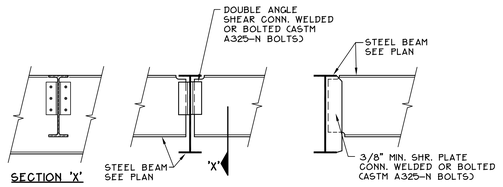
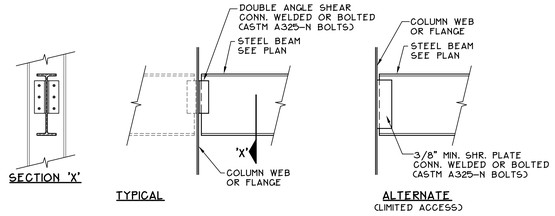
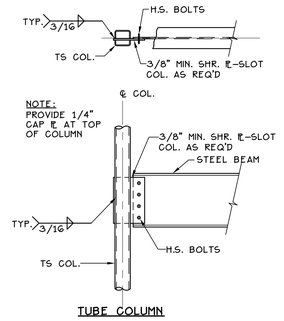


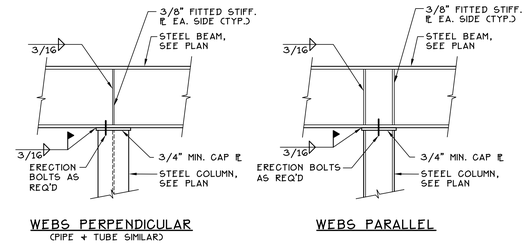
DETAIL 1/S500 N.T.S.
BEAM TO BEAM SHEAR CONNECTIONS



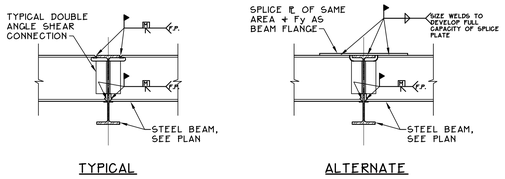
DETAIL 2/S500 N.T.S.
BEAM TO WIDE FLANGE COLUMN SHEAR CONNECTION



DETAIL 3/S500 N.T.S.
BEAM TO COLUMN SHEAR CONNECTION

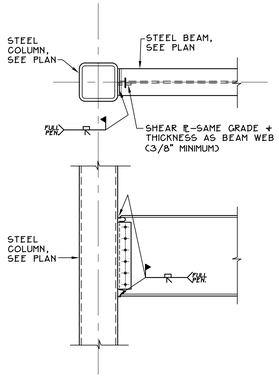


DETAIL 4/S500 N.T.S.
TYPICAL BEAM CANTILEVER ACROSS STEEL COLUMN

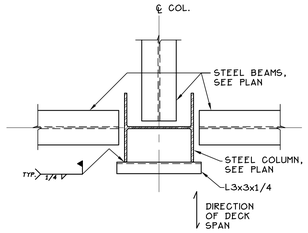


NOTES:
1. FOR CANTILEVER BEAMS MARKED THUS ◄ IN PLAN.
2. F.P. = FULL PENETRATION GROOVE WELD.

DETAIL 5/S500 N.T.S.
TYPICAL CANTILEVER BEAM AT GIRDER

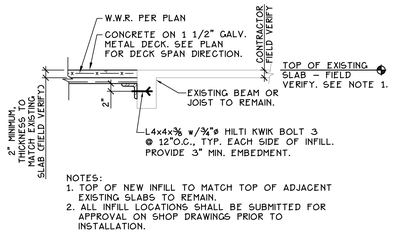


DETAIL 6/S500 N.T.S.
TYPICAL MOMENT CONNECTION TO TUBE COLUMN



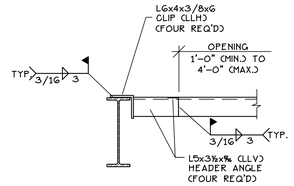
NOTE:
DECK SUPPORT ANGLES ARE REQUIRED AT COLUMN FACES WHERE THERE IS NO BEAM OR OTHER SUPPORT FOR THE DECK.

PLAN DETAIL 7/S500 N.T.S.
TYPICAL METAL DECK SUPPORT AT INTERIOR COLUMN

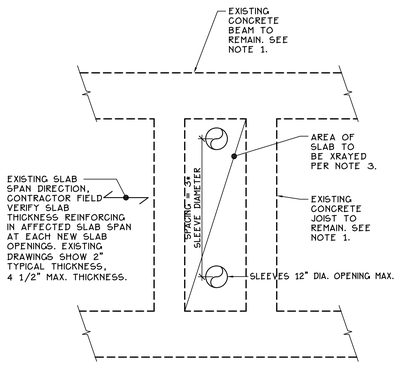


NOTES:
1. TOP OF NEW INFILL TO MATCH TOP OF ADJACENT EXISTING SLABS TO REMAIN.
2. ALL INFILL LOCATIONS SHALL BE SUBMITTED FOR APPROVAL ON SHOP DRAWINGS PRIOR TO INSTALLATION.

DETAIL 8/S500 3/4" = 1'-0"
NEW SLAB INFILL

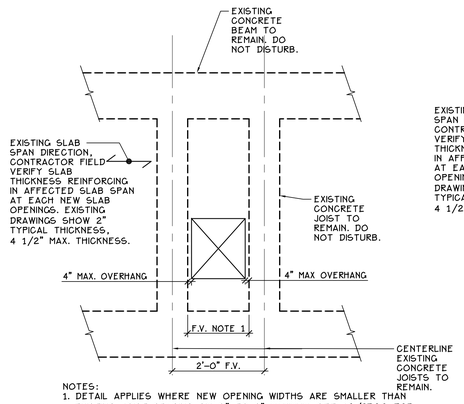


DETAIL 9/S500 3/4" = 1'-0"
TYPICAL ROOF OPENING



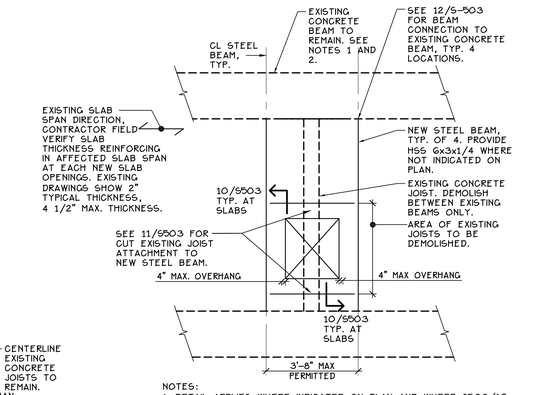
NOTES:
1. SLEEVES MAY BE LOCATED IN EXISTING CONCRETE SLAB ONLY. NO NEW SLEEVES OR OPENINGS SHALL BE PLACED THROUGH EXISTING CONCRETE JOISTS, BEAMS, OR COLUMNS.
2. CENTER TO CENTER SPACING OF ADJACENT SLEEVES SHALL BE A MINIMUM OF 3 TIMES THE LARGER SLEEVE DIAMETER IN PLAN (ALL DIRECTIONS.)
3. DO NOT CUT EXISTING SLAB REINFORCEMENT. CONTRACTOR SHALL XRAY EXISTING SLABS. RESULTING XRAY REPORT SHALL CLEARLY INDICATE REINFORCING SIZE, DEPTH, AND SPACING AND LOCATION AND SLAB THICKNESS. REPORT INDICATING THIS FIELD VERIFIED INFORMATION SHALL BE PROVIDED TO ARCHITECT/ENGINEER AS A SUBMITTAL PRIOR TO CUTTING OPENINGS.
4. SUBMIT SHOP DRAWING OF NEW SLEEVE LAYOUTS TO STRUCTURAL ENGINEER FOR APPROVAL.

PLAN 10/S500 N.T.S.
NEW SLEEVES OR OPENINGS THROUGH EXISTING SLABS, 12"X12", 14"X8" OR SMALLER



NOTES:
1. DETAIL APPLIES WHERE NEW OPENING WIDTHS ARE SMALLER THAN EXISTING JOIST SPACING BY 0" TO 8" MAXIMUM. SEE 10/S500 FOR SMALLER OPENINGS AND 12/S500 FOR OPENING SIZES EXCEEDING THE EXISTING JOIST SPACING.
2. CONTRACTOR FIELD VERIFY CLEAR SPACING BETWEEN EXISTING JOISTS TO REMAIN AT NEW LARGE OPENINGS. CENTER NEW OPENING BETWEEN EXISTING JOISTS TO REMAIN. IN NO CASE SHALL EXISTING SLAB TO REMAIN CANTILEVER OVER EXISTING JOIST TO REMAIN BY MORE THAN 4".
3. XRAY OF EXISTING SLAB IS NOT REQUIRED FOR NEW OPENINGS FOR WHICH THIS DETAIL APPLIES.
4. SUBMIT SHOP DRAWING OF NEW OPENING LAYOUTS TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CUTTING OPENINGS.
5. "F.V." INDICATES DIMENSION TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CUTTING NEW OPENING.

PLAN 11/S500 N.T.S.
LARGE OPENINGS BETWEEN JOISTS WITH 8" OR LESS TOTAL OVERHANG



NOTES:
1. DETAIL APPLIES WHERE INDICATED ON PLAN AND WHERE S500/10 AND 11 ARE NOT APPLIGABLE.
2. XRAY OF EXISTING BEAMS TO WHICH NEW STEEL WILL BE ATTACHED IS REQUIRED AT ALL LOCATIONS WHERE DETAIL IS USED. RESULTING XRAY REPORT SHALL CLEARLY INDICATE REINFORCING SIZE, DEPTH, AND SPACING AND LOCATION AND BEAM DIMENSIONS. REPORT INDICATING THIS FIELD VERIFIED INFORMATION SHALL BE PROVIDED TO ARCHITECT/ENGINEER AS A SUBMITTAL PRIOR TO CUTTING OPENINGS.
3. SUBMIT SHOP DRAWING OF NEW OPENING LAYOUTS TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CUTTING OPENINGS.
4. STEEL BEAM LOCTIONS ON PLAN MAY VARY FROM THAT SHOWN DUE TO OPENING GEOMETRY AND LOCATION IN EXISTING STRUCTURE. WHERE BEAM LAYOUT AROUND OPENING IS SHOWN ON STRUCTURAL PLANS, THAT LAYOUT TAKES PRECEDENCE OVER PLAN LAYOUT THIS DETAIL. ALL OTHER NOTES AND SECTIONS THIS DETAIL APPLY REGARDLESS OF PLAN CONFIGURATION.

PLAN 12/S500 N.T.S.
TYPICAL LARGE OPENINGS UP TO 3'-8"x3'-8"

FULLY SPRINKLERED
BID DOCUMENTS

Revisions:	Date

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Drawing Title: TYPICAL SUPERSTRUCTURE DETAILS	Project Title: BUILDING 9 - SECOND FLOOR RENOVATION		Project Number: 542-13-105
			Building Number: 9
Approved: Project Director	Location: 1400 Blackhorse Hill Road Coatesville, PA 19320		Drawing Number: S500
	Date: 05 / 12 / 14	Checked: SLS	Drawn: MTH

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Office of Construction and Facilities Management
Department of Veterans Affairs

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