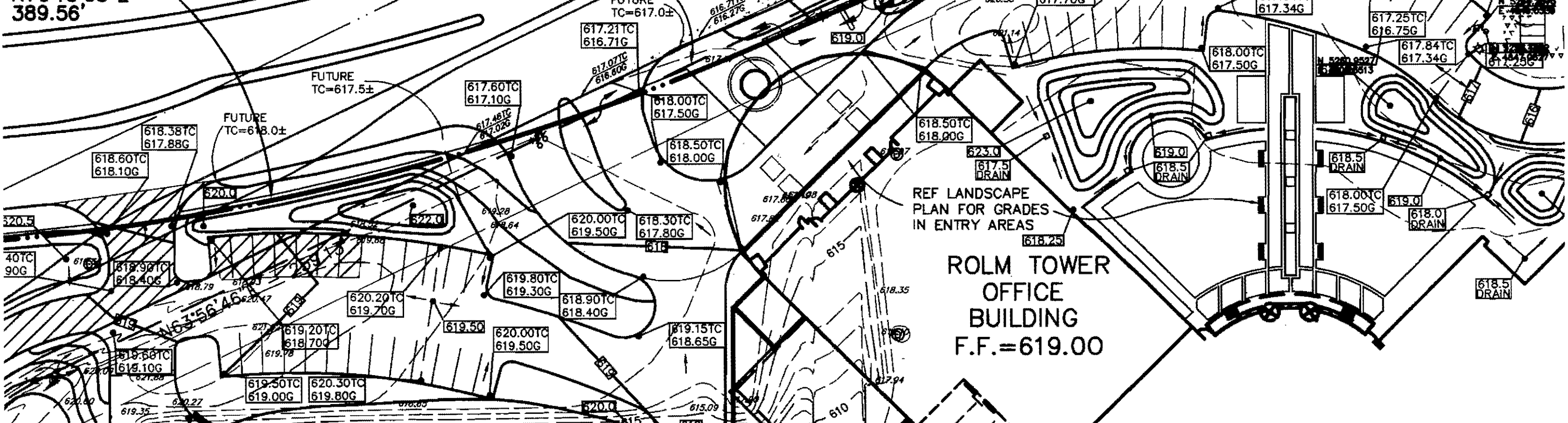
ROAD

N85^{\circ}25'21''E  
13.00'

INSTALL TU  
ELECTRIC  
4'X8'X4'  
PULL BOX

REF LANDSCAPE  
PLAN FOR GRADES  
IN ENTRY AREAS

ROLM TOWER  
OFFICE  
BUILDING  
F.F.=619.00





**JAMES JOHNSTON INC.**  
2711 N. HASKELL AVE. SUITE 1300, LB 15  
DALLAS, TX 75204  
(214) 823-9800

**LANDSCAPE ARCHITECT:**  
**MESA DESIGN**  
3100 MCKINNON, SUITE 905  
DALLAS, TX 75201  
(214) 871-0568

**OWNER:**

**MEPC AMERICAN PROPERTIES, INC.**  
15303 DALLAS PARKWAY  
SUITE 100 LB 10  
DALLAS, TX 75248

**PROJECT:**

**THE COLONNADE  
TOWER ■**

*AS-BUILT*

ARAPAHO AND DALLAS PARKWAY *CIVIL*  
DALLAS, TEXAS

**PROJECT NUMBER:** 5500.96061.00

**MARK:**

CUT ON SOUTHEAST CORNER OF CONCRETE WALK  
AT ENTRANCE TO 4805 ARAPAHO ROAD.

ELEVATION 630.61

CUT ON TC CENTER OF 10' INLET, ON RADIUS OF  
WEST CORNER OF ARAPAHO & DALLAS NORTH TOLLWAY.

ELEVATION 633.87

CUT ON TC CENTER OF 10' INLET AT THE  
EAST CORNER OF ARAPAHO RD. & SPECTRUM DR.

ELEVATION 624.16

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**FOR PERMIT**

**REVISIONS:**  
NO. DATE DESCRIPTION

① 3/2/98 REVISED DRIVEWAY  
② 7/28/98 RECORD DRAWINGS



**RECORD DRAWING**

THESE RECORD DRAWINGS HAVE BEEN  
PREPARED, IN PART, ON THE BASIS OF  
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BY OTHERS. THE ENGINEER WILL NOT  
BE RESPONSIBLE FOR ANY ERRORS OR  
OMISSIONS WHICH HAVE BEEN  
INCORPORATED INTO THIS DOCUMENT  
AS A RESULT.

DATE 1/29/98

**TITLE:**

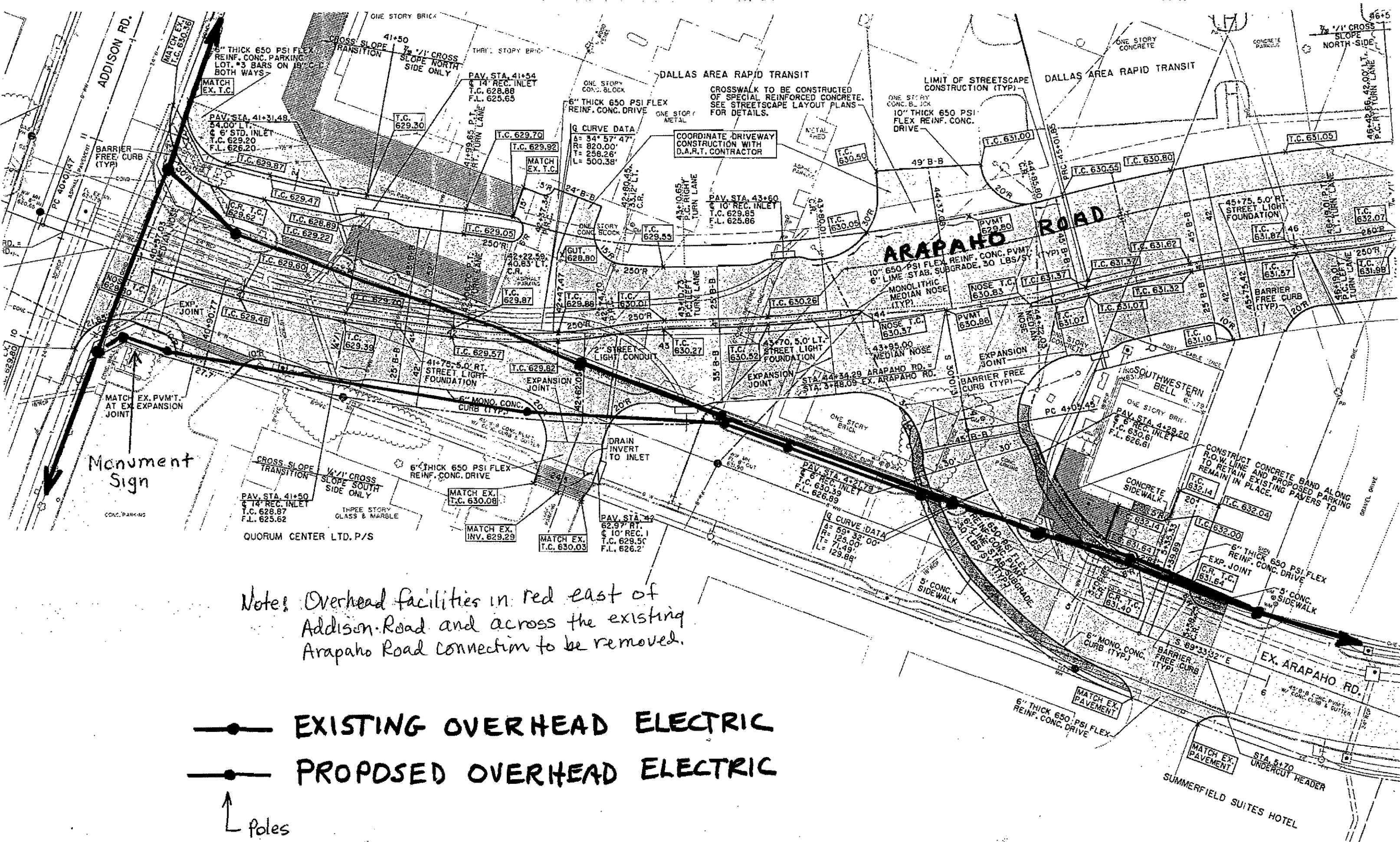
**GRADING PLAN**

**DATE:**

**SHEET:**

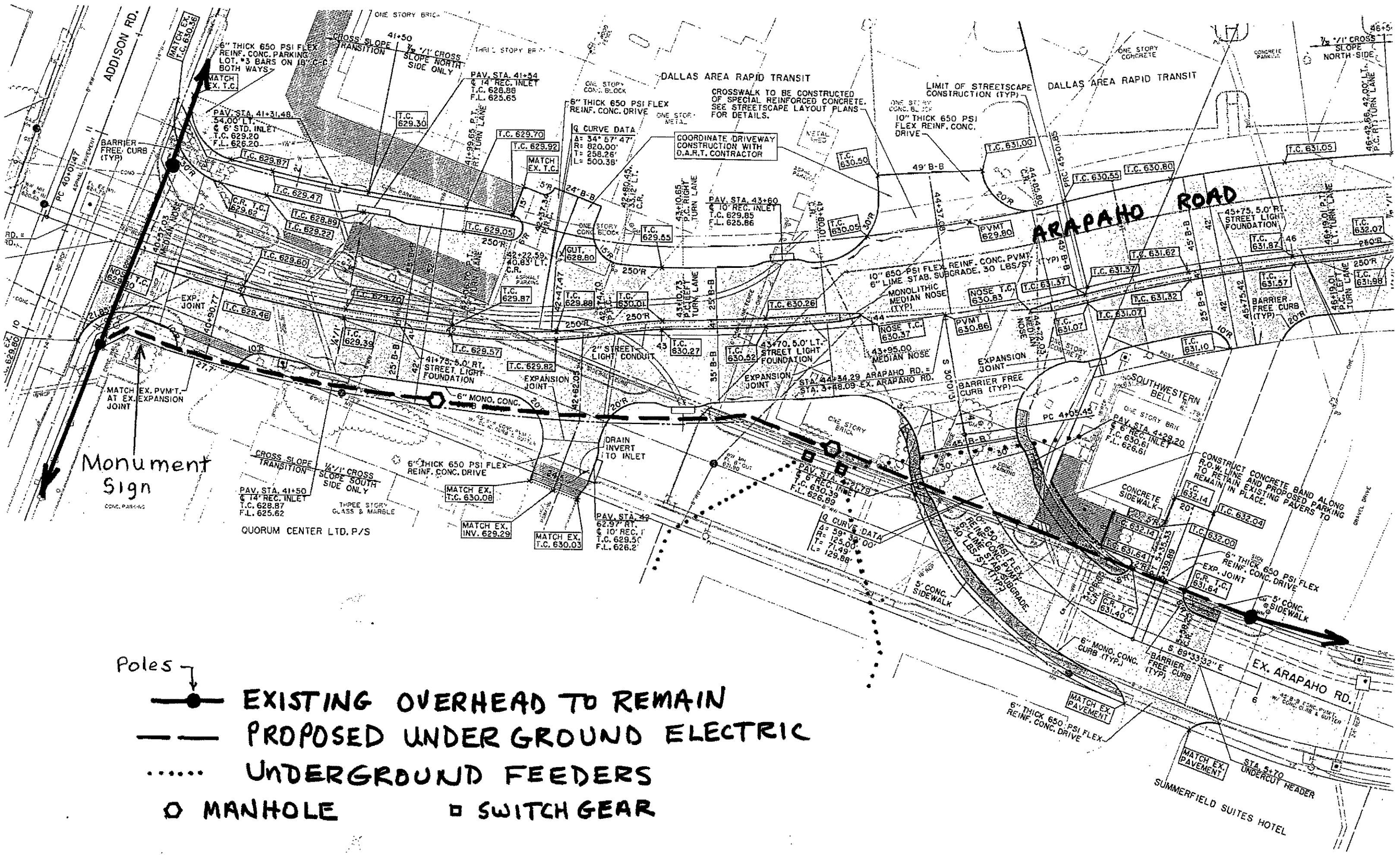
**MAY 23, 1997**

**C3**



Note: Overhead facilities in red east of Addison Road and across the existing Arapaho Road connection to be removed.

- EXISTING OVERHEAD ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- ↑ Poles



Poles



EXISTING OVERHEAD TO REMAIN



PROPOSED UNDER GROUND ELECTRIC



UNDERGROUND FEEDERS



MANHOLE



SWITCH GEAR

**IMPORTANT MESSAGE**

FOR Jim

DATE 7/9/98 TIME 4:20 P.M.

M. Joad Porter

OF \_\_\_\_\_

PHONE 972-888-1313  
AREA CODE NUMBER EXTENSION

FAX \_\_\_\_\_

MOBILE jeanne 1302  
AREA CODE NUMBER TIME TO CALL

TELEPHONED	<input checked="" type="checkbox"/>	PLEASE CALL	<input checked="" type="checkbox"/>
CAME TO SEE YOU	<input type="checkbox"/>	WILL CALL AGAIN	<input type="checkbox"/>
WANTS TO SEE YOU	<input type="checkbox"/>	RUSH	<input type="checkbox"/>
RETURNED YOUR CALL	<input type="checkbox"/>	WILL FAX TO YOU	<input type="checkbox"/>

MESSAGE \_\_\_\_\_

Dave Wilde  
TX Electric / Gary Wyatt  
No permit -  
Mike Smith - Should be OK.  
TXU works with Subs

SIGNED A

Joel Porter:

7-19-99

9:45AM

Kenny - Needs to  
hear back from  
contractor -

Kenny back from  
vacation -

972-323-8942 Kenny Martin

---

7-22-99

COM Busted out

Pull cable<sup>15</sup> Set up for Fri or Mon

Mid week Next week

~~Poles should be out~~



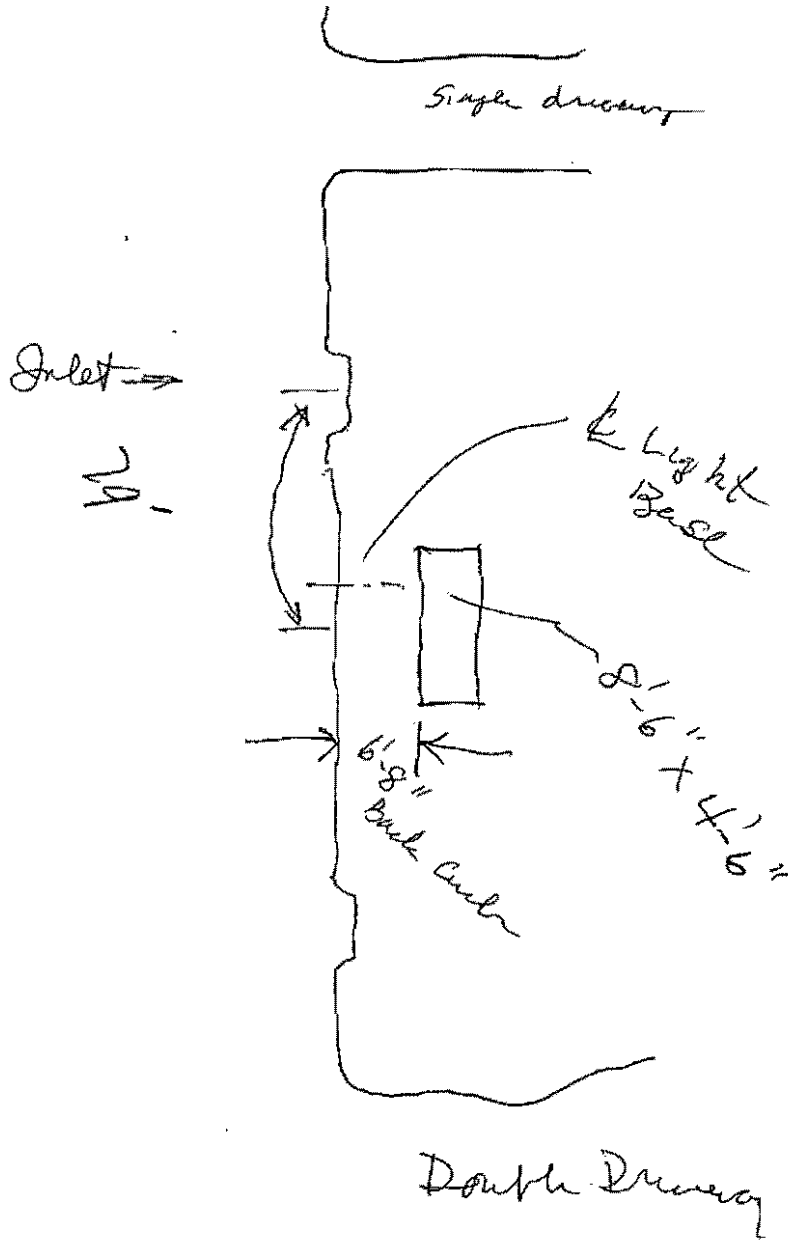
approx 7/13  
Tue / Quorum / aspects:  
Kenny on vacation

Don't have right size  
wire.



# Radisson. HOTEL DALLAS

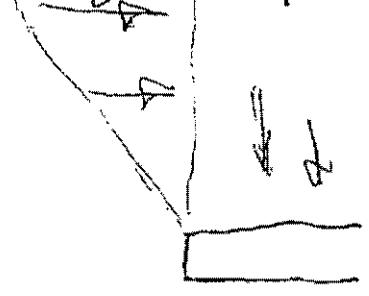
1893 West Mockingbird Ln. • Dallas, TX 75235  
Phone (214) 634-8850 • Fax (214) 630-8134



TA Pole  
212

2207  
471  
3421

Exposure Time Switch



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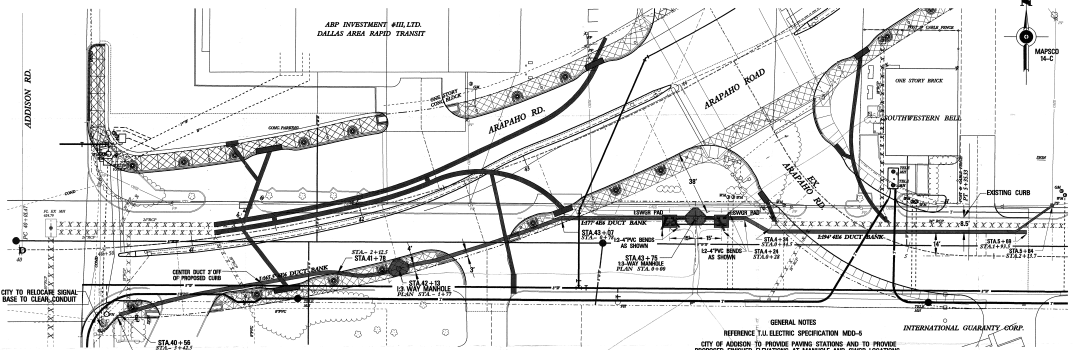
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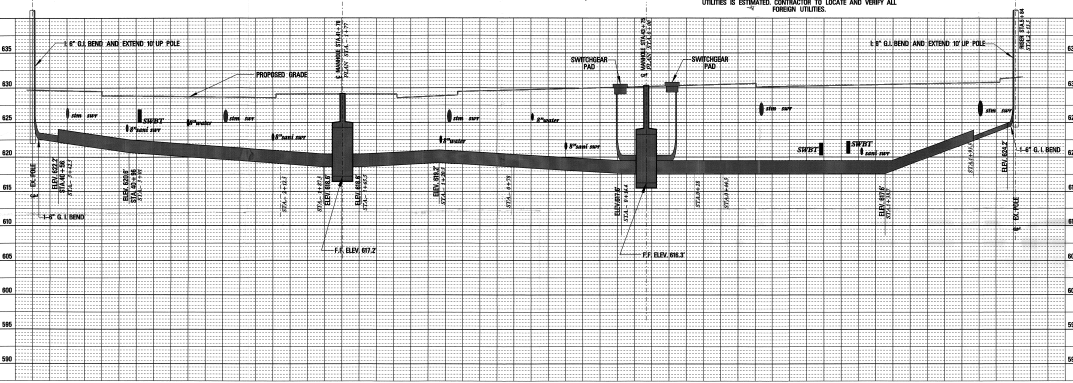


ARP INVESTMENT #11, LTD. DALLAS AREA RAPID TRANSIT



GENERAL NOTES  
REFERENCE TU ELECTRIC SPECIFICATION MDD-6 INTERNATIONAL GUARANTEE CORP.

CITY OF ADDISON TO PROVIDE PAVING STATIONS AND TO PROVIDE PROPOSED FINISH ELEVATIONS AT MANHOLE AND SWITCH LOCATIONS. LOCATION AND ELEVATIONS OF EXISTING AND PROPOSED FOREIGN UTILITIES IS ESTIMATED. CONTRACTOR TO LOCATE AND VERIFY ALL FOREIGN UTILITIES.

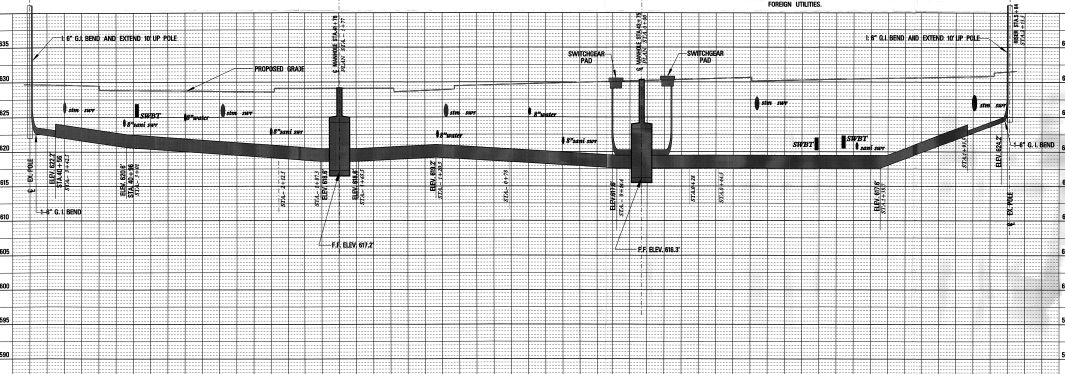
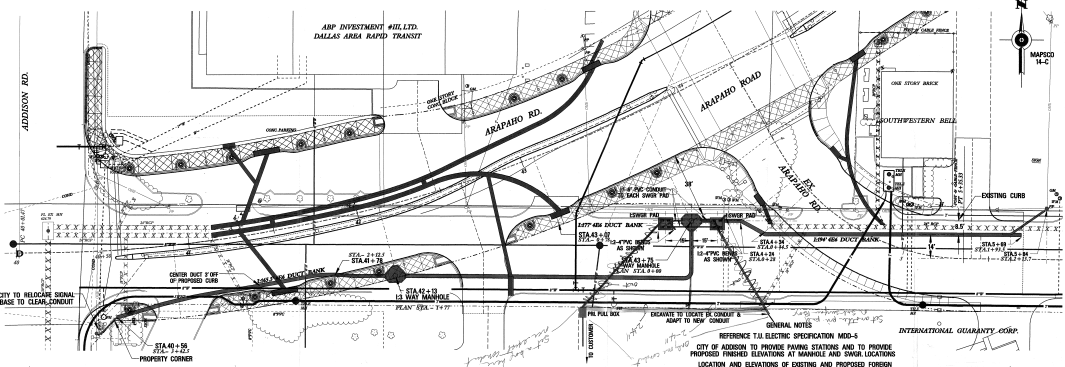


Red 4-29-98

ANP INVESTMENT #11, LTD.  
DALLAS AREA RAPID TRANSIT



ADDISON RD.



**GENERAL NOTES**

REFERENCE T&E ELECTRIC SPECIFICATION MOD-5  
CITY OF ADDISON TO PROVIDE PAVING STATIONS AND TO PROVIDE PROPOSED FINISHED ELEVATIONS AT MANHOLE AND SWAG LOCATIONS  
LOCATION AND ELEVATIONS OF EXISTING AND PROPOSED FOREIGN UTILITIES IS ESTIMATED. CONTRACTOR TO LOCATE AND VERIFY ALL FOREIGN UTILITIES.

INTERNATIONAL GUARANTY CORP.

80 ARAPAHO RD		DATE: 11/18/87	
TU ELECTRIC		DRAWN: C.L. H.P.	
SCALE: H.P. = 20'-0" V.P. = 5'-0"	LIST OF REVISIONS	ESTIMATE NO.	DATE
ADD. ADDISON ROAD EXPANSION	1	5008	11/18/87
ARAPAHO RD. AT ADDISON RD.			
PLANS AND PROPOSED DRAWING			
DATE: 4/22/78	DWG. 1/1B	CHK. JLB	DATE: 11/18/87