

Building Data Summary	
Project ID:	*****
Location:	***** Florida
Scope of Work:	Structural and misc. steel
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly wage (Shop Labor)	Hourly wage (Erect Labor)	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
--------	--------------	------------------	------	----------	---------	------------------------	-----------------------	------------------------	-----------------	--------------------------------	---------------------------------	--------------------	---------------------	----------	------------------

**DIVISION.01 GENERAL REQUIREMENTS**

1		Supervision and Coordination	LS												\$ 4,000.00
2		Submittals and Shop drawings	LS	34,774			\$ 0.19								\$ 6,607.02
3		Final Cleaning	LS												\$ 1,500.00
4		Mobilization Costs	LS												\$ 5,500.00
5		Temporary Control & Facilities	LS												\$ 2,500.00
6		On-Site Rental Equipment													\$ 4,000.00
7		Lodging - Number of Men x Days	5	10			\$ 150.00								\$ 7,500.00
8		Per Diem - Number of Men x Days	5	10			\$ 50.00								\$ 2,500.00
<b>Subtotal (General Requirements)</b>															<b>\$ 34,107</b>

**DIVISION 05- Metal**

<b>Demo</b>															
9		Remove Existing Channel "C4x5.4"	LF	38	0%	38	\$ -	\$ -	0.016		\$ 65.00	\$ 1.04	\$ 39.52	\$ 39.52	
10		Remove Existing Beam "W10x30"	LF	54	0%	54	\$ -	\$ -	0.018		\$ 65.00	\$ 1.17	\$ 63.18	\$ 63.18	
11		Remove Existing Moment Connection	EA	11	0%	11	\$ -	\$ -	0.350		\$ 65.00	\$ 22.75	\$ 250.25	\$ 250.25	
<b>Steel Framing</b>															
<b>Beam</b>															
<b>W Shape</b>															
12		W10x30 - 137 LF	Lbs.	4110	5%	4316	\$ 2.10	\$ 9,062.55	0.020	\$ 65.00		\$ 1.30	\$ 5,610.15	\$ 14,672.70	
13		W10x15 - 204 LF	Lbs.	3060	5%	3213	\$ 2.10	\$ 6,747.30	0.020	\$ 65.00		\$ 1.30	\$ 4,176.90	\$ 10,924.20	
14		W8x10 - 66 LF	Lbs.	660	5%	693	\$ 2.10	\$ 1,455.30	0.020	\$ 65.00		\$ 1.30	\$ 900.90	\$ 2,356.20	
<b>Hollow Structure Section</b>															
15		HSS 8x4x1/4 LSV - 17 LF	Lbs.	231	5%	243	\$ 2.10	\$ 509.80	0.020	\$ 65.00		\$ 1.30	\$ 315.59	\$ 825.38	
16		HSS 8x8x3/8 - 20 LF	Lbs.	752	5%	790	\$ 2.10	\$ 1,658.16	0.020	\$ 65.00		\$ 1.30	\$ 1,026.48	\$ 2,684.64	
17		HSS 3x3x1/4 - 106 LF	Lbs.	931	5%	977	\$ 2.10	\$ 2,052.15	0.020	\$ 65.00		\$ 1.30	\$ 1,270.38	\$ 3,322.53	
18		HSS 2x2x1/4 - 54 LF	Lbs.	291	5%	305	\$ 2.10	\$ 640.60	0.020	\$ 65.00		\$ 1.30	\$ 396.56	\$ 1,037.16	
19		HSS 6x2x1/4 LSH - 7 LF	Lbs.	85	5%	90	\$ 2.10	\$ 188.31	0.020	\$ 65.00		\$ 1.30	\$ 116.57	\$ 304.88	
<b>Duct Support Hollow Structure Section</b>															
20		HSS 4x4x1/4 Duct Support - 120 LF	Lbs.	1464	5%	1537	\$ 2.10	\$ 3,228.12	0.020	\$ 65.00		\$ 1.30	\$ 1,998.36	\$ 5,226.48	
<b>Connection</b>															
21		Moment Connection	EA	2	0%	2	\$ 84.00	\$ 168.00	0.520		\$ 65.00	\$ 33.80	\$ 67.60	\$ 235.60	
<b>Column</b>															
22		HSS 3x3x1/4 (11'-0" H)(28 EA)	Lbs.	2704	5%	2839	\$ 2.10	\$ 5,962.85	0.020	\$ 65.00		\$ 1.30	\$ 3,691.29	\$ 9,654.14	
23		HSS 6x4x1/4 (9'-6"H)(2 EA)	Lbs.	296	5%	311	\$ 2.10	\$ 653.56	0.020	\$ 65.00		\$ 1.30	\$ 404.59	\$ 1,058.15	
<b>Duct Support Hollow Structure Section</b>															
24		HSS 4x4x1/4 (11'-0" H)(63 EA) w/ 1/4" Column Cap	Lbs.	8455	5%	8877	\$ 2.10	\$ 18,642.39	0.020	\$ 65.00		\$ 1.30	\$ 11,540.53	\$ 30,182.92	
<b>Angle</b>															
25		L4x4x1/4 - 10 EA w/ 1/2" Dia x 2-3/4 Embed HY200 Anchor	Lbs.	66	5%	69	\$ 1.73	\$ 119.53	0.018		\$ 65.00	\$ 1.17	\$ 80.84	\$ 200.36	
26		L2x2x1/4 - 106 LF w/ 3/8" Hiti HDI-P Anchor @ 6" O.C	Lbs.	340	5%	357	\$ 1.73	\$ 618.08	0.018		\$ 65.00	\$ 1.17	\$ 418.01	\$ 1,036.09	
27		L3x3x1/4 - 23 LF w/ 3/8" Hilti HDI-P Anchor @ 6" O.C	Lbs.	112	5%	118	\$ 1.73	\$ 204.30	0.018		\$ 65.00	\$ 1.17	\$ 138.17	\$ 342.47	
<b>Duct Support Angle</b>															
28		L2x2x1/4 - 192 LF	Lbs.	616	5%	647	\$ 1.73	\$ 1,119.55	0.018		\$ 65.00	\$ 1.17	\$ 757.15	\$ 1,876.69	
<b>Channel</b>															
29		C8x11.5 - 2 LF	Lbs.	23	5%	24	\$ 1.73	\$ 41.78	0.018		\$ 65.00	\$ 1.17	\$ 28.26	\$ 70.04	

**Building Data Summary**

<b>Project ID:</b>	*****
<b>Location:</b>	***** Florida
<b>Scope of Work:</b>	<b>Structural and misc. steel</b>
<b>Date:</b>	<b>Year 2025</b>

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly wage (Shop Labor)	Hourly wage (Erect Labor)	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost		
		<b>Steel Plate</b>															
		<b>Base Plate</b>															
30		12x12x3/4 - 28 EA w/ (4) 13/16" Dia Hole For 1/2" Dia x 2-3/4" Embed	Lbs.	857	5%	900	\$ 1.73	\$ 1,557.39	0.022		\$ 65.00	\$ 1.43	\$ 1,287.33	\$ 2,844.72			
		<b>Connection Plate</b>															
31		14x14x3/4 - 2 EA w/ (8) 13/16" Dia Hole For 1/2" Dia x 2-3/4" Embed Anchor	Lbs.	83	5%	88	\$ 1.73	\$ 151.42	0.022		\$ 65.00	\$ 1.43	\$ 125.17	\$ 276.59			
32		2x2x3/16 - 10 EA (Assumed Size Except Thickness)	Lbs.	2.1	5%	2	\$ 1.73	\$ 3.81	0.022		\$ 65.00	\$ 1.43	\$ 3.15	\$ 6.97			
		<b>Unistrut Framing</b>															
		<b>Bracing</b>															
33		P1000 Diagonal Interior Side Unistrut Bracing - 42 LF	Lbs.	79	5%	83	\$ 1.82	\$ 151.70	0.022		\$ 65.00	\$ 1.43	\$ 119.19	\$ 270.88			
34		P1000 Exterior Side Bracing 14" Long - 12 EA	Lbs.	27	5%	28	\$ 1.82	\$ 50.71	0.022		\$ 65.00	\$ 1.43	\$ 39.84	\$ 90.55			
		<b>Unistrut Support Beam</b>															
35		P1001 Unistrut Support Beam - 502 LF	Lbs.	1898	5%	1992	\$ 1.82	\$ 3,626.24	0.022		\$ 65.00	\$ 1.43	\$ 2,849.19	\$ 6,475.42			
		<b>Unistrut Fitting</b>															
36		P2347 Unistrut Fitting - 56 EA	Lbs.	108	5%	113	\$ 1.82	\$ 206.54	0.022		\$ 65.00	\$ 1.43	\$ 162.28	\$ 368.82			
37		P3810 Unistrut Fitting - 36 EA	Lbs.	22	5%	23	\$ 1.82	\$ 42.04	0.022		\$ 65.00	\$ 1.43	\$ 33.03	\$ 75.08			
		<b>Holding Frame</b>															
38		P100H3 - (56 EA)(14" H)	Lbs.	124	5%	130	\$ 1.73	\$ 224.94	0.022		\$ 65.00	\$ 1.43	\$ 185.93	\$ 410.88			
		<b>Unistrut Bracket</b>															
39		P2345 Wing Bracket - 56 EA	Lbs.	110	5%	115	\$ 1.82	\$ 209.75	0.022		\$ 65.00	\$ 1.43	\$ 164.80	\$ 374.56			
40		P2344 Wing Bracket - 86 LF	Lbs.	157	5%	164	\$ 1.82	\$ 299.34	0.022		\$ 65.00	\$ 1.43	\$ 235.19	\$ 534.53			
41		P2492 Bracket - 36 EA	Lbs.	34	5%	36	\$ 1.82	\$ 64.97	0.022		\$ 65.00	\$ 1.43	\$ 51.05	\$ 116.03			
		<b>Connection Plate</b>															
42		P2492 1/2x2x1/4 Connect Plate - 108 EA w/ KWIK Bolt T22 Anchor	EA	108	5%	113	\$ 88.50	\$ 10,035.90	0.550		\$ 65.00	\$ 35.75	\$ 4,054.05	\$ 14,089.95			
						<b>Per #</b>	<b>34,774</b>	<b>\$ 5.18</b>	<b>\$ 69,697</b>				<b>\$ 42,601</b>		<b>\$ 112,299</b>		
						<b>Per Ton</b>	<b>17.39</b>	<b>\$ 10,357.16</b>									
													<b>PROJECTED COST</b>		<b>\$ 146,406</b>		
														<b>INSURANCE</b>		<b>3%</b>	<b>\$ 4,392.17</b>
														<b>CONTINGENCY</b>		<b>5%</b>	<b>\$ 7,320.28</b>
														<b>OVERHEAD AND PROFIT</b>		<b>15%</b>	<b>\$ 21,960.84</b>
														<b>TAX</b>		<b>0.00%</b>	<b>\$ -</b>
														<b>SUGGESTED BID</b>		<b>\$ 180,079</b>	

**Note:**  
 1. Please verify the equipment's and their prices with owner.  
 2. Online sources are used for pricing.  
 3. Prices can vary depending upon field conditions.

# STRUCTURAL STEEL ESTIMATING

by Veracity Estimating

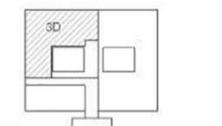
	W10x30	136.7 FT
	W10x15	203.7 FT
	W8x10	65.5 FT
	C8x11.5	1.2 FT
	HSS 3x3x1/4 Column (11'-0" H)	28.0
	HSS 4x4x1/4 (11'-0" H) Duct Support w/ 1/4" Column Cap	63.0
	HSS 4x4x1/4 Duct Support Beam	40.2 FT
	HSS 4x4x1/4 Duct Support Beam X2	18.6 FT
	Remove Existing Channel "C4x5.4"	37.5 FT
	Remove Existing Beam "W10x30"	54.0 FT
	Remove Existing Moment Connection	11.0
	Moment Connection	2.0

1 SECOND FLOOR FRAMING PLAN  
S101 1/8" = 1'-0"

2 ENLARGED PLATFORM FRAMING PLAN  
S101 1/4" = 1'-0"

PLATFORM DEMO FRAMING PLAN LEGEND

- EXISTING BEAM TO BE DEMOLISHED
- EXISTING STEEL BEAM
- EXIST 1 1/4" GALVANIZED STEEL GRATING
- DEMOLITION
- DEMOTES EXISTING MOMENT CONNECTION
- DEMOLITION



KEY PLAN  
N.T.S.

Revisions:	Date:



**AKEA Design, Inc.**  
3603 NW 98th Street, Suite B  
Gainesville, FL 32606  
Phone: (352) 474-6124  
Fax: (352) 553-4437  
COA: FL #29758  
AKEA Design Project #AD174-19

This item has been electronically signed and sealed by the individual named at right. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Approved:	
Project Title	RENOVATE 3D FOR CARDIOLOGY SERVICE
Location	GAINESVILLE, FLORIDA
Issue Date	SEPTEMBER 12, 2024
Checked	SLW
Drawn	DCA
Project Number	573-CSI-122
Building Number	1
Drawing Number	S101
	3 OF 114

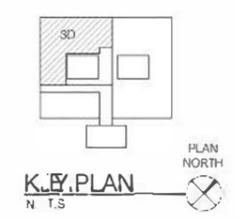


- P1001 Unistrut Support Beam + P1001 Double 250.4 FT
- P2345 Angle Connect Support X2 + P100H3 + P2347 56.0
- P2344 Cant 88.6 FT
- P3810 (1/2x2x1/4) Connect Plate X2 w/ KWIK Bolt TZ2 Anchor X1 36.0
- P1000 Diagonal Bracing 41.3 FT
- P1000 Exterior Side Bracing 14" Long 12.0

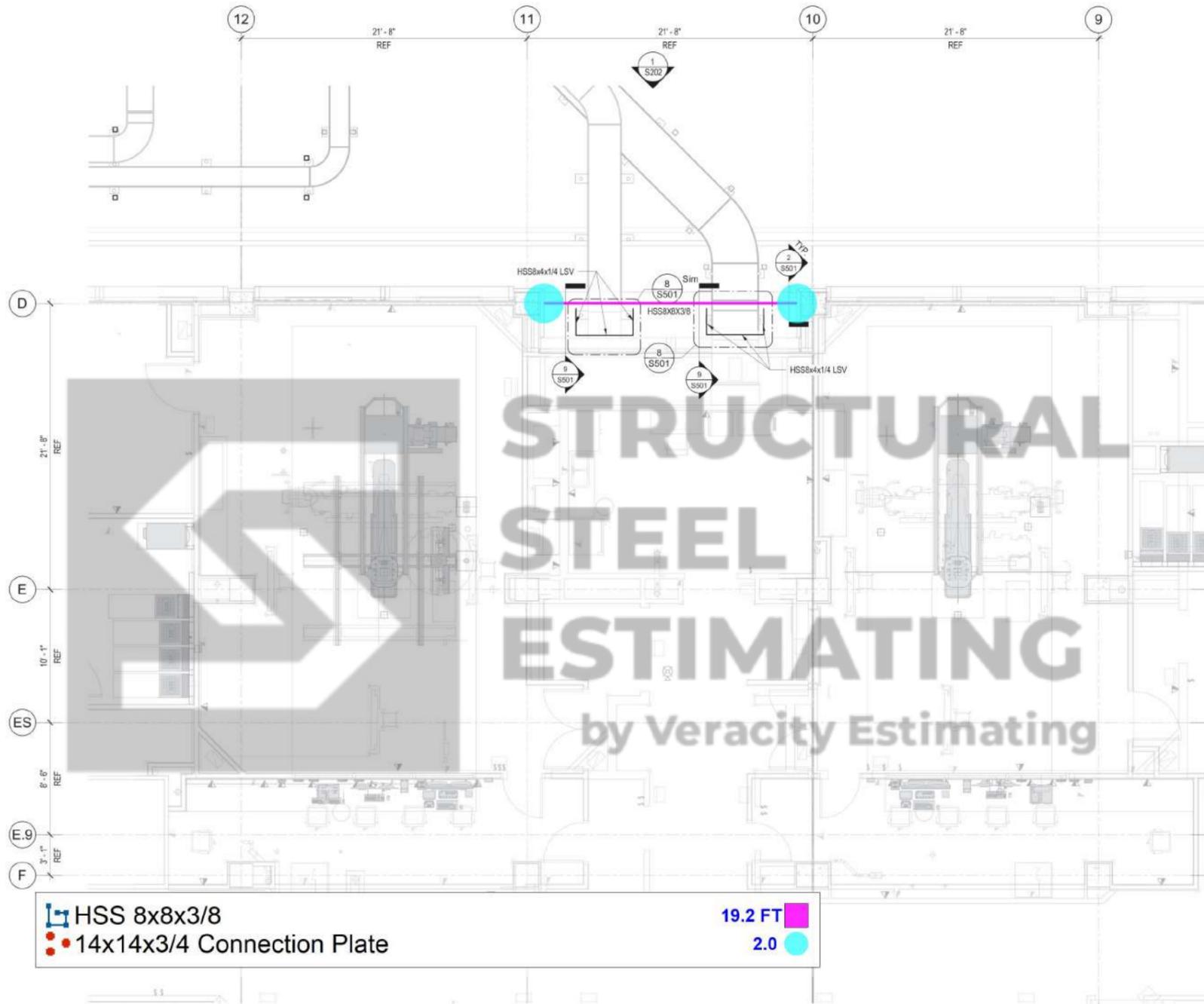
- #### FLOOR FRAMING PLAN NOTES
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR REVIEW
  - REF DENOTES FOR REFERENCE ONLY FIELD VERIFY
  - COORDINATE UNISTRUT LAYOUT WITH MECHANICAL DRAWINGS AND EQUIPMENT MANUFACTURER AND ROOM SUPPORT LOCATIONS PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR REVIEW.
  - BOTTOM OF UNISTRUT = 8'-10 5/16" FROM FINISHED FLOOR. COORDINATE WITH EQUIPMENT MANUFACTURER PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR REVIEW.
  - DON NOT DAMAGE EXISTING SLAB REINFORCING DURING INSTALLATION OF NEW CONDUIT OR PIPING. INNO EVEN SHALL NEW PENETRATION PENETRATE COLUMN DROP SPANLS. CONTRACTOR FIELD LOCATE EXISTING REINFORCING VIA NON-DESTRUCTIVE MEANS PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR REVIEW

- #### FLOOR FRAMING PLAN LEGEND
- UNISTRUT BEAM
  - DENOTES P100H3 UNISTRUT HANGER
  - DIAGONAL BRACE
  - EXTERIOR DIAGONAL BRACE

**1** FOURTH FLOOR FRAMING PLAN  
S103 14' x 14'



Revisions: Date:	CONSULTANT 	ARCHITECT/ENGINEER OF RECORD <b>AKEA Design, Inc.</b> 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 COA: FL #29758 AKEA Design Project #AD174-19	ENGINEER-OF-RECORD FL. P.E. NO. SCOTT L. WEILAND, PC 51146 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>FOURTH FLOOR FRAMING PLAN</b> Approved:	Phase <b>FINAL DESIGN SUBMITTAL          APPROVED FOR CONSTRUCTION</b>	Project Title <b>RENOVATE 3D FOR          CARDIOLOGY SERVICE</b>	Project Number <b>573-CS1-122</b> Building Number <b>1</b> Drawing Number <b>S103</b> 5 OF 114
	Location <b>GAINESVILLE, FLORIDA</b>	Issue Date <b>SEPTEMBER 12, 2024</b>	Checked <b>SLW</b>	Drawn <b>DCA</b>				



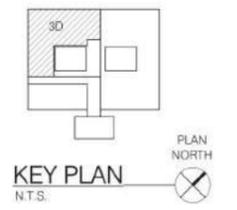
 HSS 8x8x3/8  
 14x14x3/4 Connection Plate  
 19.2 FT  
 2.0

- FLOOR FRAMING PLAN NOTES**
1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR REVIEW
  2. REF DENOTES FOR REFERENCE ONLY FIELD VERIFY
  3. ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED
  4. REMOVE ALL EXISTING WALL PANEL AS REQUIRED TO INSTALL NEW BEAM CONNECTIONS

**FLOOR FRAMING PLAN LEGEND**

— BEAM

1 THIRD FLOOR FRAMING PLAN  
 S102 1/4" = 1'-0"  
 PLAN NORTH  
 TRUE NORTH

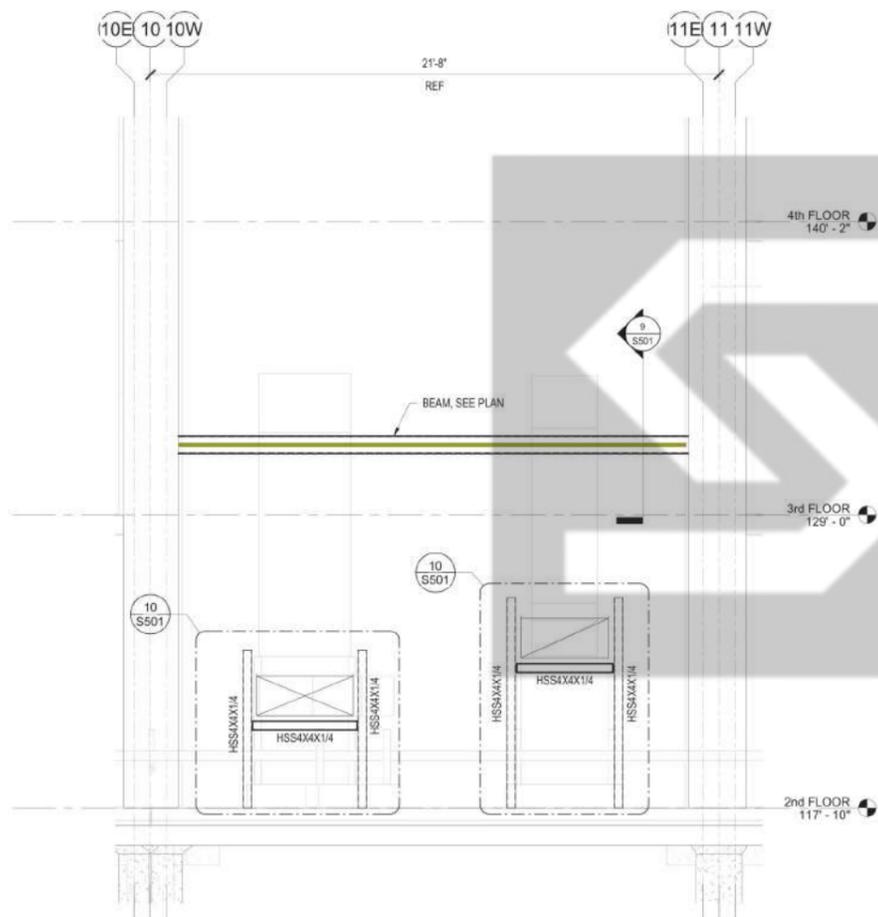


Revisions: Date:	<b>CONSULTANT</b> 	<b>ARCHITECT/ENGINEER OF RECORD</b> <b>AKEA Design, Inc.</b> 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 COA: FL #29758 AKEA Design Project #AD174-19	<b>ENGINEER - OF-RECORD</b> FL. P.E. NO. SCOTT L. WELAND, PE 51146 	<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	Drawing Title <b>THIRD FLOOR FRAMING PLAN</b> Approved:	Phase <b>FINAL DESIGN SUBMITTAL APPROVED FOR CONSTRUCTION</b>	Project Title <b>RENOVATE 3D FOR CARDIOLOGY SERVICE</b>	Project Number <b>573-CS1-122</b> Building Number <b>1</b>
	Location <b>GAINESVILLE, FLORIDA</b>	Issue Date <b>SEPTEMBER 12, 2024</b>	Checked <b>SLW</b>	Drawn <b>DCA</b>	Drawing Number <b>S102</b> 4 OF 114			

8/13/2024 12:20:29 PM

# HSS 4x4x1/4 Duct Support Beam

19.4 FT



1 PARTIAL NORTH ELEVATION  
S202 3/8" = 1'-0"

Revisions: Date:	CONSULTANT  INNOVATIVE ENGINEERING INCORPORATED 3390 Tatum Road #400, 4th Floor Atlanta, GA 30328 770.521.2522 www.iae.com	ARCHITECT/ENGINEER OF RECORD <b>AKEA</b> Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 COA: FL #29758 AKEA Design Project #AD174-19	ENGINEER - OF-RECORD FL. P.E. NO. SCOTT L. WELAND, PE 51146 	Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title <b>ELEVATIONS</b> Approved:	Phase FINAL DESIGN SUBMITTAL APPROVED FOR CONSTRUCTION	Project Title RENOVATE 3D FOR CARDIOLOGY SERVICE	Project Number 573-CSI-122 Building Number 1	Location GAINESVILLE, FLORIDA	Drawing Number <b>S202</b> 7 OF 114
	Issue Date SEPTEMBER 12, 2024	Checked SLW	Drawn DCA							



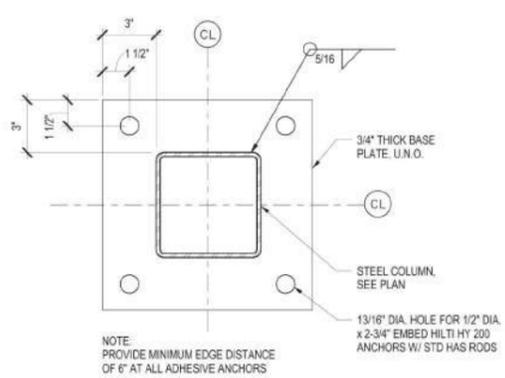
1 PARTIAL EAST WALL ELEVATION  
S201 3/8" = 1'-0"

**NOTES**

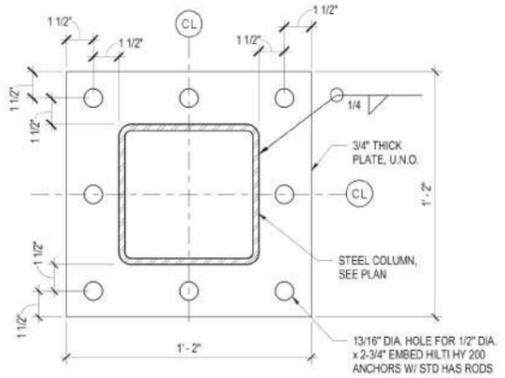
1. COORDINATE DUCT SUPPORT LOCATIONS WITH EXISTING CONDITIONS AND EXACT DUCT LAYOUT PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR REVIEW.

HSS 3x3x1/4 + L2x2x1/4 w/ 3/8" Hiti HDI-P Anchor X2	52.2 FT
HSS 2x2x1/4 BEAM	53.6 FT
HSS 6x4x1/4 (9'-6"H)	2.0
L4x4x1/4 Angle w/ 1/2" Dia x 2-3/4 Embed HY200 Anchor	10.0
HSS 6x2x1/4 LSH Beam	6.0 FT
L3x3x1/4 w/ 3/8" Hilti HDI-P Anchor @ 6" O.C	22.7 FT
HSS 4x4x1/4 Duct Support Beam	22.3 FT

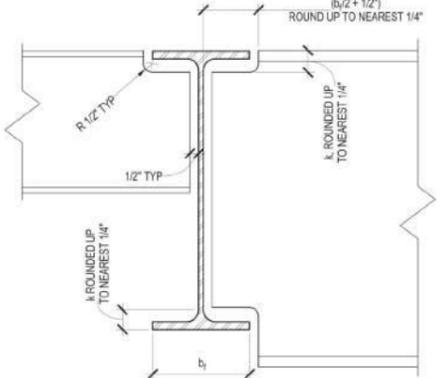
Revisions: Date:	<b>CONSULTANT</b>  INNOVATIVE ENGINEERING INCORPORATED 3300 Jackson Road Suite 400, Jacksonville, FL 32216 904.721.2222 www.ine.com	<b>ARCHITECT/ENGINEER OF RECORD</b> <b>AKEA Design, Inc.</b> 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 COA: FL #29758 AKEA Design Project #AD174-19	ENGINEER - OF-RECORD FL. P.E. NO. SCOTT L. WELAND, PE 51146  This item has been electronically signed and sealed by the individual named at right. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	Office of Construction and Facilities Management <b>VA</b> U.S. Department of Veterans Affairs	Drawing Title <b>ELEVATIONS</b>	Phase <b>FINAL DESIGN SUBMITTAL APPROVED FOR CONSTRUCTION</b>	Project Title <b>RENOVATE 3D FOR CARDIOLOGY SERVICE</b>	Project Number <b>573-CSI-122</b>
					Approved:	Location <b>GAINESVILLE, FLORIDA</b>	Building Number <b>1</b>	
Issue Date <b>SEPTEMBER 12, 2024</b>		Checked <b>SLW</b>	Drawn <b>DCA</b>	Drawing Number <b>S201</b>		6 OF 114		



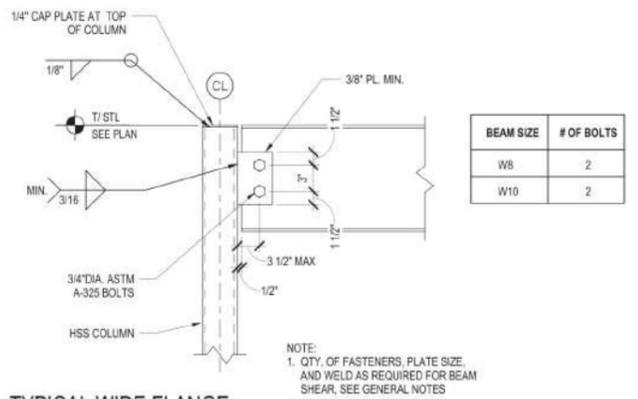
1 TYPICAL BASE PLATE DETAIL  
S501 3" = 1'-0"



2 TYPICAL END PLATE DETAIL  
S501 3" = 1'-0"

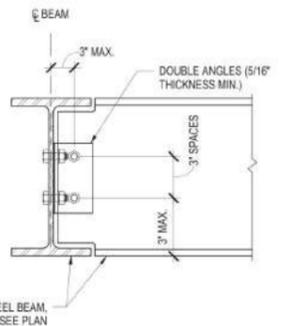


3 TYPICAL COPE DETAIL  
S501 3" = 1'-0"



4 TYPICAL WIDE FLANGE BEAM TO HSS COLUMN CONNECTION  
S501 1 1/2" = 1'-0"

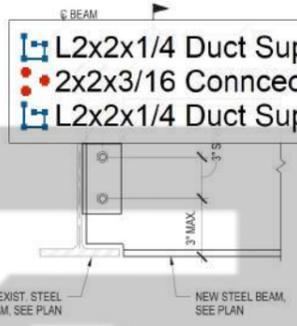
BEAM SIZE	# OF BOLTS
WB	2
W10	2



5 TYPICAL BEAM TO BEAM CONNECTION DETAIL (ALL BOLTED)  
S501 NTS

BEAM SIZE	# OF 3/4" A-325 BOLTS
W10	2

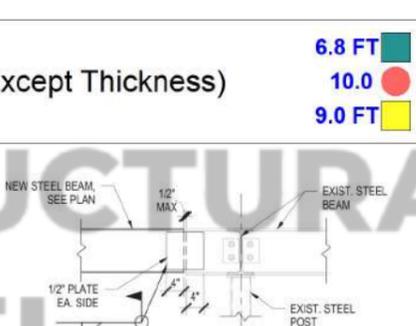
NOTE: QTY OF FASTENERS TO BE BASED ON THE BEAM SIZE PER TABLE THIS DETAIL & STEEL NOTES



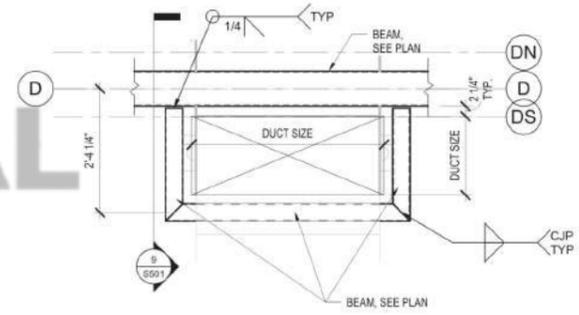
6 TYPICAL BEAM TO EXISTING BEAM CONNECTION DETAIL  
S501 NTS

BEAM SIZE	BOLTS
W10	2

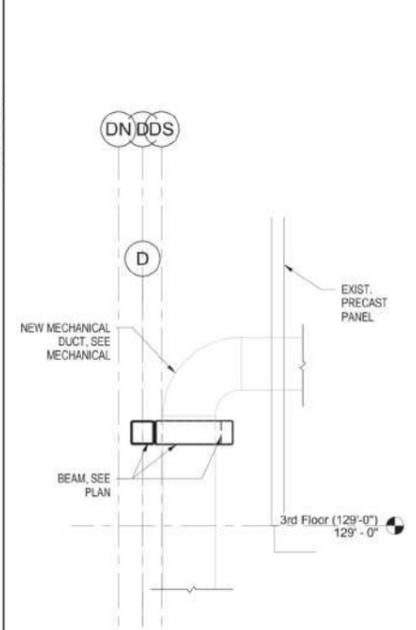
NOTE: QTY OF FASTENERS TO BE BASED ON THE BEAM SIZE PER TABLE THIS DETAIL & STEEL NOTES



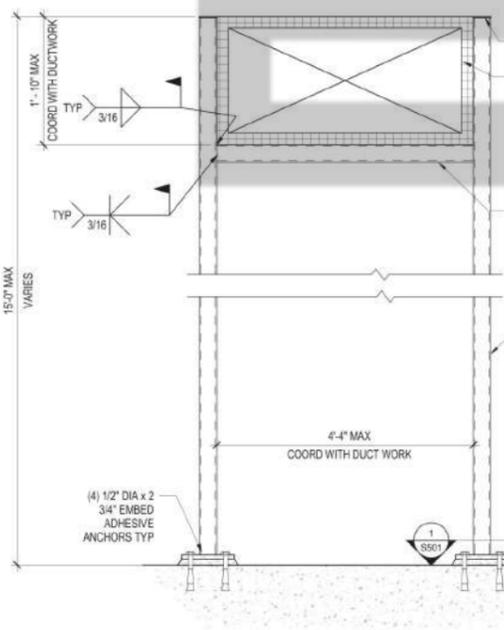
7 BEAM TO BEAM CONNECTION  
S501 3/4" = 1'-0"



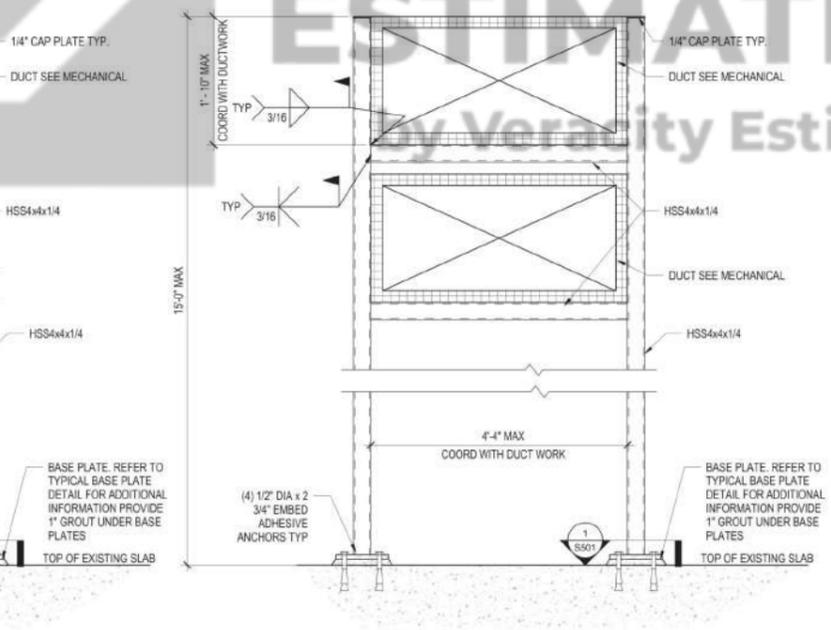
8 ENLARGED PLAN AT DUCT SUPPORT  
S501 3/4" = 1'-0"



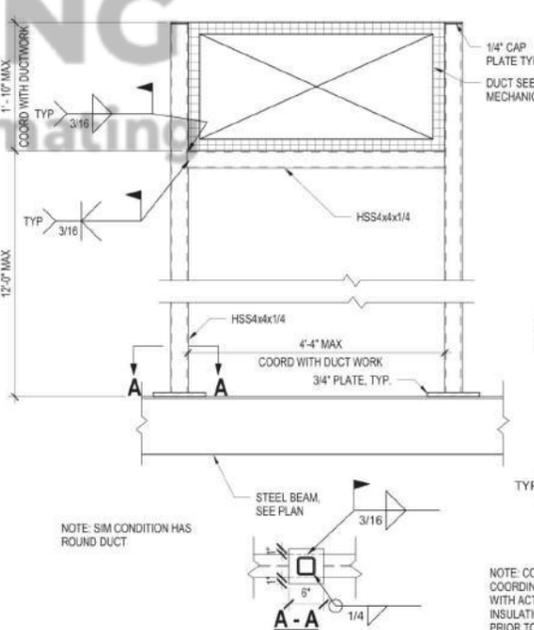
9 SECTION AT DUCT SUPPORT  
S501 1/2" = 1'-0"



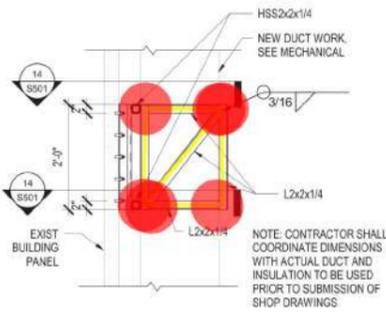
10 SECTION AT DUCT SUPPORT  
S501 1" = 1'-0"



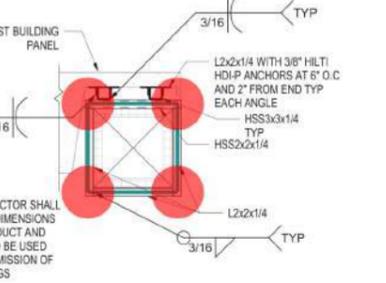
11 SECTION AT DUCT SUPPORT  
S501 1" = 1'-0"



12 SECTION AT DUCT SUPPORT  
S501 1" = 1'-0"



13 DUCT SUPPORT FRAMING SECTION  
S501 3/4" = 1'-0"



14 ENLARGED PLAN AT DUCT SUPPORT  
S501 3/4" = 1'-0"

Revisions:	Date:

**CONSULTANT**

**INNOVATIVE ENGINEERING INCORPORATED**

3800 Jackson Road  
Gainesville, FL 32606  
Phone: (352) 553-4437  
COA: FL #29758  
www.iae.com

**ARCHITECT/ENGINEER OF RECORD**

**AKEA Design, Inc.**

3603 NW 98th Street, Suite B  
Gainesville, FL 32606  
Phone: (352) 474-6124  
Fax: (352) 553-4437  
COA: FL #29758  
AKEA Design Project #AD174-19

This item has been electronically signed and sealed by the individual named at right. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**ENGINEER OF RECORD** FL. P.E. NO. SCOTT L. WELAND, PE 51146

*Scott L. Weland*  
12-20-24

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

**Drawing Title**  
STEEL DETAILS

**Phase**  
FINAL DESIGN SUBMITTAL APPROVED FOR CONSTRUCTION

**Project Title**  
RENOVATE 3D FOR CARDIOLOGY SERVICE

**Project Number**  
573-CSI-122

**Building Number**  
1

**Location**  
GAINESVILLE, FLORIDA

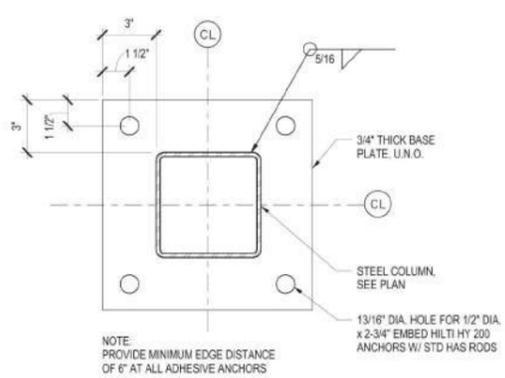
**Issue Date**  
SEPTEMBER 12, 2024

**Checked**  
SLM

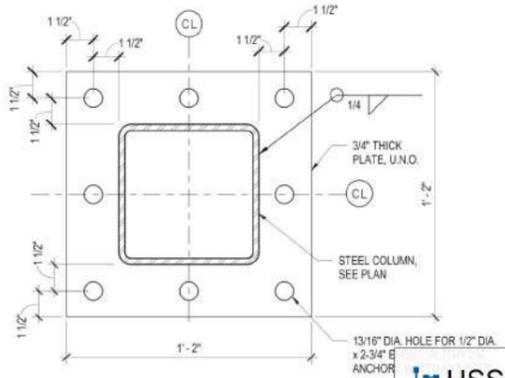
**Drawn**  
DCA

**Drawing Number**  
S501

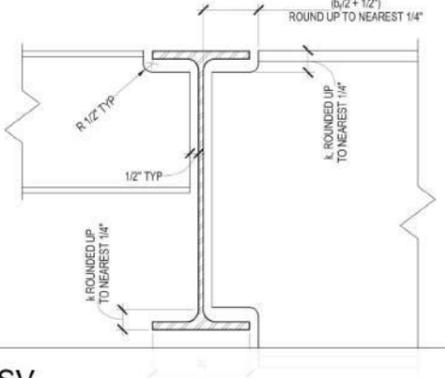
8 OF 114



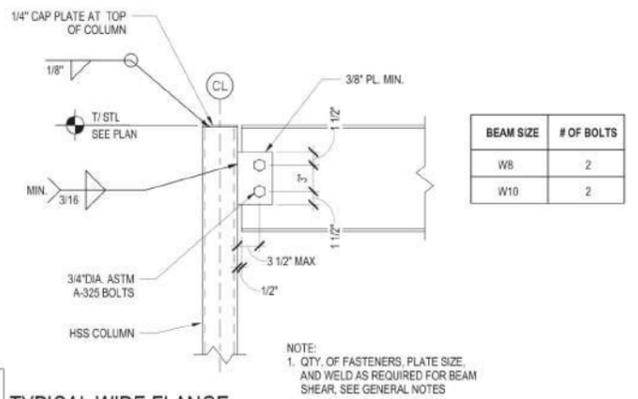
1 TYPICAL BASE PLATE DETAIL  
S501 3" = 1'-0"



2 TYPICAL END PLATE DETAIL  
S501 3" = 1'-0"

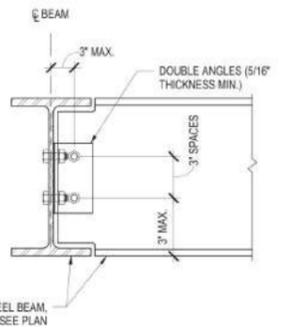


3 TYPICAL COPE DETAIL  
S501 3" = 1'-0"



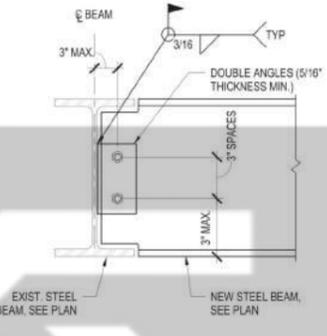
4 TYPICAL WIDE FLANGE BEAM TO HSS COLUMN CONNECTION  
S501 1 1/2" = 1'-0"

BEAM SIZE	# OF BOLTS
WB	2
W10	2



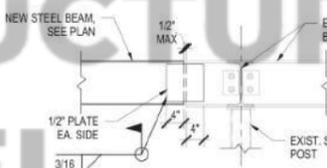
5 TYPICAL BEAM TO BEAM CONNECTION DETAIL (ALL BOLTED)  
S501 NTS

BEAM SIZE	# OF 3/4\"/>
W10	2

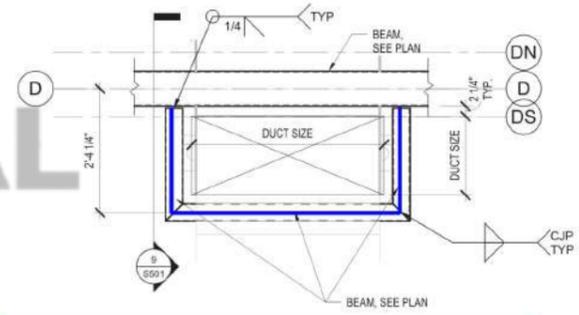


6 TYPICAL BEAM TO EXISTING BEAM CONNECTION DETAIL  
S501 NTS

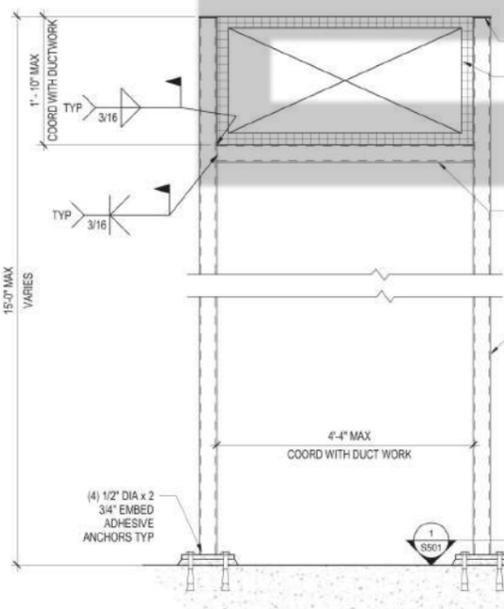
BEAM SIZE	# OF 3/4\"/>
W10	2



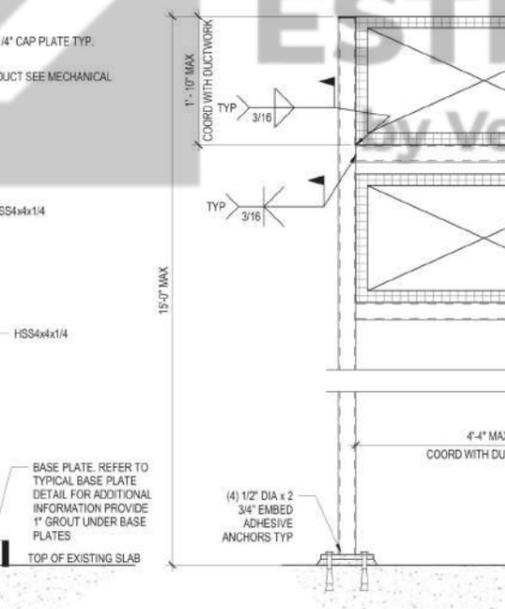
7 BEAM TO BEAM CONNECTION  
S501 3/4" = 1'-0"



8 ENLARGED PLAN AT DUCT SUPPORT  
S501 3/4" = 1'-0"



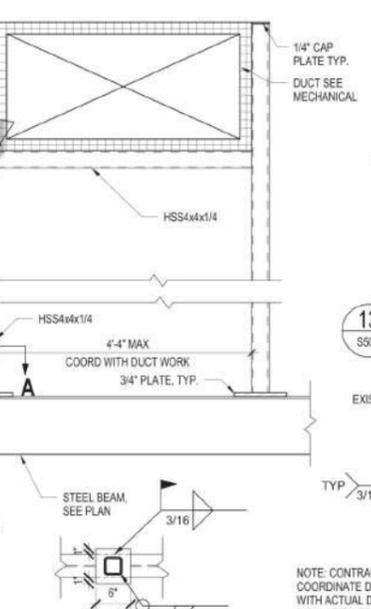
9 SECTION AT DUCT SUPPORT  
S501 1/2" = 1'-0"



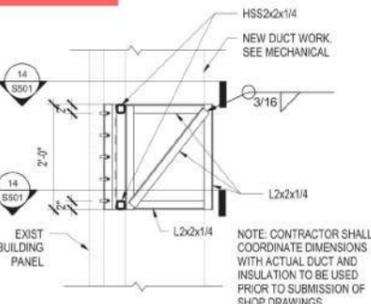
10 SECTION AT DUCT SUPPORT  
S501 1" = 1'-0"



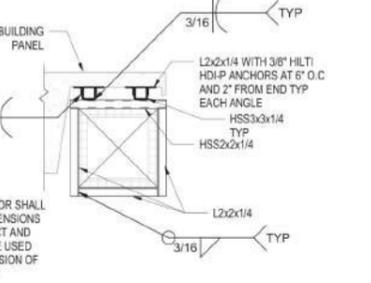
11 SECTION AT DUCT SUPPORT  
S501 1" = 1'-0"



12 SECTION AT DUCT SUPPORT  
S501 1" = 1'-0"



13 DUCT SUPPORT FRAMING SECTION  
S501 3/4" = 1'-0"



14 ENLARGED PLAN AT DUCT SUPPORT  
S501 3/4" = 1'-0"

Revisions: Date:	<b>CONSULTANT</b>  INNOVATIVE ENGINEERING INCORPORATED 3800 Jackson Road Suite 200 Jacksonville, FL 32216 Phone: (904) 722-1100 Fax: (904) 722-1101 www.innovativeeng.com	<b>ARCHITECT/ENGINEER OF RECORD</b> <b>AKEA Design, Inc.</b> 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 COA: FL #29758 AKEA Design Project #AD174-19	<b>ENGINEER OF RECORD</b> FL P.E. NO. SCOTT L. WELAND, PE 51146  This item has been electronically signed and sealed by the individual named at right. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	Drawing Title <b>STEEL DETAILS</b> Approved:	Phase <b>FINAL DESIGN SUBMITTAL APPROVED FOR CONSTRUCTION</b>	Project Title <b>RENOVATE 3D FOR CARDIOLOGY SERVICE</b>	Project Number <b>573-CSI-122</b> Building Number <b>1</b> Drawing Number <b>S501</b> 8 OF 114
	Location <b>GAINESVILLE, FLORIDA</b> Issue Date <b>SEPTEMBER 12, 2024</b> Checked <b>SLM</b> Drawn <b>DCA</b>							