

R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008  
200 Int'l Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

LETTER OF TRANSMITTAL

City of Portland, Portland Int. Jetport  
1001 Westbrook Street  
Portland, Maine 04102

Date:	09 Nov 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	Steel Observation Reports Terminal Enhancement, Portland Int. Jetport Portland, Maine		

We are sending you attached Steel Observation Results.

Date(s) Performed:

October 20, 21, 2010

Test (s) Performed

Steel Observation Reports & Ultrasonic Examination Reports

Remarks:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Copy To: Roy Williams: rsw@portlandmaine.gov  
Jim Stanislaski: jim\_stanislaski@gensler.com  
Cliff Takara: clifford\_takara@gensler.com  
Lacey Fogg: Lacey.Fogg@amec.com  
Mike Fusco: mfusco@tcco.com  
Shaun Winner: swinner@tcco.com  
Elizabeth O'Toole: eotoole@tcco.com  
TMM@portlandmaine.gove  
ldobson@portlandmaine.gov  
bcybulski@tcco.com  
rdixon@tcco.com  
Geoff Mitchell: gemitchell@tcco.com  
jeff.evans@amc.com

Signed:

**R. W. GILLESPIE & ASSOCIATES, INC.**  
 Geotechnical Engineering · Geohydrology · Materials Testing Services

**Corporate Office**  
 86 Industrial Park Rd, Ste 4  
 Saco, ME 04072  
 207-286-8008 · Fax 207-286-2882



**Branch Office**  
 100 International Dr, Ste 170  
 Portsmouth, NH 03801  
 603-427-0244 · Fax 603-430-2041

**ULTRASONIC EXAMINATION REPORT**

Project Name: TERMINAL ENCHANCEMENT OF PORTLAND JETPORT  
 Client/Project #: SS7-14  
 General Contractor: TURNER CONSTRUCTION  
 Welding Contractor: VF STERNS

Date: 10-20-10  
 Time on Site: 5.0  
 Mileage: 26  
 Tolls: 2.00

Weld Process: FCAW  
 Weld Designation (AWS): TC-4AA-F

Location: ZONE 5 LEVEL 5  
ZONE 6 LEVEL 3


Weld Identification Area	Transducer Angle	Form Face	Leg	Decibels				Length	Discontinuity			Remarks	
				Indication Level	Reference Level	Attenuation Factor	Indication Rating		Angular Distance (Sound Path)	Depth from "A" Surface	Distance		
											From X		From Y
A	B	C	D										
<u>XJ-78</u>	<u>70</u>	<u>A</u>			<u>79.9</u>							<u>TOP &amp; BOTTOM ACCEPT</u>	
<u>XH-78</u>													
<u>XH-77.5</u>													
<u>XH-77</u>													
<u>XH-76.5</u>													
<u>XH-26</u>													
<u>XF-26</u>													
<u>XF-76.5</u>													
<u>XF-77.5</u>													
<u>XF-78</u>													
<u>XF-78</u>	<u>11</u>	<u>11</u>											

Weld Identification Area	Transducer Angle	Form Face	Leg	Decibels				Discontinuity				Remarks	
				Indication Level	Reference Level	Attenuation Factor	Indication Rating	Length	Angular Distance (Sound Path)	Depth from "A" Surface	Distance		
											From X		From Y
A	B	C	D										
XF-Y7.570	A				19.9							TOP & BOTTOM ACCEPT	
XF-Y7												↓	
XF-Y6													
XF-Y55													

RWG&A personnel are represented on site solely to observe work of the identified contractors, to form opinions about the adequacy of those operations, and to report those opinions to RWG&A's client. The presence and activities of our field representative do not relieve any contractor from their obligations to meet contractual requirements. The contractor retains sole responsibility of site safety and the methods, operations, and sequences of construction.

Observations were verbally reported to:  
**RYAN DIXON, TURNER CONSTRUCTION**

Construction Technologist/CWI:  
*George S. Morrell*  
 Print Name/Title

Certification #  George S Morrell  
 CWI 04050311  
 QC1 EXP. 5/1/2013

MTG

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

Gensler

DBF ASSOCIATES, INC.  
1001 Westbrook Street  
Portland, Maine 04102  
Telephone: 603.763.1100

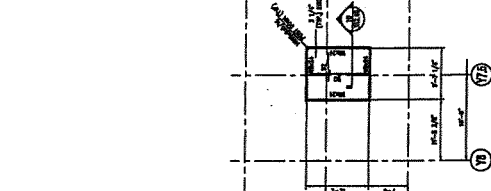
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PROJECT: PORTLAND INTERNATIONAL JETPORT  
 DRAWING NO.: S02.05.05  
 DATE: 07/27/09  
 SCALE: AS SHOWN  
 SHEET NO.: 1 OF 1

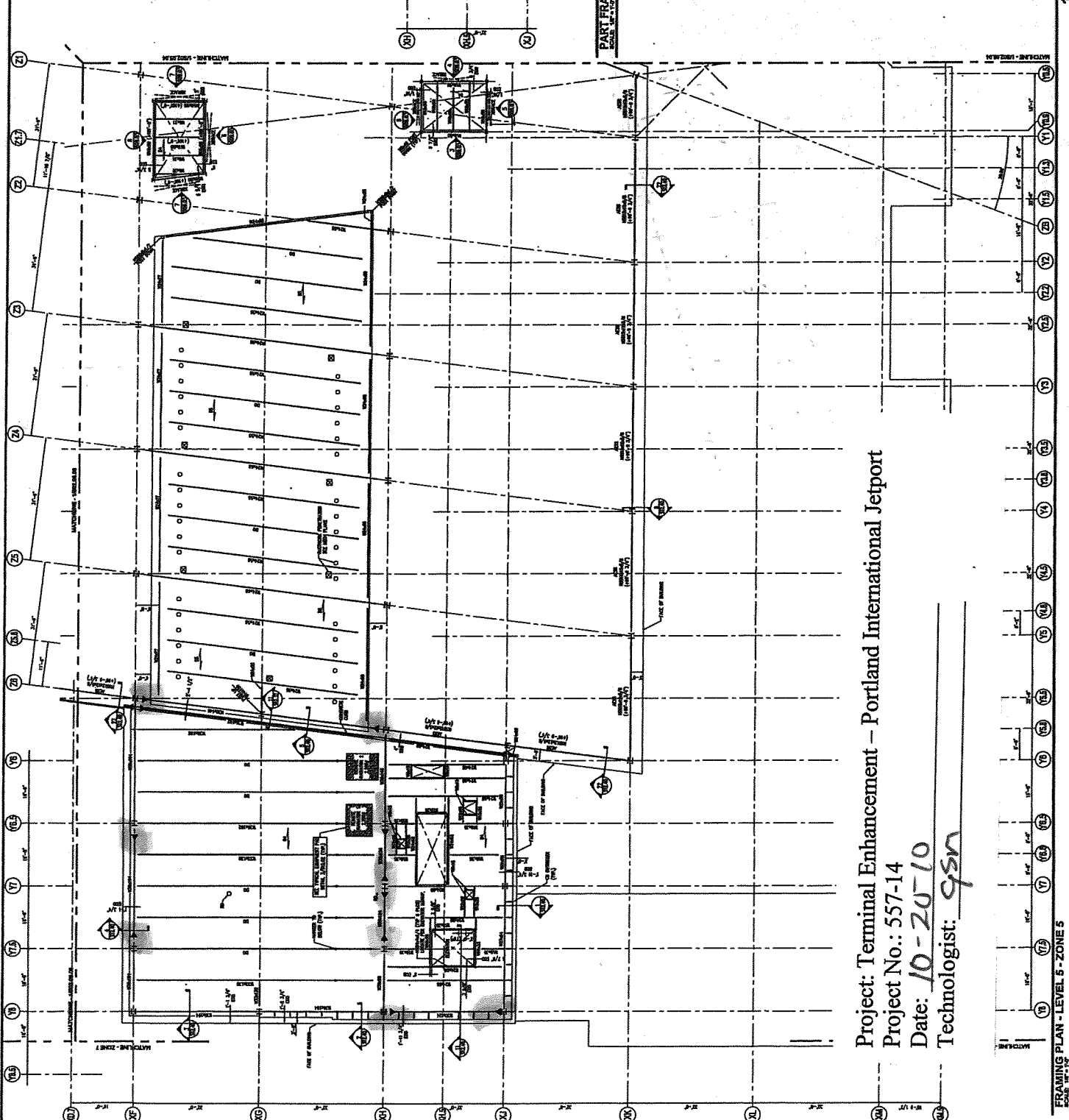
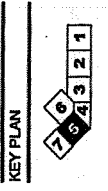
**SHEET NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
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**GENERAL NOTES**

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Project: Terminal Enhancement - Portland International Jetport  
 Project No.: 557-14  
 Date: 10-20-10  
 Technologist: GSN



**Corporate Office**

86 Industrial Park Rd, Ste 4  
Portsmouth, NH 03801  
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Portsmouth, NH 03801  
603-427-0244 • Fax 603-430-2041

**STEEL OBSERVATION REPORT**

Project Name: TERMINAL ENHANCEMENT OF PORTLAND JETPORT

Date: 10-20-10

Client/Project #: SS7-1A

Time on Site: -

General Contractor: TURNER CONSTRUCTION

Mileage: -

Welding Contractor: JF STEEL

Tolls: -

Approved Documents: FIELD WORK DRG NO. FWSK1, FWSK2, FWSK3, FW2005, FW2006, FW210A, FW2703, FW2704, FW2902, FW3102

Location/Observations: SEE ATTACHED FOR LOCATION

**TYPE OF WORK OBSERVED**

Bolted Connections: BOLTS REPLACED @ XK, Y3, XKY2, XGZA, XKY5, XKY4, XKY3,

Visually checked and found complete

Shear Connections: TAB WELDED TO WEB: XHZA, Z6XF, Z6XH, 2045A1 & 2045A2 STEEL PLATES WELDED TO COLUMNS.

Visually checked and found acceptable

Welded Connections:

Visually checked and found acceptable

Decking (Mezzanine/Roof):

Visually checked and found acceptable

Joist Welds/Joist Bridging:

Visually checked and found acceptable

Puddle Welds: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable

Screw Attachments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found complete

Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable  
 Visually checked and found complete

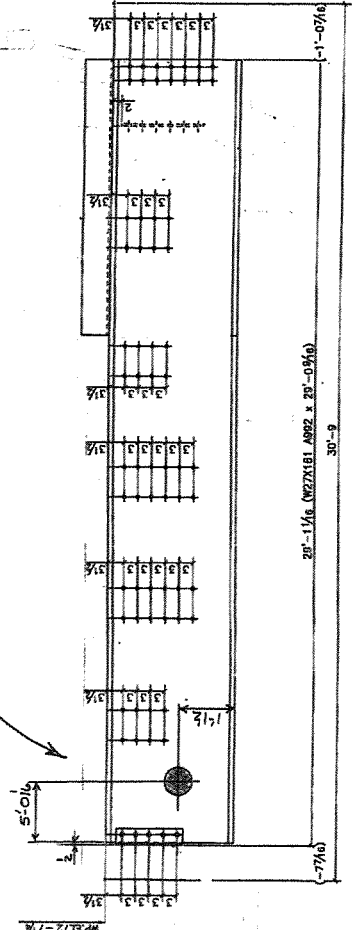
RWG&A personnel are represented on site solely to observe work of the identified contractors, to form opinions about the adequacy of those operations, and to report those opinions to RWG&A's client. The presence and activities of our field representative do not relieve any contractor from their obligations to meet contractual requirements. The contractor retains sole responsibility of site safety and the methods, operations, and sequences of construction.	Observations were verbally reported to: <i>RYAN DIXON, TURNER CONSTRUCTION</i>
	Construction Technologist/CWI: <i>George S Morrell</i>
	Print Name/Title George S Morrell CWI 04050311 QC1 EXP. 5/1/2013

Certification #:



*MR*

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



FIELD TO CUT NEW 4" ROUND B.M. PER AS SHOWN.

FIELD WORK DWS. FOR BEAM - 525B2

APP. NO. 4876  
 DES. NO. FW-525

**BILL OF MATERIAL**

ITEM NO.	QTY.	UNIT	DESC.	REMARKS

REV.	REMARKS	DATE	BY	CHK	APP	UDA
F						
E						
D						
C						
B						
A						
D						

ENG. REF. DWS. NO. 50439 680305 / CA# 43-62#279

DESCRIPTION: BEAM  
 MATERIAL: 60000 PSI  
 AREA: 12" x 18"  
 TYPE: PORTLAND CEMENT CONCRETE  
 FINISH: PORTLAND CEMENT MORTAR  
 AREA/PER: 12" x 18" x 29'-0"  
 COURSE: 12" x 18" x 29'-0"

DATE: 6-25-10  
 BY: [Signature]  
 CHK: [Signature]  
 APP: [Signature]

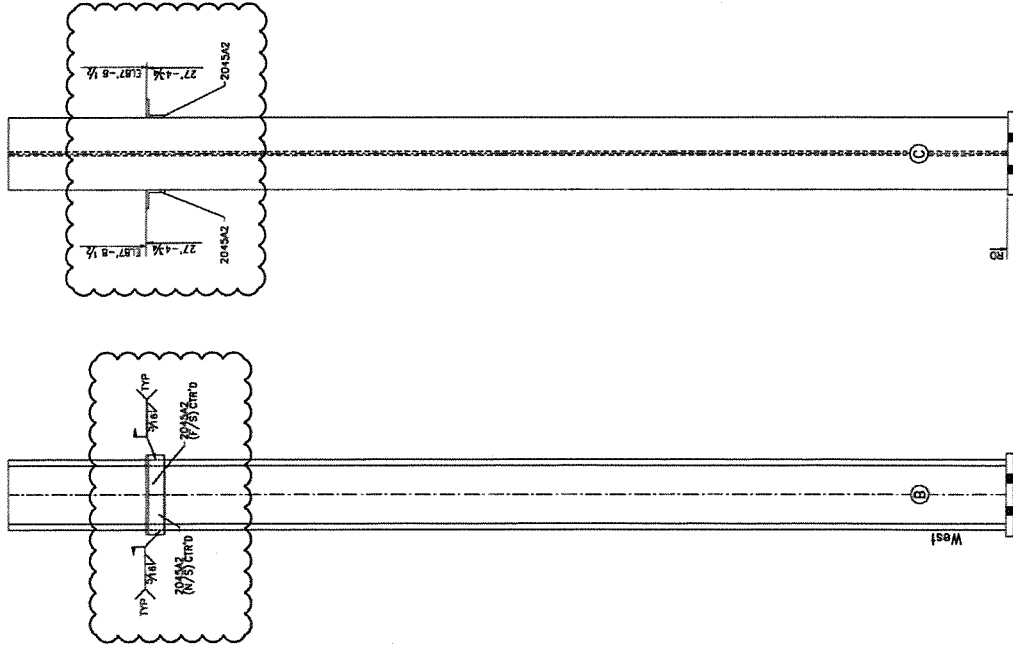
NEW ENGLAND DIVISION





**BILL OF MATERIAL**

NO.	QTY	UNIT	DESCRIPTION	REQ. NO.	DATE	BY	CHKD.	APP'D.
1	24	LINEAL FEET	FIELD WORK					



ONE FIELD WORK FW2006C1  
(OC. 1/8")

ENG. REF. DRG. NO.

REV.	REMARKS	DATE	CHK	APP	Q.A.
G					
F					
E					
D					
C					
B					
A					

**GENERAL NOTES**

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.  
 2. ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.  
 3. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.  
 4. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.  
 5. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.  
 6. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.  
 7. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.  
 8. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.  
 9. ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.  
 10. ALL DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.

**MATERIALS:** AS NOTED  
 ELCHROMIDE EPINK  
 HAZEL 15/18 DA LMS  
 PAINTS: 7/8 BA ANSALAC 100  
 SURFACE PREPARATION: NO BLAST  
 PAINT: NO PAINT

**DESCRIPTION:** FIELD WORK  
 ONE PORTLAND INTERNATIONAL ATPORT  
 ONE PORTLAND, MAINE  
 ARCH/WRK: DEPT ASSOCIATES, INC.  
 CURSORER: GENDER

U.S. N. 08/21/10  
 CHECKED BY: [Signature]  
 U.S. N. 08/21/10  
 APPROVED BY: [Signature]  
 U.S. A.

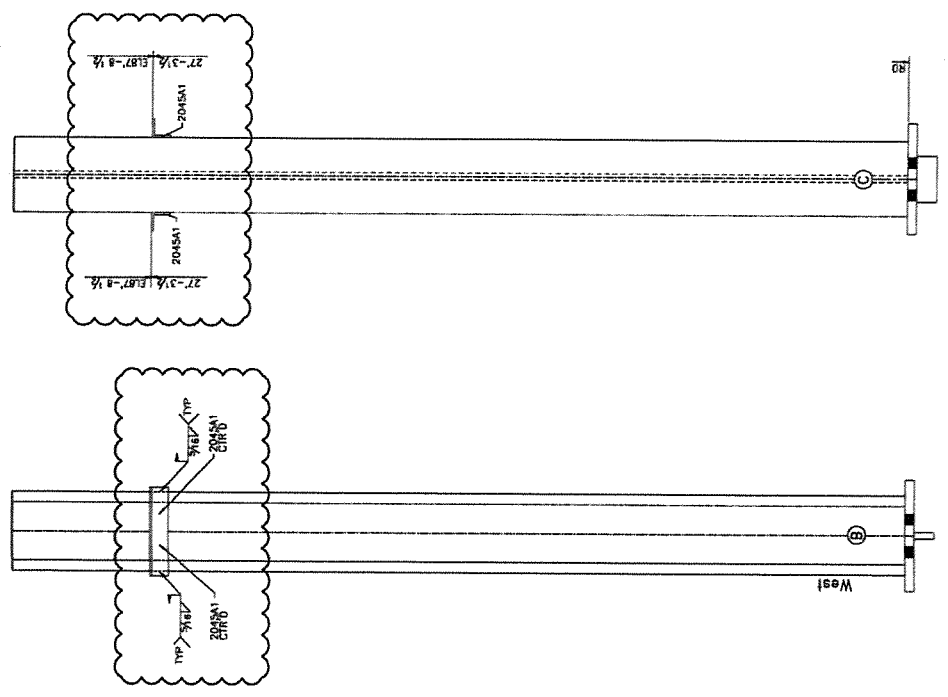
DATE: 08/21/10  
 DRAWING NO.: FW2006  
 REV. 4827

**Steel Company**  
 NEW ENGLAND DIVISION

AB BK C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

**BILL OF MATERIAL**

ITEM	QTY	DESCRIPTION	UNIT	DATE	BY
1	1	FIELD WORK			



ONE FIELD WORK FW2104C1  
(LOC 25/44)

ENG. REF. DRG. NO.

REV.	REMARKS	DATE	BY	CHK	APP	DA.
F						
E						
D						
C						
B						
A						
O						

**GENERAL NOTES**

MATERIAL: AS NOTED  
ELECTRODES: E7018  
WELDS: 1/8" DIA. W/60  
SURFACE PREPARATION: NO BLAST  
PART: NO PART

DESCRIPTION: FIELD WORK  
JOB: STEELWORK INDUSTRIAL TOWER  
JOB NO.: 4827  
JOB NO. INCL.: FW2104  
ARCH/INSP: DEB ASSOCIATES, INC.  
CUSTOMER: GENSER

DATE: 08/31/2010  
BY: [Signature]  
CHK: [Signature]  
APP: [Signature]  
DA: [Signature]

JOB NO.	4827
REV. NO.	FW2104

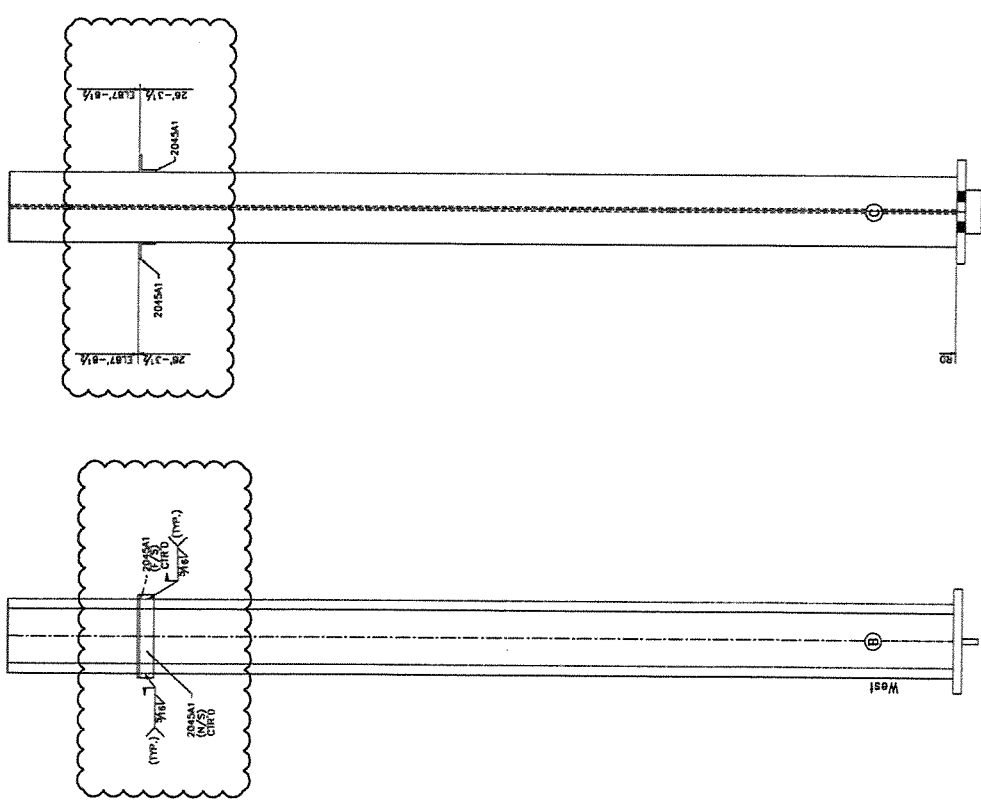


NEW ENGLAND DIVISION

AB B B C C F C X M P P P R T T Y X CS CP PP PP SH LA RE RE ST ST

BILL OF MATERIAL

ITEM NO.	QTY.	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	...	...	...	...
2	1	...	...	...	...
3	1	...	...	...	...



ONE FIELD WORK FW2703C1  
(OC #/R)

JOB NO.	FW2703
DWG. NO.	4827

ENG. REF. DNG. NO.

REV.	REVISION	DATE	BY	CHK	APP'D.
F					
E					
D					
C					
B					
A					
G					

**GENERAL NOTES**

1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.

2. SURFACE PREPARATION: NO BLAST

3. PAINT: NO PAINT

4. FIELD WORK

5. JOB NO. FW2703

6. DWG. NO. 4827

7. DATE: 08/31/2010

8. V.P.:

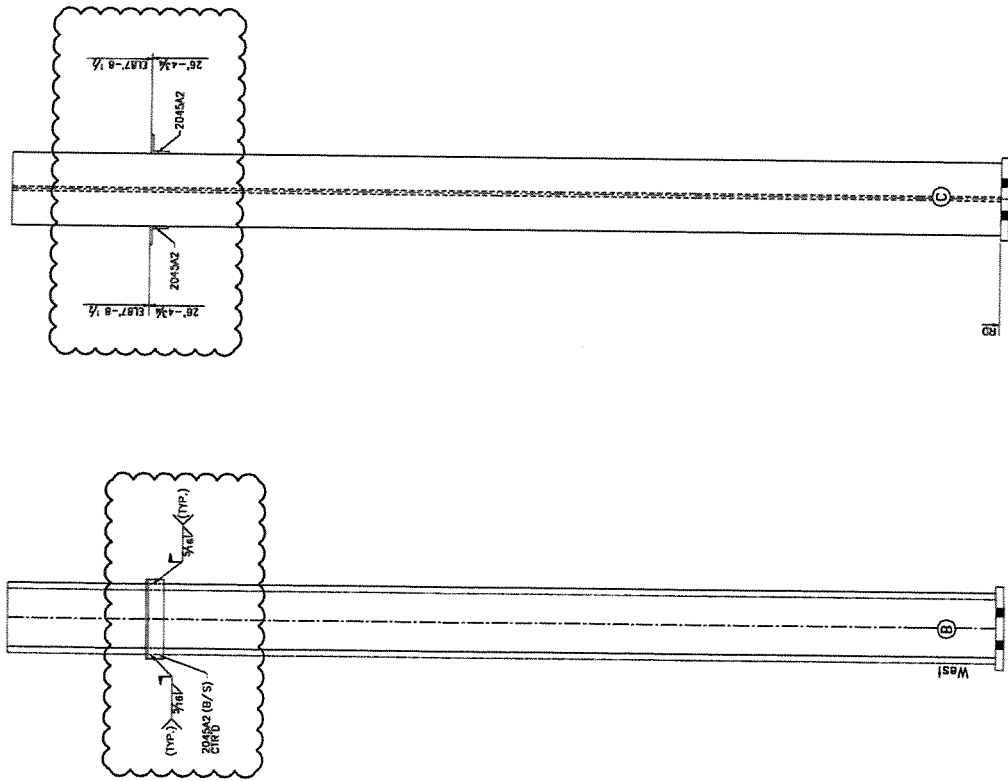
9. C.A.:

10. S.A.:

11. NEW ENGLAND DIVISION



BILL OF MATERIAL											
QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT
1	28-436 1/2	FLAT-8 1/2	1	2045A2		1	28-436 1/2	FLAT-8 1/2	1	2045A2	
1	28-436 1/2	FLAT-8 1/2	1	2045A2		1	28-436 1/2	FLAT-8 1/2	1	2045A2	



ONE FIELD WORK FW2704C1  
(LOC. #71)

ENG. REF. DRG. NO.

REV.	REMARKS	DATE	DRW	CHK	APP'D.
F					
E					
D					
C					
B					
A					
D					

**GENERAL NOTES**

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.

FINISHES: 12/18 DIL. END: 12/18 DIL. END. 12/18 DIL. END. 12/18 DIL. END.

SURFACE PREPARATION: NO BLAST

PAINT: NO PAINT

DESCRIPTION: FIELD WORK

JOB: PORTLAND INTERNATIONAL AIRPORT

PORTLAND, MAINE

INDUSTRY: GENT ASSOCIATES, INC.

CUSTOMER: CH2M HILL

DATE: 08/31/2010

SCALE: 1/4" = 1'-0"

APP'D. BY: [Signature]

DATE: 08/31/2010

JOB NO.: 4527

DRAWING NO.: FW2704

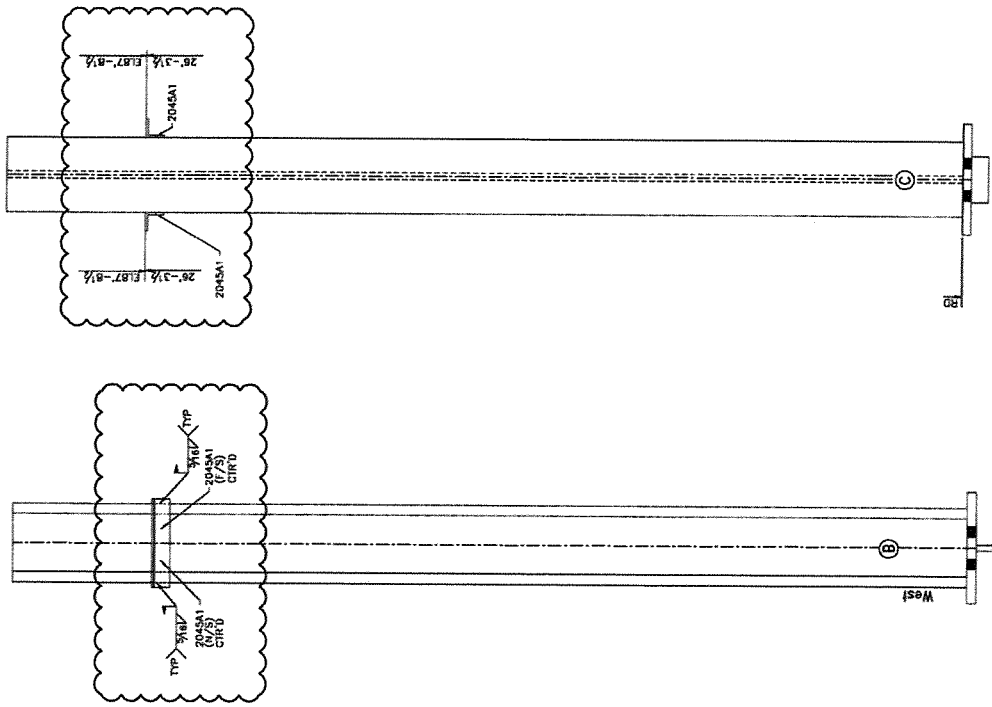
NEW ENGLAND DIVISION

JOB NO. 4527  
DRAWING NO. FW2704

NO 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

**BILL OF MATERIAL**

ITEM NO.	QTY	DESCRIPTION	UNIT	DATE	BY
1	1	FIELD WORK			



ONE FIELD WORK FW2902C1  
(SEE 15/15)

ENG. REF. DRG. NO.

REV.	DATE	BY	CHK	APP	D.A.
F					
E					
D					
C					
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0					

**GENERAL NOTES**

MATERIAL: AS NOTED  
 ELECTRODES: FINISH  
 ALL DIMENSIONS FROM FACE OF SHIP BODIES.  
 ALL DIMENSIONS TO BE  $\pm 0.005$  UNLESS OTHERWISE SPECIFIED.  
 SURFACE PREPARATION: NO BLAST  
 FINISH: NO PAINT

DESCRIPTION: FIELD WORK  
 JOB: PORTLAND INTERNATIONAL AIRPORT  
 PORTLAND, MAINE  
 ANALYST: WEST AEROSPACE, INC.  
 CUSTOMER: GENERAL

DATE: 08/21/2010  
 CHECKED BY: VJK  
 APPROVED BY: [Signature]

DATE: 08/21/2010  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]

DATE: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]

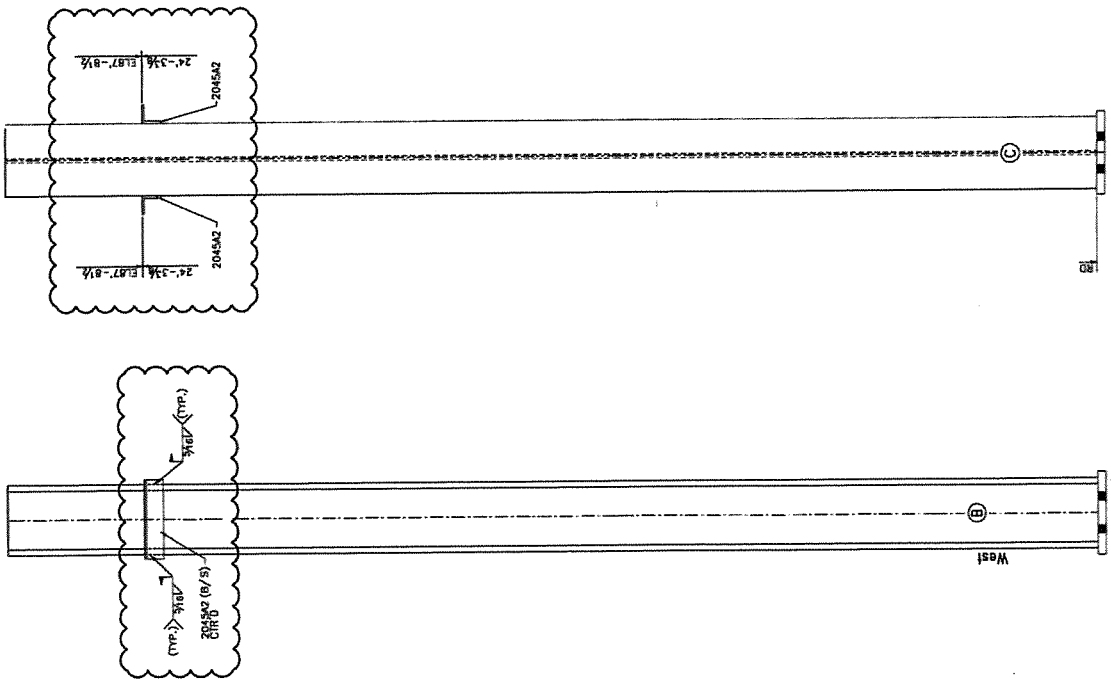
4827	FW2902
------	--------



NEW ENGLAND DIVISION

BILL OF MATERIAL

NO.	QTY	DESCRIPTION	UNIT	DATE	BY	CHK	APP	DATE
1	1	REINFORCEMENT	FIELD WORK					



ONE FIELD WORK FW3102C1  
(LOC: 21/XD)

JOB NO. 4827  
REV. NO. FW3102

ENG. REF. DRG. NO.

REV.	REMARKS	DATE	CHK	APP	DATE
F					
E					
D					
C					
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0					

GENERAL NOTES

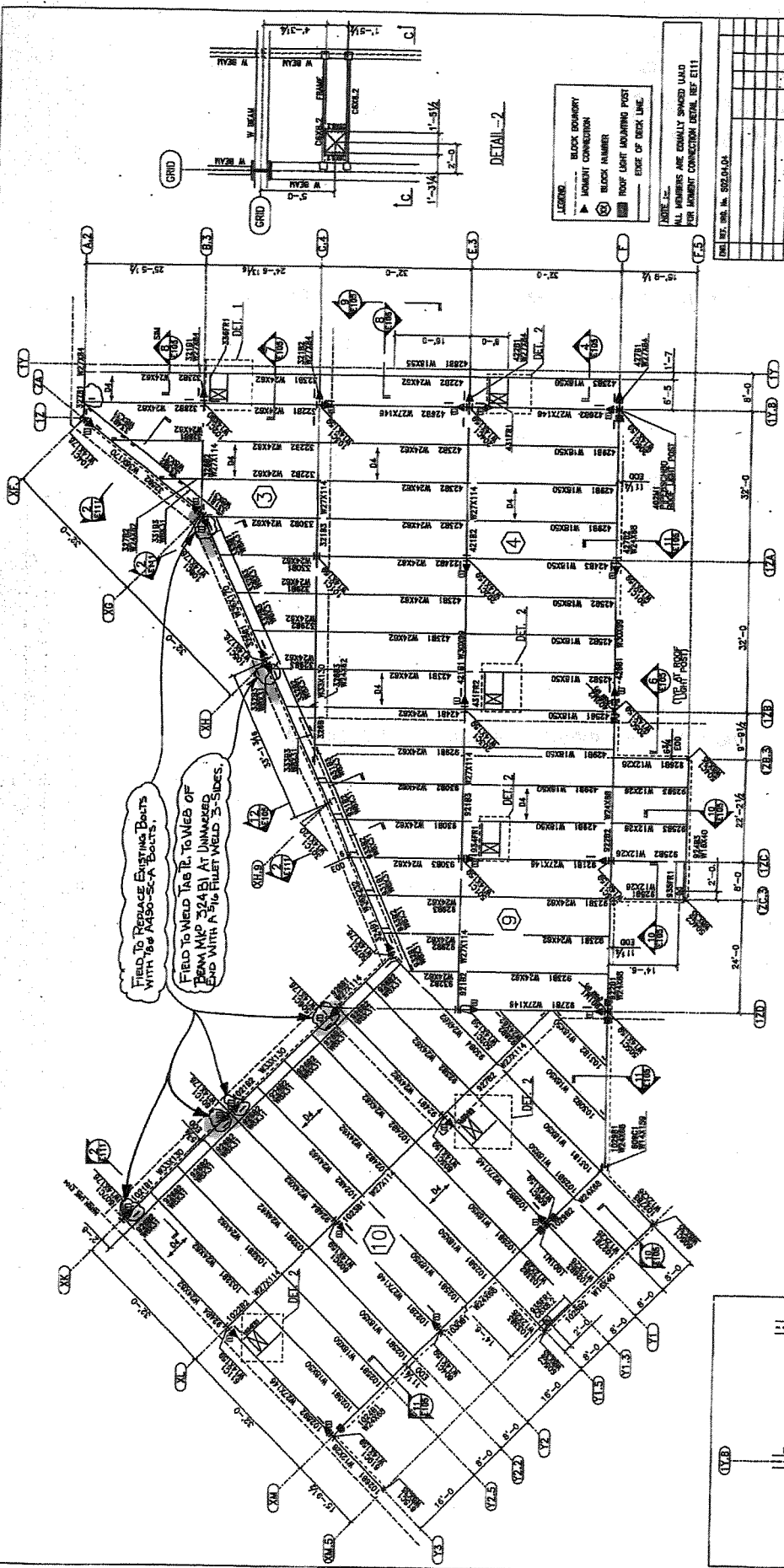
ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.  
 ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED.  
 DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.  
 DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.  
 DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.  
 DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.  
 DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED.  
 DIMENSIONS TO SURFACE UNLESS OTHERWISE NOTED.

DESCRIPTION : FIELD WORK  
 JOB : PORTLAND INTERNATIONAL AIRPORT  
 PORTLAND, MAINE  
 ARCH/INSTR : DEST ARCHITECTS, INC.  
 CUSTOMER : GENSLER

DATE: 08/23/2010  
 BY: VJK  
 APPROVED BY: [Signature]  
 DATE: 08/20/10

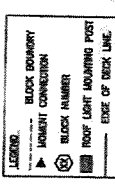
SCALE: AS SHOWN  
 SHEET NO.: 4827  
 TOTAL SHEETS: 1022

Steel Company  
 NEW ENGLAND DIVISION



FIELD TO REPLACE EXISTING BOULTS WITH 1/8" DIA. A490-SC-A BOULTS.

FIELD TO WELD 1/8" TO WELDS OF FROM MP 324(B) AT UNMARKED END WITH 1/16" FILLET WELD 3-SIDES.

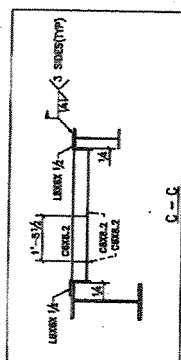


LEGEND:  
 - BLACK BOUNDARY  
 - MOMENT CONNECTION  
 - BLOCK NUMBER  
 - ROOF LIGHT MOUNTING POST  
 - EDGE OF DECK LINE

NOTE:  
 ALL MEMBERS ARE EXACTLY SPACED LOAD PER MOMENT CONNECTION DETAIL REF E111

NO.	REV.	DATE	BY	CHK	APP	CL
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LEVEL-4 ZONE 4 & 5 FRAMING PLAN  
 (TOP OF STEEL BL. 87'-7" U.N.O.)



NOTE:  
 THESE SECTION DRAWINGS WERE DEVELOPED TO PROVIDE A GENERAL UNDERSTANDING OF THE STRUCTURE. THEY ARE NOT TO BE USED FOR CONSTRUCTION OF THE STRUCTURE.

NOTE:  
 THESE SECTION DRAWINGS WERE DEVELOPED TO PROVIDE A GENERAL UNDERSTANDING OF THE STRUCTURE. THEY ARE NOT TO BE USED FOR CONSTRUCTION OF THE STRUCTURE.

GENERAL NOTES	
REVISIONS:	
NO.	DATE
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NEW ENGLAND DIVISION

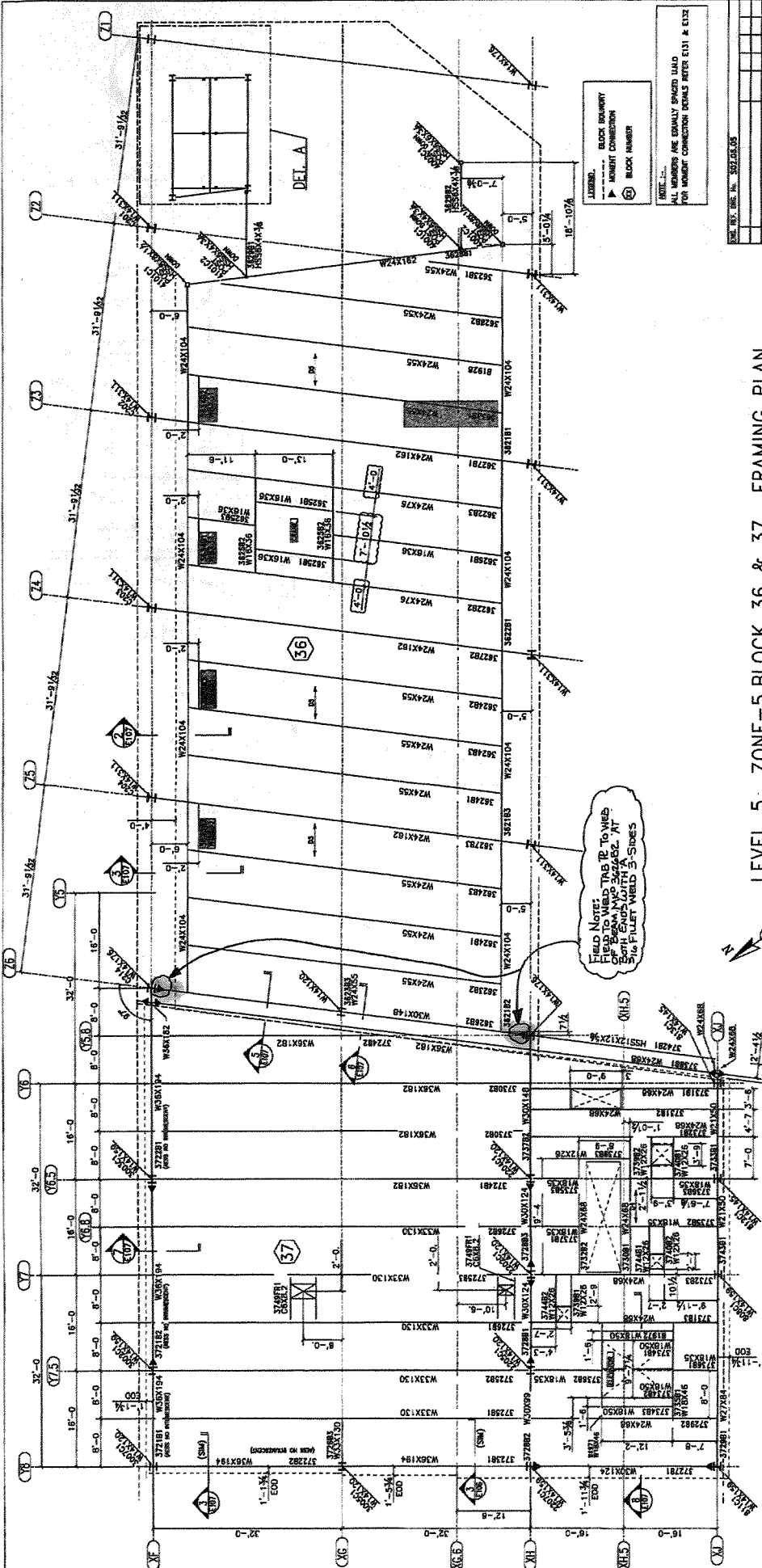
**Steel Company**

PROJECT: LEVEL-4 ZONE 4 & 5 FRAMING PLAN  
 SHEET: 15/16 OF 16 SHEETS  
 SURFACE PREPARATION: 1

DESIGNER: PORTLAND INTERNATIONAL REPORT  
 CHECKED: BEST ASSOCIATES, INC.  
 DATE: 11/10/09

DATE: 11/10/09



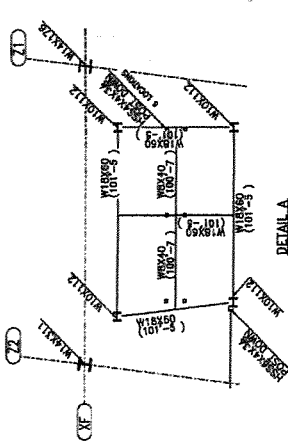
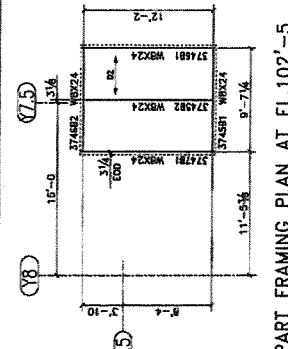


### LEVEL 5 ZONE-5, BLOCK 36 & 37 FRAMING PLAN (TOP OF STEEL LE 99'-8" U.N.O)

**TYPICAL BOLT DETAILS:**  
PLACE WASHER ON THE SLOT SKETCHES FOR ALL BOLTS  
USE 7/8" A325/307 FIELD BOLTS.  
FOR MOMENT CONNECTIONS USE 1" A490/SC-16A BOLTS.  
ANY DEVIATION TO THIS RULE WILL BE SHOWN WITH THESE SYMBOLS (I)

**LEGEND:**  
I 7/8" A490/SC-16A FIELD BOLTS.  
II A490/SC-16A BOLTS.

**NOTE:**  
THESE CONNECTIONS WERE DEVELOPED BY THE NEW ENGLAND DIVISION OF STEEL COMPANY, INC. FOR PORTLAND INTERNATIONAL AIRPORT. THE CLIENT IS PORTLAND INTERNATIONAL AIRPORT. THE DESIGN IS THE PROPERTY OF STEEL COMPANY, INC. AND SHALL BE KEPT CONFIDENTIAL. THE CLIENT ACCEPTS FULL RESPONSIBILITY AND LIABILITY OF SUCH DESIGN.

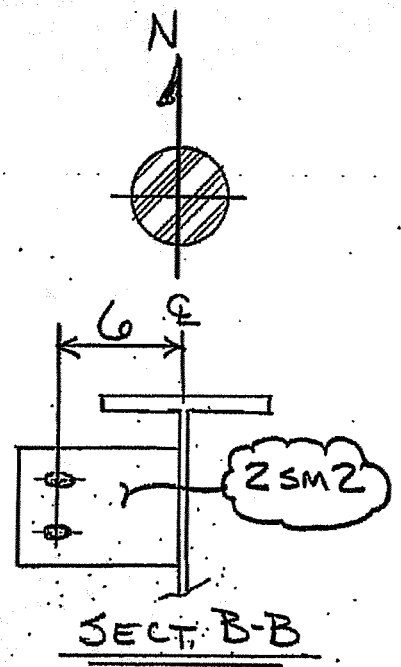
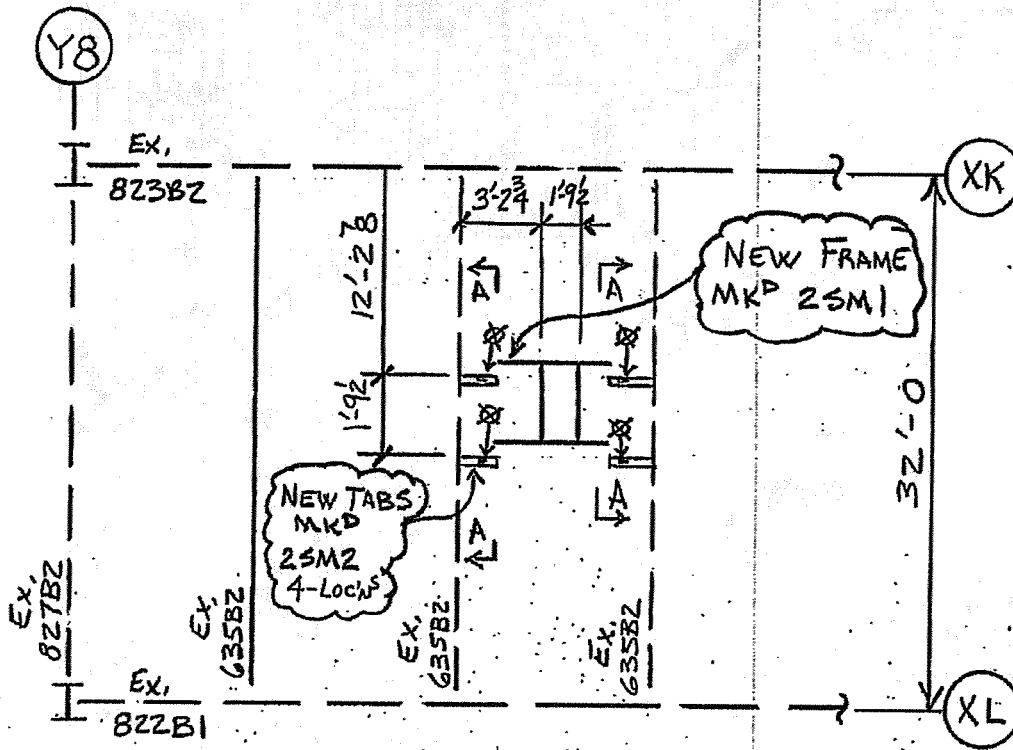


NO.	REV.	DATE	BY	CHKD	APP'D	DATE

**GENERAL NOTES:**

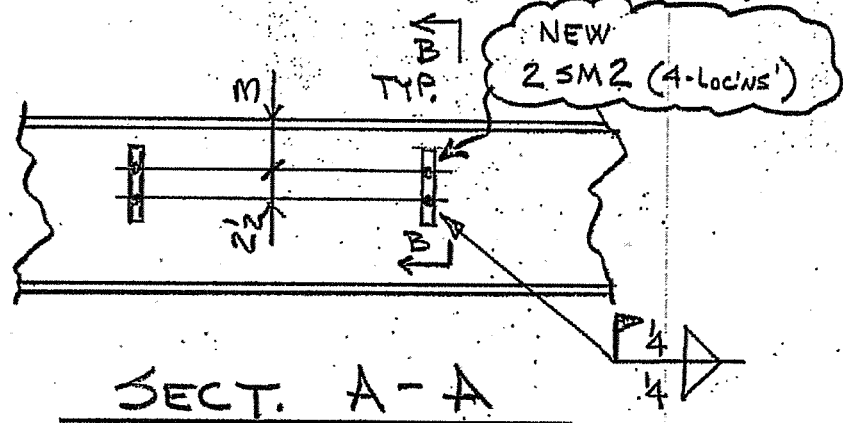
- ELECTRICALS: OTHER
- MATERIALS: 17/16 BA, US10
- BOLTS: 7/8 BA, US10
- PAINT: SURFACE PREPARATION:
- DESCRIPTION: LEVELS BLOCK NO.36 & 37-REINFORCEMENT (O&P) 48
- JOB: PORTLAND INTERNATIONAL AIRPORT
- OFFICE: PORTLAND, MAINE
- NEW ENGLAND DIVISION
- STEEL COMPANY, INC.
- CUSTOMER: GENSLER
- PROJECT NO.: 4825
- DATE: 02/11/14



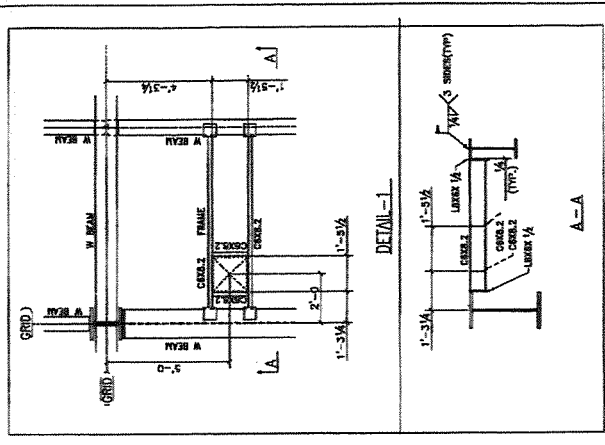
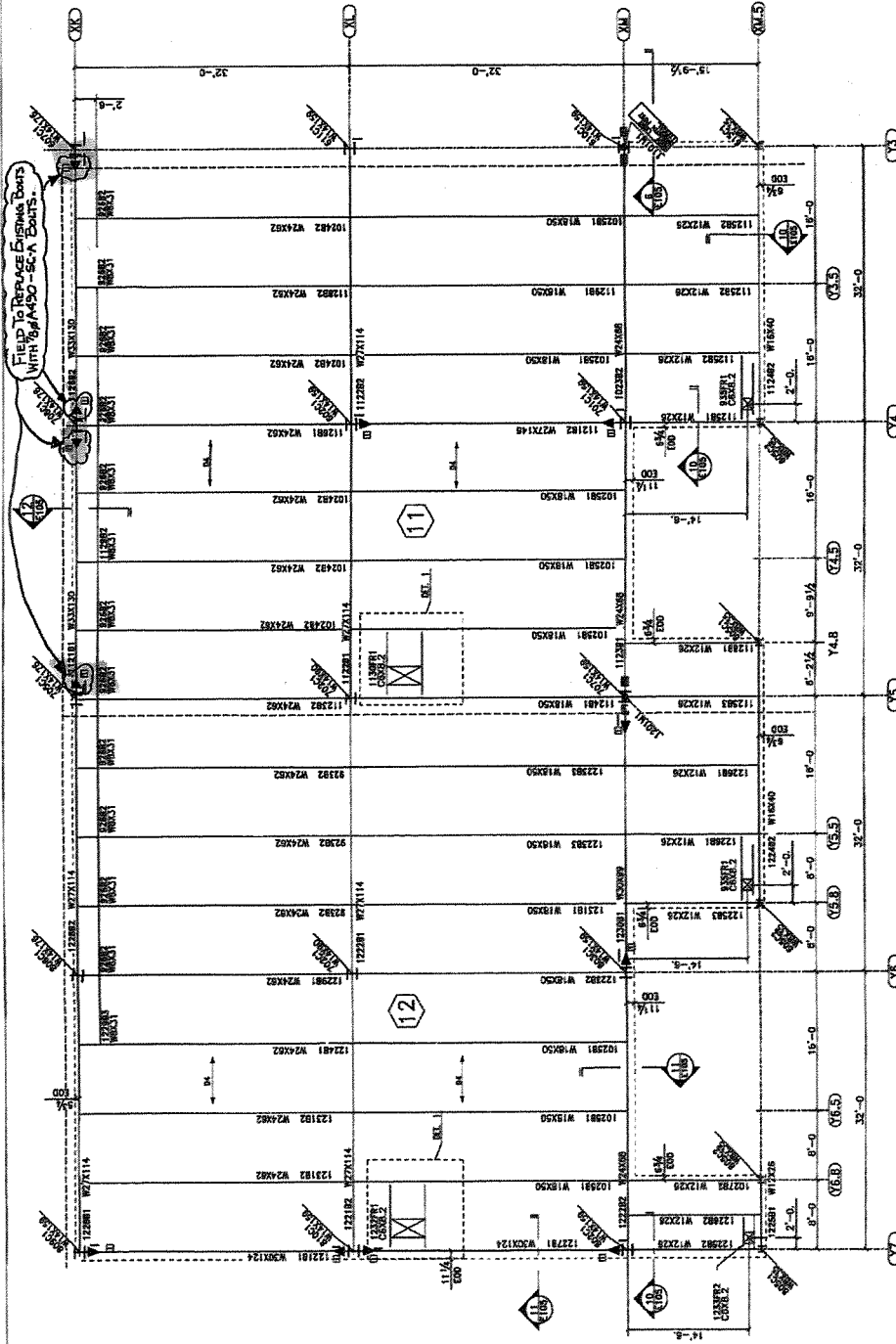


PART PLAN @ LEV. 3 ZONE 5 (TOS=72'-7 1/4")  
 (REF. E102, BLK # 8, CA #44)

FIELD TO  
 LOCATE + WELD  
 TABS MKD 2SM2 PER  
 PLAN + SECT. A-A.  
 THEN USE 3/8" x 1 1/4"  
 A325TC BOLTS TO  
 BOLT NEW FRAME  
 MKD 2SM1



DESCRIPTION: FW @ Level 3 Zone 5		DRAWN BY	DATE
JOB: Portland International Jetport Portland, ME	Arch / Engr: OEST Associates, INC.	KJK	8/26/2010
		CHECKED BY	DATE
CUSTOMER: Gensler		DLS	8/26/10
		APPROVED BY	DATE
		MJH	8/26/10
		Q.A.	DATE
		JOB NO.	DRG. NO.
		4825	FWSK1
		REV.	



TYPICAL BOLT DETAIL:  
 PLACE WASHER ON THE SLOT (TYPICAL FOR ALL BOLTS)  
 USE 7/8" DIA ANCHOR BOLT FIELD BOLTS  
 FOR MOMENT CONNECTIONS:  
 CASE 1 FOR 7/8" DIA BOLTS USE A307-SC7C-A BOLTS.  
 CASE 2 FOR 1" DIA BOLTS USE A490-SC7C-A BOLTS.  
 FOR COLUMN BRACES:  
 1" DIA A490-SC7C-A BOLTS.

REV	REVISION	DATE	BY	CHK	APP	DATE
1						
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5						

GENERAL NOTES

ILLUSTRATED: E204  
 SCALE: 1/4" = 1'-0"  
 SURFACE PREPARATION: PER AISC 308

DESCRIPTION: LEVEL-4 BLOCK NO. 11 & 12 (FIELDWORK) (C-15)  
 PORTLAND INTERNATIONAL JETPORT  
 PORTLAND, MAINE

DATE: 1/12/00  
 DRAWN: JLD  
 CHECKED: GCS

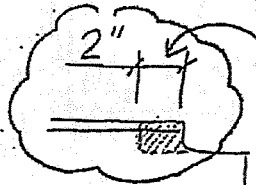
STEEL COMPANY  
 NEW ENGLAND DIVISION

LEVEL-4 ZONE 5 & 7 FRAMING PLAN  
 (TOP OF STEEL EL. 87'-7" U.N.O.)



NOTE: THESE CONNECTIONS WERE DEVELOPED BY STEEL COMPANY AND ARE SUBJECT TO THE DESIGN OF THE MEMBER IN ORDER TO BE USED IN CONNECTION WITH THE MEMBER TO BE CONNECTED TO. THE DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE MEMBER TO BE CONNECTED TO.

LEGEND:  
 - - - - - BLOCK BOUNDARY  
 - - - - - MOMENT CONNECTION  
 (C) BLOCK NUMBER  
 (M) ROOF LIGHT MOUNTING POST  
 --- EDGE OF DECK LINE



FIELD TO LENGTHEN  
THE COPE 2"

ORIGINAL LOAD = 121 KIP CAPACITY

WELD CAPACITY

$$d = 18 \quad C = 2.6295$$

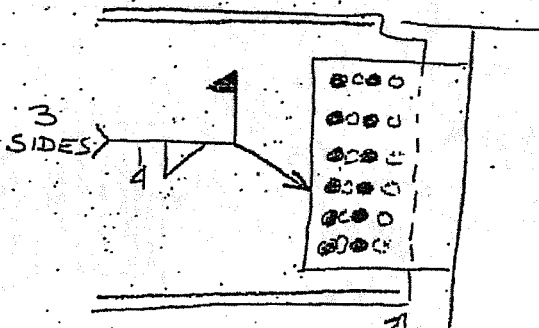
$$R = 8 \quad k = .444$$

$$a_f = 5.114$$

$$a_c = .5065$$


$$= 0.75 \times 2.6295 \times 4 \times 18$$

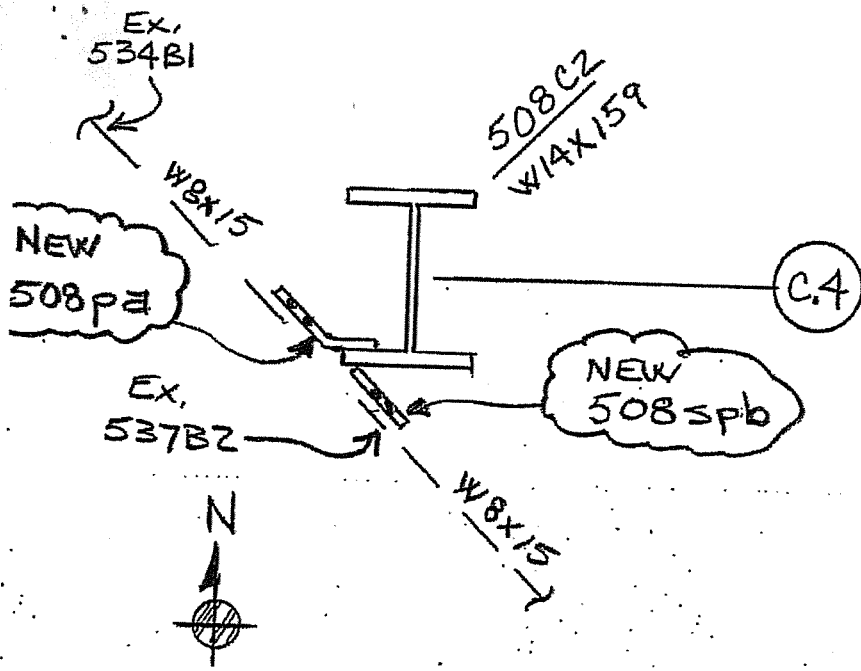
$$= 141 > 121 \text{ OK}$$



BEAM 2"  
TOO LONG  
BOLT HOLES  
DO NOT LINE  
UP.

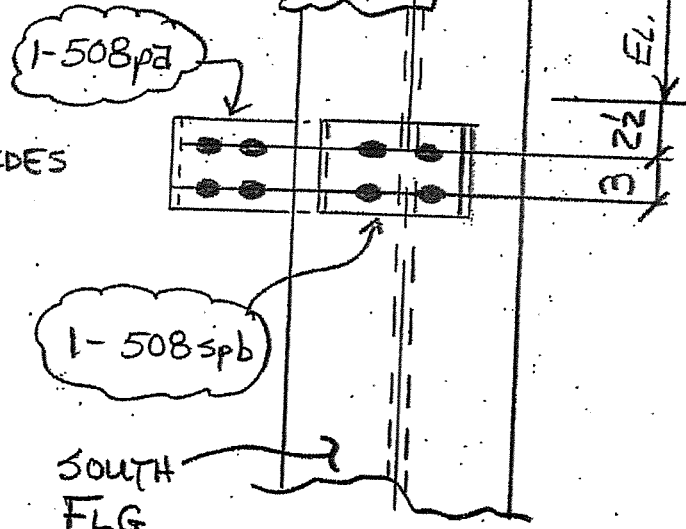
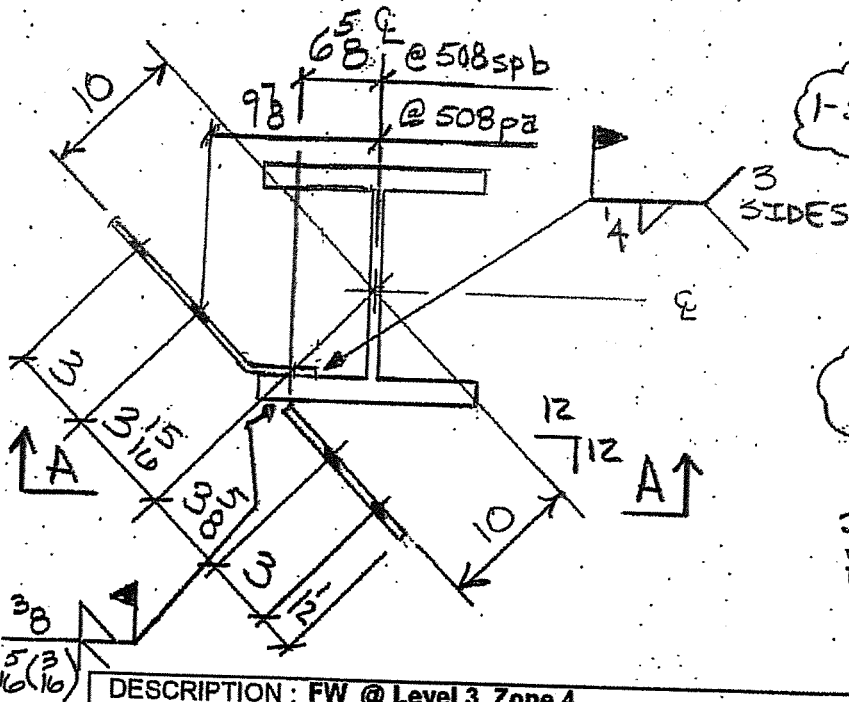
FIELDWORK AT UNMARKED END OF 328B2  
(REF: E103, BLOCK 3)

DESCRIPTION: FIELDWORK AT UNMARKED END OF 328B2		DRAWN BY	DATE
JOB: Portland International Jetport Portland, ME		DLS	8/31/2010
Arch / Engr: OEST Associates, INC.		CHECKED BY	DATE
CUSTOMER: Gensler		PR	8/31/10
		APPROVED BY	DATE
		ALM	8/31/10
		Q.A.	DATE
		JOB NO.	DRG. NO.
		4825	FWSK2
		REV.	



FIELD TO LOCATE AND WELD TAB PL'S MKD 508pa + 508spb AS SHOWN IN PLAN DETL + SECT A-A

PART PLAN @ ESCALATOR PITS  
(REF E101 TOS = 69'-1) BLK #5



SECT. A-A

DESCRIPTION: FW @ Level 3 Zone 4		DRAWN BY	DATE
JOB: Portland International Jetport Portland, ME		KJK	9/1/2010
Arch / Engr: OEST Associates, INC.		CHECKED BY	DATE
CUSTOMER: Gensler		PK	9/1/10
		APPROVED BY	DATE
		dlm	9/1/10
		Q.A.	DATE
		JOB NO.	DRG. NO.
		4825	FWSK3
		REV.	

Portland International  
Jetport  
1801 Westbrook Street  
Portland, Maine 04102

Gensler

MEET ASSOCIATES, INC.  
Engineers, Architects, Planners, Construction Managers

1801 Westbrook Street  
Portland, Maine 04102  
Phone: 603.633.8800

**SHEET NOTES**

1. REFER TO SHEET 502.03.01 FOR GENERAL NOTES.
2. REFER TO SHEET 502.03.02 FOR GENERAL NOTES.
3. REFER TO SHEET 502.03.03 FOR GENERAL NOTES.
4. REFER TO SHEET 502.03.04 FOR GENERAL NOTES.
5. REFER TO SHEET 502.03.05 FOR GENERAL NOTES.
6. REFER TO SHEET 502.03.06 FOR GENERAL NOTES.
7. REFER TO SHEET 502.03.07 FOR GENERAL NOTES.
8. REFER TO SHEET 502.03.08 FOR GENERAL NOTES.
9. REFER TO SHEET 502.03.09 FOR GENERAL NOTES.
10. REFER TO SHEET 502.03.10 FOR GENERAL NOTES.
11. REFER TO SHEET 502.03.11 FOR GENERAL NOTES.
12. REFER TO SHEET 502.03.12 FOR GENERAL NOTES.
13. REFER TO SHEET 502.03.13 FOR GENERAL NOTES.
14. REFER TO SHEET 502.03.14 FOR GENERAL NOTES.
15. REFER TO SHEET 502.03.15 FOR GENERAL NOTES.
16. REFER TO SHEET 502.03.16 FOR GENERAL NOTES.
17. REFER TO SHEET 502.03.17 FOR GENERAL NOTES.
18. REFER TO SHEET 502.03.18 FOR GENERAL NOTES.
19. REFER TO SHEET 502.03.19 FOR GENERAL NOTES.
20. REFER TO SHEET 502.03.20 FOR GENERAL NOTES.
21. REFER TO SHEET 502.03.21 FOR GENERAL NOTES.
22. REFER TO SHEET 502.03.22 FOR GENERAL NOTES.
23. REFER TO SHEET 502.03.23 FOR GENERAL NOTES.
24. REFER TO SHEET 502.03.24 FOR GENERAL NOTES.
25. REFER TO SHEET 502.03.25 FOR GENERAL NOTES.
26. REFER TO SHEET 502.03.26 FOR GENERAL NOTES.
27. REFER TO SHEET 502.03.27 FOR GENERAL NOTES.
28. REFER TO SHEET 502.03.28 FOR GENERAL NOTES.
29. REFER TO SHEET 502.03.29 FOR GENERAL NOTES.
30. REFER TO SHEET 502.03.30 FOR GENERAL NOTES.

Project: Terminal Enhancement - Portland International Jetport

Project No.: 557-14  
Date: 10-26-10  
Technologist: *gsm*

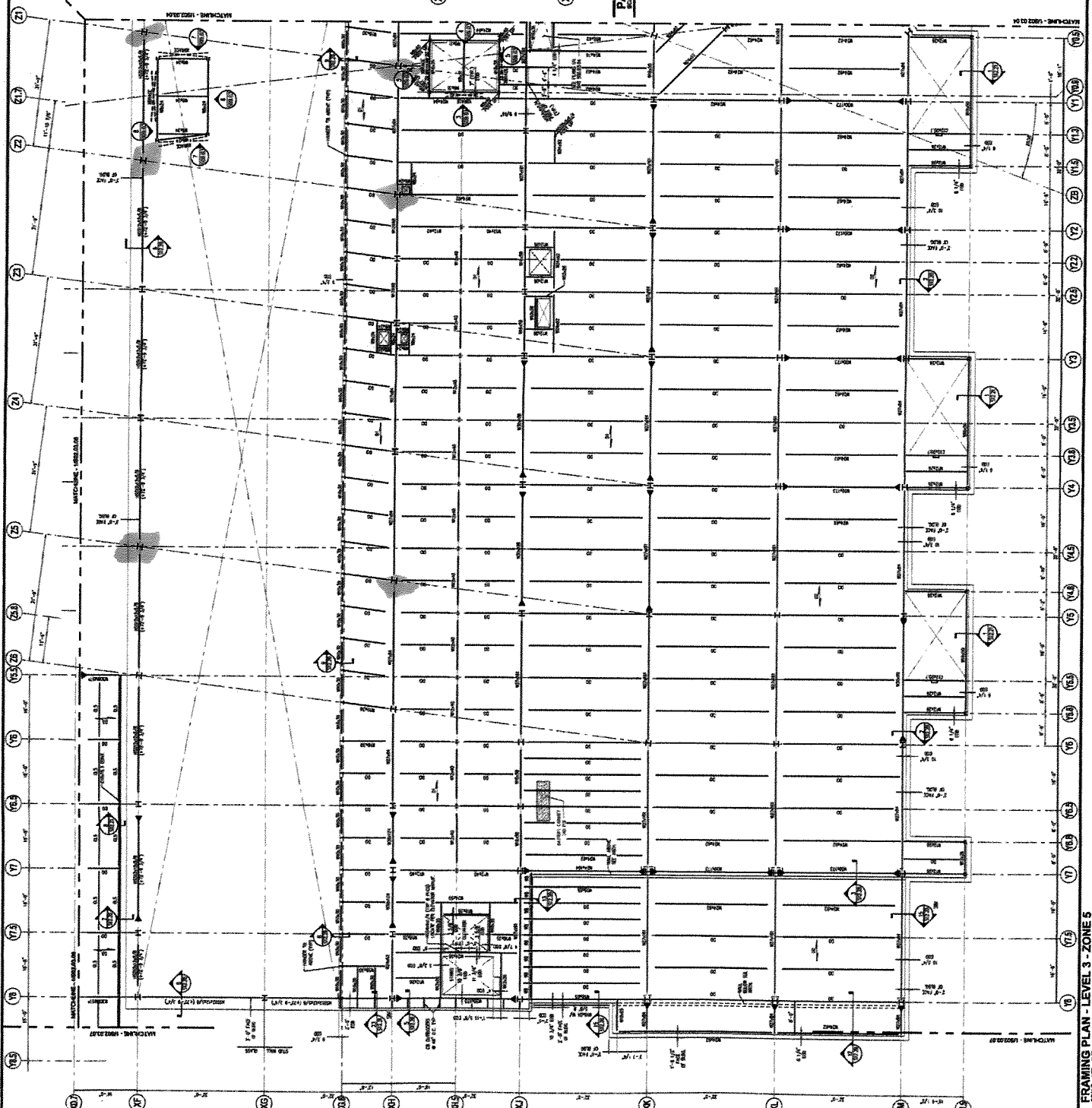
+68'-8" 72

1. REFER TO SHEET 502.03.01 FOR GENERAL NOTES.



MEET ASSOCIATES, INC.  
Engineers, Architects, Planners, Construction Managers  
1801 Westbrook Street  
Portland, Maine 04102  
Phone: 603.633.8800

S02.03.05



FRAMING PLAN - LEVEL 3 - ZONE 5  
SCALE: 1/8" = 1'-0"

KEY PLAN





**Corporate Office**  
 86 Industrial Park Rd, Ste 4  
 Saco, ME 04072  
 207-286-8008 · Fax 207-286-2882



**Branch Office**  
 100 International Dr, Ste 170  
 Portsmouth, NH 03801  
 603-427-0244 · Fax 603-430-2041

**ULTRASONIC EXAMINATION REPORT**

Project Name: TERMINAL ENLARGEMENT @ PORTLAND JETPORT  
 Client/Project #: 557-1A  
 General Contractor: TURNER CONSTRUCTION  
 Welding Contractor: JF STERNS

Date: 10-21-10  
 Time on Site: 4.0  
 Mileage: 26  
 Tolls: 2.0

Weld Process: FCAW Location: ZONE G, LEVEL 5  
 Weld Designation (AWS): TC-4AA-F


Weld Identification Area	Transducer Angle	Form Face	Leg	Decibels				Length	Discontinuity			Remarks	
				Indication Level	Reference Level	Attenuation Factor	Indication Rating		Angular Distance (Sound Path)	Depth from "A" Surface	Distance		
											From X		From Y
A	B	C	D										
XD-Z5	70	A			79.9							TOP & BOTTOM ACCEPT	
XD-Z4													
XD-Z3													
XC-Z3													
XC-Z4													
XC-Z5													

GEOTECHNICAL ENGINEERING  
 R. W. GILLESPIE & ASSOCIATES, INC.  
 86 INDUSTRIAL PARK RD, STE 4  
 SACO, ME 04072



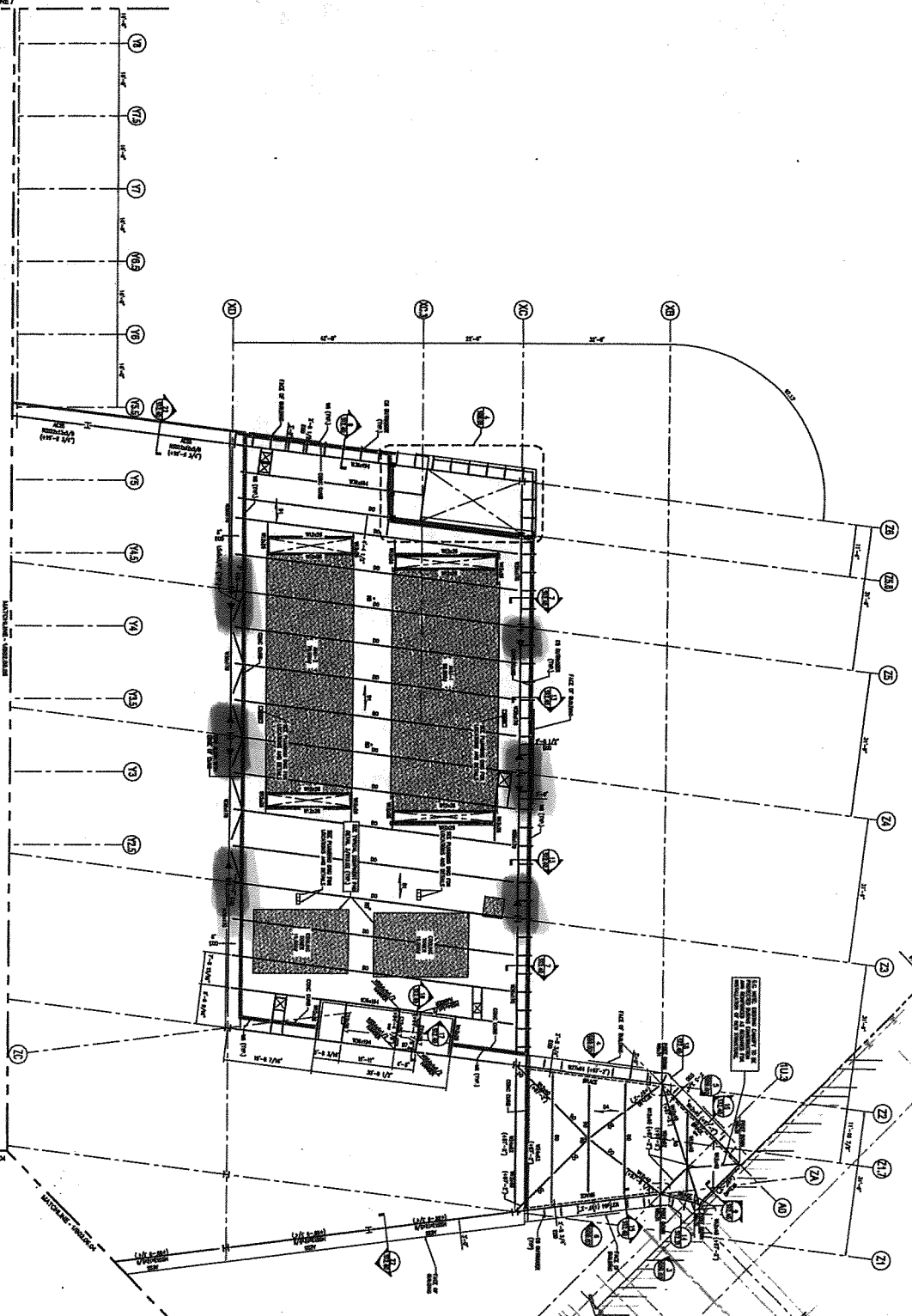
Weld Identification Area	Transducer Angle	Form Face	Leg	Decibels				Length	Discontinuity			Remarks	
				Indication Level	Reference Level	Attenuation Factor	Indication Rating		Angular Distance (Sound Path)	Depth from "A" Surface	Distance		
											From X		From Y
A	B	C	D										

RWG&A personnel are represented on site solely to observe work of the identified contractors, to form opinions about the adequacy of those operations, and to report those opinions to RWG&A's client. The presence and activities of our field representative do not relieve any contractor from their obligations to meet contractual requirements. The contractor retains sole responsibility of site safety and the methods, operations, and sequences of construction.

Observations were verbally reported to:  
**RYAN DIXON, TURNER CONSTRUCTION**  
 Construction Technologist/CWI:  
*George S Morrell*  
 Print Name/Title  
 Certification #:  

**George S Morrell**  
 CWI 04050311  
 QC1 EXP. 5/1/2013

MTG

Project: Terminal Enhancement - Portland International Jetport  
 Project No.: 557-14  
 Date: 10/21/10  
 Technologist: ESM



FRAMING PLAN - LEVEL 5 - ZONE 8

SHEET NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
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9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
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9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

KEY PLAN



Portland International  
 Jetport  
 1001 Westbrook Street  
 Portland, Maine 04102

Gensler

ASSOCIATES, INC.  
 2001 Spring St.  
 Portland, ME 04102  
 Phone: 603.733.1100  
 Fax: 603.733.1101



PROJECT: Terminal Enhancement - Portland International Jetport  
 SHEET: S02.05.06  
 DATE: 10/21/10  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]

S02.05.06

Corporate Office  
86 Industrial Park Rd, Ste 4  
Portsmouth, NH 03801  
207-286-8008 • Fax 207-286-2882



Branch Office  
200 International Dr, Ste 170  
Portsmouth, NH 03801  
603-427-0244 • Fax 603-430-2041

STEEL OBSERVATION REPORT

Project Name: TERMINAL ENHANCEMENT @ PORTLAND JETPORT Date: 10-21-10  
Client/Project #: 577-14 Time on Site: -  
General Contractor: TURNER CONSTRUCTION Mileage: -  
Welding Contractor: JF STEENS Tolls: -

Approved Documents: FIELD WORK: FW2, FW2, E112, FWSK9  
Location/Observations: SEE ATTACHED SKETCH

TYPE OF WORK OBSERVED

Bolted Connections: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found complete

Shear Connections: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable

Welded Connections: FURTHER WELDS FWSK9, FW2 & E112  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable

Decking (Mezzanine/Roof): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable

Joist Welds/Joist Bridging: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable

Puddle Welds: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable

Screw Attachments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found complete

Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  Visually checked and found acceptable  
 Visually checked and found complete

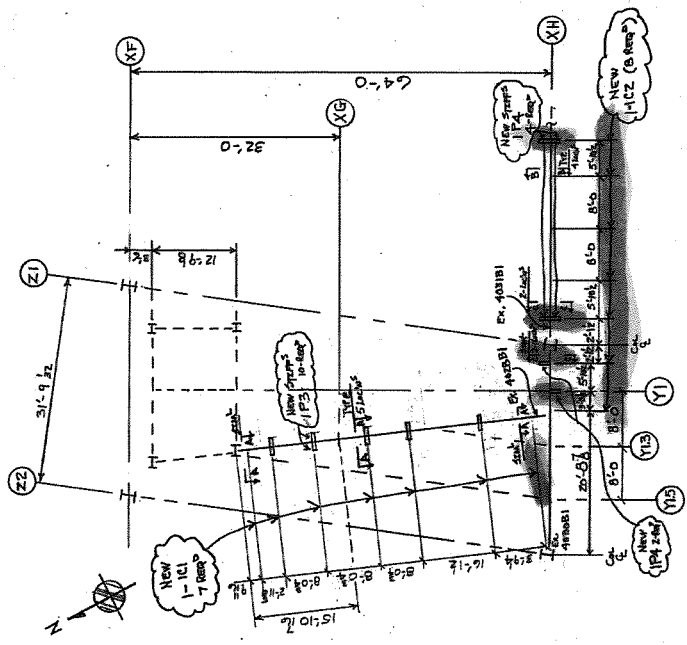
RWG&A personnel are represented on site solely to observe work of the identified contractors, to form opinions about the adequacy of those operations, and to report those opinions to RWG&A's client. The presence and activities of our field representative do not relieve any contractor from their obligations to meet contractual requirements. The contractor retains sole responsibility of site safety and the methods, operations, and sequences of construction.

Observations were verbally reported to:  
**RYAN DIXON, TURNER CONSTRUCTION**  
Construction Technologist/CWI:  
*George S Morrell*  
Print Name/Title  
George S Morrell  
CWI 04050311  
QC1 EXP. 5/1/2013

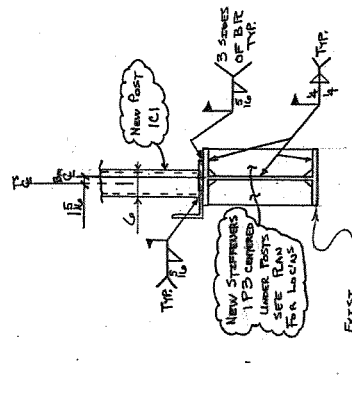


**ERECTOR NOTE:**  
 LOCATE + WELD NEW STEFFS MIP 6SP6ID.  
 + 6SP6ID PER PLAN + SECT'S A-A + C-C.  
 ALSO LOCATE 7-101 POSTS ALONG BM 4028B1.  
 AND 8-102 POSTS ON BMS 4030B1 + 4031B1 AS  
 SHOWN IN PLAN + SECT'S A-A + B-B + WELD.

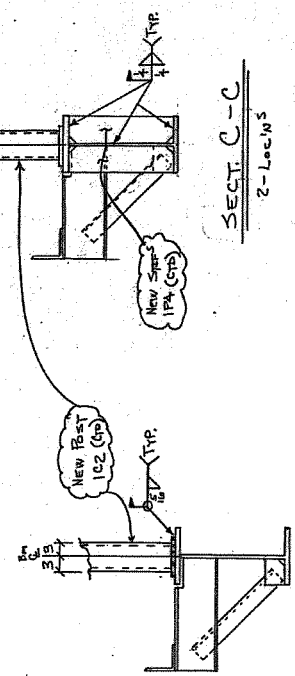
**FIELD NOTE: DIMENSIONS SHOWN  
 ARE TO C. OF POSTS + STEFF PLS.**



**PART PLAN @ LEVEL 4 ZONE 5 (REF. E112, ISS=05'03)**  
 Block # 40



**SECT A-A**  
 (5- Loc's)



**SECT B-B**  
 (4- Loc's)

**SECT C-C**  
 (2- Loc's)

**GENERAL NOTES:**  
 1. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.  
 2. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 3. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 4. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 5. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 6. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 7. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 8. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 9. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 10. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.

**MATERIAL:** A36 STEEL  
**FINISH:** GALVANNEAL  
**PAINT:** RUST PREVENTATIVE

**GENERAL NOTES:**  
 1. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.  
 2. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 3. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 4. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 5. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 6. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 7. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 8. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 9. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.  
 10. ALL DIMENSIONS ARE TO BE CHECKED BY THE FIELD.

**DESCRIPTION:** FIELD WALK @ LEVEL 4 ZONE 5 (215)  
**JOB:** PORTLAND INTERNATIONAL AIRPORT  
 PORTLAND, ME  
**ARCH / ENG:** OEST ASSOCIATES, INC.  
**OWNER:** GENSLER

**DATE:** 10/18/10  
**BY:** DLS  
**CHECKED BY:** BLS  
**DATE:** 10/18/10  
**BY:** DLS  
**CHECKED BY:** BLS

ENG. REF. DRG. NO. 502.04.05 / E112  
 + CAMP 54

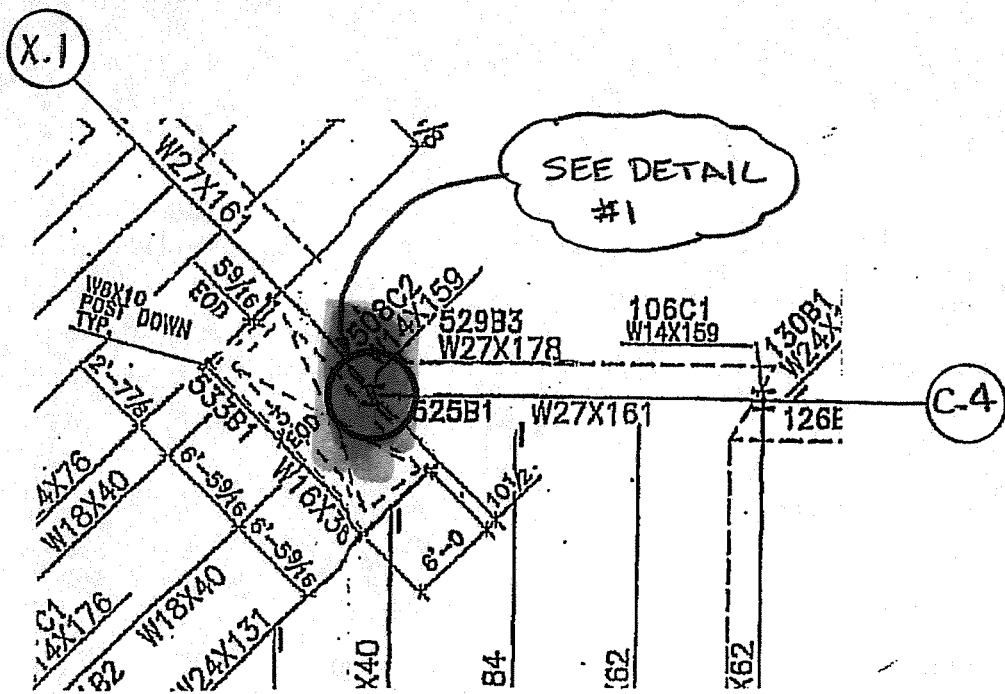
REV	DATE	DESCRIPTION
F		
E		
D		
C		
B		
A		
D		ORIGINAL ISSUE
REV		REVISIONS

**SECT B-B**  
 (4- Loc's)

**SECT A-A**  
 (5- Loc's)

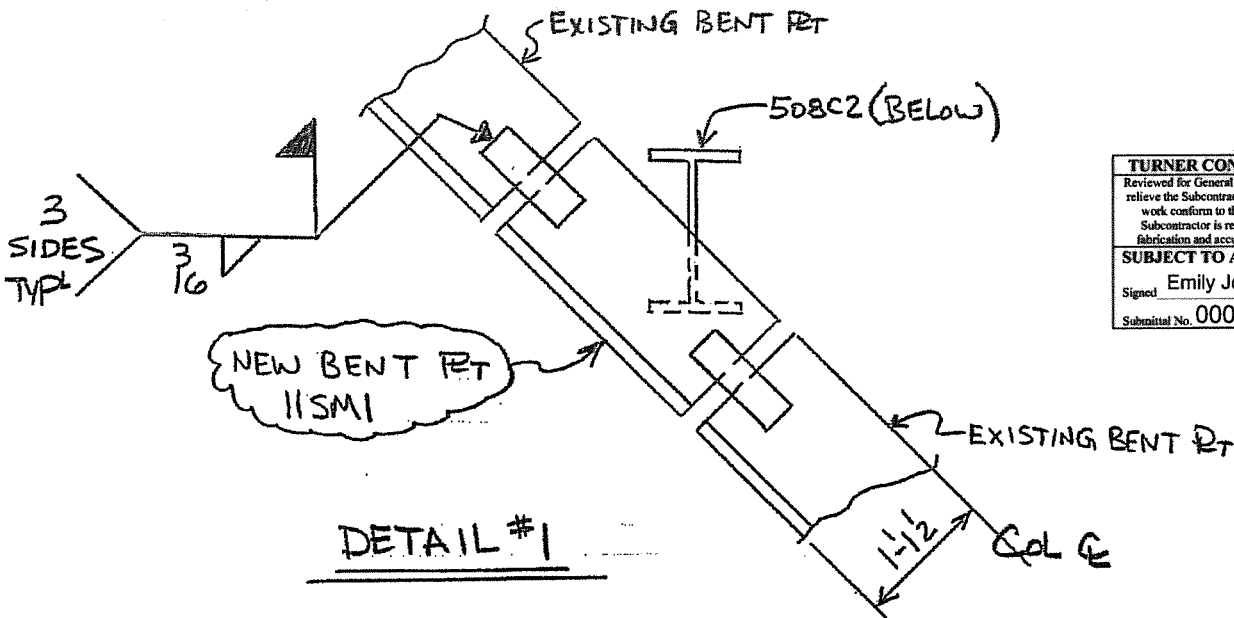
4927 Fw 2





**LEVEL 3 ZONE 4 & 5 FRAMING PLAN**

TOS = 72'-7 1/4 REF: E101



<b>TURNER CONSTRUCTION COMPANY</b>	
Reviewed for General Acceptance only. This review does not relieve the Subcontractor of the responsibility for making the work conform to the requirements of the contract. The Subcontractor is responsible for all dimensions, correct fabrication and accurate fit with the work of other trades.	
<b>SUBJECT TO ARCHITECTS APPROVAL</b>	
Signed	Emily Jorgensen Date Oct 20, 2010
Submittal No. 0008-051200-4	

DESCRIPTION:	FIELD WORK @ LEVEL 3	DRAWN BY	DATE
JOB:	PORTLAND INTERNATIONAL AIRPORT PORTLAND, MAINE OEST ASSOCIATES, INC	PR	10/18/10
CUSTOMER:	GENSLER	CHECKED BY	DATE
		KJK	10-19-10
		APPROVED BY	DATE
		MJA	10/19/10
		Q.A.	DATE
		JOB NO.	DRG. NO.
		4825	FWSK 9
		REV.	

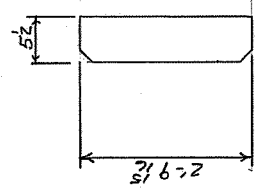
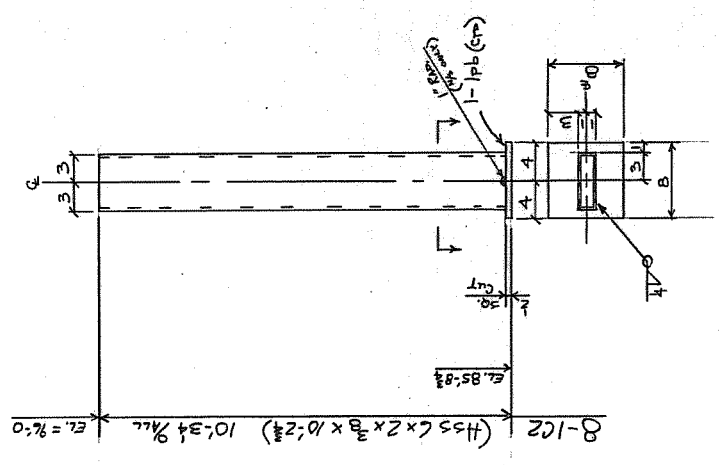
October 19 2010 - Original



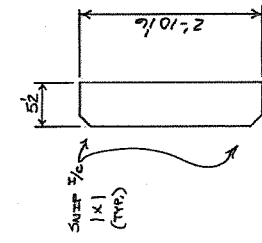
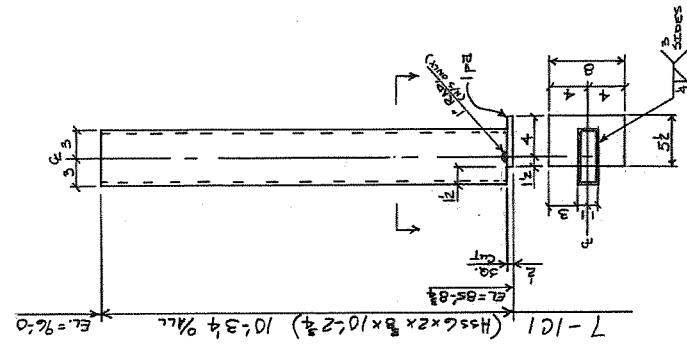
KIX/DLS

BILL OF MATERIAL

LINE NO.	QTY	UNIT	DESCRIPTION	REQ. NO.	DATE	BY	CHKD.	DATE	BY	CHKD.
1										
2										
3										
4										
5										
6										
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6-STIFF PILES MRP 1P4  
 RB x 5 1/2 x 2'-9 1/2  
 USE 6SP61D



10-STIFF PILES MRP 1P3  
 RB x 5 1/2 x 2'-10 1/2  
 USE 6SP62D

ENG. REF. DRG. NO. 502.04.05 / CA # 54

F	
E	
D	
C	
B	
A	
0	ORIGINAL ISSUE
REV	REVISIONS

REVISIONS: ETDLN  
 SURFACE PREP: 2 PART  
 PAINT: NO BLAST  
 NO PAINT

DESCRIPTION: CANTON WALL TUBE SUPPORTS  
 JOB: FORTLAND INTERNATIONAL AIRPORT  
 PORTLAND, ME  
 ARCH/ENGR: OEST ASSOCIATES, INC.  
 CUSTOMER: GENSLER

DATE: 10/10/10  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPR. BY: [Signature]

GENSLER COMPANY