

SHOP & ERECTION DRAWINGS - ESTIMATE GRADE

Intuit Santa Monica Flagship - Tenant Improvement (PHASE 1) | Structural Steel, Division 05

- 1. THIS SET IS ESTIMATE GRADE. IT IS NOT FOR FABRICATION AND CARRIES NO APPROVAL STATUS.
- 2. PIECEMARKS SHOWN CARRY THE 'E-' PREFIX AND ARE ESTIMATED, KEYED TO FRAMING-PLAN LOCATIONS.
REAL PIECEMARKS ARE ASSIGNED AT DETAILING. THE E- SET HERE IS IDENTICAL TO THE MEASURED TAKEOFF AND TO THE PRICING WORKBOOK - ONE MARK SET ACROSS ALL THREE.
- 3. MATERIAL: WIDE FLANGE ASTM A992 (50 KSI). ANGLES AND OTHER ASTM A36. PLATE ASTM A572 GR 50.
- 3a. THE LEVEL 2 OPENING IS AN ELLIPSE - 28.31 FT x 23.31 FT, ASPECT 1.215 - NOT A CIRCLE.
HSS ASTM A500 GRADE C. BOLTS ASTM F3125 GR A325-X. ANCHOR RODS ASTM F1554 GR 55. (S0.01 VI)
- 4. WELDING PER AWS D1.1. E7XTX ELECTRODES, LOW HYDROGEN. (S0.01 VI.4)
- 5. AESS - S0.01 NOTE VI.3 DESIGNATES ALL STEEL EXPOSED TO VIEW IN THE COMPLETED BUILDING AS ARCHITECTURALLY EXPOSED. NO CATEGORY AND NO EXTENT ARE SHOWN ON THE DRAWINGS. RFI-001 ITEM 2 RAISED. THIS SET CARRIES AN AESS BASIS ON THE OPENING FRAME AND GUARDRAIL POSTS.
- 6. WELD SIZE 'F' AND PLATE THICKNESS 't' AT 3/S7.01 ARE CALLED FROM A BOLTED BEAM CONNECTION SCHEDULE THAT IS NOT IN THE ISSUED SET. RFI-001 ITEM 4 RAISED. TYPICAL DETAILS ON S0.20 CARRIED.
- 7. CONTRACTOR TO FIELD VERIFY ALL EXISTING FRAMING AND EXISTING FOOTINGS PRIOR TO FABRICATION. (S1.01 NOTES 9 & 10, S1.02 NOTE 8)
- 8. EXISTING TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED OR SPLICED WITHOUT THE WRITTEN CONCURRENCE OF A REGISTERED DESIGN PROFESSIONAL. (S1.02 NOTE 9)
- 9. SHORING OF EXISTING JOISTS IS REQUIRED AT NEW BEAMS SUPPORTING EXISTING FRAMING. (1/S7.01)
- 10. LABOR HOURS ANNOTATED ON EACH DETAIL SHEET ARE ESTIMATING HOURS FOR THE PAGE-FLIP REVIEW.

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P1	Bill of Material - All Marks

ESTIMATING HOURS THIS PACKAGE: SHOP 106.2 hr FIELD 52.9 hr TOTAL 159.1 hr



B&B INDUSTRIAL WELDING
2709 N Ventura Ave, Ventura, CA
(805) 743-9006 | CSLB #1144422

COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP TI
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
DRAWN BY	B&B / 2026-07-29
CHECKED	K. LANGFORD / 2026-07-29

REV	DATE	DESCRIPTION
0	2026-07-29	ISSUED FOR ESTIMATE

COVER & GENERAL NOTES
JOB INTUIT-SM-P1

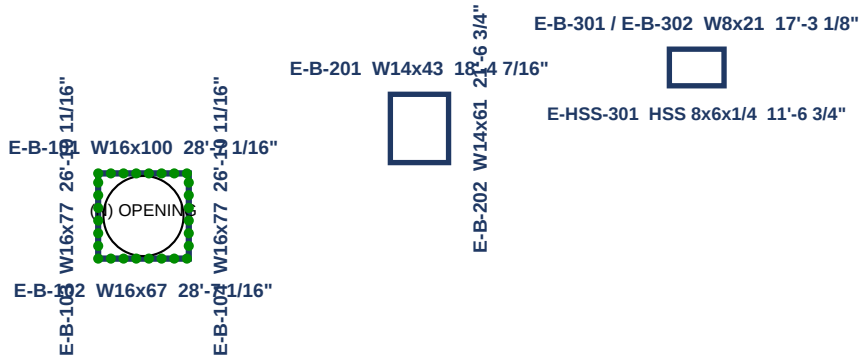
LEVEL 2 ERECTION PLAN - (N) STEEL ONLY

Mark layout keyed to S1.02. Grids per structural. Existing framing shown for reference only, not in scope.

LEGEND

- (N) STEEL - B&B SCOPE
- E-RP HSS 4x4 GUARDRAIL POST @ 48in O.C. MAX (44 TOTAL)

guardrail follows the ELLIPSE, perimeter 81 ft 2-1/4 in (21) - corner members, CONFIRM at detailing (RFI pending)



TOS PER S1.02. ALL DIMENSIONS FIELD VERIFY. SCALE: NTS - ESTIMATE GRADE.



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
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LEVEL 2 ERECTION PLAN
JOB INTUIT-SM-P1

ESTIMATE - NOT FOR FABRICATION

E-B-101 W16x100 28'-7 1/16"

Scope: Elliptical Opening Frame Governing detail: 1 & 2/S7.01 Qty: 1

WEB ELEVATION

W16x100 A992

28'-7 1/16" O/A



END A



END B

ESTIMATING HOURS

Shop fab / pc 9.50 hr

Field erect / pc 5.00 hr

Qty 1

SHOP TOTAL 9.50 hr

FIELD TOTAL 5.00 hr

CONNECTION / FABRICATION NOTES

Frame member, north. AESS basis - ground smooth welds
Governing detail 1 & 2/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-101	W16x100 Elliptical Opening Frame	28'-7 1/16"	A992	2859	14.50



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
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E-B-101
JOB INTUIT-SM-P1

B01

ESTIMATE - NOT FOR FABRICATION

E-B-102 W16x67 28'-7 1/16"

Scope: Elliptical Opening Frame Governing detail: 3/S7.01 Qty: 1

WEB ELEVATION

W16x67 A992

28'-7 1/16" O/A



END A



END B

ESTIMATING HOURS

Shop fab / pc 14.00 hr

Field erect / pc 5.00 hr

Qty 1

SHOP TOTAL 14.00 hr

FIELD TOTAL 5.00 hr

CONNECTION / FABRICATION NOTES

Frame member, south. Carries the shaped plate closure following the ELLIPSE + stiffener PL @ 32in o.c.
Governing detail 3/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-102	W16x67 Elliptical Opening Frame	28'-7 1/16"	A992	1916	19.00



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
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0	2026-07-29	ISSUED FOR ESTIMATE

E-B-102
JOB INTUIT-SM-P1

B02

ESTIMATE - NOT FOR FABRICATION

E-B-103 W16x77 27'-8 1/16"

Scope: Elliptical Opening Frame Governing detail: 1 & 2/S7.01 Qty: 1

WEB ELEVATION

W16x77 A992

27'-8 1/16" O/A



END A



END B

ESTIMATING HOURS

Shop fab / pc 9.00 hr

Field erect / pc 4.50 hr

Qty 1

SHOP TOTAL 9.00 hr

FIELD TOTAL 4.50 hr

CONNECTION / FABRICATION NOTES

Frame member, west
Governing detail 1 & 2/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-103	W16x77 Elliptical Opening Frame	27'-8 1/16"	A992	2131	13.50



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
DRAWN BY	B&B / 2026-07-29
CHECKED	K. LANGFORD / 2026-07-29

REV	DATE	DESCRIPTION
0	2026-07-29	ISSUED FOR ESTIMATE

E-B-103
JOB INTUIT-SM-P1

B03

ESTIMATE - NOT FOR FABRICATION

E-B-104 W16x77 27'-7 5/16"

Scope: Elliptical Opening Frame Governing detail: 1 & 2/S7.01 Qty: 1

WEB ELEVATION

W16x77 A992

27'-7 5/16" O/A



END A



END B

ESTIMATING HOURS

Shop fab / pc 9.00 hr

Field erect / pc 4.50 hr

Qty 1

SHOP TOTAL 9.00 hr

FIELD TOTAL 4.50 hr

CONNECTION / FABRICATION NOTES

Frame member, east
Governing detail 1 & 2/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-104	W16x77 Elliptical Opening Frame	27'-7 5/16"	A992	2126	13.50



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
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0	2026-07-29	ISSUED FOR ESTIMATE

E-B-104
JOB INTUIT-SM-P1

B04

ESTIMATE - NOT FOR FABRICATION

E-HSS-102 HSS 8x4x1/4 10'-6 1/4"

Scope: Elliptical Opening Frame Governing detail: 2 & 6/S7.01 Qty: 4

WEB ELEVATION

HSS 8x4x1/4 A500 Gr C

10'-6 1/4" O/A



END A



END B

ESTIMATING HOURS

Shop fab / pc 5.00 hr

Field erect / pc 2.50 hr

Qty 4

SHOP TOTAL 20.00 hr

FIELD TOTAL 10.00 hr

CONNECTION / FABRICATION NOTES

(N) FLAT HSS (LOW) corner chords - 4 DIFFERENT lengths (ellipse, not circle): 10'-6 1/4, 10'-2 1/4, 10'-5 3/4, 10'-1 1

Governing detail 2 & 6/S7.01. Typical steel details per S0.20.

Weld size and connection plate thickness per the Bolted Beam Connection Schedule -

NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.

Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.

Shop prime; HDG where indicated. AECS basis carried where exposed (RFI-001 Item 2).

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	4	E-HSS-102	HSS 8x4x1/4 Elliptical Opening Frame	10'-6 1/4"	A500 Gr C	800	30.00



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MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
DRAWN BY	B&B / 2026-07-29
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REV	DATE	DESCRIPTION
0	2026-07-29	ISSUED FOR ESTIMATE

E-HSS-102
JOB INTUIT-SM-P1

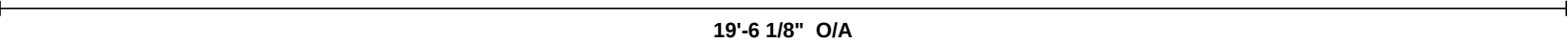
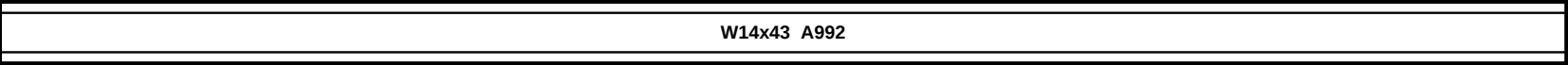
B05

ESTIMATE - NOT FOR FABRICATION

E-B-201 W14x43 19'-6 1/8"

Scope: Rectangular Opening Governing detail: 1/S7.01 Qty: 1

WEB ELEVATION



CONNECTION / FABRICATION NOTES

(N) beam supporting existing joists - hanger to match existing
Governing detail 1/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).



END A



END B

ESTIMATING HOURS

Shop fab / pc 6.00 hr
Field erect / pc 3.00 hr
Qty 1

SHOP TOTAL 6.00 hr
FIELD TOTAL 3.00 hr

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-201	W14x43 Rectangular Opening	19'-6 1/8"	A992	839	9.00



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
DRAWN BY	B&B / 2026-07-29
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REV	DATE	DESCRIPTION
0	2026-07-29	ISSUED FOR ESTIMATE

E-B-201
JOB INTUIT-SM-P1

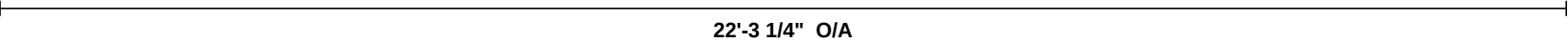
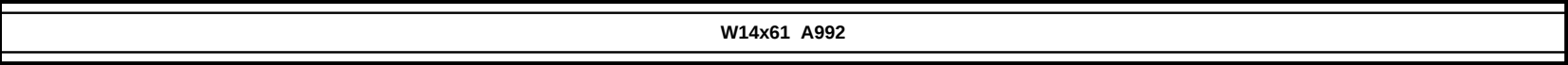
B06

ESTIMATE - NOT FOR FABRICATION

E-B-202 W14x61 22'-3 1/4"

Scope: Rectangular Opening Governing detail: 3/S7.01 Qty: 1

WEB ELEVATION



CONNECTION / FABRICATION NOTES

Shaped plate at curved edge per 3/S7.01
Governing detail 3/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).



ESTIMATING HOURS

Shop fab / pc 7.00 hr
Field erect / pc 3.50 hr
Qty 1

SHOP TOTAL 7.00 hr
FIELD TOTAL 3.50 hr

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-202	W14x61 Rectangular Opening	22'-3 1/4"	A992	1358	10.50



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP TI
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
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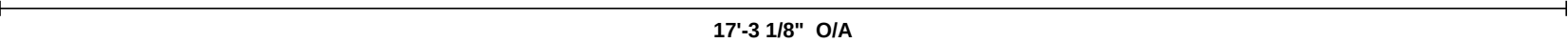
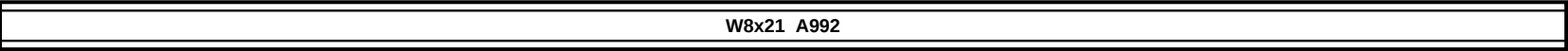
REV	DATE	DESCRIPTION
0	2026-07-29	ISSUED FOR ESTIMATE
E-B-202		
JOB INTUIT-SM-P1		

ESTIMATE - NOT FOR FABRICATION

E-B-301 W8x21 17'-3 1/8"

Scope: East Opening Governing detail: 7/S7.01 Qty: 1

WEB ELEVATION



END A



END B

ESTIMATING HOURS

Shop fab / pc 5.00 hr

Field erect / pc 3.00 hr

Qty 1

SHOP TOTAL 5.00 hr

FIELD TOTAL 3.00 hr

CONNECTION / FABRICATION NOTES

Beam to (E) masonry wall - 1/2in PL + (4) 3/4in dia Hilti HIT-HY 100, 6-3/4in embed
Governing detail 7/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-301	W8x21 East Opening	17'-3 1/8"	A992	362	8.00



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP TI
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
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0	2026-07-29	ISSUED FOR ESTIMATE

E-B-301
JOB INTUIT-SM-P1

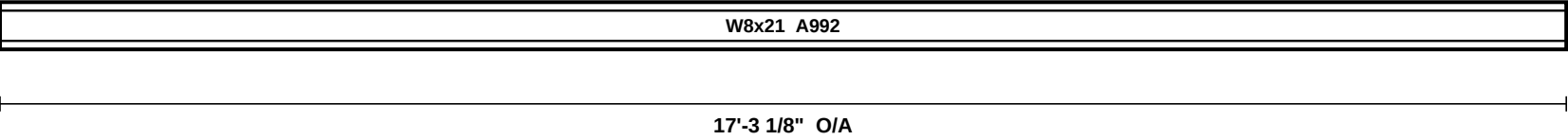
B08

ESTIMATE - NOT FOR FABRICATION

E-B-302 W8x21 17'-3 1/8"

Scope: East Opening Governing detail: 7/S7.01 Qty: 1

WEB ELEVATION



CONNECTION / FABRICATION NOTES

Beam to (E) masonry wall - see 7/S7.01
Governing detail 7/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).

ESTIMATING HOURS

Shop fab / pc 5.00 hr
Field erect / pc 3.00 hr
Qty 1

SHOP TOTAL 5.00 hr
FIELD TOTAL 3.00 hr

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-302	W8x21 East Opening	17'-3 1/8"	A992	362	8.00



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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP TI
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
DRAWN BY	B&B / 2026-07-29
CHECKED	K. LANGFORD / 2026-07-29

REV	DATE	DESCRIPTION
0	2026-07-29	ISSUED FOR ESTIMATE

E-B-302
JOB INTUIT-SM-P1

B09

ESTIMATE - NOT FOR FABRICATION

E-HSS-301 HSS 8x6x1/4 7'-2 1/4"

Scope: East Opening Governing detail: 4/S7.01 Qty: 2

WEB ELEVATION

HSS 8x6x1/4 A500 Gr C

7'-2 1/4" O/A



END A



END B

ESTIMATING HOURS

Shop fab / pc 3.00 hr

Field erect / pc 2.00 hr

Qty 2

SHOP TOTAL 6.00 hr

FIELD TOTAL 4.00 hr

CONNECTION / FABRICATION NOTES

End closures, one each end, between the W8x21s. Replaces the phantom horizontal (a gridline).
Governing detail 4/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	2	E-HSS-301	HSS 8x6x1/4 East Opening	7'-2 1/4"	A500 Gr C	322	10.00



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2709 N Ventura Ave, Ventura, CA
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COATING	SHOP PRIME / HDG WHERE INDICATED
MIL PREP	SSPC-SP2
HOLE SIZE	15/16" DIA U.N.O.
PROJECT	INTUIT SANTA MONICA FLAGSHIP T1
LOCATION	1404 3RD ST PROMENADE, SANTA MONICA CA
CUSTOMER	GRAVES CONSTRUCTION GROUP SERVICES
ARCHITECT	RAPT STUDIO
ENGINEER	STRUCTURAL FOCUS
DRAWN BY	B&B / 2026-07-29
CHECKED	K. LANGFORD / 2026-07-29

REV	DATE	DESCRIPTION
0	2026-07-29	ISSUED FOR ESTIMATE

E-HSS-301
JOB INTUIT-SM-P1

B10

ESTIMATE - NOT FOR FABRICATION

E-RP-101 HSS 4x4x1/4 3'-6"

Scope: Guardrail Posts Governing detail: 5 & 6/S7.01 Qty: 21

WEB ELEVATION

HSS 4x4x1/4 A500 Gr C

3'-6" O/A

CONNECTION / FABRICATION NOTES

42in max; 3/4in top plate; 1/4in fillet all around. ON THE ELLIPSE - 21 = 81'-2 1/4 perimeter / 48in max.
Governing detail 5 & 6/S7.01. Typical steel details per S0.20.
Weld size and connection plate thickness per the Bolted Beam Connection Schedule -
 NOT in the issued set (RFI-001 Item 4); S0.20 typicals carried in the meantime.
Hole size 15/16in dia U.N.O. Bolts ASTM F3125 Gr A325-X.
Shop prime; HDG where indicated. AESS basis carried where exposed (RFI-001 Item 2).



END A



END B

ESTIMATING HOURS

Shop fab / pc 0.75 hr
Field erect / pc 0.35 hr
Qty 21

SHOP TOTAL 15.75 hr
FIELD TOTAL 7.35 hr

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	21	E-RP-101	HSS 4x4x1/4 Guardrail Posts	3'-6"	A500 Gr C	897	23.10



B&B INDUSTRIAL WELDING
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E-RP-101		
JOB INTUIT-SM-P1		

ESTIMATE - NOT FOR FABRICATION

BILL OF MATERIAL - ALL MARKS

BILL OF MATERIAL

LINE	QTY	PC MARK	DESCRIPTION	LENGTH	GRADE	WT (LB)	HRS
1	1	E-B-101	W16x100 Elliptical Opening Frame	28'-7 1/16"	A992	2859	14.50
2	1	E-B-102	W16x67 Elliptical Opening Frame	28'-7 1/16"	A992	1916	19.00
3	1	E-B-103	W16x77 Elliptical Opening Frame	27'-8 1/16"	A992	2131	13.50
4	1	E-B-104	W16x77 Elliptical Opening Frame	27'-7 5/16"	A992	2126	13.50
5	4	E-HSS-102	HSS 8x4x1/4 Elliptical Opening Frame	10'-6 1/4"	A500 Gr C	800	30.00
6	1	E-B-201	W14x43 Rectangular Opening	19'-6 1/8"	A992	839	9.00
7	1	E-B-202	W14x61 Rectangular Opening	22'-3 1/4"	A992	1358	10.50
8	1	E-B-301	W8x21 East Opening	17'-3 1/8"	A992	362	8.00
9	1	E-B-302	W8x21 East Opening	17'-3 1/8"	A992	362	8.00
10	2	E-HSS-301	HSS 8x6x1/4 East Opening	7'-2 1/4"	A500 Gr C	322	10.00
11	21	E-RP-101	HSS 4x4x1/4 Guardrail Posts	3'-6"	A500 Gr C	897	23.10

TOTALS: 35 marks 13973 lb (6.99 ton) SHOP 106.2 hr FIELD 52.9 hr TOTAL 159.1 hr

NOT IN THIS BOM: guardrail follows the ELLIPSE, perimeter 81 ft 2-1/4 in (21) - 21 posts = perimeter / 48in max. Kyle revised takeoff marks 17, with gaps to 6 ft 7 in, exceeding the 48in max on 13 of 17. Confirm against 5 and 6/S7.01.

NOT IN THIS BOM: connection plate material - Bolted Beam Connection Schedule missing from the issued set (RFI-001 Item 4).

NOT IN THIS BOM: the design-build stair and its guard/handrail - separate scope, follows the delegated-PE design.



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BILL OF MATERIAL
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