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## EMERGENCY GENERATCR

30054-D Emergency generator arrangement
39004.D Emergency generator cooler

75-471-1 Generator control
Control equipment layout

| mawn no. | coloraon | $\cdots$ | 2 A |
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SUMMARY OF APPROXIMATE QUANTITIES

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| :---: | :---: | :---: | :---: | :---: |



SUMMARY OF APPROXIMATE QUANTITIES



FINAL SUMMARY OF CHANGE ORDERS

| P60 | cmo NO | oescription | PLAN AMT | FIMAL AMT | CIFFERENCE | PERCEMT |  | REmARKS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 17103 | Weekend Work | 0 | $0^{\prime}$ | 0 | $0^{-}$ | $12^{\circ} 8^{\prime}$ |  |
| FA-02 |  | On-the-Job Trainee | 2,400 | 2,400 | 0 | 0 | $12-15$ | Plan force account |
| 3 | 17108 | Additional Duct Bracing | 9,493.00 | 9,493.00 | 0 | 0 | $12^{\circ} 20.22$ |  |
| 4 | 0289 | Buildirg Insulation | 235,000 | 301,014.09 | +66,014.09 | $+28{ }^{\prime}$ | $<10-$ | Plan force occount FA/O4 |
| 5 | C286 | Power \% Control Wiring - Water Storcoe | 25,000 | $10,778.97^{\prime}$ | -5,221.03' | $-21$ | 12. 23 | Includses $\$ 3,180.38^{-}$Non-Federal Aid |
| S-1 | 0325 | Supplement 1 to PCO 5 | 21,000 ${ }^{\prime}$ | 20,575.85 | -424.15 | $-2$ | 12 - 24 | Non-Federal Aid |
| FA-05 | 17106 | Adjust Naturai Gas Service | 24,840 | 24,134,22 | $-3,405.78$ | -19 | $12 \quad 14$ | Plan Force Account |
| S-1 | 17105 | Supplement 1 to FA-05 | $\begin{gathered} 2,700 \\ 10.000 \end{gathered}$ |  | -923.66 | -9 | $12 \quad 16$ | Plan Force Account |
| FA-08 | 17107 | Furnish Spare Farts Relocate Electric Lines | 10,000 12,000 | $9,076.34$ $16,640.31$ | +4,640.31 | 9 +39 | $\begin{array}{ll}12 & 16 \\ 12 & 17\end{array}$ | Plan force Account |
| 7 | 0293 | Extra Gas System Alarms | 5,385.77 | 5,385.77 | 0 | 0 | 12. 28. | Non-Federal Aid |
| 8 | 0299 | 15 Day Time Extension | 0 | $0^{\prime}$ |  |  | $130^{\circ}$ |  |
| 9 | 0356 | Deletion of Thomas Couplings | 0 , | 0 |  |  | 31 |  |
| 10 | 0357 | Emergency Generator Breaker | 10,047.00 | 10,047.00 | 0 | 0. | 32 |  |
| $1 /$ | 0364 | Fan Testing Costs | 17,000.00 | 16,517.69 ${ }^{\prime}$ | -482.31 | -3- | 33 |  |
| 12 | 0365 | Excavation \& Backfill Compensation | 7,593.20 | $7.593 .20{ }^{\circ}$ | $0^{\prime}$ | 0 | $34^{\circ}$ |  |
| 13 | 0366 | Damper Control Access Doors | 989.81 | $989.81^{\prime}$ | 0 | 0. | $35^{\circ}$ |  |
| 14 | 0367 | Raise L-P Tank | 12,838.03 | 12,838.03 | 0 | $0^{-}$ | $136^{\circ}$ |  |
| 15 | 4731 | Modify Fan Controls | 8,641.42 | 8,641.42 ${ }^{-}$ | 0 | $0^{-}$ | $12 \quad 37^{\circ}$ |  |
| FA-03 |  | Furnish Electricity | 6,000.00 | 223,922.10 | +217,922.10 | + 3632 |  |  |
| $\begin{gathered} F A-01 \\ 16 \end{gathered}$ |  | Erosion Control Butyl Membrane us Bonding Compound | $\begin{array}{r} 10,000.00 \\ 4,241.10 \end{array}$ | $\begin{gathered} 0 \\ 4,241.10 \end{gathered}$ | $\begin{array}{r} -10,000 \\ 0 \end{array}$ | $\begin{array}{r} 100 \\ 0 \end{array}$ | $12 \quad 38$ | FA-Ol Voided |

FINAL SUMMARY OF MISCELLANEOUS FORCE ACCOUNT

| LINE | description | PLAN AMT | final Amt | Oifference | Percent | ${ }_{\text {REFERENCE }}$ | remarks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Electric Conduit Thru "A" Wall | 1,000 ${ }^{\prime}$ | $1.212 .70^{\prime}$ | + 212.70 | $+21$ | $11^{\prime} 8-9{ }^{\prime}$ |  |
| 2 | Extra Excavation For 8"Gas Line. | $600^{\prime}$ | 1,188.00 ${ }^{\prime}$ | + $588{ }^{\prime}$ | +98 | $111 / 12$ | $540 \mathrm{yds}^{3}$ @ $\$ 2.20 / \mathrm{yd}^{3}$ negotiated price (Bid item) |
| 3 | Grout Upper Keyways in Duct Divider Wall | $2.000^{\prime}$ | 1,700.58 | -299.42 | -15 | 14-15 |  |
| 4 | $D C$ to $A C$ Inverter | $400{ }^{\prime}$ | 400.00 | 0 | 0 | 16-17 | Negotiated Lump Sum |
| 5 | Additional Costs ¢ Credits, Field Facility | 2,210.70 | 2,210.70 | 0 | 0 | $18 \cdot 71$ |  |
| 6 | Steel Plates Over Fan Deck Blockouts | $250^{\prime}$ | $228.41^{\prime}$ | $-21.59^{\prime}$ | -9 | 23 | + |
| 7 | Modify Gas Piping, East Vent Bldg. | 1,262.83 | 1,262.83" | 0 | 0 | 27-28 |  |
| 8 | Additional Lockers, Field Facility | 550 | $566.50^{\prime}$ | $+16.50^{\prime}$ | + ${ }^{-}$ | $29^{\prime}$ |  |
| 9 | Fan Control Board Relays | 530.25 | 530.25 | 0 | 0 | $3!^{\prime}$ |  |
| 10 | Elevator Pit Ladders | 143.00 | $143.00^{\prime}$ | 0 | 0 | $33^{-}$ |  |
| 11 | Omitted Brick Reinforcement | (676.16) | $(676.16)^{\prime}$ | 0 | 0 | $34^{-}$ | credit |
| 12 | Extra Brickwork, E.V.E. @ M"Wall | 269.50' | $269.50^{\prime}$ | 0 | 0 | 36 |  |
| 13 | Transformer \& Wiring, Emerg. Gen. | 3,002.71 | 3,002.71 | 0 | $0^{-}$ | $35^{\prime}$ |  |
| 14 | Continuous Angle, Evase Stack Skirts | 1,515.00 | 1,515.00 | $0{ }^{\circ}$ | $0^{\prime}$ | 37~38 |  |
| 15 | Delete Fencing, Vaporizer-Blender. | $(2,050)^{\prime}$ | $(2,050)^{\prime}$ | 0 | $0^{\prime}$ | $39^{\circ}$ | Credit |
| 16 | Returned Valve Train | (739.46) | (739.46) | $0^{\prime}$ | 0 | $41^{\prime}$ | Credit |
| 17 | Supply Fan Flexible Connections | 1,482.27 | 1,482.27 ${ }^{\prime}$ | $0^{\prime}$ | $0^{\prime}$ | $42^{-}$ |  |
| 18 | Remove Duct for Fan Testing | 715.00 | 715.00 | 0 | 0 | 43 |  |
| 19 | Additional Wireway Clearance | 4,000 ${ }^{\prime}$ | 5,407.23 | +1,407.23 ${ }^{\prime}$ | + 35 - | 44. |  |
| 20 | Plugged Conduit, Stop Switch Handles | $600^{\prime}$ | $654.43{ }^{\prime}$ | +54.43 ${ }^{\prime}$ | $+9^{\prime}$ | $45^{\prime}$ |  |
| 21 | Cut Idler Sheave Take-up bolts | 338.04 | $338.04^{\prime}$ | 0 - | $0^{-}$ | $46^{\prime}$ |  |
| 22 | Furnish 100 Amp Breaker | 412.47 | $412.47^{\prime}$ | $0^{-}$ | $0^{-}$ | $47^{\circ}$ |  |
| 23 | Replace A.H.Burner Regulators | 2,400 ${ }^{\prime}$ | 3,832.76' | +1,432.76 ${ }^{\prime}$ | +60- | $48^{-}$ | Non-Federal Aid |
| 24 | Modifications, Fan Control Switches | 2,500 ${ }^{\prime}$ | 2,580.82 | +80.82 | +3- | 49 |  |
| 25 | Sewer Repair, Field Facility | 1,000 ${ }^{\prime}$ | 1,368.64 ${ }^{\prime}$ | + $368.64{ }^{\prime}$ | +37 ${ }^{\prime}$ | 50 | \$426.79 of \$1,368.64 is Non-Federal Aid |
| 26 | Air Heat Burner - Fan Interlocks | 2,000 | 5,162.74 | +3,162.74 | +158 ${ }^{\prime}$ | $51^{\prime}$ |  |
| 27 | Roof Jack Repair - Field Facility | 500' | $83.25^{\prime}$ | -416.75 | -83 | - 52. |  |
| 28 | Curbs-Emerg. Gen. Room Ventilation | 2,043.14 | 2,043.14 | 0 | $0^{\prime}$ | '53' |  |
| 29 | Credit, Photo-Electric Relay | $(1 / 2)^{\prime}$ | (112) | 0 | $0^{\prime}$ | 1154 | credit |

FINAL SUMMARY OF mISCELLANEOUS FORCE ACCOUNT


tadulation of concrete aind reinforcing steel

| Bk | Poge | Description | concrete |  | Reinforcing stee, |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { gloss } \\ & \text { (noll) } \end{aligned}$ | Closs B |  |
|  |  |  | curd | cur | Lb. |
| 2 | $\begin{aligned} & 17 \\ & 55 \\ & 17 \\ & 55 \\ & 17 \\ & \hline 5 \end{aligned}$ | West iventilation Building veritilation system Emergency Generator Elevator |  | $\begin{aligned} & 129.01 \\ & 12.58 \\ & 1.27 \\ & 1.2182 \end{aligned}$ | $\begin{array}{r} 7350 \\ 200 \\ 2000 \end{array}$ |
| 2 | $\begin{aligned} & 17 \\ & 55 \\ & 17 \\ & 55 \end{aligned}$ | East Ventilation euilding Ventilation System Elevator | . | $\begin{aligned} & 120.51 \\ & 8.82 \\ & 8.88 \end{aligned}$ | $\begin{aligned} & 7350 \\ & 2000 \end{aligned}$ |
| $1 \frac{1}{2}$ | :3 | East Portal Area Retaining wall | $\begin{aligned} & 706 \\ & 6 x 3 \end{aligned}$ |  | 69,200 |
| $\frac{(R-1)}{(R-1)}$ |  | Summit County Totals |  | 140) | 9,550 |
|  |  | Clear Creek County Iotals | $\operatorname{coseg}$ |  | 78,550 |
|  |  | Totals | $13 \delta 63$ | -s, $2 \times$ | 88,100 |
|  |  | Note: Gas Meter Buidinvs, field facility and Gas supply System require quantities of Concrefe and Reinforcing steel that will not be paid for separately, but shall be included in the work. |  |  |  |









details of field facility



$\square$ Revised
Date $8 / 31 / 79$
nоте:
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The finol iocotion of ine fieid faciity may be odjusted to fit field The cost of dirt ond rock excov
but will De snctuded in the work.

Re 8/31/79

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$\qquad$ 170


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130



## (2-1) 4/28175 TAL. Revise Pipe Size.

## Notes

 $480 \mathrm{~V}, 3 \phi$
F-2 furnace 4920 CFMO F"'sp 937500 ETU input,


AS CONSTRUCTED
REV/SED
DATE $8 / 31 / 7 y$


$1 / \phi$
EF-1 1250 CFM Pis'sP Prop fon with backíaft damper, 1/eHP, $120 \mathrm{~V}, 1 /$ EF-2 2500 CFM © $1 / 3$ "SF Pmp fon with backdruft oimper, $1 / 4 \mathrm{HP}, 120 \mathrm{~V}, 1 /$ EF-3 5000 CFMC i/g" SP Prop for with backiraft damper, $1 / 2 \mathrm{HP}, 120 \mathrm{~V}, 1 \mathrm{f}$ EF-4 1400 CFME $/ 4$ SP Rosf exhoust form/curb and backioff damper $1 / 6 \mathrm{HP}, 120 \mathrm{~V}$ io Insulate all ductwork instailed inatic space with 1 "x $1121 / 2$ ductliner

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\text { Flues shall be Type } B
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Undercut all doors I"for return ar
Combustion oir for F.2 to come from attic iavers

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GRONT ELEVATION
Ero elevation
REDVCOO SHELVES FOR MOIST ROOM


(2.)

SESTION A-A


GENERAL NOTES










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& \text { Section rbestall- deraification }
\end{aligned}
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Note: Gas Meter Builoing (East) and Gas Meter Bidq.(Hest) require Dartial Quantities to complete the wark as shown below.
These quantities will not be paid for separatell out These quantities will not be paid
shall be included in the work.

| scription | unit |  |  |
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| Structure Excavation | Ku. ${ }_{\text {c }}$ | E. | 29 |
| Structure backfill (class 2) | Curd | E7 | 27 |
| CONCRETE CIASS A (WALL) | Cura | $2 /$ | 22.7 |
| MASONRY VEMEER | St, ft | 480 | 467 |
| REIMFORGING StSEL | ces | 1200 | 1207 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

DESIGN DATA


Fs: 1,200 ces. PR 50: 18.
location of all construction joints shall be approveo
metal ties for brick veneer shall be placed such that MAXIMUM AREA $41 / 2$ Sa.FT PERTIE.
Shall be frovided at maximum is" spacing.

LOADING DATA

INDEX OF DRAWINGS




a. mo.s 4 panel chyut - wates a 3



anv:nl


DIVISION OF HIGHWAYS
GENERAL INF:DRMATION
SUMMARY OF OUANITIES

| Station: $9+46$ | ro | $12+65$ |
| :--- | :--- | :--- | :--- |
| station |  |  | $1+60$ ro $13+70^{2}$






$10 \underbrace{}_{20}$


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SECTION A-A
Existing System

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(e-1) 4/E9/75 TaL Clarity Location of tee connection.
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DETAILS OF METER INSTALLATION
1 Pipe to be abandoned


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| 4 | Tonne Superimeneret office |  |  |
| 5 | - | d |  |
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| 8 | connolyser 200 m |  |  |
| 9 |  |  |  |
| $\frac{10}{11}$ | Portal Allerdont booth | Dex $x$ | For Tereen floudspeoke |
| 12 | Emergency vencen Sorage | wall |  |
| 13 | Garaq. rebice kepar shop |  | Telemono connection |
| 14 | Equipment Repuin Room |  |  |
| 15 | Eicerricof fitutert lamp Storage | , | For Telepmone clouver connection |
| 17 | Sexoge iratment piont | comer | for Tetepn mostall $n$ Hosard prea |
| 18 | Lounge | woll | Telempone |
| 19 | Soufn tunnel Rest Room | Cointes | Sublic Toiophone serrice |
| 20 | North Tunne/ Rest Room |  |  |
| 21 | Fon Room East hear Co\% 3/F | Horm | Sigiol severs lran Contol Ram |
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| 29 |  |  | - "- ${ }^{\text {" }}$ |
| $\frac{30}{31}$ |  | (ail |  |


| WEST VENTILATION BUILDING (EXIST OUTLETS) |
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| YOCATION |
| PORPOSE |









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MEPANTAGNT OF HIGHWAYS

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EISENHOWVER MEVMORIAL TUNNEL


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NOTES:











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KEY PLAN
AS CONSTRUCTED
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AS CONSTRUETED
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EAST+WEST PORTAL AREA 21,000 GAL PROPANE TANK CONCRETE SADDLE AND VAPORIZER BLDG SLAB



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