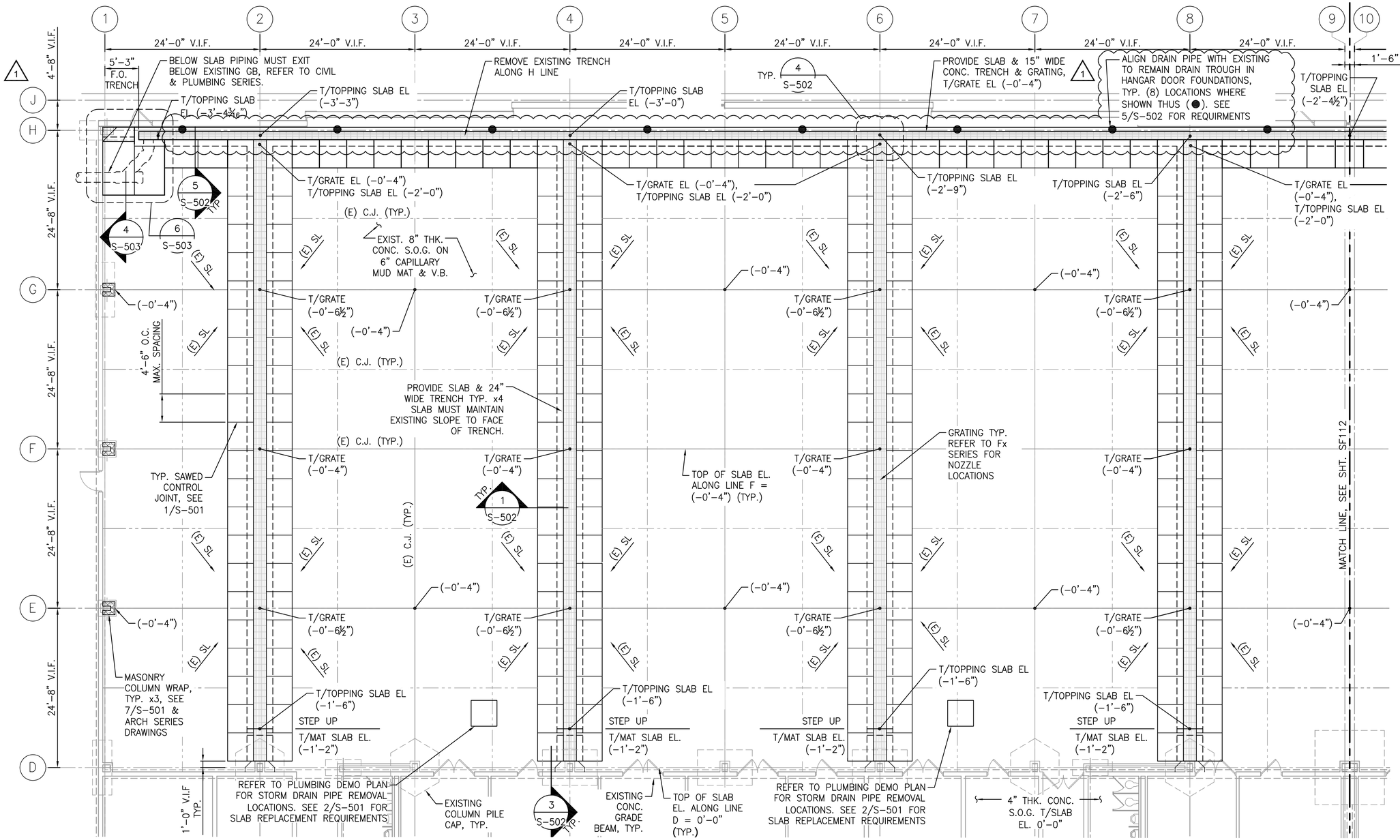

SHEET NOTES

1. DATUM EL. 0'-0" = TOP OF EXISTING HANGAR FLOOR SLAB ALONG GRID LINE D.
2. TOP OF EXISTING HANGAR FLOOR SLAB EL. VARIES AND IS NOTED THUS (-#'-#") FROM DATUM EL. 0'-0".
3. TOP OF NEW HANGAR FLOOR SLAB EL. (-0'-0 3/16") BELOW TOP OF EXISTING HANGAR FLOOR SLAB EL. TO ACCOMMODATE DEPTH OF NEW EPOXY FLOOR COATING.
4. TOP OF TRENCH MAT SLAB EL., PARALLEL TO HANGAR DOORS, ALONG GRID LINE H, IS (-3'-4 3/16") FROM DATUM EL. 0'-0". TOP OF TRENCH MAT SLAB EL. ALONG GRID LINES 2,9,6,8,11,13,15,17,20,22,24,&26 BETWEEN GRID LINES D&H IS (-2'-0") FROM DATUM EL. 0'-0".
5. TOP OF SLOPED TOPPING SLAB EL. VARIES, SEE PLAN FOR TOPPING SLAB EL. FROM DATUM EL. 0'-0". TOPPING SLAB TO MAINTAIN A 1/16" PER FT. MIN. SLOPE BETWEEN ELEVATION CALLOUTS.
6. TOP OF GRATING EL. IS NOTED THUS (-#'-#") FROM DATUM EL. 0'-0" ON PLAN. TOP OF GRATING EL. TO MATCH TOP OF EXISTING HANGAR FLOOR SLAB EL. V.I.F.
7. TOP OF EXISTING GRADE BEAMS & PILE CAPS ARE (-2'-0") U.N.O. (V.I.F)
8. SEE S-001 THROUGH S-005 FOR GENERAL NOTES AND S-501 FOR TYPICAL DETAILS
9. MAINTAIN EXISTING STATIC GROUND SYSTEM. REFER TO ELECTRICAL SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
10. EXISTING STATIC GROUND RECEPTACLE TO REMAIN. REFER TO ELECTRICAL SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
11. REFER TO ARCH. DRAWINGS FOR EPOXY FLOOR COATING REQUIREMENTS. MINIMUM CONCRETE CURE TIME, MAXIMUM CONCRETE MOISTURE CONTENT AND MINIMUM SURFACE ROUGHNESS MUST COMPLY WITH MFR. INSTALLATION RECOMMENDATIONS AND REQUIREMENTS.

1 PARTIAL SLAB PLAN

SCALE: 1/8" = 1'-0"

PROJECT NORTH

CAUTION: IF THIS PLAN IS A REDUCTION, GRAPHIC SCALE MUST BE USED

0 4' 8' 12' 16'

1/8" = 1'-0

KEY PLAN

A	B	C
D	E	F

NO	DESCRIPTION	DATE	APPR
2	NOTE REMOVED	6/13/2016	
1	ADD HANGAR DOOR TROUGHS	5/12/2016	
1	FINAL SUBMISSION	5/2/2016	

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A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES JL DRW KGM CHK DMS

PM/DM KPL/IAS

BRANCH MANAGER

CHIEF ENG/ARCH Mark J. Airaghi, PE

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAS OCEANA ~ VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA
HAMPTON ROADS IPT

HANGAR 111 FIRE PROTECTION AND STRUCTURAL REPAIRS

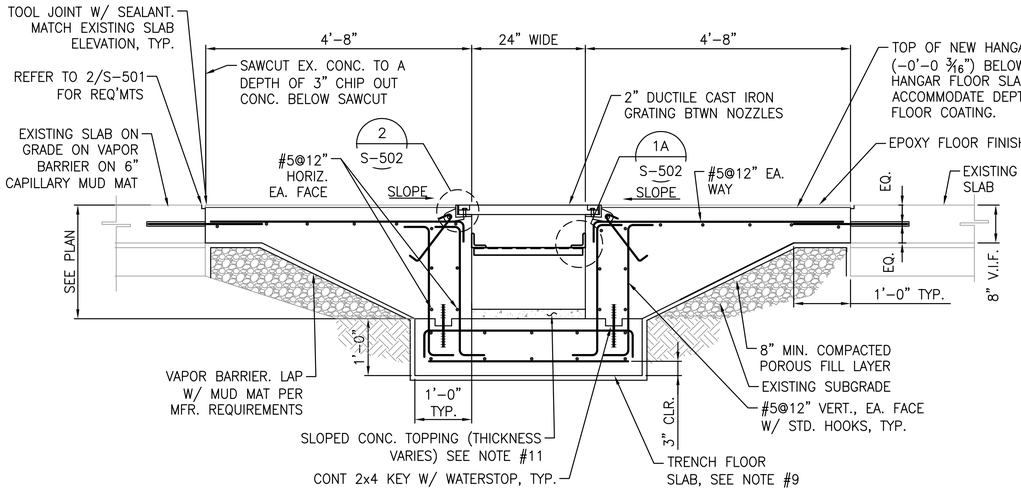
FOUNDATION AND SLAB PLAN - AREA A

SCALE: NO SCALE
EPROJECT NO.: 1372146
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12716255
SHEET 33 OF 170

SF111

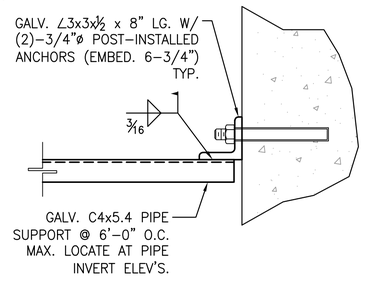
DRAWFORM REVISION: 10 MAY 2014

FILE NAME: P:\Projects\GHSV\GHSV01501 - NAVFAC Hangar 111\DESIGN\S\1372146_SF111.dwg LAYOUT NAME: SF111 PLOTTED: Monday, June 13, 2016 - 1:56pm USER: KMasser



1 TYPICAL TRENCH DETAIL

SCALE: 3/4" = 1'-0" SF111, SF112, SF113

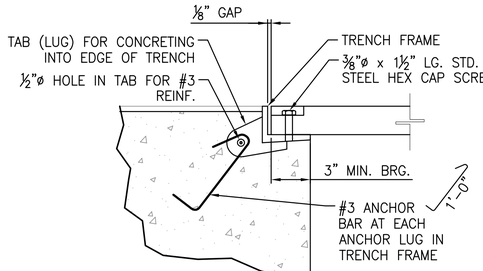


1A PIPE SUPPORT DETAIL

SCALE: N.T.S.

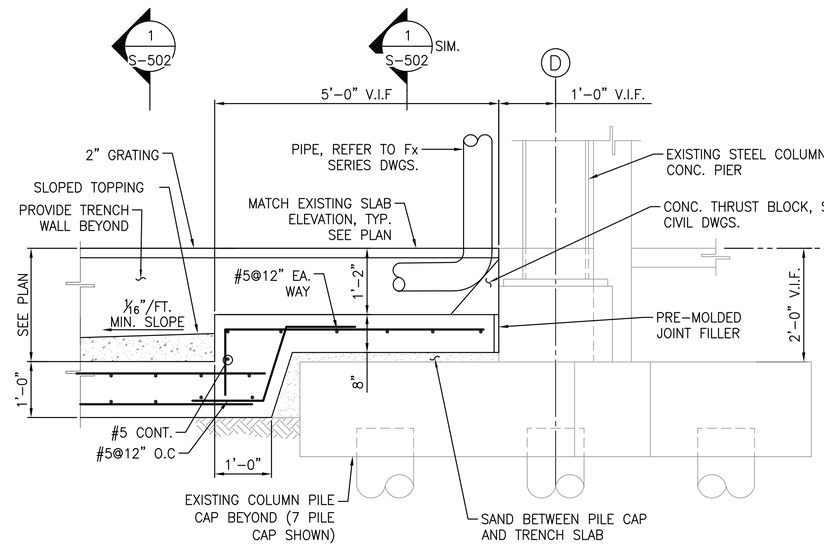
TRENCH NOTES

1. ALL ELEVATIONS ARE MEASURED FROM TOP OF EXISTING SLAB ELEVATION AT HIGH POINT AT DATUM ELEVATION 0'-0", ACTUAL ELEVATION _'._" (V.I.F.)
2. REMOVE ALL CONCRETE SLABS AND PROVIDE A ROUGHENED INTERFACE TO FACILITATE AGGREGATE INTERLOCK. LIMITS OF SLAB DEMOLITION ARE INDICATED IN DETAILS.
3. THE CONTRACTING OFFICER MUST APPROVE THE EXCAVATION, SELECTION OF FILL MATERIAL, AND COMPACTION OF FILL.
4. PROVIDE A MINIMUM ONE-FOOT WIDE SHOULDER OF UNDISTURBED SUBGRADE MATERIAL AT THE EDGES OF ALL TRENCH EXCAVATIONS TO PREVENT UNDERMINING OF THE EXISTING CONCRETE SLAB.
5. ALL EXCAVATIONS MUST MAINTAIN A MAXIMUM SLOPE OF 2 HORIZONTAL: 1 VERTICAL. PROVIDE SHEET PILING OR OTHER SHORING AS REQUIRED TO PREVENT UNDERMINING OF EXISTING CONSTRUCTION IN THE AREA OF THE EXCAVATIONS WHEREVER THE SIDES OF THE EXCAVATIONS WILL BE STEEPER THAN THE MAXIMUM SLOPED STATED.
6. AFTER THE TRENCH EXCAVATIONS ARE MADE, BUT PRIOR TO PLACING FOUNDATION REINFORCING, INSPECT THE BOTTOMS TO VERIFY THAT THE SUPPORTING SOILS ARE ADEQUATE TO SUPPORT THE TRENCHES AND FLOOR LOADING.
7. REFER TO FX SERIES FOR NOZZLE LOCATIONS, PROVIDE GRATING BETWEEN NOZZLES.
8. PROVIDE GRAY, DUCTILE CAST IRON EXTRA HEAVY DUTY TRENCH GRATING, RATED TO SUPPORT THE FOLLOWING AIRCRAFT LOADS IN AREAS TO RECEIVE GRATING:
   AIRCRAFT WHEEL LOAD 100 KIPS
   AIRCRAFT TIRE PRESSURE 250 PSI
   COORDINATE TRENCH GRATES WITH SEPARATE CAST SECTIONS TO ACCOMMODATE AFFF SPRINKLER NOZZLES. PROVIDE TRENCH GRATES WITH SEPARATE CAST IRON FRAME SECTIONS FOR EMBEDMENT INTO CONCRETE.
9. PROVIDE TRENCH SLAB NORMAL WEIGHT CONCRETE PLACED 12" THICK REINFORCED W/ #5@12" O.C. T&B. TOP OF TRENCH SLAB TO BE AT A LEVEL SURFACE ELEVATION AS INDICATED ON PLAN.
10. ONCE TRENCH SLAB CURES PLACE SLOPED CONCRETE TOPPING, REFER TO SLAB PLAN DRAWINGS (SF111, SF112 & SF113) FOR TOPPING SLAB ELEVATIONS. PROVIDE 1/16"/FT. MIN. SLOPE BETWEEN ELEVATIONS CALLOUTS.



2 GRATING DETAIL

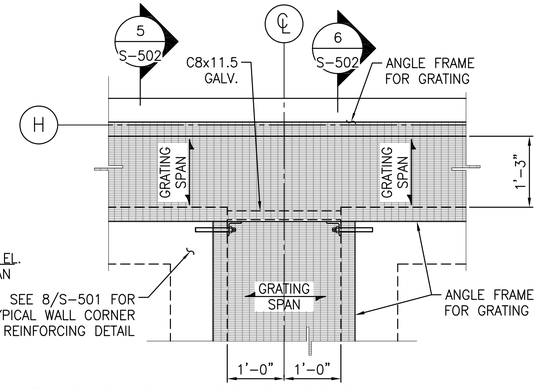
SCALE: N.T.S. S-502



SEE 1/S-502 FOR ADD'L REQUIREMENTS

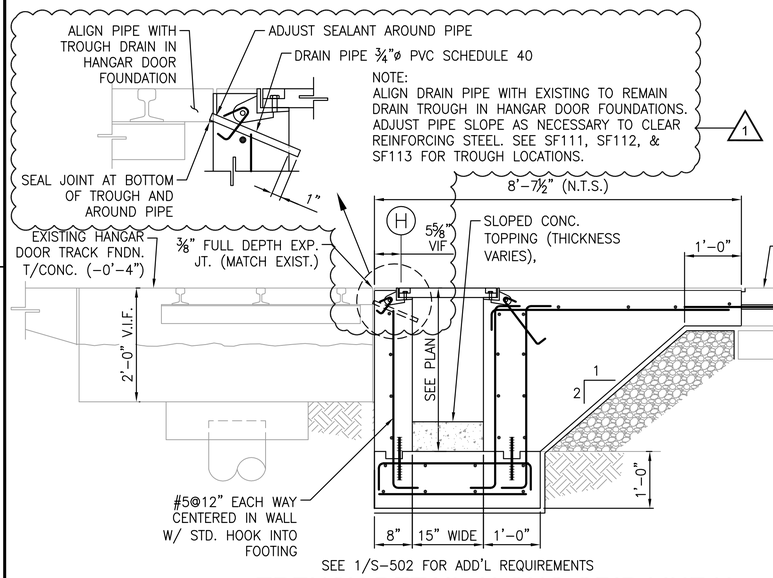
3 DETAIL AT TRENCH END

SCALE: 3/4" = 1'-0" SF111, SF112, SF113



4 TRENCH INTERSECTION DETAIL

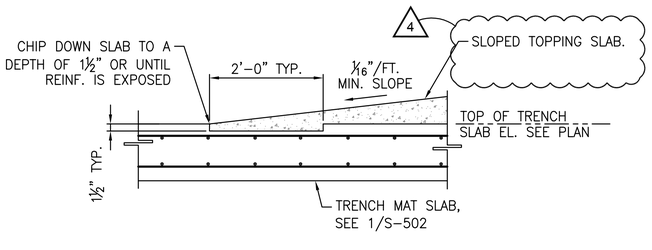
SCALE: 3/4" = 1'-0" SF111, SF112, SF113



SEE 1/S-502 FOR ADD'L REQUIREMENTS

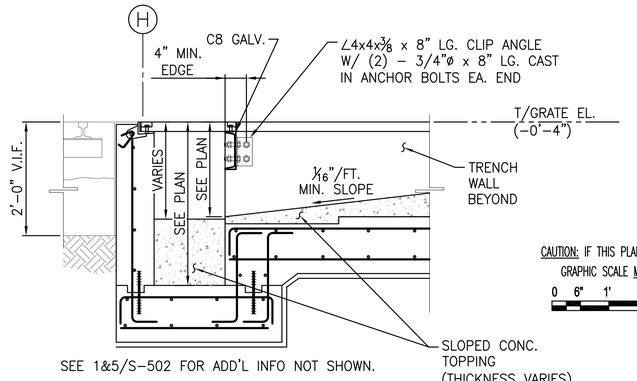
5 TRENCH DETAIL ALONG GRID LINE H

SCALE: 3/4" = 1'-0" S-502



7 TYPICAL SLOPED TOPPING SLAB AT TRENCH

SCALE: 3/4" = 1'-0"



SEE 1&5/S-502 FOR ADD'L INFO NOT SHOWN.

6 SECTION

SCALE: 3/4" = 1'-0" S-502

CAUTION: IF THIS PLAN IS A REDUCTION, GRAPHIC SCALE MUST BE USED

0 6" 1' 2' 3'

¾" = 1'-0

SYM	DESCRIPTION	DATE	APPR
3	NOTE REMOVED	6/13/2016	
2	ADDED DRAIN PIPE DETAIL	5/12/2016	
1	FINAL SUBMISSION	5/2/2016	

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FIRE PROTECTION

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NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
NAS OCEANA ~ VIRGINIA BEACH, VIRGINIA
NAVAL AIR STATION OCEANA VIRGINIA BEACH, VIRGINIA

HANGAR 111 FIRE PROTECTION AND STRUCTURAL REPAIRS

DETAILS - STRUCTURAL

SCALE: AS SHOWN
EPROJECT NO.: 1372146
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12716266
SHEET 44 OF 170

S-502

DRAWFORM REVISION: 10 MAY 2014

FILE NAME: P:\Projects\GHDG\GHDG1501~NAVFAC Hangar 111\DESIGN\S\1372146_S502.dwg LAYOUT NAME: S502 PLOTTED: Monday, June 13, 2016 - 1:49pm USER: KMasser