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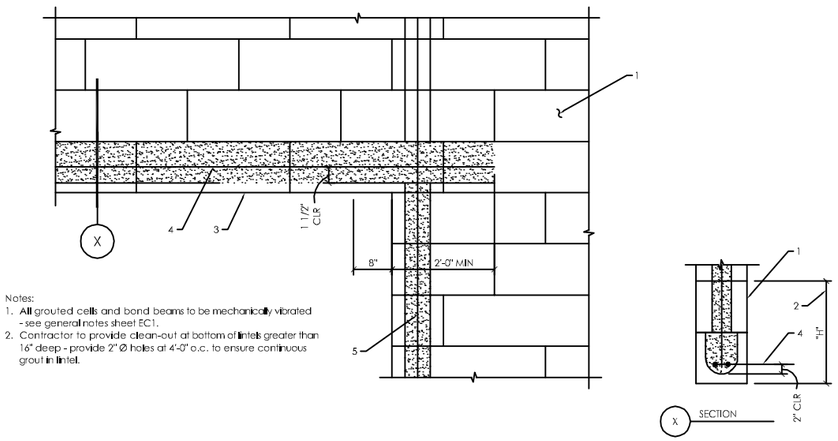
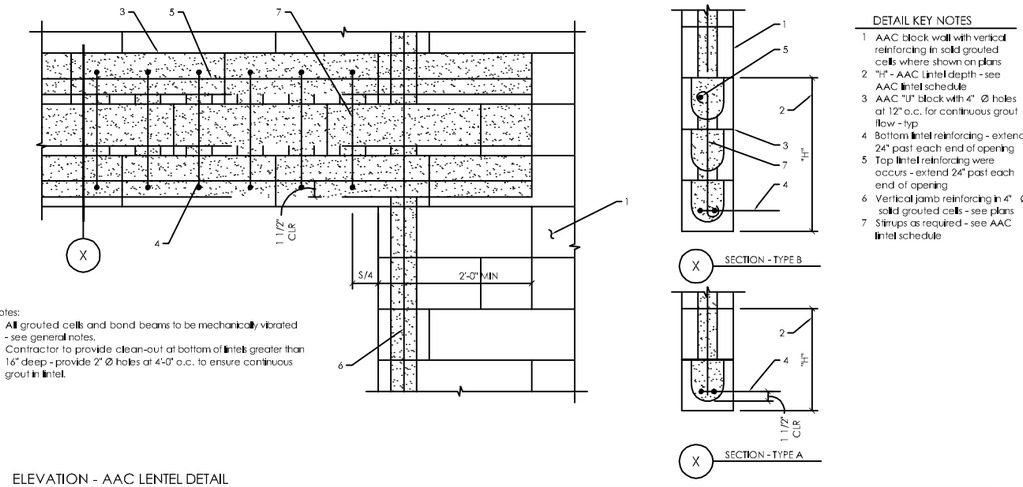
AAC Lintel Details



Notes:
1. All grouted cells and bond beams to be mechanically vibrated - see general notes sheet EC1.
2. Contractor to provide clean-out at bottom of lintels greater than 16" deep - provide 2" Ø holes at 4'-0" o.c. to ensure continuous grout in lintel.

DETAIL KEY NOTES
1. AAC block wall with vertical reinforcing in solid grouted cells where shown on plans
2. "H" - AAC Lintel depth - see AAC lintel schedule
3. AAC "U" block with 4" Ø holes at 12" o.c. for continuous grout flow - typ
4. Bottom lintel reinforcing - extend 24" past each end of opening
5. Vertical jamb reinforcing in 4" Ø solid grouted cells - see plans

ELEVATION - AAC LINTEL DETAIL
18001



Notes:
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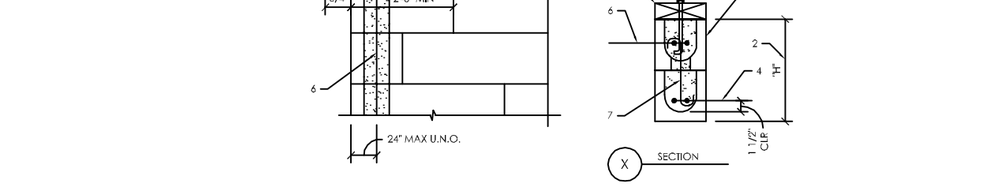
6. Vertical jamb reinforcing in 4" Ø solid grouted cells - see plans
7. Stirrups as required - see AAC lintel schedule

ELEVATION - AAC LENTEL DETAIL
18002



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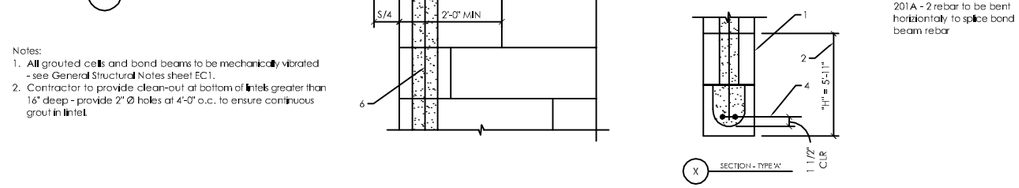
5. Top lintel reinforcing - extend 24" past each end of opening
6. Vertical jamb reinforcing in 4" Ø solid grouted cells - see plans
7. Stirrups as required - see AAC lintel schedule
8. Continuous wood plate - see related details

ELEVATION - AAC LINTEL DETAIL
18003



Notes:
1. All grouted cells and bond beams to be mechanically vibrated - see General Structural Notes sheet EC1.
2. Contractor to provide clean-out at bottom of lintels greater than 16" deep - provide 2" Ø holes at 4'-0" o.c. to ensure continuous grout in lintel.

DETAIL KEY NOTES
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5. Top lintel reinforcing - extend 24" past each end of opening
6. Vertical jamb reinforcing in 4" Ø solid grouted cells - see plans
7. Stirrups as required - see AAC lintel schedule
8. Continuous wood plate typical - see specific details for attachment
9. 60° Hooked bottom rebar at 201A - 2 rebar to be bent horizontaly to splice bond beam rebar

ELEVATION - AAC LINTEL DETAIL
18004

Notes:
1. All grouted cells and bond beams to be mechanically vibrated - see general notes sheet EC1.
2. Contractor to provide clean-out at bottom of lintels greater than 16" deep - provide 2" Ø holes at 4'-0" o.c. to ensure continuous grout in lintel.

DETAIL KEY NOTES
1. AAC block wall with vertical reinforcing in solid grouted cells where shown on plans
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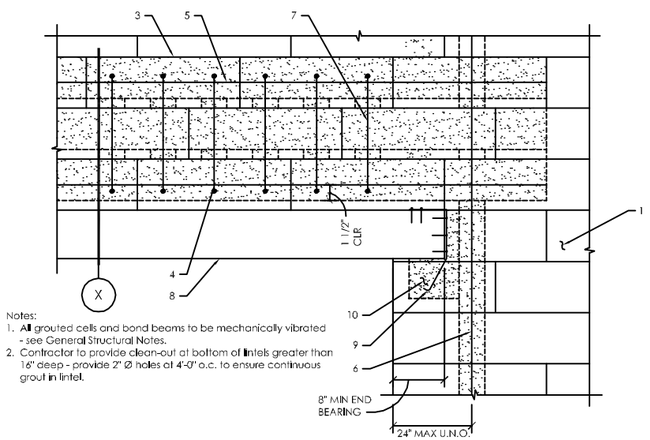
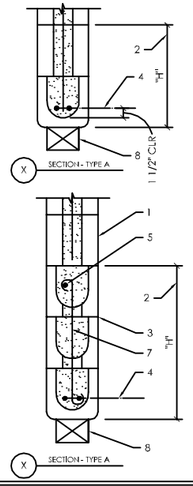
4. Bottom lintel reinforcing - extend 24" past each end of opening
5. Top lintel reinforcing - extend 24" past each end of opening
6. Vertical jamb reinforcing in 4" Ø solid grouted cells - see plans
7. Stirrups as required - see AAC lintel schedule

ELEVATION - AAC LINTEL DETAIL
18005

18001-18005





DETAIL KEY NOTES

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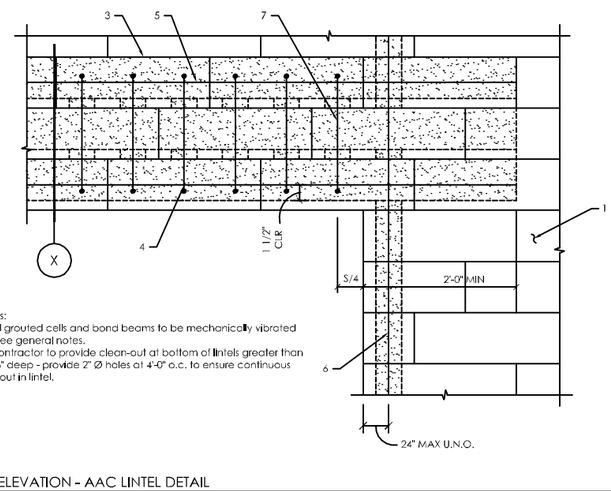
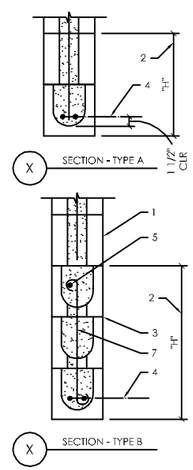
4. Bottom lintel reinforcing - extend 24" past each end of opening
5. Top lintel reinforcing were occurs - extend 24" past each end of opening
6. Vertical jamb reinforcing in 4" Ø solid grouted cells - where shown on plans
7. Stirrups where shown on plans - see AAC lintel schedule
8. Exposed architectual wood header - provide a moisture barrier membrane between wood header and AAC block
9. Simpson HETA2 strap nailed to back side of wood header
10. Solid grout 6" around strap

Notes:
1. All grouted cells and bond beams to be mechanically vibrated - see General Structural Notes.
2. Contractor to provide clean-out at bottom of lintels greater than 16" deep - provide 2" Ø holes at 4'-0" o.c. to ensure continuous grout in lintel.

ELEVATION - AAC LINTEL DETAIL

18006





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6. Vertical jamb reinforcing in 4" Ø solid grouted cells - where shown on plans
7. Stirrups where shown on plans - see AAC lintel schedule

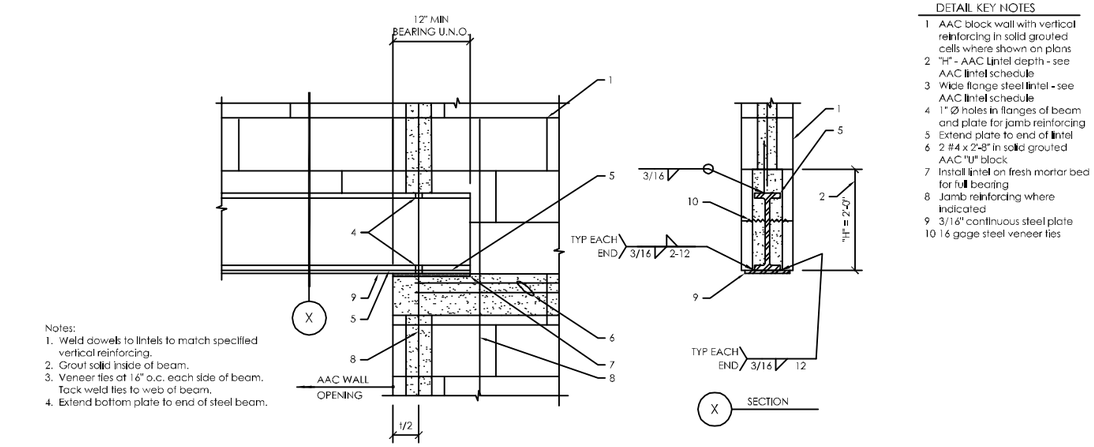
Notes:
1. All grouted cells and bond beams to be mechanically vibrated - see general notes.
2. Contractor to provide clean-out at bottom of lintels greater than 16" deep - provide 2" Ø holes at 4'-0" o.c. to ensure continuous grout in lintel.

ELEVATION - AAC LINTEL DETAIL

18007

E-CRETE

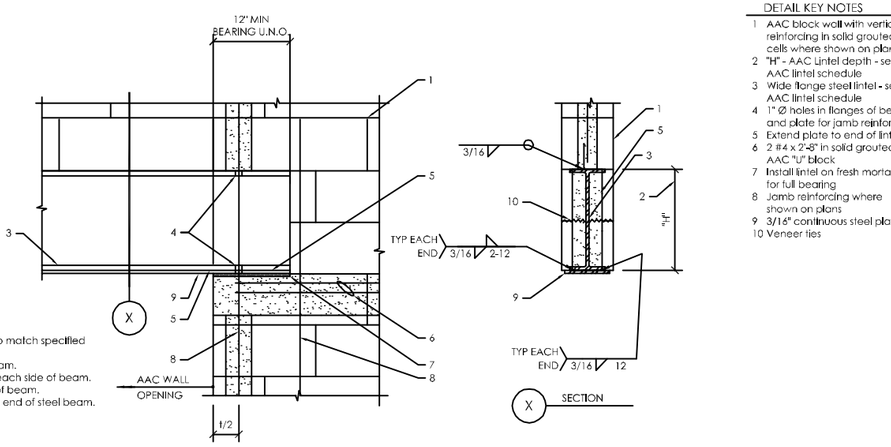
18006-18007



Notes:
1. Weld dowels to lintels to match specified vertical reinforcing.
2. Grout solid inside of beam.
3. Veneer ties at 16" o.c. each side of beam. Tack weld ties to web of beam.
4. Extend bottom plate to end of steel beam.

DETAIL KEY NOTES
1 AAC block wall with vertical reinforcing in solid grouted cells where shown on plans
2 "H" - AAC Lintel depth - see AAC lintel schedule
3 Wide flange steel lintel - see AAC lintel schedule
4 1" Ø holes in flanges of beam and plate for jamb reinforcing
5 Extend plate to end of lintel
6 2 #4 x 2'-8" in solid grouted AAC "U" block
7 Install lintel on fresh mortar bed for full bearing
8 Jamb reinforcing where indicated
9 3/16" continuous steel plate
10 16 gage steel veneer ties

ELEVATION - AAC LINTEL WITH WIDE FLANGE STEEL LINTEL BEARING
18101



Notes:
1. Weld dowels to lintels to match specified vertical reinforcing.
2. Grout solid inside of beam.
3. Veneer ties at 16" o.c. each side of beam. Tack weld ties to web of beam.
4. Extend bottom plate to end of steel beam.

DETAIL KEY NOTES
1 AAC block wall with vertical reinforcing in solid grouted cells where shown on plans
2 "H" - AAC Lintel depth - see AAC lintel schedule
3 Wide flange steel lintel - see AAC lintel schedule
4 1" Ø holes in flanges of beam and plate for jamb reinforcing
5 Extend plate to end of lintel
6 2 #4 x 2'-8" in solid grouted AAC "U" block
7 Install lintel on fresh mortar bed for full bearing
8 Jamb reinforcing where shown on plans
9 3/16" continuous steel plate
10 Veneer ties

ELEVATION - AAC LINTEL WITH WIDE FLANGE STEEL LINTEL BEARING
18102

DETAIL KEY NOTES
1 AAC block wall with vertical wall reinforcing in solid grouted cells where shown on plans
2 Steel beam
3 Bearing plate with 2 - 3/4" Ø a.b. - by others
4 1" drypack
5 2 #4 x 4'-0" long centered under beam in solid grouted AAC "U" block

STEEL BEAM AT AAC BLOCK WALL
18103

AAC-CRETE

18101-18103

DETAIL KEY NOTES

1. PRODUCT NAME (PATENT NO. 5465538, SBCCI PST & ESI 9597B)

   PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A570 GRADE C (FY = 40ksi). BOTTOM FLANGE DEFORMATIONS, AT CONTRACTORS OPTION, MAY RUN PARALLEL TO THE LINTEL OR TRANSVERSE TO THE BOTTOM FLANGE.

   NOTE: DEFORMATIONS DO NOT EFFECT STRUCTURAL CAPACITY.

2. SHORE LINTELS AS REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT.

3. LINTEL TO BE USED WITH E-CRETE AAC BLOCK UNITS HAVING MINIMUM DENSITY AS SHOWN.

4. STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.

5. BEARING EACH END SHALL BE 4".

6. E-CRETE AAC BLOCK UNITS SHALL CONFORM TO ASTM C1386, AND ICC ESR-1371. MINIMUM DENSITY = 31 PCF.

7. GROUT = 2,000 psi. SLUMP RANGE: 6" TO 9". ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-83 AND BE COARSE GROUT.

8. MORTAR: E-CRETE THIN SET JOINT TYPE F'c = 1450 psi. PER ICC ESR-1371.

9. WHERE TOP OF WALL IS TOP OF LINTEL, REINFORCING IS REQUIRED BY CODES TO PROVIDE A CONTINUOUS TIE AROUND A STRUCTURE AND TO PROVIDE FOR UPLIFT RESISTANCE AT LINTELS. WHERE TOP OF LINTEL IS NOT TOP OF WALL, TOP LINTEL REINFORCING IS REQUIRED WHERE STIRRUPS ARE REQUIRED. TOP REINFORCING IS REQUIRED AT SPANS GREATER THAN 6'-0".

10. ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS.

11. STEEL STIRRUPS SHALL CONFORM TO ASTM A82 Fy=60 ksi MINIMUM. STIRRUPS SHALL BE 5/16" DIAMETER SMOOTH ROD. AN ALTERNATE SIZE STEEL STIRRUP SHALL BE 2-5/16'S X 2" X LINTEL HEIGHT MINUS 2" PER SKETCH:

   STIRRUP PLACEMENT: 16" DEEP AND DEEPER LINTELS STIRRUPS AT 12" O.C. WHERE CALLED OUT STIRRUPS SHALL BE 1-1/2" CLEAR FROM TOP OF GROUT.

   PLACE FIRST STIRRUP 6" FROM FACE OF JAMB AS SHOWN PLUS OR MINUS 1".

12. E-CRETE AAC WALL MAY OCCUR ABOVE COMPOSITE LINTEL HEIGHT. IN THE CASE THAT THE E-CRETE AAC WALL IS TWICE THE HEIGHT OF THE LINTEL HEIGHT THE DEAD LOAD WEIGHT OF THE LINTEL MAY BE EXCLUDED FROM THE LOAD CALCULATIONS DUE TO THE COMPOSITE NATURE OF THE LINTEL ASSEMBLY.

13. #4 BOTTOM LINTEL REINFORCING TO BE LOCATED 3" FROM THE BOTTOM OF THE LINTEL AND TO EXTEND 24" PAST FACE OF JAMB.

14. MANUFACTURERS:

    POWERS STEEL PRODUCTS LINTELS
    4118 E. ELWOOD PHOENIX, AZ 85040
    PH# 602-437-1160 FAX#602-437-5409

    E-CRETE PRODUCTS
    2151 E BROADWAY RD #115 TEMPE, AZ 85282
    PH# 480-596-3819 FAX# 480-596-3952

15. TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

    + UNIFORM BUILDING CODE - 1997
    + INTERNATIONAL BUILDING CODE - 2000
    + AISI LIGHT GAGE COLD FORMED STEEL DESIGN –1996

    TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES.

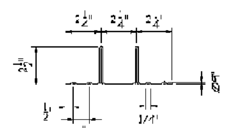
    STRUCTURAL ENGINEER FOR THESE LINTELS IS:

    S.E. CONSULTANTS, INC.
    5800 E. THOMAS RD. SUITE 104
    SCOTTSDALE, AZ 85251
    PHONE No. (480) 946-2010
    FAX (480) 946-1909

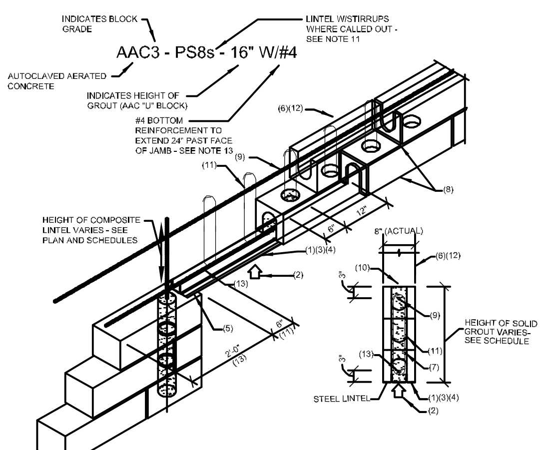
    IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL

16. INSTALLATION:

    POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTIONS PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.



PS8 STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .060 INCHES THICK.



POWER STEEL LINTEL/E-CRETE AAC BLOCK LINTEL

18301

E-CRETE

18301-