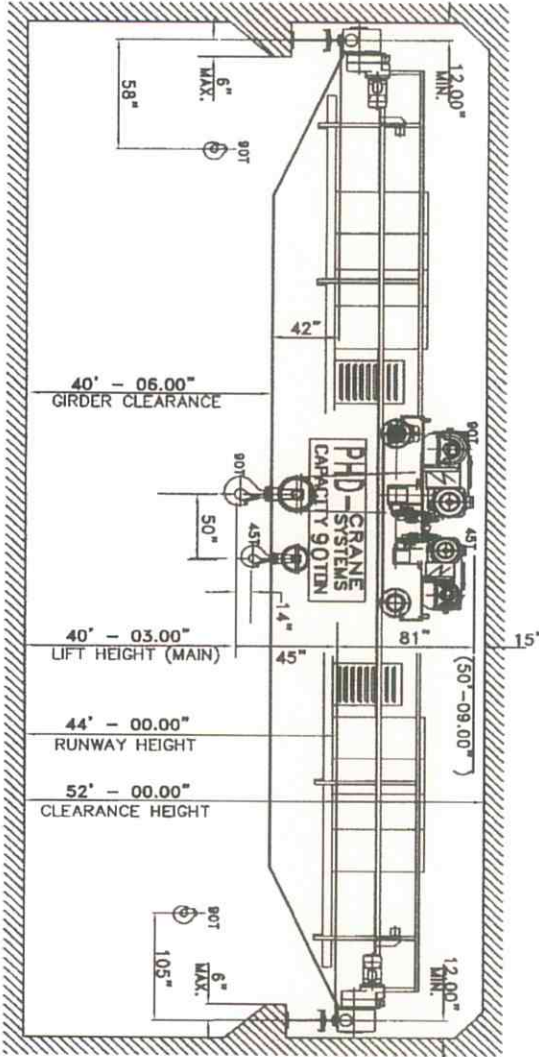
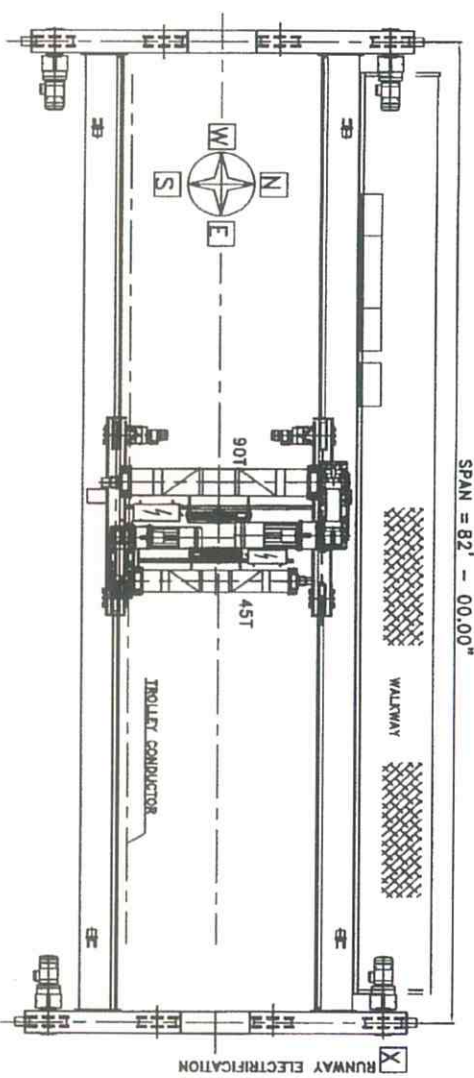




RUNWAY TOLERANCES

|             |          |
|-------------|----------|
| MAX. RUNWAY | 1.5/100" |
| MIN. RUNWAY | 1.5/100" |
| MAX. RUNWAY | 1.5/100" |
| MIN. RUNWAY | 1.5/100" |
| MAX. RUNWAY | 1.5/100" |
| MIN. RUNWAY | 1.5/100" |

PHD-CRANE

| DATE | INITIALS | DESCRIPTION OF REVISION               |
|------|----------|---------------------------------------|
| 2011 | J.C.G.   | TOP-RUNNING DOUBLE-TORSION-BOX-GIRDER |
| 2/22 | J.C.G.   | MAIN/AUX - COMMON TROLLEY             |

DESCRIPTION

|      |                                       |
|------|---------------------------------------|
| TYPE | TOP-RUNNING DOUBLE-TORSION-BOX-GIRDER |
| TYPE | MAIN/AUX - COMMON TROLLEY             |

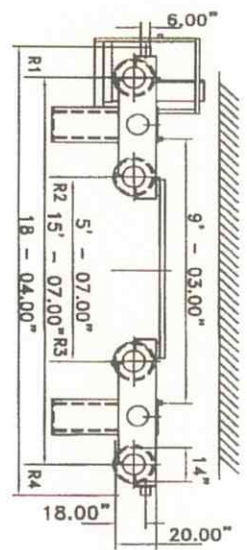
QUOTE NO.

|           |    |    |   |   |   |   |    |    |
|-----------|----|----|---|---|---|---|----|----|
| IDENT-NO. | SK | AZ | F | U | A | S | SH | OF |
|           |    |    | 3 | A | E |   |    |    |

FOR APPROVAL !!

CUSTOMER: GRAY CONST.

MHI - PROJECT



CRANE CAPACITY 90 TONS - 180,000 LBS.

CRANE CLASS SERVICE CMAA CLASS-C

TROLLEY TYPE PHD-MILL-MASTER WINCH

HOIST TYPE - MAIN-HOOK

AUX -HOOK

CRANE TRAVEL SPEED 200 FPM. VFC. -4X-7.5 H.P.

TROLLEY TRAVEL SPEED 135 FPM. VFC. -2X-7.5 H.P.

HOISTING SPEED -MAIN-HOOK 28 FPM. VFC. -1X-100 H.P.

AUX -HOOK 16 FPM. VFC. -1X- 85 H.P.

ENDTRUCK TYPE PHD-MILLMASTER-BOGEY-TYPE

WHEEL LOAD MAX. R1=55,800 LBS. R2=55,900 LBS. R3=58,980 LBS. R4=56,125 LBS.

RUNWAY BEAM 85# ASCE

RAIL SIZE (TYPE) 530 -00.00"

LENGTH OF RUNWAY 480V/3PH/60HZ

VOLTAGE STD. 4-COND. HORIZONTAL

ELECTRIFICATION TYPE, MTO 32,300 LBS. W/WALKWAY

BOX GIRDER (DRIVE) WT. 28,800 LBS.

BOX GIRDER (IDLER) WT. 11,600 LBS.

ENDTRUCK QTY(2) WT. 15,500 LBS.

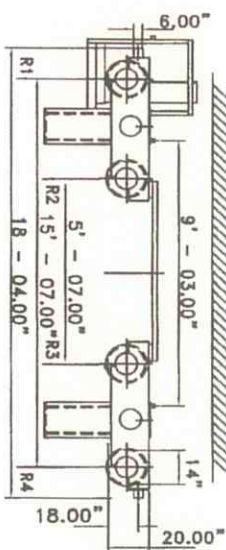
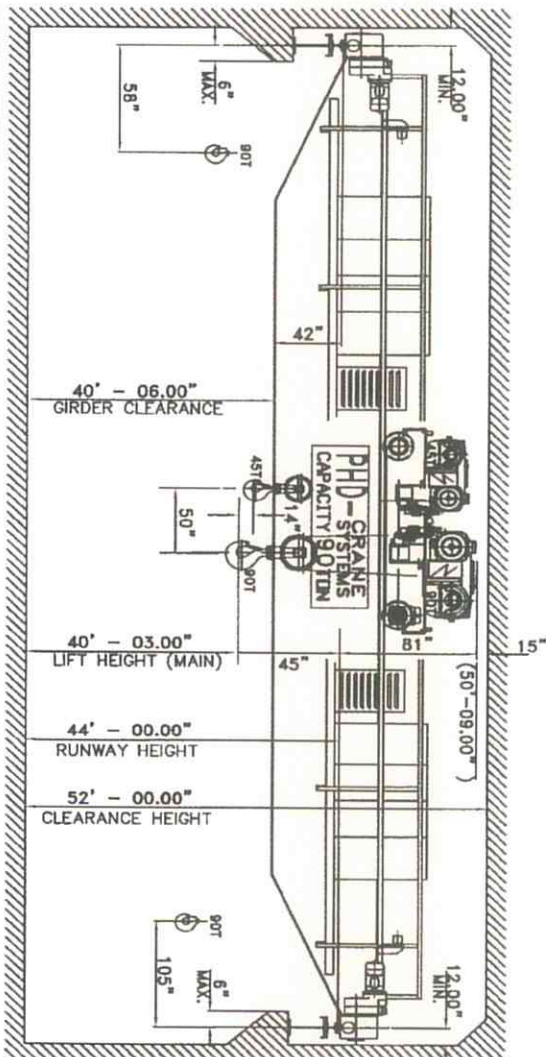
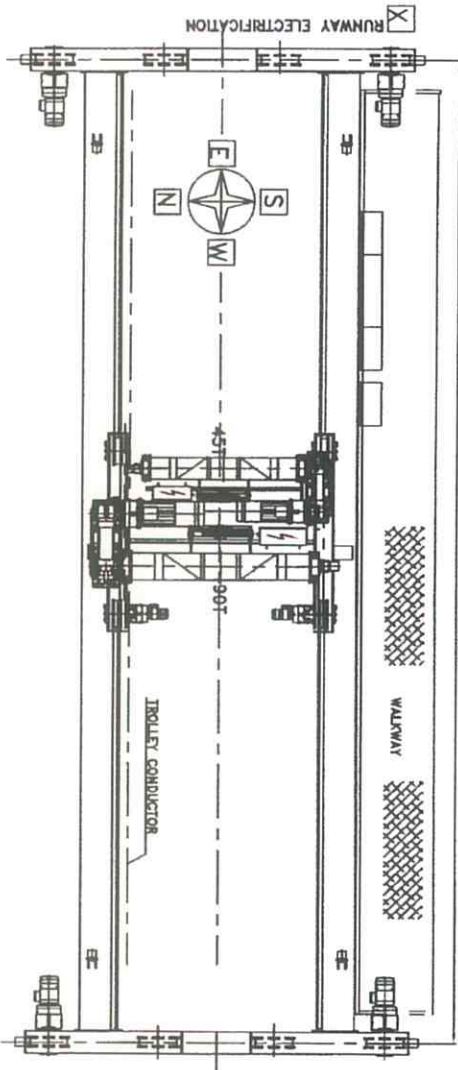
TROLLEY WT. 88,900 LBS. W/MISC. ELECTRICAL

TOTAL SHIPPING WT. 88,900 LBS. W/MISC. ELECTRICAL

REMARKS: DIMENSIONAL DATA BASED ON 44' - 00.00" ELEVATION TO TOP OF 85# ASCE CRANE RAIL ( RUNWAY HEIGHT ).

[ DRAWING NO. 1A ]

SPAN = 82' - 00.00"



CRANE CAPACITY  
90 TONS - 180,000 LBS.  
CRANE CLASS, SERVICE  
CMAA CLASS-C  
TROLLEY TYPE  
BUILT-UP  
HOIST TYPE -MAIN-HOOK  
AUX -HOOK  
PHD-MILL-MASTER WINCH  
PACKAGED TYPE HOIST

CRANE TRAVEL SPEED  
200 FPM. VFC. -4X-7.5 H.P.  
TROLLEY TRAVEL SPEED  
135 FPM. VFC. -2X-7.5 H.P.  
HOISTING SPEED -MAIN-HOOK  
28 FPM. VFC. -1X-100 H.P.  
AUX -HOOK  
15 FPM. VFC. -1X-85 H.P.

ENDTRUCK TYPE  
WHEEL LOAD MAX.  
PHD-MILLMASTER-BOGEY-TYPE  
R1=55,800 LBS. R2=58,900 LBS.  
R3=58,980 LBS. R4=56,125 LBS.

RUNWAY BEAM  
RAIL SIZE, (TYPE)  
85# ASCE  
LENGTH OF RUNWAY  
530'-00.00"

VOLTAGE  
480V/3PH/60HZ

ELECTRIFICATION TYPE, MTG  
STD. 4-COND. HORIZONTAL

BOX GIRDER (DRIVE) WT.  
32,300 LBS. W/WALKWAY

BOX GIRDER (IDLER) WT.  
28,800 LBS.

ENDTRUCK QTY(2)  
WT.  
11,600 LBS.

TROLLEY  
WT.  
15,500 LBS.

TOTAL SHIPPING  
WT.  
88,900 LBS. W/MISC. ELECTRICAL

REMARKS: DIMENSIONAL DATA BASED ON 44' - 00.00" ELEVATION TO TOP OF 85# ASCE CRANE RAIL ( RUNWAY HEIGHT ).

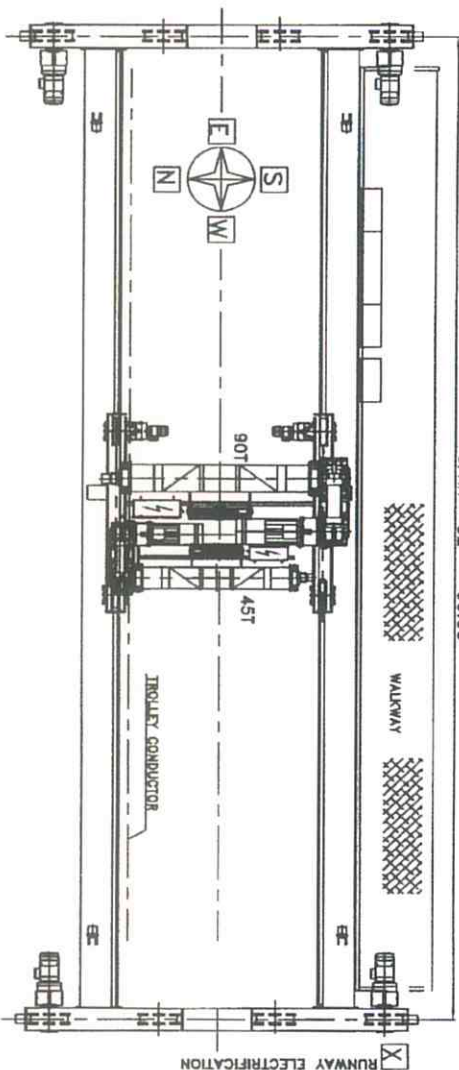
[ DRAWING NO. 1B ]

|                            |  |                                                                                                        |  |                                                                                              |  |                                                                        |  |
|----------------------------|--|--------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------|--|
| <p>PHD - CRANE SYSTEMS</p> |  | <p>DATE: 2/22/2011<br/>DRAWN: J.C.G.<br/>CHECKED: J.C.G.<br/>APPROVED: J.C.G.<br/>SCALE: 1"=10'-0"</p> |  | <p>DESCRIPTION: TOP-RUNNING DOUBLE-TORSION-BOX-GIRDER<br/>TYPE: MAIN/AUX -COMMON TROLLEY</p> |  | <p>QUOTE NO.:<br/>IDENT-NO.: SK AZ<br/>F U/A S SH/T OF<br/>3 A E /</p> |  |
| <p>RUNWAY TOLERANCES</p>   |  | <p>DATE: 2/22/2011<br/>DRAWN: J.C.G.<br/>CHECKED: J.C.G.<br/>APPROVED: J.C.G.<br/>SCALE: 1"=10'-0"</p> |  | <p>DESCRIPTION: TOP-RUNNING DOUBLE-TORSION-BOX-GIRDER<br/>TYPE: MAIN/AUX -COMMON TROLLEY</p> |  | <p>QUOTE NO.:<br/>IDENT-NO.: SK AZ<br/>F U/A S SH/T OF<br/>3 A E /</p> |  |

FOR APPROVAL !!

CUSTOMER: GRAY CONST.  
MHI - PROJECT

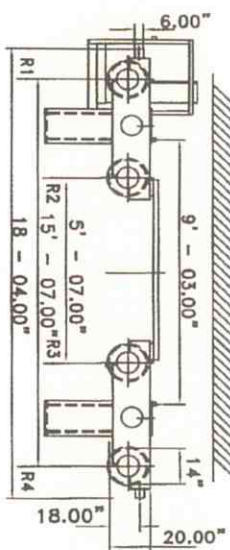




[ DRAWING NO. 1D ]

CRANE CAPACITY 90 TONS - 180,000 LBS.  
 CRANE CLASS, SERVICE CMAA CLASS-C  
 BUILT-UP  
 TROLLEY TYPE PHD-MILL-MASTER WINCH  
 HOIST TYPE -MAIN-HOOK  
 AUX -HOOK  
 CRANE TRAVEL SPEED 200 FPM, VFC. -4X-7.5 H.P.  
 TROLLEY TRAVEL SPEED 135 FPM, VFC. -2X-7.5 H.P.  
 HOISTING SPEED -MAIN-HOOK 28 FPM, VFC. -1X-100 H.P.  
 AUX -HOOK 18 FPM, VFC. -1X- 85 H.P.  
 ENDTRUCK TYPE PHD-MILLMASTER-BOGEY-TYPE  
 WHEEL LOAD MAX. R1=55,800 LBS., R2=58,900 LBS., R3=58,980 LBS., R4=56,125 LBS.  
 RUNWAY BEAM 85# ASCE  
 RAIL SIZE, (TYPE) 530'-00.00"  
 LENGTH OF RUNWAY 480V/3PH/60HZ  
 VOLTAGE  
 ELECTRIFICATION TYPE, MTG STD., 4-COND. HORIZONTAL  
 BOX GIRDER (DRIVE) WT. 32,300 LBS. W/WALKWAY  
 BOX GIRDER (IDLER) WT. 28,800 LBS.  
 ENDTRUCK QTY(2) WT. 11,600 LBS.  
 TROLLEY WT. 15,500 LBS.  
 TOTAL SHIPPING WT. 88,900 LBS. W/MISC. ELECTRICAL

REMARKS: DIMENSIONAL DATA BASED ON 44' - 00.00" ELEVATION TO TOP OF 85# ASCE CRANE RAIL ( RUNWAY HEIGHT ).



FOR APPROVAL !!

CUSTOMER: GRAY CONST.  
 MHI - PROJECT

|                   |           |                          |          |                 |                                       |             |          |
|-------------------|-----------|--------------------------|----------|-----------------|---------------------------------------|-------------|----------|
| RUNWAY TOLERANCES |           | DATE                     |          | INITIALS        |                                       | DESCRIPTION |          |
| 1. RUNWAY         | 1. RUNWAY | 2011                     | 2/22     | J.C.G.          | TOP-RUNNING DOUBLE-TORSION-BOX-GIRDER |             |          |
| 2. RUNWAY         | 2. RUNWAY | 3. DATE                  | 4. DATE  | 5. DATE         | 6. DATE                               | 7. DATE     | 8. DATE  |
| 9. DATE           | 10. DATE  | 11. DATE                 | 12. DATE | 13. DATE        | 14. DATE                              | 15. DATE    | 16. DATE |
| PHD-CRANE         |           | TYPE                     |          | ORIGINATED FROM |                                       | REPLACED BY |          |
| SYSTEMS           |           | MAIN/AUX -COMMON TROLLEY |          | REPLACED BY     |                                       | REPLACED BY |          |
| SCALE             |           | IDENT-NO.                |          | SCALE           |                                       | IDENT-NO.   |          |
| 1" = 10'          |           | SK AZ                    |          | 3 A E           |                                       | 3 A E       |          |
| 1" = 10'          |           | 1" = 10'                 |          | 1" = 10'        |                                       | 1" = 10'    |          |