Appendix A – Index of Drawings

S-1 GENERAL NOTES AND INDEX OF DRAWINGS

S-2 PLATFORM A - STRUCTURAL FRAMING PLAN

S-3 STEEL TYPICAL CONNECTION SECTIONS AND DETAILS

S-4 PLATFORM B - STRUCTURE FRAMING PLAN

S-5 STEEL TYPICAL CONNECTION SECTIONS AND DETAILS

S-6 TYPICAL GUARD RAIL AND LADDER SECTIONS AND DETAILS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

metro

DATA CENTER & OCC HVAC ROOF TOP WORK PLATFORMS

3500 PENNSY DRIVE, LANDOVER, MD 20785

MARCH, 2016

CENI / TSFA

210a

GENERAL NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF THE EXISTING SUPPORT STEEL FRAMING, PRIOR TO PREPARING SHOP DRAWINGS FOR FABRICATION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT THE FABRICATED MEMBERS FIT ALL THE CONNECTIONS. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONTRACT DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO FABRICATION.
2. DESIGN LIVE LOAD - 50 PSF OR A CONCENTRATED LOAD OF 2,000 POUNDS ACTING ANYWHERE ON THE PLATFORM.
3. ALL WIDE FLANGE STRUCTURAL STEEL SHAPES SHALL BE ASTM A709 GRADE 50, OR ASTM A992 GRADE 50. PLATES, ANGLES, CHANNELS, AND BARS SHALL BE ASTM A36 OR A572 GRAGE 50. STEEL PIPES TO CONFORM TO ASTM A53, GRADE B.
4. WELDING: ALL WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AWS D.1.1(LATEST EDITION). WHERE THE SIZE OF WELD IS NOT SHOWN ON THE DRAWING, USE THE MINIMUM SIZE REQUIRED BY AISC (AWS) MANUAL, 9TH EDITION.
5. ALL FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED. ANY DAMAGE TO GALVANIZING DURING TRANSPORTING AND INSTALLATION SHALL BE REPAIRED BY TOUCHING UP WITH ZINC RICH PAINT.
6. BOLTS: ALL BOLTS SHALL BE ASTM A 325 TYPE 1. GALVANIZED U.N.O. BOLT HOLES SHALL BE BOLT DIA PLUS 1/16 INCH DIAMETER U.N.O.
7. GRATING SHALL BE GALVANIZED GRATING 2"X3/16" BEARING BARS @ 1 3/16" O.C. W/ CROSS BARS @ 4" O.C., ALL THE HARDWARE FOR ATTACHING THE GRATING TO STEEL FRAMING SHALL BE AS REQUIRED AND PROVIDED BY THE GRATING MANUFACTURER.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL USE PROTECTIVE COVERING OVER THE ROOF WATERPROOFING MEMBRANE ON ALL WORK, STORAGE AND TRAFFIC AREAS INCLUDING UNDER THE PLATFORM. THE PROTECTIVE COVERING SHALL BE ADEQUATE TO PREVENT ANY DAMAGE TO THE RUBBER WATERPROOFING MEMBRANE AND ROOF STRUCTURE. IN ORDER TO AVOID DAMAGE TO ROOF STRUCTURE AND RUBBER WATERPROOFING MEMBRANE, THE EQUIPMENTS, MATERIALS AND STRUCTURAL MEMBERS SHALL BE DISTRIBUTED SO THAT THE MAXIMUM UNIFORM LOAD ON THE ROOF WILL NOT EXCEED 20 PSF, BASED ON THE EXISTING ROOF FRAMING (SEE ATTACHED REFERENCE DRAWING) THE CONTRACTOR SHALL PREPARE WORKING DRAWINGS (CERTIFIED BY A PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND) SHOWING THE LAYDOWN AREAS AND THE DETAILS OF PROTECTIVE COVERING.
2. THE CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND ELECTRICAL GROUPS WHEN NECESSARY TO REROUTE EXISTING CONDUITS AND PIPES.

DRAWING LIST:

S-1 GENERAL NOTES AND INDEX OF DRAWINGS

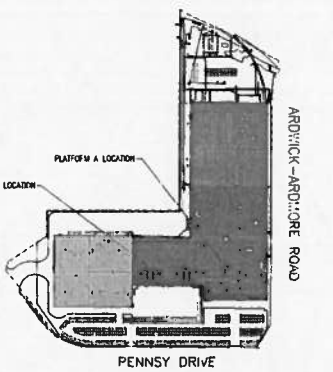
S-2 PLATFORM A STRUCTURAL FRAMING PLAN

S-3 STEEL TYPICAL CONNECTION SECTIONS AND DETAILS

S-4 PLATFORM B STRUCTURAL FRAMING PLAN

S-5 STEEL TYPICAL CONNECTION SECTIONS AND DETAILS

S-6 TYPICAL GUARD RAIL AND LADDER SECTIONS AND DETAILS



1 / S-1 CTF ROOF PLAN
NOT TO SCALE

CONTRACT NO. F000000

DESIGNED			
DRAWN			
CHECKED			
APPROVED			

REFERENCE DRAWINGS: NAMED | DESCRIPTION

REVISIONS: DATE | BY | DESCRIPTION

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

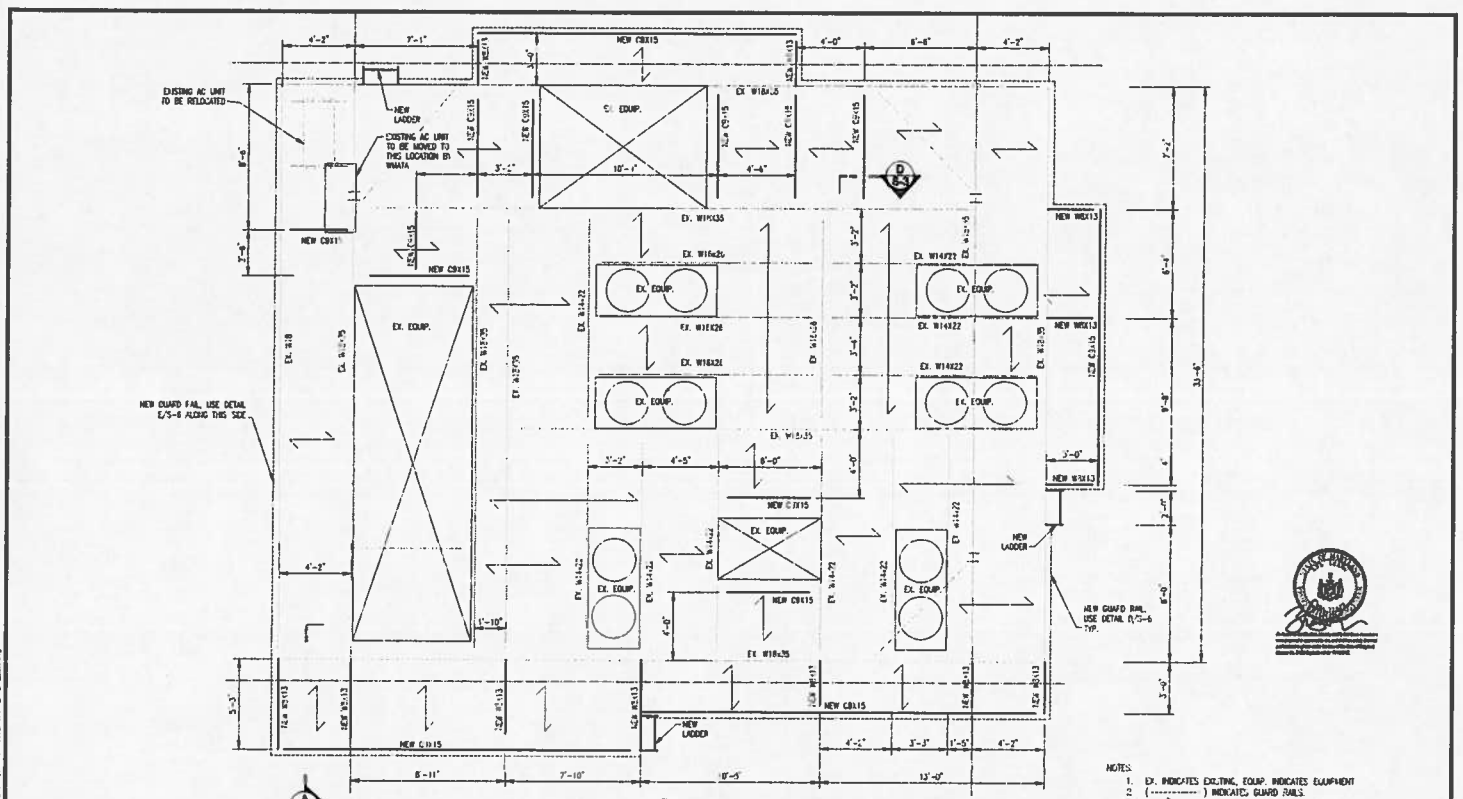
DEPARTMENT OF TRANSIT INFRASTRUCTURE & ENGINEERING SERVICES
CENI - OFFICE OF TRACK, STRUCTURES & FACILITIES

SUBMITTED BY: _____ APPROVED: _____

DATA CENTER & OCC HVAC ROOF TOP WORK PLATFORMS
GENERAL NOTES AND INDEX OF DRAWINGS

SCALE	DRAWING NO.	
NONE	S-1	MUDDB-601

210b



1 S-2 PLATFORM A STEEL FRAMING PLAN
SCALE: 3/8" = 1'-0"

CONTRACT NO. FQ00000

DESIGNED	S.S.	3/24/05 DATE	
DRAWN	S.S.	3/24/05 DATE	
CHECKED	S.S.	3/24/05 DATE	
APPROVED	S.S.	3/24/05 DATE	

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION

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DEPARTMENT OF TRANSIT INFRASTRUCTURE & ENGINEERING SERVICES
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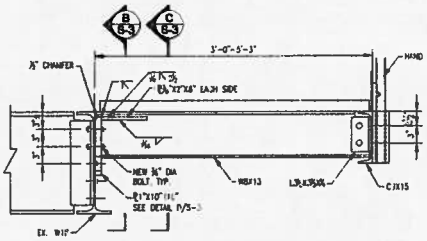
FORT CENTER & NICE HAVE BEST TOP WORK PLATFORMS

PLATFORM A
STRUCTURAL FRAMING PLAN

SCALE: AS NOTED | DRAWING NO. S-2 | MODEL-0-02

210 C



A S-3 TYPICAL W8 CANTILEVER TO W18
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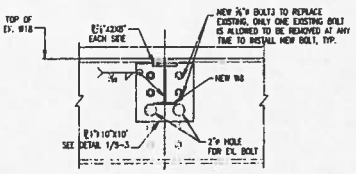

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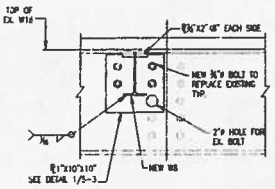

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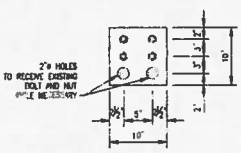

1 S-3 DETAIL 1
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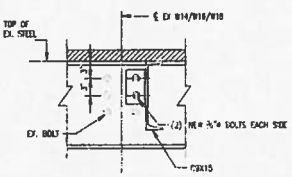

D S-3 TYPICAL C9 TO W SECTION
SCALE: 1 1/2" = 1'-0"

CONTRACT NO. FQ00000

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE & ENGINEERING SERVICES
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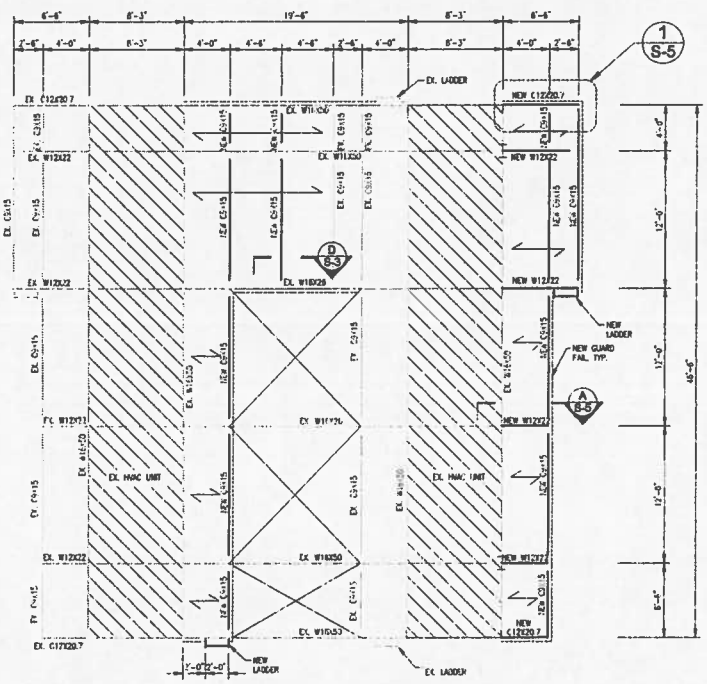
DRAWN BY: APPROVED:

DATA CENTER & [illegible] PAVE ROOF FOR WORK PLATFORMS

STEEL TYPICAL CONNECTION SECTIONS AND DETAILS

SCALE: AS NOTED | DRAWING NO. S-3

210 d



1 S-4 **PLATFORM B STEEL FRAMING PLAN**
SCALE: 1/4" = 1'-0"

CONTRACT NO. FQ00000

DESIGNED			
DRAWN			
CHECKED			
APPROVED			

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION

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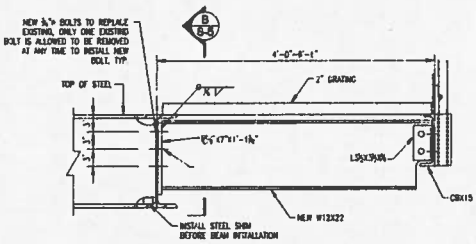
DEPARTMENT OF TRANSIT INFRASTRUCTURE & ENGINEERING SERVICES
CEN – OFFICE OF TRACK, STRUCTURES & FACILITIES

SUBMITTED BY: _____ APPROVED: _____

DATA CENTER & COOL HVAC RECLAIM WORK PLATFORMS
PLATFORM B
STRUCTURAL FRAMING PLAN

SCALE	DRAWING NO	
AS NOTED	S-4	M0000-004

210e



A S-5 TYPICAL W12 CANTILEVER TO W16
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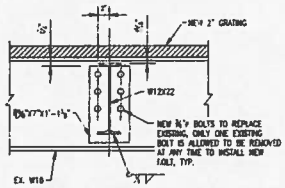

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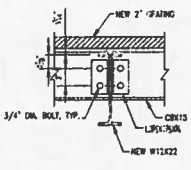

C S-5 TYPICAL C9 TO W12
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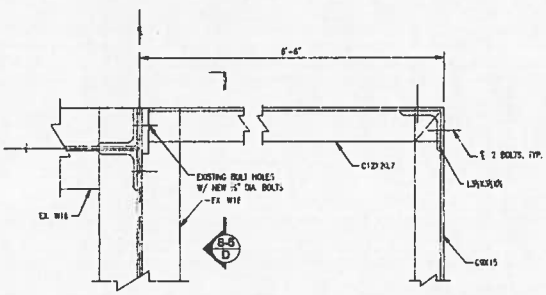

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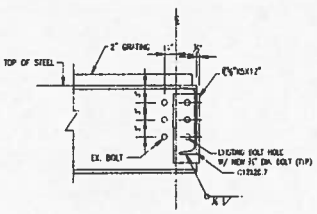

D S-5 SECTION
SCALE: 1 1/2" = 1'-0"

DESIGNED B.L. 3/24/05	REFERENCE DRAWINGS: NUMBER / DESCRIPTION	REVISIONS: DATE / BY / DESCRIPTION	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DRAWN: J.L. 3/24/05			DEPARTMENT OF TRANSIT INFRASTRUCTURE & ENGINEERING SERVICES CENI – OFFICE OF TRACK, STRUCTURES & FACILITIES
CHECKED B.Z. 3/24/05			SUBMITTED BY: ____ APPROVED: ____
APPROVED B.Z. 3/24/05			

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DATA CENTER & SOC HAND RAILS TOP WORK PLATFORMS

STEEL TYPICAL CONNECTION SECTIONS AND DETAILS

SCALE	DRAWING NO.	
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CONTRACT NO. FQ00000

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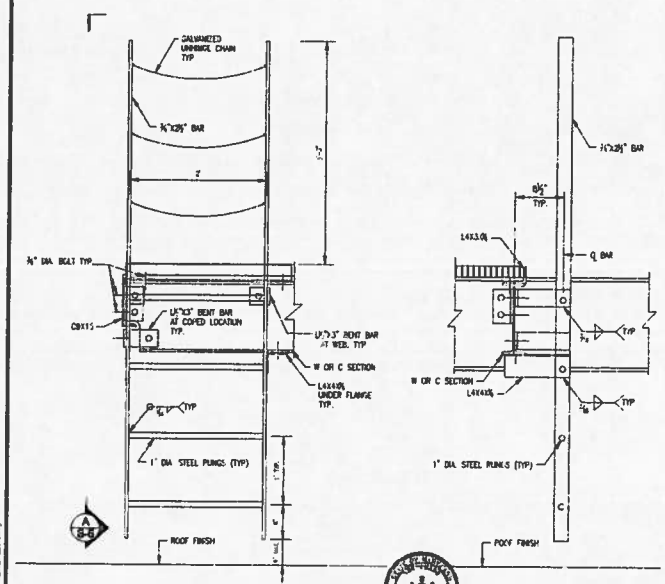
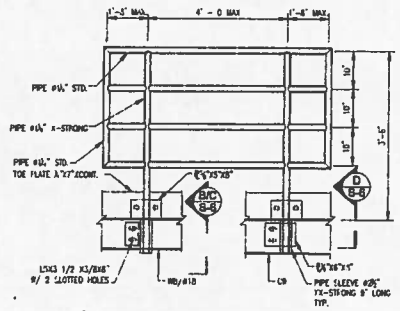


1 S-6 TYPICAL LADDER ELEVATION
SCALE: 1 1/2" = 1'-0"

A S-6 SECTION
SCALE: 1 1/2" = 1'-0"



2 S-6 TYPICAL GUARD RAIL UNIT
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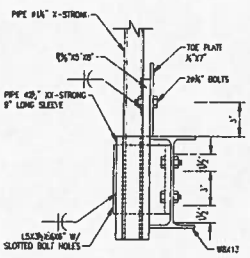

B S-6 TYPICAL DETAIL
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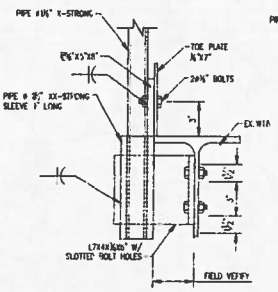

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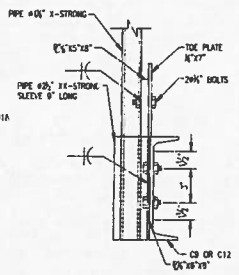

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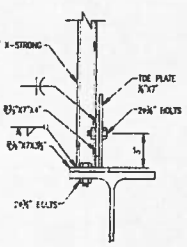

E S-6 TYPICAL DETAIL
SCALE: 3" = 1'-0"

DESIGNED			
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CHECKED			
APPROVED			

REFERENCE DRAWINGS

DRAWING	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE & ENGINEERING SERVICES
CEDR – OFFICE OF TRACK, STRUCTURES & FACILITIES

SUBMITTED BY: _____ APPROVED: _____

CONTRACT NO. F000000

DATA CENTER & ECC HVAC ROOF TOP WORK PLATFORMS

TYPICAL GUARD RAIL AND LADDER SECTIONS AND DETAILS

SCALE: AS NOTED | DRAWING NO. S-6 | 000000-00

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