# TURNER CONSTRUCTION COMPANY 

GRAYBAR BUILDING

# 420 LEXINGTON AVENUE 

BOSTON
PHILADELPHIA

March 3, 1947.

> United Nations Headquarters Planning Office, 1270 Sixth Avenue, New York, N. Y. Gentlemen:- $\quad$ Attention: Mr. George A. Dudley.

Herein we attempt to answer the questions outlined in your memorandum handed to us on February 27 th concerning your "Proposed Construction Schedule".

1. "Assuming certain conditions of labor and producers'
cooperation, is attached schedule providing for occu-
pancy by September 15, 1948 practical?"
As stated to you over the telephone on the afternoon of February 28 th , we had by that time reached the conclusion that your schedule was "possible but not probable in our judgment". This would seem to answer negatively your question as to whether the schedule is practical. Your charted schedule divides into two components:
2. In general the time you have allowed for design, namely March 15th to August 1st, 1947, and the balance for procurement and construction. It is not our function to go into detail on the first part. Our negative answer to this Question \#l of yours indicates some doubt as to the possibility of maintaining this design schedule.
3. With respect to the second component, the procurement and construction schedule, we have the following comment:

We note that your schedule assumes that structural steel deliveries will begin four months after the order is placed. If this is possible we would expect that we could complete by October 15, 1948. In the light of any knowledge we have, we would expect that six months at a minimum would be required between placing the order and starting deliveries of steel at the site. If this is correct and steel orders can be placed July 1, 1947 we believe, in accordance with the statements following hereinafter in this
questionnaire, that the building should be completed December 15, 1948.

Obviously any strikes in the building trades or in any industries affecting building materials or deliveries thereof would affect these delivery dates adversely.

You asked what elements should be given more time or could be further reduced. The speed schedule just referred to which we prepared, in general does not reduce the time for any of the items allowed in your schedule. It does push certain items further back as indicated in the overall completion date.
2. "What are the conditions which must be met in order to achieve this schedule?"

Labor - If present agreements between most of the unions in the Building Trades Employers Association continue in force for the life of the job and no extraordinary volune of buildings come on the market for construction early in 1948 it is our judgment that there should be a sufficiency of skilled mechanics and laborers for this job. If these conditions change, the changed conditions will have to be met at the time.

Steel Producers - It would reouire special consideration from the steel industry to even approximate the four months that your schedule allows between the placing of the steel order and the starting of erection of steel.

Critical Items:
Elevators - In order to have elevators in operation by the first of September 1948 full design information must be in the elevator manufacturer's hands by May 15, 1947.

Plumbing Supplies - Currently we would not anticipate any particular difficulties on this item.

Electrical Equipment - With the exception of motors, fans and transformers, where there would have to be special arrangements made to meet your schedule, we would not anticipate other difficulties.

Limestone - Indications are, that to make the schedule, special arrangements would have to be made with labor in New York to permit the stone to be fabricated at the quarries and shipped into New York ready for erection.

Others - None, unless in trying to meet this schedule substitutions are made necessary which in themselves would create problems.

Legal Impediments - If there were any they would not concern the general contractor directly. It may be proper to suggest that in making the early, or design part of your schedule, it might be desirable to get a ruling that this site was without the boundaries and zoning acts of the Building Code and that any Federal restrictions on availability of materials would be removed at once.

Forms of contracts and limitations on bidding - It would be our judgment that the only chance of meeting this schedule was to select an able general contractor very promptly to do the work under a cost plus a fee form of contract. The contractor should be selected on merit and not as a result of any competition as to the amount of fee.

Others - Should the alternate decision be to adopt a schedule giving a later completion date with resulting more time to "build the job on paper" before work was started in the field it would still be most desirable in our experience and judgment to select a contractor at once so as to have the benefit of his experience and counsel in association with the architects in preparing a sound budget as to the cost of this job and a speed schedule that could be maintained.
3.
(a) "What are the amounts of money that will have to be committed up to November 1, 1947?"

Thirteen Million Two Hundred Thousand ( $\$ 13,200,000$. ) Dollars.
(b) "In the event of cancellation of the program at that time (November 1, 1947) what part of this would be retrievable and returnable to the United Nations?"

Nine Million ( $\$ 9,000,000$. ) Dollars.
(a) "If the funds for the steel and foundations only were committed by November 1, 1947 what would be the earliest occupancy date?"

In the absence of information as to when the balance of commitments will be made, no date can be given.
(b) "What are the amounts of money which will have to be committed by that date?" (November 1, 1947)

Three Million ( $\$ 3,000,000$.) Dollars.
(c) "What amounts will be returnable in event of cancellation?" Six Hundred Thousand ( $\$ 600,000$.) Dollars.
5. When should demolition begin on each of the above alternatives?"

If you attempt to maintain your schedule, demolition would have to be started as shown, namely June ist. If by committing foundations and structural steel only by November lst and you plan to adhere as near to your schedule as you can by letting other contracts as promptly thereafter as possible, it would seem that your demolition ought still be June lst. On the other hand, should you not award foundations and steel contracts until November 1st why then your demolition wouldn't have to be started until October lst.
6. What would be the estimated cost of moving the building now in construction for the N.Y.C. Housing Authority on 42nd Street between First Avenue and the East River Drive to another site?"

Three Hundred Eighteen Thousand Five Hundred $(\$ 318,500$.
Dollars. This on your verbal statement that the building in question would only be moved a distance of about $250^{\prime}$ and that when it was moved only its reinforced concrete frame and exterior limestone walls were completed, i.e. no interior work or no mechanical subcontract work would have been done. We have included in this figure the providing of new foundations and basement floor and connections to street mains and utilities.

It has been a pleasure to prepare this information for you.

JPHP/V.


March 3, 1947.

United Nations Headquarters Planning Office, 1270 Sixth Avenue, New York, N. Y.

Gentlemen:- Attention: Mr. George A. Dudley.
Herein we attempt to answer the questions outlined in your memorandum handed to us on February 27 th concerning your "Proposed Construction Schedule".

1. Mssuning certain conditions of labor and producers ! cooperation, is attached schedule providing for oceupancy by September 15,1948 practical? ${ }^{*}$

As stated to you over the telephone on the afternoon of February 28th, we had by that time reached the conclusion that your schedule was "possible but not probable in our judginent". This would seem to answer negatively your question as to whether the schedule is practical. Your charted schedule divides into two components:

1. In general the time you have allowed for design, namely March 15 th to August lst, 1947, and the balance for procurement and construction. It is not our function to go into detail on the first part. Our negative answer to this Question \#l of yours indicates some doubt as to the possibility of maintaining this design schedule.
2. With respect to the second component, the procurement and construction schedule, we have the following comment:

We note that your schedule assumes that structural steel deliveries will begin four months after the order is placed. If this is possible we would expect that we could complete by October 15, 1948. In the light of any knowledge we have, we would expect that six months at a minimum would be required between placing the order and starting deliveries of steel at the site. If this is correct and steel orders can be placed July 1, 1947 we believe, in accordance with the statements following hereinafter in this
questionnaire, that the building should be completed December 15, 1948.

Obviously any strikes in the building trades or in any industries affecting building materials or deliveries thereof would affect these delivery dates adversely.

You asked what elements should be given more time or could be further reduced. The speed schedule just referred to which we prepared, in general, does not reduce the time for any of the items allowed in your schedule. It does push certain items further back as indicated in the overall completion date.
2. What are the conditions which must be met in order to achieve this schedule?"

Labor - If present agreements between most of the unions in the Building Trades Employers Association continue in force for the life of the job and no extraordinary volune of buildings come on the market for construction early in 1948 it is our judgment that there should be a sufficiency of skilled mechanics and laborers for this job. If these conditions change, the changed conditions will have to be met at the time.

Steel Producers - It would require special consideration from the steel industry to even approximate the four months that your schedule allows between the placing of the steel order and the starting of erection of steel.

## Critical Items:

Blevators - In order to have elevators in operation by the first of September 1948 fuil design information must be in the elevator manufacturer's hands by May 15, 1947.

Plumbing Supplies - Currently we would not anticipate any particular difficulties on this item.

Electrical Equipment - With the exception of motors, fans and transformers, where there would have to be special arrangements made to meet your schedule, we would not anticipate other difficulties.

Limestone - Indications are, that to make the scheduie, special arrangements would have to be made with labor in New York to permit the stone to be fabricated at the quarries and shipped into New York ready for erection.

Others - None, unless in trying to meet this schedule substitutions are made necessary which in themsalves would create problems.

Legal Impediments - If there were any they would not concen the general contractor directly. It may be proper to suggest that in making the early, or design part of your schedule, it might be desirable to get a ruling that this site was without the boundaries and zoning acts of the Building Code and that any Federal restrictions on availability of materials would be removed at once.

Forms of contracts and limitations on bidding - It would be our judgment that the only chance of meeting this schedule was to select an able general contractor very promptly to do the work under a cost plus a fee form of contract. The contractor should be selected on merit and not as a result of any competition as to the amount of fee.

Others - Should the alternate decision be to adopt a schedule giving a later completion date with resulting more time to build the job on paper" before work was started in the field it would still be most desirable in our experience and judgment to select a contractor at once so as to have the benefit of his experience and counsel in association with the architects in preparing a sound budget as to the cost of this job and a speed schedule that could be maintained.
3.
(a) "What are the amounts of money that will have to be committed up to November 1, 1947?"

Thirteen Million Two Hundred Thousand ( $\$ 13,200,000$. ) Dollars.
(b) "In the event of cancellation of the program at that time (November 1, 1947) what part of this would be retrievable and returnable to the United Nations?"

Nine Million ( $\$ 9,000,000$.) Dollars.
4.
(a) "If the funds for the steel and foundations only were compitted by November 1, 1947 what would be the earliest occupancy date? ${ }^{\text {" }}$

In the absence of information as to when the balance of commitments will be made, no date can be given.
(b) What are the amounts of money which will have to be committed by that date? ${ }^{\text {n }}$ (November 1, 1947)

Three Million ( $\$ 3,000,000$.) Dollars.
(c) What amounts will be returnable in event of cancellation?

Six Hundred Thousand ( $\$ 600,000$ ) Dollars.
5. When should demolition begin on each of the above alternatives?"

If you attempt to maintain your schedule, demolition would have to be started as shown, namely June list. If by committing foundations and structural steel only by November list and you plan to adhere as near to your schedule as you can by letting other contracts as promptly thereafter as possible, it would seem that your demolition ought still be June list. On the other hand, should you not award foundations and steel contracts until November list why then your demolition wouldn't have to be started until October list.
6. What would be the estimated cost of moving the building now in construction for the N.Y.C. Housing Authority on 42nd Street between First Avenue and the East River Drive to another site?"

Three Hundred Eighteen Thousand Five Hundred ( $\$ 318,500$. ) Dollars. This on your verbal statement that the building in question would only be moved a distance of about 250 and that when it was moved only its reinforced concrete frame and exterior limestone walls were completed, i.e. no interior work or no mechanical subcontract work would have been done. We have included in this figure the providing of new foundations and basement floor and connections to street mains and utilities.

It has been a pleasure to prepare this information for you.

JPHP/V.


RC 6 ans of the stack

Schedule $A$ (in red) : Best passible shetedue; tegaretiong weather; disteryadie.
 cerertiuce and present costs for this type of b



$$
\begin{aligned}
& \text { ydoding cost a aval iste mus pewer. } \\
& \text { Tentative Tirne Senedules. } \\
& \text { of buildin? and with os }
\end{aligned}
$$

## 




Quantities \& Time Elements

1. Dewalition: Present site eccufied by $2,3,4, a^{2}$ stery biens buildinios.
 Allew for clestion net briding arra only se as to perwit excavation to stort:

Four (1) weeks on best possible schedole. (A)
Siy (6) weeks on mest eccurai at schedule. (B)
Complete demelition ever tutiee two bleck ares in eight (8) wreks - setridie A. in twelise (12)
2. Feundatious: Excavation. $10^{\prime}$ rubble aun sist, $20^{\prime}$ of solid rock

$$
\begin{aligned}
& \frac{30 c 0000}{27}=11,000 \mathrm{cy}+22,000 \mathrm{cy} \quad=33000 \mathrm{cu} \text { yds Tetal }
\end{aligned}
$$


 " 60 yds .. $\quad 3=50$ days

3. Structural Steel: 8000 tens $\div 42$ steries $=190$ teus per stery; average.
wse 2 derricks $=95$ tous . "per detitick.
Aurroge a story every 2 days $=47 y_{2}$ " " derrick per day $\quad$ G.K for Aorb whatobs,
54 working days $=4$ menths for erection.
Nete:- Steel mills are currently queting 7 to 8 meuth trom erder to start of erection. It is assound theat this job woold obtain a pricerity on the relling schedule due to its international importance, a-d that rrectico cculd start 6 menths after order.
4. Concrete Fleors: - This operation must meet the ste. steel erect in schedule, i.e. $2 \frac{1}{2}$ sterins/week. Assume usual suspended "goulash" type of form. Six(6) set's required. 300 cyds cimader ceverate in everage floot $=$ doily pouts of 150 yds .
5. Exterior Maschty: $-720^{\prime} \times 515^{\prime}$ sinus $35 \%$ fer widedous $=243000$ cobic feet total.

Per overace story: 5750 soift. of $4^{\prime}$ limestone $+80,000$ boik-up brick.
 , schedvile $B$ would be obout $75 \%$ of $A$ and would be nearee to the notmal heisting capacities figured on straight time.
64 Intericr-Partitions: Follow 4 staries buhind adetrir masenty. Hellow metal doer trames.

$$
\begin{aligned}
& 1500 \mathrm{kinft} \times 12^{\prime}=18000^{01} \text { per story. © } 200 / \text { mon-hy }=90 \text { mow-doy } / \text { flece } \div 2 \text { dars }=45 \text { brictherers, } \\
& +2 \%=35
\end{aligned}
$$

Quontities \& Time Elements
sh: Pres...t site eceufled by 2,3 a.d 9 story bu b buiddinos.
 Allew for clearine net building area only se as to permit ercavation to start:

Four (1) weeks on best possible solitdule. (A)
Sily (6) weeks on most s.curm: s sckedule. (B)
 in turive (12) .. - B.
©us: Excalvation, $10^{\prime}$ rubble aun $\therefore$ ist, $20^{\prime}$ of solid rock

$$
\frac{30000 \times 10}{27}=11,000 \mathrm{cy}+22,0008 \cdot y \quad=33000 \text { co.yds Tetal }
$$




$$
\begin{aligned}
& \cdots B=50 \text { days }
\end{aligned}
$$

 ect inssiblt with s shevels werkill on sebertele $A$.
$\mid$ Stec|: 8000 tens $\div 42$ steries $=190$ teus per stery; auvrage.
Wse 2 derricks $=95$ tors $\quad=\quad$ perdeftik.

54 working days $=4 \mathrm{mon}$ ths for erecticn.
i- Steel mills ate cureretly queting 7 to 8 meuth trem order to start of erection.
It is assumed that this job weuld obtemin a pricrity on the rolling schedule due to its inftinotien al importame, 4 -d that rreticn cold sturt 6 mouths after order.
Fleors:- This operation must meet the str steel erection schedule, i.e. $21 / 2$ stories/week. Assume usual suspended "goulash" type of form. Six(6) sets required. 300 cyds cinder concrete in dererage fleor $=$ daily pours of 150 yds .
Musonty: $-720^{\circ} \times 515^{\prime}$ ninus $35 \%$ for windous $=243000$ cobic feet total.
Per diverage story: 5750 saift. of $4^{\prime \prime}$ linestone $+80,000$ pock-up brick.
in genevol, sefedule A would be $21 / 2$ stories per wrek, tequiring 45 storesetions +65 brickloyers ( $\mathrm{so} \mathrm{sa} / \mathrm{t} / \mathrm{/mo} / \mathrm{kg}$ ) $(\mathrm{sce} / \mathrm{mos} / \mathrm{day})$
, schedvie $B$ weuld be obout $75 \%$ of $A$ and weuld be nearer to the normal heisting capacities figured on straight time.
"ertitions: Follow 4 steries belind extetior masconty. Hollow metal door trames.
1500 hin 人f $\times 12^{\prime}=18000^{\circ 1}$ per story. $\because 200 /$ mondoy $=90 \mathrm{mow}$-doys $/$ fleer $\div 2$ days $=45$ biriklayers, $\div 2 / 2=35$

# TURNER CONSTRUCTION COMPANY 

## GRAYBAR BUILDING

August 1, 1946

Mr. Glenn Bennett, Secretary Headquarters Commission United Nations 51 Madison Avenue New York, New York

Dear Sir:
Re: Construction of Permanent Headquarters
In accordance with your request we here make formal application for your consideration of our services as General Contractors for the construction of the permanent headquarters of United Nations. We will be glad to furnish credentials when and if you will care to have them.

We look forward to the possibility of an interview with you soon after October list.

Yours very truly,

GCB:mh


## May 9, 1947

## Nr. J.P.H. Perry <br> Turner Construction Company <br> $\$ 20$ Lexington Avenue <br> Nev York, N.Y.

Dear Mr. Perry:
Thank you for your letter of April 29
as well as for your cooperation in submitting speed schedules for the proposed United Itations project.

We, of course, understood that you were interested in the general contract work and, when the proper time comes we plan to get in touch with you. Since we are still woricing on the preliminary report, serious consideration is not yet being given to actual construction problems.

Sincerely,

Wallace K. Harrison
Director of Planning

[^0]
## TURNER CONSTRUCTION COMPANY

GRAYBAR BUILDING

# BOSTON <br> PHILADELPHIA 

April 29, 1947.

Mr. Wallace K. Harrison,
United Nations Headquarters Planning Office, 1270 - 6th Avenue, New York, N. Y.

Dear Mr. Harrison:-
The suggestion has been made that it would be appropriate for our Company to go on written record with you and your organization that we would like to be considered by the United Nations as contractors for one or more of the buildings which you are designing for U.N.

It was our privilege to submit speed schedules to you under date of March 3rd. Subsequently we filed with your Mr. Dudley copies of a book we published some years ago "Buildings by Turner". This latter book tells our story about as completely as it can be told. The qualifications set forth therein we believe would merit your serious consideration of us as contractors for some of the work under discussion.

At the proper time we would like to hope that we might have an opportunity to discuss in greater detail what we think we have to offer you.



[^0]:    bmot
    Pile to G.A.Dudley

