2-1/2" METAL FRAME PARTITION

**PARTITION @ CORNER** (2-1/2" STUD)

**PARTITION @ T INTERSECTION** (2-1/2" STUD)

**PARTITION @ BEARING WALL** (2-1/2" STUD)

**PARTITION @ CONTROL JOINT** (2-1/2" STUD)

**TYPICAL PARTITION** (2-1/2" STUD)

**JAMB** (2-1/2" STUD)

**HEAD** (2-1/2" STUD)

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**NOTATION CHECKLIST, SAMPLE NOTES**

- METAL STUDS (SIZE & SPACING)
- METAL RUNNER/ANCHORS
- METAL TRACK/HEADER
- ADJACENT CEILING OR SLAB
- GYPSUM WALLBOARD
- LATH & PLASTER
- SPECIAL FINISHES/HOOKS/TRACKS
- WATERPROOFING
- WALL MOUNTED FIXTURES
- WALL ANCHORS/MOUNTING BRACKETS
- RAILINGS/WALL GUARDS
- THRU-WALL SLEEVE
- SEALANTS/SOUND BARRIER/LEAD LINING
- JOINTS (CONTROL OR EXPANSION)
- ADJACENT FINISHES
- GYPSUM WALL BOARD
- WATER-RESISTANT GYP.BD.
- CORNER BEAD
- CONTROL JOINT
- SOUND ATTENUATION BLANKET
- RIGID INSULATION

- PLYWOOD
- METAL WALL ANGLE @ CLG.
- FURRING CHANNEL
- METAL RUNNER
- SUSP. METAL FURRING CHANNEL
- METAL STUDS @ 24" O.C.
- METAL STUDS @ 16" O.C.
- STAGGER STUDS
- BRACING TO STRUCTURE
- STUD TO CLG. @ 48" O.C.
- CHASE WALL
- FLOOR TRACK
- SEALANT EACH SIDE
- RESILIANT BASE, 4"
- CONT. SPONGE RUBBER GASKET, 1/2" X 3" (@ clg.)
- SUSPENDED CEILING
- FASTEN METAL STUDS TO CLG. "T"
2X4 INTERIOR WALL FRAMING

NOTATION CHECKLIST, SAMPLE NOTES

2X STUDS @ "O.C."
2X BOTTOM PLATE
SUBFLOOR
2X FLOOR JOISTS @ "O.C."
2X SOLID BLOCKING
2X DOUBLE TOP PLATE

INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
SOUND INSULATION
PLYWOOD SHEATHING
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS
NOTATION CHECKLIST, SAMPLE NOTES

CEILING LINE @
2X STUDS @ "O.C.
HEADER
TRIM FOR CASED OPENING
2X BOTTOM PLATE
2X TOP PLATE
BASE (FINISH BASE SIZE/MATERIAL)
FINISH FLOOR

INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
MASONRY VENEER
RAILINGS/WALL GUARDS
HOOKS/TRACKS
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIP
1X WOOD STOP

SAMPLE NOTES:
BATT INSULATION
INSULATION BOARD
WOOD SIDING
15# FELT
1/2 FOIL FACE INSULATION
AIR SPACE
1/2" X 6" BEVELED LAP SIDING
1/2" PLYWOOD SHEATH
PLYWOOD SIDING
VAPOR BARRIER
WOOD TRIM
2X JOISTS @ "O.C.
2X RAFTERS @ "O.C.
BLOCKING
FLASHING
GYPSUM BOARD CEILING
HARDWOOD STOPS
HARDWOOD JAMB
2X CONT. WOOD BLOCKING
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIP
1X WOOD STOP

Samples from www.AutoCADDetails.net
**NOTATION CHECKLIST, SAMPLE NOTES**

- **CEILING LINE @**
  - 2 X STUDS @ "O.C.
  - HEADER
  - TRIM FOR CASED OPENING

- **HEADER**
  - 2 X BOTTOM PLATE
  - 2 X TOP PLATE
  - BASE (FINISH BASE SIZE/MATERIAL)
  - FINISH FLOOR

**INTERIOR:**
- GYPSUM WALLBOARD
- LATH & PLASTER
- WOOD PANELING
- TILE
- MASONRY VENEER
- RAILINGS/WALL GUARDS
- HOOKS/TRACKS
- ANCHORS/MOUNTING BRACKETS
- THRU-WALL SLEEVES
- PASS-THRU
- SOUND ISOLATION PLATE
- SOUND ISOLATION CLIPS
2X6 WOOD FRAME WALLS

**TYPICAL WALL (2x6)**

**WALL @ CORNER (2x6)**

**WALL @ T INTERSECTION (2x6)**

**WALL @ T INTERSECTION (2X4 & 2x6)**

**NOTATION CHECKLIST, SAMPLE NOTES**

- **CEILING LINE @**
  - 2X STUDS @ *O.C.*
- **HEADER**
- **TRIM FOR CASED OPENING**
- **2X BOTTOM PLATE**
- **2X TOP PLATE**
- **BASE (FINISH BASE SIZE/MATERIAL)**
- **FINISH FLOOR**

**INTERIOR:**
- **GYPSUM WALLBOARD**
- **LATH & PLASTER**
- **WOOD PANELING**
- **TILE**
- **MASONRY VENEER**
- **RAILINGS/WALL GUARDS**
- **HOOKS/TRACKS**
- **ANCHORS/MOUNTING BRACKETS**
- **THRU-WALL SLEEVES**
- **PASS-THRU**
- **SOUND ISOLATION PLATE**
- **SOUND ISOLATION CLIPS**

**EXTERIOR:**
- **THERMAL INSULATION**
- **GYPSUM WALLBOARD SHEATHING**
- **WOOD SHEATHING**
- **MOISTURE BARRIER**
- **LATH & PLASTER/TUCCO**
- **WOOD SIDING**
- **MASONRY VENEER**
- **FLASHING/WATERPROOFING**
- **ANCHORS/MOUNTING BRACKETS**
- **THRU-WALL SLEEVES**

**SAMPLE NOTES:**
- **BATT INSULATION**
- **INSULATION BOARD**
- **WOOD SIDING**
- **15# FELT**
- **1/2" FOIL FACE INSULATION**
- **AIR SPACE**
- **1/2 X 6 BEVELED LAP SIDING**
- **1/2" PLYWOOD SHEATH**
- **PLYWOOD SIDING**
- **VAPOR BARRIER**
- **WOOD TRIM**
- **2X JOISTS @ *O.C.***
- **2X RAFTERS @ *O.C.***
- **BLOCKING**
- **FLASHING**
- **GYPSUM BOARD CEILING**
- **HARDWOOD STOPS**
- **HARDWOOD JAMB**
- **2X 4 CONT. WOOD BLOCKING**
- **SOUND INSULATION**
- **PREFINISHED PANELING**
- **DOOR FRAME**
- **DOOR SIZE**
- **WOOD DRIP**
- **1X WOOD STOP**

Samples from www.AutoCADDetails.net
4" METAL FRAME PARTITIONS

TYPICAL PARTITION (4" STUD)

PARTITION @ CONTROL JOINT (4" STUD)

PARTITION @ BEARING WALL (4" STUD)

PARTITION @ CORNER (4" STUD)

PARTITION @ T INTERSECTION (4" STUD)

PARTITION THRU SUSP. CEILING (4" STUD)

HEAD (4" STUD)

JAMB (4" STUD)

NOTATION CHECKLIST, SAMPLE NOTES

- METAL STUDS (SIZE & SPACING)
- METAL RUNNER/ANCHORS
- METAL TRACK/HEADER
- ADJACENT CEILING OR SLAB
- GYPSUM WALLBOARD
- LATH & PLASTER
- SPECIAL FINISHES/
  WATERPROOFING
- HOOKS/TRACKS
- WALL MOUNTED FIXTURES
- WALL ANCHORS/MOUNTING
- BRACKETS
- RAILINGS/WALL GUARDS
- THRU-WALL SLEEVE
- SEALANT/SOUND BARRIER/
  LEAD LINING
- JOINTS (CONTROL OR
  EXPANSION)
- ADJACENT FINISHES
- GYPSUM WALL BOARD
- WATER-RESISTANT GYP.BD.
- CORNER BEAD
- CONTROL JOINT

SOUND ATTENUATION BLANKET
RIGID INSULATION
PLYWOOD
METAL WALL ANGLE @ CLG.
FURRING CHANNEL
METAL RUNNER
SUSP. METAL FURRING
CHANNEL
METAL STUDS @ 24" O.C.
METAL STUDS @ 16" O.C.
STAGGER STUDS
BRACING TO STRUCTURE
STUD TO CLG. @ 48" O.C.
CHASE WALL
FLOOR TRACK
SEALANT EACH SIDE
RESILIENT BASE, 4"
CONT. SPONGE RUBBER
GASKET, 1/2" X 3" (@ clg.)
SUSPENDED CEILING
FASTEN METAL STUDS
TO CLG. 'T'

Samples from www.AutoCADDetails.net
5-1/2" METAL FRAME PARTITION

NOTATION CHECKLIST, SAMPLE NOTES

- Metal studs (size & spacing)
- Metal runner/anchors
- Metal track/header
- Adjacent ceiling or slab
- Gypsum wallboard
- Lath & plaster
- Special finishes/
- Waterproofing
- Hooks/tracks
- Wall mounted fixtures
- Wall anchors/mounting brackets
- Railings/wall guards
- Thrust-wall sleeve
- Sealant/sound barrier/
- Lead lining
- Joints (control or expansion)
- Adjacent finishes
- Gypsum wallboard
- Water-resistant gyp bd.
- Corner bead
- Control joint
- Sound attenuation blanket
- Rigid insulation

- Plywood
- Metal wall angle @ clg.
- Furring channel
- Metal runner
- Susp. metal furring channel
- Metal studs @ 24" o.c.
- Metal studs @ 16" o.c.
- Stagger studs
- Bracing to structure
- Stud to clg. @ 48" o.c.
- Chase wall
- Floor track
- Sealant each side
- Resilient base, 4"
- Cont. sponge rubber gasket, 1/2" x 3" (@ clg.)
- Suspended ceiling
- Fasten mtl. studs to clg. 'T'

- Typical partition (5-1/2" stud)
- Partition @ control joint (5-1/2" stud)
- Partition @ bearing wall (5-1/2" stud)
- Partition @ corner (5-1/2" stud)
- Partition @ t intersection (5-1/2" stud)
- Partition thru susp. clg. (5-1/2" stud)
- Jamb (5-1/2" stud)
- Head (5-1/2" stud)

Samples from www.AutoCADDetails.net
ACCESS PANELS

DETAIL DATA CHECKLIST

ACCESS PANELS

See manufacturers' catalogs for standard sizes, finishes, and materials.

Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete construction.

See manufacturers' and suppliers' catalogs for detail design data and specifications.

See manufacturer's recommendations for special anchor requirements for different kinds of construction.

NOTATION CHECKLIST

FINISH FLOOR
SUBFLOOR/SLAB
WALL CONSTRUCTION/FRAMING
CEILING CONSTRUCTION
CHANNEL/SUPPORT WIRES
METAL FRAME/ANCHOR
ACCESS PANEL
HARDWARE
ALUMINUM AWNING & CASEMENT WINDOWS

Aluminum Awning Window -- Single Glazed

Aluminum Awning Window -- Double Glazed

Aluminum Casement -- Single Glazed

Aluminum Casement -- Double Glazed

DETAIL DATA CHECKLIST

ALUMINUM AWNING & CASEMENT WINDOWS

See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.

Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).

Details should show flashing and caulking at heads, jambs, and sills.

See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST, SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/JAMB/SILL
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP/HOLE/WIND GUARD
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

ANODIZED ALUM. TRIM
1/4" TEMP. GLASS
EXTRUDED ALUM. SILL TO MATCH WINDOW
THERMOPANE INSULATING GLASS
SINGLE Pane GLASS
ALUM. HEAD, SEALANT BOTH SIDES
ALUM. SILL, SEALANT EACH SIDE
WOOD NAILEL
TREATED BLOCKING
1 X 1 WOOD TRIM
METAL EDGE BEAD
STUD
GYPSUUM WALLBOARD
FLASHING
SEALANT
ALUMINUM DOUBLE HUNG WINDOWS

DETAIL DATA CHECKLIST
ALUMINUM DOUBLE HUNG WINDOWS

See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.

Details or window schedules should show rough-opening sizes and shim tolerance allowances.

(1/2" all around is a common allowance for shim space).

Details should show flashing and caulking at heads, jambs, and sills.

See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST, SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/JAMB/SILL
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP/ROOF/WEATHER GUARD
GLAZING: SINGLE/DOUBLE
REMOVABLE SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

ANODIZED ALUM. TRIM
1/4" TEMP. GLASS
EXTRUDED ALUM. SILL TO MATCH WINDOW
METAL SILL BELOW
THERMOPANE INSULATING GLASS
SINGLE PANE GLASS
ALUM. HEAD, SEALANT BOTH SIDES
ALUM. SILL, SEALANT EACH SIDE
WOOD NAILER
TREATED BLOCKING
1 X WOOD TRIM
METAL EDGE BEAD
STUD
GYPSUM WALLBOARD
FLASHING
SEALANT

Samples from www.AutoCADDetails.net
ALUMINUM SLIDING GLASS DOORS

Aluminum Sliding Glass Door -- Single Glazed

HEAD 3' = 1'-0"
JAMB 3' = 1'-0"
SILL 3' = 1'-0"

Detail Data Checklist
ALUMINUM SLIDING GLASS DOORS
- These are manufactured products provided in standard widths and heights.
- Detail drawings are included mainly to show special anchoring conditions: Screws, anchor bolts, expansion bolts, etc., in wood frame, masonry, or concrete wall construction.
- See manufacturers' and suppliers' catalogs for design data, details, and specifications.
- See manufacturer's recommendations for wall and header anchors.

ALUMINUM SLIDING GLASS DOORS

Aluminum Sliding Glass Door -- Double Glazed

HEAD 3' = 1'-0"
JAMB 3' = 1'-0"
SILL 3' = 1'-0"

Notation Checklist, Sample Notes
WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT/SEALANT
FINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/FEED HOLE/WIND GUARD
GLAZING: SINGLE/DUOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING
ALUMINUM SLIDING WINDOWS

Detail Data Checklist

Aluminum Sliding -- Single Glazed

- Anodized Alum. Trim
- 1/4" Temp. Glass
- Extruded Alum. Sill to Match Window
- Metal Sill Below
- Thermopane Insulating Glass
- Single Pane Glass
- Alum. Head, Sealant Both Sides
- Alum. Sill, Sealant Each Side
- Wood Nailer
- Treated Blocking
- Stud
- Gypsum Wallboard
- Flashing
- Sealant

Aluminum Sliding -- Double Glazed

- See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- Connections to wood frame, masonry, or concrete wall construction.
- Detail drawings are required mainly to show the relationship of windows to wall construction such as details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

Sample Notes

Wall Construction
Shim Space
Drip Cap/Weatherstripping/Flashing
Caulking/GROUT
Finish Heads/Sills/Jambs
Window Type, Material & Finish
Hardware/Operator
Ventweep Hole/Leg Guard
Glazing: Single/Double/Removable
Screen/Screen Frame
Casing/Trim/Adjacent Finish
Rough Opening/Finish Opening

Notation Checklist

- Anodized Alum. Trim
- 1/4" Temp. Glass
- Extruded Alum. Sill to Match Window
- Metal Sill Below
- Thermopane Insulating Glass
- Single Pane Glass
- Alum. Head, Sealant Both Sides
- Alum. Sill, Sealant Each Side
- Wood Nailer
- Treated Blocking
- 1 X 3 Wood Trim
- Metal Edge Bead
- Stud
- Gypsum Wallboard
- Flashing
- Sealant
NOTATION CHECKLIST, SAMPLE NOTES

FINISH SURFACE
PLYWOOD/PARTICLE BOARD
TRIM (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER

PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLASTIC LAMINATE
3/4" PLYWD. TOP W/HDWD. EDGING
PLASTIC LAM. BACKING SHEET
PLASTIC LAM. TO EDGE & COVER BACKSPLASH, PROVIDE END SPLASH @ WALLS
3/4" PLYWD. TOP, SIDES, DIVIDERS & SHELVES W/ 1/2" X 3/4" HDWD. NOSE
FACE OF WALL
SPLASH
PLASTIC LAM. SCRIBE STRIP
3/4" PLYWD. BACK
RECESS 1/4" HARDBOARD OR PLYWD. BACK
2" X 4 FRAMING
3/4" PLYWD. BOTTOM W/ WOOD EDGING
4" TOE SPACE

CHAMFERED TRIM PIECE
FLUSH DOORS, OAK VENEER ON PLYWD.
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
7 X 4 FRAME @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD'S. W/ BRACKETS
FIXED SHELF
3/4" PLYWD. SHELF W/ 1X2 SUPPORT CLEAT & 1X3 EDE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX
3/4" PLYWD. SHELVES W/ HDWD. EDGING
1 X 2 WD. SUPPORT @ WALL ANCHOR W/ 1/4" DIA.
TOGGLE BOLTS @ 24" O.C.
STEEL CHANNEL ATTACHED TO END WALL
W/ STUDS @ 1'-0" O.C. @ LAV. PERIMETER
DRAWER
SOLID WOOD DRAWER SIDES, HDWD. DRAWER FRONTS
DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-1/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK
PROVIDE FINGER Pulls & LOCK, SAFETY GLASS
NOTATION CHECKLIST, SAMPLE NOTES

FINISH SURFACE
PLYWOOD/PARTICLE BOARD
TRIM (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLASTIC LAMINATE
3/4" PLYWD. TOP W/HARDWOOD EDGING
PLASTIC LAM. BACKING SHEET
PLASTIC LAM. TO EDGE & COVER BACKSPLASH
PROVIDE END SPLASH @ WALLS
3/4" PLYWOOD TOP, SIDES, DIVIDERS & SHELVES W/1/2" X 3/4" HARDWOOD NOSE FACE OF WALL SPLASH
PLASTIC LAM. SCRIBE STRIP
3/4" PLYWOOD DIVIDERS
1/4" PLYWOOD BACK
RECESS 1/4" HARDBOARD OR PLYWOOD BACK
2 X 4 FRAMING

3/4" PLYWOOD BOTTOM W/WOOD EDGING
4" TOE SPACE
CHAMFERED TRIM PIECE
FLUSH DOORS, OAK VENEER ON PLYWOOD
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAMES @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD’S, W/BRACKETS
FIXED SHELF
3/4" PLYWOOD SHELF W/1X2 SUPPORT CLEAT & 1 X 3 EDGE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX
3/4" PLYWOOD SHELVES W/HARDWOOD EDGING
1 X 2 WOOD SUPPORT @ WALL ANCHOR W/1/4" DIA. TOGGLE BOLTS @ 24" O.C.
STEEL CHANNEL, ATTACHED TO END WALL W/ STUDS @ 1'-0" O.C., @ LAV. PERIMETER DRAWER
SOLID WOOD DRAWER SIDES, HARDWOOD DRAWER FRONT
DRAWERS ON EXTENSION SLIDES
1" DRAWER BOTTOM
3/4" X 2 PLY RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS
BASE CABINETS

FINISH SURFACE
PLYWOOD/PARTICLE BOARD
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER

provide blocking to receive millwork items
PLASTIC LAMINATE
3/4" PLYWOOD TOP W/ HDWD. EDGING
PLASTIC LAM. BACKING SHEET
PLASTIC LAM. TO EDGE & COVER BACKSPLASH,
provide end splash @ walls
3/4" PLYWOOD TOP, SIDES, DIVIDERS &
SHELVES w/1/2" X 3/4" HDWD. NOSE

FACE OF WALL
PLASTIC LAM. SCRIBE STRIP
3/4" PLYWOOD DIVIDERS
1/4" PLYWOOD BACK
RECESS 1/4" HARDBOARD OR PLYWOOD BACK
2 X 4 FRAMING
3/4" PLYWOOD BOTTOM W/ WOOD EDGING
CHAMFERED TRIM PIECE
FLUSH DOORS, OAK VENEER ON PLYWOOD
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE-MOUNTED ADJ. SHELF STD'S.
W/ BRACKETS

FIXED SHELF
3/4" PLYWOOD SHELF W/1X2 SUPPORT CLEAT &
1 X 3 EDGE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX.
3/4" PLYWD. SHELVES W/HARDWOOD EDGING
1 X 2 WOOD SUPPORT @ WALL ANCHOR W/1/4" DIA.
TOGGLE BOLTS @ 24" O.C.

STEEL CHANNEL, ATTACHED TO END WALL
w/ STUDS @ 1'-0" O.C. @ LAV. PERIMETER

DRAWER
SOLID WOOD DRAWER SIDES, HDWD. DRAWER
FRONTS
DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK,
provide finger pulls & lock, SAFETY GLASS
BENCHES

Detail Data Checklist

BENCHES

Benches are often purchased ready-made, or fabricated as variations on common bench types and styles.

Detail drawings are included mainly to show desired bench sizes and types, and to indicate anchoring to the ground or pavement.

See manufacturers' recommendations for anchoring.

See manufacturers' and suppliers' catalogs for design data, details, and specifications.

Notation Checklist, Sample Notes

Material Surface/Finish

Frame/Support

Bolts/Anchors

Footing

 Aggregate Base

Subgrade

 #4 Dowel in 5/8” Dia. Hole

 (tie CMU bench to supports to slab)

Precast Cond. Bench

3/4” Camfer TYP. All Corners

Steel inbed plates @ 4'-0” O.C. Shim & Weld

(to connect precast bench to footing)

Sealant @ 1/2” Fiber Joint

#4 Bars Cont. (horz. approx. 1’ O.C.)

#4 Bars Vert @ 3’-0” O.C.

#4 Bars Cont. (at bottom)

Redwood Spacers, Glue to Slats

Waterproof Adhesive

Nailer w/glued spacers above

3/4” Cont. Chamfered Top Edge

3/8” Dia. Gal. Threaded Steel Rod, Counter Sink Nut & Washer, Plug W/1” Dia. x 3/4” Hrdwd. Dowel

Set W/Waterproof Adhesive

3/8” Gal. Lag Bolt

1/4” Dia x 3” Lag Bolt @ 4 X 4 Support

1/2” Solid Wd. Spacer @ 4 X 4 Support

2 X 4 Toe Nailed to 4 X 4 & Nailed to Next 2 X 4 thru Spacer

2 X 4

BOWDLER

Concrete

Bench Concrete

Concrete

Bench Concrete

Marble

Concrete

Bench Concrete

Masonry

Concrete

Bench Concrete

Wood

Concrete

Bench Concrete

Wood

Bench Concrete

Wood

Bench Concrete

Wood

Bench Concrete

Wood

Bench Concrete

Wood

Bench Concrete

Wood

Bench Concrete

Wood
BENCHES

DETAIL DATA CHECKLIST

_Benches are often purchased ready-made, or fabricated as variations on common bench types and styles._

_Detail drawings are included mainly to show desired bench sizes and types, and to indicate anchoring to the ground or pavement._

_See manufacturers' recommendations for anchoring._

_See manufacturers' and suppliers' catalogs for design data, details, and specifications._

NOTATION CHECKLIST, SAMPLE NOTES

MATERIAL SURFACE/FINISH
FRAME/SUPPORT
BOLTS/ANCHORS
FINISH GRADE/PAVING
FOOTING
AGGREGATE BASE
SUBGRADE
#4 DOWEL IN 5/8" DIA. HOLE
(tie CMU bench to supports to slab)

PRECAST CONC. BENCH
3/4" CAMPER TYP. ALL CORNERS
STEEL INBED PLATES @ 4'-0" O.C. SHIM & WELD
(to connect precast bench to footing)

SEALANT @ 1/2" FIBER JOINT
#4 BARS CONT. (horz. approx. 1" O.C.)
#4 BARS VERT @ 3'-0" O.C.
#4 BARS CONT. (at bottom)

REDWOOD SPACERS, GLUE TO SLAT W/ WATERPROOF ADHESIVE
REDWOOD SLATS
1/2" X 2" X 3" STL CHANNEL, PAINT 2 COATS FLAT ENAMEL
CAP CHANNEL ENDS W/ 1/8" STEEL, WELD & GRIND SMOOTH

NAILER W/ GLUED SPACERS ABOVE
3/4" CONT. CHAMFERED TOP EDGE
3/8" DIA GAL. THREADED STEEL ROD, COUNTER SINK NUT & WASHER, PLUG W/ 1" DIA. X 3/4" HRDWD.

DOWEL SET W/ WATERPROOF ADHESIVE
3/8" GAL. LAG BOLT
1/4" DIA X 3" LAG BOLT @ 4 X 4 SUPPORT
1/2" SOLID WD. SPACER @ 4 X 4 SUPPORT
2 X 4 TOE NAILED TO 4 X 4 & NAILED TO NEXT 2 X 4 THRU SPACER

#4 DOWL (tie CMU bench to supports to slab) IN 5/8" DIA. HOLE

PICNIC TABLE & BENCHES
BOLLARDS Conc.

DETAIL DATA CHECKLIST

- Chamfer or round edges
- Add eye bolts or steel rings for chains
- Place rebar in the core of the bollard (vertically) for added strength

NOTATION CHECKLIST,
SAMPLE NOTES

POLE/BOLLARD (SIZE & MATERIAL)
CAP/TOP SLOPE
FINISH GRADE/PAVING
BACKFILL/AGGREGATE/SAND
AGGREGATE BASE
SUBGRADE
TOP RAIL PIPE (MATERIAL & SIZE)
PIPE POST (SIZE & SPACING)
INTERMEDIATE PIPE RAILS (SIZE & SPACING)
PIPE SLEEVE/ANCHOR
PAVING/SLAB/CURB
6" DIA. STEEL PIPE FILLED W/ CONC. GROUT
(Typ. steel pipe dia.: 2" to 12")
SLOPE TOP OF FOOTING
(Typ. 1" min. above grade)
1'-6" DIA. CONC. FOOTING. (2'-3' ht. typ.)
EXPANSION JOINT (@ adjacent paving)
1/8" STEEL PLATE CAP
WELD & GRIND SMOOTH
TREATED 6" DIA. WOOD POLE
COMPACTED SAND FILL
PRECAST CONC. FOUNDATION BLOCK
LIGHT FIXTURES (where occur)
Breather vents allow entrapped moisture to escape from layers of built-up roofing membranes. They are manufactured items and should be sized and installed as per manufacturers' instructions, and roofing manufacturers' recommendations. Some manufactured units close under exterior air pressure to prevent evaporated moisture in the air from reversing flow and entering the membrane through the vent.

Sizes and installation:
- Units are 4 to 6" diameter, 12" high
- Install on wood blocks or nailer atop roof substrate and even with roof insulation
- Mount on blocks or nailers with 1/2" vent holes at 2" o.c.
- Mount 12" to top of vent with sheet metal peaked cap above
- Provide bird screen to prevent nesting under cap

Notation checklist, sample notes:
- Metal hood & fasteners
- Flanged metal vent stack
- Roofing surface
- (type, layers & cover material)
- Roofing deck/insulation
- Roof construction
- Galv. pipe w/treaded end cap
- Metal pipe
- Premolded pipe seal
- Sealant
- Flashing felt
- Stainless steel clamping ring
- Water cutoff mastic
- Core hole as required
- Openings for roof vents to be preformed
- Allow 1-1/2" min. clear air passage to vent built-up roof
- Rigid insulation
- Metal decking
These wall section details are to be combined with related construction such as door frames, window frames, furred walls, wall mounted fixtures, and wall penetrations such as for pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

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CONCRETE BLOCK
4" LIGHTWEIGHT CONC. BLOCK
FACE BRICK
BRICK VENEER W/ METAL TIES TO STUD WALL
CONT. SEALANT
4" STARTER COURSE
CONT. FLASHING
FABRIC FLASHING SET IN REGLET
GROUT
SHIM
5" X 3" X 1/4" CONT. SHELF ANGLE
STEEL Lintel ELEV.
STEEL ANGLE Lintel
WEEN HOLES @ 32" O.C.
METAL STRAP ANCHORS EVERY 6TH COURSE
BRICK ANCHORS
VERT. CONT. ANCHOR SLOTS SPACED 2'-0" O.C.
#4 @ 16" O.C., GROUT CORES
REINF. @ 16" O.C. TYP.
1" RIGID INSULATION
FOAM INSULATION
BRICK & BLOCK CAVITY WALLS

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MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/STRAIGHT/WALL-MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
METAL TIES
AIR SPACE/GROUT
RIGID INSULATION
WEEP HOLES
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME
LINTEL

CONCRETE BLOCK
4" LIGHTWEIGHT CONC. BLOCK
FACE BRICK
BRICK VENEER W/ METAL TIES TO STUD WALL
CONT. SEALANT
4" STARTER COURSE
CONT. FLASHING
FABRIC FLASHING SET IN REGLET
GROUT
SHIM
6" X 3" X 1/4" CONT. SHELF ANGLE
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
WEEP HOLES @ 32" O.C.
METAL STRAP ANCHORS EVERY 6TH COURSE
BRICK ANCHORS
VERT. CONT. ANCHOR SLOTS SPACED 2'-0" O.C.
#4 @ 16" O.C., GROUT CORES
REINF. @ 16" O.C. TYP.
1" RIGID INSULATION
FOAM INSULATION
BRICK VENEER

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related construction such as door frames, window frames, furred walls, wall mounted fixtures, and wall penetrations such as for pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

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NOTATION CHECKLIST,
SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOPS/TRACKS/WALL MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
METAL TIES
AIR SPACE/GROUT
RIGID INSULATION
WEEP HOLES
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME LINTEL
BATT INSULATION
INSULATION BOARD
WOOD SIDING
15# FELT
1/2" FOIL FACE INSULATION
AIR SPACE
1/2 X 6 BEVELED LAP SIDING
1/2" PLYWOOD SHEATH
PLYWOOD SIDING
VAPOR BARRIER
WOOD TRIM
2 X JOISTS @ *O.C.
2 X RAFTERS @ *O.C.
BLOCKING
FLASHING
GYP. BD. CEILING
HARDWOOD STOPS
HARDWOOD JAMB
2 X 4 CONT. WOOD BLOCKING
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIP
1 X WOOD STOP
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS

CONCRETE BLOCK
4" LIGHTWEIGHT CONC. BLOCK
FACE BRICK
BRICK VENEER W/METAL TIES TO STUD WALL
WEEP HOLES
CONT. SEALANT
4" STARTER COURSE
CONT. FLASHING
FABRIC FLASHING SET IN REGLET
GROUT
SHIM
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
WEEP HOLES @ 12" O.C.
METAL STRAP ANCHORS EVERY 6TH COURSE
HORIZ.
BRICK ANCHORS
VERT. CONT. ANCHOR SLOTS SPACED 2'-0" O.C.
#4 @ 16" O.C. GROUT CORES
REINF. @ 16" O.C. TYP.
1" RIGID INSULATION
FOAMED INSULATION

Samples from www.AutoCADDetails.net
BRICK WALLS

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related construction such as door frames, window frames, furred walls, wall mounted fixtures, and wall penetrations such as for pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

NOTATION CHECKLIST, SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL-MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME
LINTEL

STARTER COURSE
FLASHING CONT.
FABRIC FLASHING SET IN REGLET
GROUT
CONT. SHELF ANGLE
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
BRICK ANCHORS
HORIZ. JOINT REINF.
CABINET DRAWERS

NOTATION CHECKLIST:
SAMPLE NOTES
PLYWOOD/PARTICLE BOARD
DRAWER FACE FINISH SURFACE
DRAWER EDGES (MATERIAL & SIZE)
FACE FRAMES (MATERIAL & SIZE)
CABINET SIDE PANELS (MATERIAL & THICKNESS)
TRIM MATERIAL & SIZE
ADJACENT MATERIALS
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLYWOOD/PARTICLE BOARD
DRAWER FACE FINISH SURFACE
DRAWER EDGES (MATERIAL & SIZE)
FACE FRAMES (MATERIAL & SIZE)
CABINET SIDE PANELS (MATERIAL & THICKNESS)
TRIM MATERIAL & SIZE
ADJACENT MATERIALS
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS

PROVIDE END SPLASH @WALLS, PROVIDE END SPLASH @ W/BOTTOM, DRAWERS & SHELVES, 3/4 X 3/4" HARDWOOD, NOSE FACE UP.

PLASTIC LAMINATE

PLASTIC LAMINATE BACKING SHEET

PLASTIC LAM. TO EDGE & COVER BACKSPLASH,

PLASTIC LAM. SCRIBE STRIP

3/4" PLYWOOD DRAWERS

1/4" PLYWOOD DRAWER

RECESS 1/4" HARDWOOD OR PLYWOOD, BACK 2 X 4 FRAMING

3/4" PLYWOOD, BOTTOM W/WOOD EDGING

3/4" X 1/4" PLYWOOD, BOTTOM PIECE

1/4" X 1/2" HARDWOOD EDGE, BASE EDGES

2 X 4 FRAME @ FLOOR

ADJUSTABLE SHELVES

RECESSED SHELF STANDARDS

SURFACE MOUNTED SHELVES, SHELF TOP, W/MOUNTING BRACKET, FIXED SHELF

ADJUSTABLE SHELVES SUPPORT DRAWER 1/4" & 1/2" EDGE STRIP

1 X 12 SHELVES & SHOES

1 X 12 SHELVES & SHOES

3/4" PLYWOOD, SHELVES W/ 1/2" WOOD EDGING

1 X 3/4" WOOD EDGING TO WALL, ANCHOR W/ 3/4" X 1/2" X 1/2" J-BOLT @ 24" O.C.

STEEL CHANNEL, ATTACHED TO END WALL,

W STUDS @ 12" O.C., @ 4" ADJACENT TOOD WOOD DRAWER SKELETONS, DOOR FRONTS

DRAWERS ON EXTENSION SLIDES

3/4" X 1/2" PLYWOOD SHELVES & SUPPORT

SLIDING GLASS DOORS IN KV TRACK

PROVIDE FINGER Pulls & Lock, SAFETY GLASS
CABINET DOORS & FRAME
Horiz. Section

CABINET DOORS & FRAME
Horiz. Section

CABINET DOORS & FRAME
Horiz. Section

CABINET SLIDING DOORS
Vert. Section

CABINET DOORS & FRAME
Horiz. Section

NOTATION CHECKLIST, SAMPLE NOTES

PLYWOOD/PARTICLE BOARD
DRAWER FACE FINISH SURFACE
DRAWER SIDES (MATERIAL & SIZE)
FACE FRAME (MATERIAL & SIZE)
CABINET SIDE PANELS (MATERIAL & THICKNESS)
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS

HARDWARE

PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS

PLASTIC LAMINATE
3/4" PLYWD. TOP W/ HDWD. EDGING
PLASTIC LAM. BACKING SHEET
PLASTIC LAM. TO EDGE & COVER BACKSPLASH,
PROVIDE END SPLASH @ WALLS
3/4" PLYWD. TOP, SIDES, DIVIDERS & SHELVES W/ 1/2" X 3/4" HDWD. NOSE
FACE OF WALL

SPASH
PLASTIC LAM. SCRIBE STRIP
3/4" PLYWD DIVIDERS
1/4" PLYWD. BACK
RECESS 1/4" HARDBOARD OR PLYWD. BACK
2 X 4 FRAMING
3/4" PLYWD. BOTTOM W/ WOOD EDGING
CHAMFERED TRIM PIECE

FLUSH DOORS, OAK VENEER ON PLYWD.
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOOR

ADJUSTABLE SHELVES
RECESS SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD'S. W/ BRACKETS

FIXED SHELF
3/4" PLYWD. SHELF W/ 1X2 SUPPORT CLEAT & 1 X 3 EDGE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX.
3/4" PLYWD. SHELVES W/ HDWD. EDGING
1 X 2 WD. SUPPORT @ WALL ANCHOR W/ 1/4" DIA.
TOGGLE BOLTS @ 24" O.C.

STEEL CHANNEL, ATTACHED TO END WALL, W/ STUDS @ 1'-0" O.C. @ LAV. PERIMETER
DRAWER

SOLID WOOD DRAWER SIDES, HDWD. DRAWER FRONTS

DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK,
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS
CARPET FLOORING

DETAIL DATA CHECKLIST

CARPET
- Typical thickness 1/2" to 1"
- Be sure carpet notation in drawings corresponds to specifications
- Detailing is required only to show special flooring, base, or joint conditions
- Carpet application is sometimes incomplete, with very serious consequences; strictly enforce compliance with drawings, specifications, and manufacturers' instructions
- Carpet may have to be ordered before construction begins to assure delivery in time for occupancy, so carpet selection and specification may precede the rest of the documents

NOTATION CHECKLIST, SAMPLE NOTES

CARPET
PAD
TACK STRIP
REDUCER
SUBFLOOR/SLAB
GLUE DOWN CARPET
CARPET & PAD W/TACK STRIPS
FINISH CONC.
BUILD UP CONC. FLOOR W/FLOORSTONE AS REQ'D
PLYWOOD SUBFLOOR
PLYWOOD UNDERLAYMENT
PARTICLE BOARD UNDERLAYMENT
MASTIC
ADHESIVE
THRESHOLD
REDUCER STRIP
CARPET TILE JOINER
CARPET EDGE STRIP

CARPET FLOORING

SNAP-ON CARPET EDGE
UNDERSLUNG HALF SADDLE
CARPET @ VINYL REDUCER
CARPET @ VINYL REDUCER
THRESHOLD
THRESHOLD/FEATURE STRIP
CARPET BASE
UNDERSLUNG SADDLE
STAIR NOSING
STAIR NOSING
CATCH BASINS

DETAIL DATA CHECKLIST

MANHOLES:
- Spaced 300’ to 600’ apart for inspection and maintenance
- (Also depends on sewer size and local standards)
- Manhole walls for a combined or sanitary sewer may be:
  - 8” brick
  - 8” concrete
  - 6” solid concrete manhole block or precast concrete units to depth of 12’
- Below 12’ depth all brick and block walls shall be 12” thick
- Manholes over 12’ deep shall also have a 12’ thick base

INLET AND CATCH BASINS:
- Choice of the unit is subject to local codes and practice
- Spacing depends on the size and type of unit, and the slope of gutter or swale in relation to anticipated runoff
- Walls may be:
  - 8” brick
  - 8” CMU
  - 6” poured concrete
  - 5” precast concrete

DRAIN INLET COVERS:
- Usually precast concrete or cast iron (also ductile iron)
- Frames and grates available for light and heavy loading conditions
- Grates:
  - In areas of foot or bike traffic, grates must not allow penetration by:
    - Heels
    - Crutches
    - Cane tips
    - Tires
  - Must still provide sufficient drainage
- Slotted grating may be used if slots run transverse to traffic direction

NOTATION CHECKLIST,
SAMPLE NOTES

FINISH GRADE/PAVING
PAVING BASE
METAL GRATING
METAL GRATING FRAME
PIPE (TYPE, SIZE, MATERIAL)
CONCRETE BASE
REINFORCING
AGGREGATE
BACKFILL
COMPACTED SUBGRADE
FLOW (show direction)
#4 BARS @12” O.C. EACH WAY
#3 BARS @10” O.C. EACH WAY
CERAMIC TILE BASE & WAINSCOT

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & THICKNESS) THINSET QUARRY TILE
SETTING BED (MATERIAL & THICKNESS) QUARRY TILE
JOINT SIZE ROUND TOP COVE BASE
FLOOR MEMBRANE/WATERPROOFING WATERPROOF GYPSUM BOARD
SUBFLOOR/SLAB ADHESIVE
REINFORCING SETTING BED
CERAMIC TILE MORTAR BED W/REINFORCING
BOND COAT/MORTAR BED MORTAR BED W/REINFORCING
SCRATCH COAT ANGLE EDGER
MEMBRANE THRESHOLD
WALL CONSTRUCTION HARDWOOD DIVIDER STRIP

Samples from www.AutoCADDetails.net
CERAMIC TILE FLOOR

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR
(MATERIAL & THICKNESS)
SETTING BED
(MATERIAL & THICKNESS)
JOINT SIZE
FLOOR MEMBRANE/
WATERPROOFING
SUBFLOOR/SLAB
REINFORCING
CERAMIC TILE
BOND COAT/MORTAR BED
SCRATCH COAT
MEMBRANE
WALL CONSTRUCTION
THINSET QUARRY TILE
QUARRY TILE
ROUND TOP COVE BASE
WATERPROOF GYP. BD.
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
HARDWOOD DIVIDER STRIP
REDUCER STRIP
DOOR
SILICONE SEALER
SLOPE FROM CURB TO DRAIN
CERAMIC TILE TUBS & RECEPTORS

NOTATION CHECKLIST, SAMPLE NOTES
- CERAMIC TILE
- WALL CONSTRUCTION
- WALL FRAMING
- TUB HANGER
- TUB
- SETTING BED
- LATH/REINFORCING
- WATERPROOF MEMBRANE
- DRAIN

- THINSET QUARRY TILE
- QUARRY TILE
- ROUND TOP COVE BASE
- CERAMIC CAP
- BULLNOSE CAP
- WATERPROOF GYPSUM BOARD
- ADHESIVE
- SETTING BED
- MORTAR BED WIREINFORCING
- ANGLE EDGER
- THRESHOLD
- HARDWOOD DIVIDER STRIP
- REDUCER STRIP
- DOOR
- SILICONE SEALER
- SLOPE FROM CURB TO DRAIN

CERAMIC TILE WALL @ TUB
Plaster Wall

CERAMIC TILE WALL @ TUB
Gypsum Board Wall

CERAMIC TILE BASE
SHOWER RECEPTOR

CERAMIC TILE BASE
FLOOR @ DRAIN

CERAMIC TILE TUB

CERAMIC TILE TUB

Samples from www.AutoCADDetails.net
CERAMIC TILE WALLS

NOTATION CHECKLIST, SAMPLE NOTES
CERAMIC TILE
ADHESIVE/DRY-SET
BOND COAT/MORTAR BED
SCRATCH COAT
MEMBRANE
WALL CONSTRUCTION
THINSET QUARRY TILE
QUARRY TILE
ROUND TOP COVE BASE
WATERPROOF GYPSUM BOARD
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
HARDWOOD DIVIDER STRIP
REDUCER STRIP
DOOR
SILICONE SEALER
SLOPE FROM CURB TO DRAIN

CERAMIC TILE WALL
Thin-Set

CERAMIC TILE WALL
Leveling/Bond Coat

CERAMIC TILE WALL
Cement Mortar

CERAMIC TILE WALL
Lath/Plaster/Mortar

CERAMIC TILE WALL
@ STEAM ROOM
Thin-Set on Gypsum Board
DETAIL DATA CHECKLIST

CHAIN LINK FENCING

- See manufacturer's data for:
  - Size of pipe
  - Size of mesh
  - Depth of footing
  - Standard spacing of posts
  - Size and spacing of braces

- Special options:
  - Gate size
  - Barbed wire type
  - Barbed wire extension arms
  - Number of wires

NOTATION CHECKLIST, SAMPLE NOTES

CHAIN LINK FENCE
BARBED WIRE
POST/POST CAP
TENSION WIRE
BRACE RAIL
TIE ROD
FINISH GRADE/PAVING
FOOTING
AGGREGATE BASE

VISE CONNECTORS (connect groundwire to fencing/barbed wire)

DOWN CONDUCTOR
COPPER CONDUCTOR CABLE MIN. #6
GROUND ROD MIN. 3/4" O.D.
BY 8' LONG
BOTTOM SALVAGE WIRE
CHALKBOARDS & TACKBOARDS

DETAIL DATA CHECKLIST

CHALKBOARDS & TACKBOARDS

_See manufacturers' catalogs for standard sizes, finishes, and materials._

_wood frame, metal frame, masonry, or concrete wall construction._

_Detail drawings are included mainly to show special anchoring conditions--screws, anchor bolts, etc., in_

_See manufacturers' and suppliers' catalogs for detail design data and specifications._

_See manufacturer's recommendations for special anchor requirements for different kinds of construction._

NOTATION CHECKLIST,
SAMPLE NOTES

CORK TACKBOARD

CHALKBOARD

HARDBOARD BACK PANEL

CHALK TRAY

ANGLE BRACKETS/FASTENERS

WALL CONSTRUCTION/FRAMING

TACK SURFACE

WOOD GROUND

STEEL SURFACE, ON BACKER BOARD

WOOD BLOCKING @ STUD WALL

METAL FRAME

PERIMETER TRIM

SCREW ON TRIM OVER WOOD GROUNDS

CHALK TROUGH
CONCRETE BLOCK CAVITY WALLS

DETAIL DATA CHECKLIST

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NOTATION CHECKLIST,
SAMPLE NOTES

JAMB
(10" HMU CAVITY WALL)

LINTEL
(10" HMU CAVITY WALL)

VERTICAL SECTION
(10" HMU CAVITY WALL)

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
METAL TIES
AIR SPACE/GROUT
RIGID INSULATION
WEEP HOLES

8" CONCRETE BLOCK, GROUT CORES FULL & BREAK OUT WEB AS REO'D. FOR #4 BAR VERT.
8" LINTEL BLOCK
CONC. BLOCK
FLASHING
SEALANT
CAULK

4@48" O.C. ALTERNATE - GROUT REINF. CELLS
4@VERT. REINFORCEMENT @ 2-4" O.C.
HORIZ. JOINT REINF. @ 16" O.C.
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM WIRES CONT. @ 32" O.C.
4 CONT. IN BOND BEAM
SASH BLOCK - EACH SIDE
16 GA. STEEL MESH EVERY OTHER COURSE
(@ masonry interior partition joint)
INSULATION
DISCONTINUE MASONRY REINF. @ CONTROL JOINT
EXPANSION SHIELD

STARTER COURSE
FLASHING CONT.
FABRIC FLASHING SET IN REGLET
GROUT
CONT. SHELF ANGLE
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
BOND ANG-ORS
HORIZ. JOINT REINF.

8" CONCRETE BLOCK
CONC. SLAB
SEE FOUNDATION PLAN FOR SLAB THICKNESS & FIN. FLOOR ELEV.
SEE FOUNDATION PLAN FOR TOP OF FTG. ELEV.
FLASHING
4@48" O.C. ALTERNATE - GROUT REINF. CELLS
HORIZ. JOINT REINF. @ 16" O.C.
FINISH GRADE HEIGHT VARIES
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM
STEP FTG., SEE DETAIL
Concrete Block Foundation Walls

Detail Data Checklist

Concrete Block Foundation Walls

Design limits of unit masonry wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Unless specially engineered, concrete block foundation walls should be limited to small, one-story residential or utility buildings.

Notation Checklist, Sample Notes

- Mudsill w/Leveling Grout
- Anchor Bolts
- Ledger
- Anchor for Ledger
- Grouted Concrete Block Foundation Wall Reinforcing
- Concrete Footing w/Grout Key
- Concrete Footing Reinforcing Bars
- Insulation
- Termites Shield
- Crawlspace
- Rodent Barrier
- Vapor Barrier w/ Sand Cover
- Grade
- Drainage
- 8" Concrete Block
- Conc. Slab
- See Foundation Plan for Slab Thickness & Fin. Floor Elev.
- See Foundation Plan for Top of Ftg. Elev.
- Flashing
- Horiz. Joint Rein. @ 16" O.C.
- Alternate - Grout Reinf. Cells
- 1/2" Premolded Joint Filler
- Extruded Control Joint Filler
- Face Brick
- 1" Perimeter Insulation
- Bond Beam

Samples from www.AutoCADDetails.net
CONCRETE BLOCK FOUNDATION WALLS

Design limits of unit masonry wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Unless specially engineered, concrete block foundation walls should be limited to small, one-story residential or utility buildings.

DETAIL DATA CHECKLIST

NOTATION CHECKLIST, SAMPLE NOTES

- MUDSILL W/ LEVELING GROUT
- ANCHOR BOLTS
- LEDGER
- ANCHOR FOR LEDGER
- GROUTED CONCRETE BLOCK
- FOUNDATION WALL REINFORCING
- CONCRETE FOOTING W/ GROUT KEY
- CONCRETE FOOTING REINFORCING BARS
- INSULATION
- TERMITE SHIELD
- CRAWLSPACE
- RODENT BARRIER
- VAPOR BARRIER W/ SAND COVER
- GRADE
- DRAINAGE
- 8" CONCRETE BLOCK
- 12" CONCRETE BLOCK
- CONC. SLAB
- SEE FOUNDATION PLAN FOR SLAB THICKNESS & PIN. FLOOR ELEV.
- SEE FOUNDATION PLAN FOR TOP OF FTG. ELEV.
- FLASHING
- 4 @ 48" O.C. ALTERNATE GROUT REINF. CELLS
- HORIZ. JOINT REINF. @ 16" O.C.
- FINISH GRADE HEIGHT VARIES
- 1/2 PREMOLDED JOINT FILLER
- EXTRUDED CONTROL JOINT FILLER
- FACE BRICK
- 1" PERIMETER INSULATION
- BOND BEAM
CONCRETE BLOCK WALLS

These wall section details are to be combined with related construction such as door frames, window frames, furred walls, wall mounted fixtures, and wall penetrations such as for pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

NOTATION CHECKLIST:
SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME
LINTEL

8" CONCRETE BLOCK, GROUT CORES FULL & BREAK OUT WEB AS REQ'D. FOR #4 BAR VERT.
8" LINTEL BLOCK
CONC. BLOCK
FLASHING
SEALANT
CAULK
#4 @ 48" O.C. ALTERNATE - GROUT REINF. CELLS
#4 VERT. REINFORCEMENT @ 2'-0" O.C.
HORIZ. JOINT REINF. @ 16" O.C.
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM W/#5 CONT. @ 32" O.C.
#4 CONT. IN BOND BEAM
SASH BLOCK - EACH SIDE
16 GA. STEEL MESH EVERY OTHER COURSE
(@ masonry interior partition joint)
INSULATION
DISCONTINUE MASONRY REINF. @ CONTROL JOINT
EXPANSION SHIELD
These wall section details are to be combined with related construction such as door frames, window frames, louvered walls, wall mounted fixtures, and wall penetrations such as for pipe sleeves, access panels, etc. Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design. Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

**NOTATION CHECKLIST, SAMPLE NOTES**

- **MASONRY UNIT TYPE & SIZE**
- **MORTAR JOINT TYPE & SIZE**
- **REINFORCING**
  - Hooks/Tracks/Wall-mounted Fixtures
  - Flashing/Waterproofing/Caulking
  - Interior Furring/Finish
  - Door/window/over Frame
- **LINTEL**
  - 8" concrete block, grout cores full & break out web as req'd. for 4# bar vert.
  - 8" lintel block
  - Conc. block
  - Flashing/Sewant
  - Caulk
  - Bond beam
  - Cont. in Bond beam
  - Sash block - each side
  - Semi-rigid insulation
  - Discontinue Masonry rein. @ control joint
  - Expansion shield
- **CONCRETE BLOCK WALLS**
  - 4" CMU
  - 6" CMU
  - 8" CMU
  - 12" CMU
  - 8" CMU, grout cores full & break out web as req'd. for 4# bar vert.

- **VERTICAL SECTION (6" HMU WALL)**
  - Conc. block
  - Flashing
  - Sewant
  - Caulk
  - Bond beam
  - Cont. in Bond beam
  - Sash block - each side
  - Semi-rigid insulation
  - Discontinue Masonry rein. @ control joint
  - Expansion shield

- **VERTICAL SECTION (10" HMU WALL)**
  - Conc. block
  - Flashing
  - Sewant
  - Caulk
  - Bond beam
  - Cont. in Bond beam
  - Sash block - each side
  - Semi-rigid insulation
  - Discontinue Masonry rein. @ control joint
  - Expansion shield

- **CONCRETE BLOCK WALLS**
  - 4" CMU
  - 6" CMU
  - 8" CMU
  - 12" CMU
  - 8" CMU, grout cores full & break out web as req'd. for 4# bar vert.

- **EXPANSION SHIELD**
  - 4# vert. @ 2'-0" O.C., grout cells where rebar occurs
  - 4# dowel @ 2'-0" O.C. w/4" hook @ bottom
  - Metal closure req'd. @ exposed deck only
  - Stuff cap w/fiberglass blanket insul.
CONCRETE CURBS

DETAIL DATA CHECKLIST

CONCRETE CURBS
- Street curbs must usually follow local road department design standards
- Exposed edges can be chamfered, tooled, or have a 1/2" to 1" radius
- Reinforcing:
  - Precast concrete curbs may have dowel pins and holes at alternate ends
  - 2-#4 bars, one top and one bottom (continuous is common)
  - May have 83 tee or stirrups at 32" to 36" o.c.
  - 2 bars at the bottom of the footing may be needed
  - Bars should have 2" cover
  - When curb is continuous, woven wire mesh (WWM) may be turned down into curb
  - Curb depth below grade varies from 12" to 24"
  - Curb width varies from 5" to 7"
  - Compact the subgrade
  - Provide ample subgrade drainage
- Expansion Joints:
  - Two types needed:
    - Joints in the curb itself
    - Joints between curb and adjacent sidewalk
  - Curb joints should occur at approximately 15' intervals and at all corners
  - Provide 1/4" radius at edge of joints
  - Joint materials:
    - 1/2" preformed expansion joint, held down 1" for sealant on top
    - Heartwood redwood filler strip pour joint

NOTATION CHECKLIST, SAMPLE NOTES

CURB (TYPE & MATERIAL)          CONCRETE CURB
REINFORCING                      CONCRETE CURB
FINISH GRADE/PAVEMENT            CONCRETE CURB
CURB SLOPE/RAI/RAMPER            CONCRETE CURB
PAVEMENT SLOPE                   CONCRETE CURB
AGGREGATE BASE                   CONCRETE CURB
COMPACTED SUBGRADE               CONCRETE CURB
CONTROLLED EXPANSION JOINTS (TYPE & SPACING)  CONCRETE CURB
FINISH GRADE                     CONCRETE CURB
TOP OF CURB                      CONCRETE CURB
PAVEMENT                         CONCRETE CURB
CONCRETE                         CONCRETE CURB
3/4" RADIUS ON ALL EXPOSED EDGES CONCRETE CURB
1/2" RADIUS EDGE                 CONCRETE CURB
CONCRETE                         CONCRETE CURB
REBARS, CONT. TOP & BOTTOM; 2" MIN. COVER  CONCRETE CURB
CONCRETE CURB
CONCRETE CURBS

Street curbs must usually follow local road department design standards.

Reinforcing:
- Precast concrete curbs may have dowel pins and holes at alternate ends.
- 2-34 bars, one top and one bottom (continuous is common).
- May have #3 ties or stirrups at 32" to 36" o.c.
- 2 bars at the bottom of the footing may be needed.
- Bars should have 2" cover.

Where a curb is continuous with a walk, woven wire mesh (WWM) may be turned down into curb.

Curb depth below grade varies from 12" to 24".

Curb widths vary: 5" to 9".

Compact the subgrade.

Provide ample subgrade drainage.

Expansion Joints:
- Two types needed:
- Joints in the curb itself.
- Joints between curb and adjacent sidewalk.
- Curb joints should occur at approximately 15' intervals and at all corners.
- Provide 1/4" radius at edge of joints.
- Joint materials:
  - 1/2" preformed expansion joint, held down 1" for sealant on top.
  - Heartwood redwood filler strip pour joint.

CONCRETE CURB & GUTTER

Minimum gutter slope toward curb is 1-2.

Radius at curb nose and gutter can be 1" to 3".

Space curb/gutter expansion joints no more than 30' apart.

An expansion joint or key is also needed where gutter meets paving.

Recommended reinforcing is 2 to 4 bars, #4 or #5.

Compact the subgrade.

Provide ample subgrade drainage.

CONCRETE CURB & WALK

CONCRETE CURB & GUTTER

NOTATION CHECKLIST, SAMPLE NOTES

CURB (TYPE & MATERIAL)
- REINFORCING
- FINISH GRADE/PAVEMENT
- CURB SLOPE/RAISED Curb
- PAVEMENT SLOPE
- COMPACTED SUBGRADE
- CONTROL/EXPANSION JOINTS (TYPE & SPACING)
- FINISH GRADE
- TOP OF CURB
- PAVEMENT
- CONCRETE
- 3/4" RADIUS ON ALL EXPOSED EDGES
- 1/2" RADIUS EDGE
- CONCRETE REBARS, CONT. TOP & BOTTOM, 2" MIN. COVER
- CONC. SIDEWALK
- CRUSHED AGGREGATE BASE
- 6" x 6" - #10 GAUGE WIRE MESH

CAULK
- JOINT SEALER
- EXPANSION JOINT MATERIAL
- BITUMINOUS EXP. JOINT FILLER
- 3-4" BARS CONT.
- 3-4" REBARS CONT.
- BITUMINOUS PAVING
- COMPACTED GRANULAR BASE COURSE
- COMPACTED SUBGRADE OR STRUCTURAL BACKFILL

Samples from www.AutoCADDetails.net
**CONCRETE CURBS**

**DETAIL DATA CHECKLIST**

**CONCRETE CURBS**
- Street curbs must usually follow local road department design standards
- Exposed edges can be chamfered, tooled, or have a 1/2" to 1" radius
- Reinforcing:
  - Precast concrete curbs may have dowel pins and holes at alternate ends
  - 2-4# bars, one top and one bottom (continuous is common)
  - May have #2 ties or stirrups at 32" to 36" o.c.
  - Bars should have 2" cover
- When curb is continuous w/walk, woven wire mesh (WWM) may be turned down into curb
- Curb depth below grade varies from 12" to 24"
- Curb width varies from 5" to 7"
- Compact the subgrade
- Provide ample subgrade drainage
- Expansion Joints:
  - Two types needed:
    - Joints in the curb itself
    - Joints between curb and adjacent sidewalk
  - Curb joints should occur at approximately 10' intervals and at all corners
  - Joint materials:
    - 1/2" preformed expansion joint, held down 1" for sealant on top
    - Heartwood redwood filler strip pour joint
- **CONCRETE CURB & GUTTER**
  - Minimum gutter slope toward curb is 1-2%
  - Radius at curb nose and gutter can be 1" to 3"
  - Space curb/gutter expansion joints no more than 30' apart
  - An expansion joint or key is also needed where gutter meets paving
  - Recommended reinforcing is 2 to 4 bars, #4 or #5
  - Compact the subgrade
  - Provide ample subgrade drainage
- **CONCRETE PAVING**
  - Recommended thicknesses for concrete slabs are:
    - 4" for walks, patios, and drives
    - 5" to 6" for roads, public sidewalks, and areas with heavy vehicular traffic
  - Pour slab over a gravel base 4" to 8" thick, depending on thickness of concrete and nature of soil
  - Slope surface of slab 2 or 1/2" per lin. foot minimum
  - Surface treatments:
    - To reduce slipperiness:
      - Broom finish
      - Spread abrasive grains on wet concrete
    - To achieve exposed aggregate surface:
      - Sandblast
      - Finish top slab with light water spray before curing and brushing
      - Reinforce slab with 4x4x4 or 6x6x10/10 woven wire mesh (WWM)
      - Provide 2" cover over the reinforcing
  - Expansion Joints:
    - Placement varies with climate
    - Average 30' o.c. in walks
    - 15' to 20' squares in larger areas of concrete
    - Dowelling 1/2" to 1" diameter dowel in sleeve, graphite coated, 12" to 24" long, 12" to 36" o.c.
    - Gap in slab filled with premolded or poured joint filler
  - Control Joints:
    - Can be tooled or saw cut
    - 1/8" thick nonferrous strip, or poured joint filler
    - Joint must be 1/4th of the depth of the slab to be effective
    - Edges of slab at joint should have 1/8" radius
    - Joints may be dowelled (as above), without sleeve
- **NOTATION CHECKLIST, SAMPLE NOTES**
  - CURB (TYPE & MATERIAL)
  - REINFORCING
  - FINISH GRADE/PAVEMENT
  - CURB SLOPE/RADII/CAM FER
  - PAVEMENT SLOPE
  - AGGREGATE BASE
  - COMPACTED SUBGRADE
  - CONTROL/EXPANSION JOINTS (TYPE & SPACING)
  - JOINT SEALER
  - EXPANSION JOINT MATERIAL
  - BITUMINOUS EXP. JOINT FILLER
  - RADIUS
  - 3-4# BARS CONT
  - 2-4# REBARS CONT
  - BITUMINOUS PAVING
  - COMPACTED GRANULAR BASE COURSE
  - COMPACTED SUBGRADE ON STRUCTURAL BACKFILL
  - 2" DIA. DRAIN PIPE THRU CURB
CONCRETE CURBS

DETAIL DATA CHECKLIST

CONCRETE CURBS
- Street curbs must usually follow local road department design standards
- Exposed edges can be chamfered, tooled, or have a 1/2" to 1" radius
- Reinforcing:
  - Precast concrete curbs may have dowel pins and holes at alternate ends
  - 2 - #4 bars, one top and one bottom (continuous is common)
  - May have #3 ties or stirrups at 32" to 36" o.c.
  - 2 bars at the bottom of the footing may be needed
  - Bars should have 2" cover
- When curb is continuous w/ walk, woven wire mesh (WWM) may be turned down into curb
  - Curb depth below grade varies from 12" to 24"
  - Curb width varies from 5" to 7"
  - Compact the subgrade
  - Provide ample subgrade drainage
- Expansion Joints:
  - Two types needed:
    - Joints in the curb itself
    - Joints between curb and adjacent sidewalk
  - Curb joints should occur at approximately 15' intervals and at all corners
  - Provide 1/4" radius at edge of joints
  - Joint materials:
    - 1/2" preformed expansion joint, held down 1" for sealant on top
    - Heartwood redwood filler strip pour joint

NOTATION CHECKLIST

SAMPLE NOTES

CURB (TYPE & MATERIAL) REINFORCING FINISH GRADE/PAVEMENT CURB SLOPE/RADIUS/ CAM I FER PAVEMENT SLOPE AGGREGATE BASE COMPACTED SUBGRADE CONTROL/EXPANSION JOINTS (TYPE & SPACING) FINISH GRADE TOP OF CURB PAVEMENT CONCRETE 3/4" RADIUS ON ALL EXPOSED EDGES 1/2" RADIUS EDGE CONCRETE REBARS, CONT. TOP & BOTTOM, 2" MIN. COVER CONC. SIDEWALK

CRUSHED AGGREGATE BASE 6" X 6" - 10 GAUGE WIRE MESH CAULK JOINT SEALER EXPANSION JOINT 1/2" EXPANSION JOINT MATERIAL BITUMINOUS EXP. JOINT FILLER RADIUS 3 - #4 BARS CONT. 2 - #6 REBARS CONT. BITUMINOUS PAVING COMPACTED GRANULAR BASE COURSE COMPACTED SUBGRADE OR STRUCTURAL BACKFILL 2" DIA. DRAIN PIPE THRU CURB
CONCRETE FOOTINGS

NOTATION CHECKLIST, SAMPLE NOTES

- 2 X STUDS @ "O.C.
- 2 X PLATE
- SUBFLOOR
- 2 X FLOOR JOISTS @ "O.C.
- MUDSILL W/ LEVELING GROUT
- ANCHOR BOLTS
- REINFORCING BARS
- EXTERIOR FINISH GRADE
- INTERIOR FINISH GRADE - CRAWL SPACE
- INSULATION
- THERMITE SHIELD
- RODENT BARRIER
- VAPOR BARRIER W/ SAND COVER
- FOOTING DRAIN TILE
- CONCRETE SLAB
- WELDED WIRE MESH REINFORCING
- WELDED WIRE MESH REINFORCING BARS
- TREATED WIRE MESH REINFORCING BARS
- WATERPROOF MEMBRANE
- CRUSHED ROCK OR TAMPERED SAND
- CONCRETE PIER
- PEDESTAL
- BOTTOM OF FOOTING ELEV.
- COLUMN CENTER LINE
- CONCRETE FILL
- 4 X 4 POST OR 4 X 8 BEAM ON COL. BASE

- 2" RIGID INSUL. (@foundation wall/grade beam)
- DAMPROOFING (@foundation wall/grade beam)
- #15 FELT (@over fill surrounding drain tile)
- 4" DRAIN TILE SLOPE 1" PER 12"
- POROUS GRANULAR FILL (typ. min.: 12" above,
- 6" below, & 6" on sides of drain tile)
- 6" COMPACTED EARTH FILL
- BACKFILL
- FINISH GRADE ELEV.
- FINISH FLOOR ELEV.
- GRADE BEAM
- CONC. FILL w/ #4 REBARS @12" O.C. E.A. WAY
- 1/4" LEVELING PLATE ON
- 3/4" NON-SHRINK GROUT
- 3/4" DIA. ANCHOR BOLTS 14" LONG
- 3/4" DIA. ANCHOR BOLTS 10" LONG
- #3 TIES @ 16" O.C.
- 2 X 4 KEYWAY
- PEDESTAL
- BOTTOM OF FOOTING ELEV.
- COLUMN CENTER LINE
- CONCRETE PIER
- 4 X 4 POST OR 4 X 8 BEAM ON COL. BASE

Samples from www.AutoCADDetails.net
**Concrete Footings**

**Detail Data Checklist**

**Footings with Slab Floors**
- Shaped system
- Two-pour system with foundation poured first and the slab afterward
- Place joints at intersections between floor and wall plane
- Interior bearing footings
- Avoid unbalanced, concentrated interior/exterior wall loads on soil
- Interior nonbearing footings
- Carry only the loads of walls above
- Minimum thickness as required to accommodate anchor bolt (~3" to 4"
cover each side)

**Notation Checklist**

**Sample Notes**

- 2 X studs @ 4" O.C.
- 2 X PLATE SUBFLOOR
- 2 X FLOOR JOISTS @ 4" O.C.
- MUDSILL W/ LEVELING GROUT
- CONCRETE SLAB
- CONCRETE FOOTING
- CONCRETE FOOTING REINFORCING BARS
- EXTERIOR FINISH GRADE
- INTERIOR FINISH GRADE-CRAWL SPACE INSULATION
- TERMITE SHIELD
- ROODENT BARRIER
- VAPOR BARRIER W/ SAND COVER
- FOOTING DRAIN TILE
- CONCRETE SLAB
- CONCRETE PIER
- 4" COMPACTED FILL
- 6" MIN. GRAVEL
- REINFORCING BARS
- CONT. ANGLES EMBEDDED IN SLAB
- W/ANCHORS
- VAPOR BARRIER
- NEW COMPACTED FILL
- CONC. SLAB W/ 10X10 W.W.M.
- 6" CONC. SLAB, SEE PLAN FOR REINF.
- #3 @ 16" O.C.
- #4 @ 16" O.C. EACH WAY
- FORMED METAL KEYED JOINT
- LEVELS @ 8" O.C.
- 1/2" SAWED JOINT, FILL W/ JOINT FILLER
- 1/2" X 1/4" SAWED EXP. JOINT FILLER
- 1/2" ISOLATION JOINT W/ SEALER
- 1/2" PREFORMED JOINT FILLER
- TOP SLAB REINF. @ JOINT
- FINISH FLOOR
- 1/2" PREMOLDED FILLER & SEALANT
- SEALANT
- CONTROL JOINT OR CONSTRUCTION JOINT
- 2 X 4 POST OR 4 X 6 BEAM ON COL. BASE

**Concrete Slab 1 Story**

- 2" Rigid Insul. ( foundation wall/grade beam)
- Damproofing ( foundation wall/grade beam)
- #15 Felt (over fill surrounding drain tile)
- Mini #12 Rag Roofing Felt ( over fill drain)
- 4" Perforated Pipe, 1/8" per foot
- Min. Slope to Outlet or Daylight
- 4" Drain Tile Slope ( F P E R 1 2)
- Porous Granular Fill (typ. min. : 12" above, 6" below, & 6" on sides of drain tile)
- 6" Compacted Earth Fill
- Backfill
- Finish Grade ELEV.
- Finish Floor ELEV.
- GRADE BEAM
- Conc. Figs. W/4 @ 12" O.C. EA. WAY
- 1/4" Leveling Plate on 1/4" Non-Shrink Grout
- Base Plate & Leveling Plate, See Sched.
- 3/4" Dia. Anchor Bolts 1/4" long
- #3 Tile @ 16" O.C.
- #4 Cont.
- 2 X 4 KEYWAY PER DECK
- Pier Footing SEE PLAN FOR MARK / SEE SCHED FOR SIZE & REINF.
- Column Center Line
- Concrete Pier
- 4 X 4 POST OR 4 X 6 BEAM ON COL. BASE
**DETAIL DATA CHECKLIST**

**FOOTINGS WITH SLAB FLOORS**
- T-shaped system
- Two-pour system with foundation poured first and the slab afterward
- Place joints at intersections between floor and wall plane
- Interior bearing footings
- Depth should match exterior footings
- Avoid unbalanced, concentrated interior/exterior wall loads on soil
- Interior nonbearing footings
- Carry only the loads of walls above
- Minimum thickness as required to accommodate anchor bolt—3" to 4"
  cover each side

**NOTATION CHECKLIST**

2 X STUDS @ 16" O.C.
2 X PLATE
SUBFLOOR
2 X SOLID BLOCKING
2 X FLOOR JOISTS @ 16" O.C.
MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE—CRAWL SPACE
INSULATION
TERMITE SHIELD
RODENT BARRIER
VAPOUR BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPERED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPERED EARTH
CONCRETE FOOTINGS

DETAIL DATA CHECKLIST

- FOOTINGS WITH SLAB FLOORS
  - 1-shaped system
  - Two-pour system with foundation poured first and the slab afterward
  - Place joints at intersections between floor and wall plane
- Interior bearing footings
  - Depth should match exterior footings
  - Avoid unbalanced, concentrated inferior/exterior wall loads on soil
- Interior non-bearing footings
  - Carry only the loads of walls above
  - Minimum thickness as required to accommodate anchor bolt—3" to 4" cover each side

NOTATION CHECKLIST

- 2 X STUDS @ "O.C.
- 2 X PLATE
- SUBFLOOR
- 2 X FLOOR JOISTS @ "O.C.
- MUDSILL W/ LEVELING GROUT
- ANCHOR BOLTS
- REINFORCING BARS
- EXTERIOR FINISH GRADE
- INTERIOR FINISH GRADE—CRAWL SPACE
- INSULATION
- TERMITE SHIELD
- RODENT BARRIER
- VAPOR BARRIER W/ SAND COVER
- FOOTING DRAIN TILE
- CONCRETE SLAB
- WELDED WIRE MESH REINFORCING
- WATERPROOF MEMBRANE
- CRUSHED ROCK OR TAMPED SAND
- STEEL DOWELS
- CONCRETE FOOTING
- CONCRETE FOOTING REINFORCING BARS
- FILLED & TAMPED EARTH

Samples from www.AutoCADDetails.net
CONCRETE FOOTINGS

CONCRETE FOOTINGS

NOTATION CHECKLIST
2 X STUDS @ "O.C.
2 X PLATE
SUBFLOOR
2 X BOLTED BLOCKING
2 X FLOOR JOISTS @ "O.C.
MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE-CRAWL SPACE
INSULATION
TERMITES SHIELD
RODENT BARRIER

VAPOUR BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPERED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPERED EARTH

CONCRETE FOOTING
W/SLAB 1 Story

CONCRETE FOOTING
W/SLAB 1 Story

CONCRETE FOOTING
W/SLAB 1 Story

CONCRETE FOOTING
W/SLAB 2 Story

CONCRETE FOOTING
W/SLAB 2 Story

CONCRETE FOOTING
W/SLAB 1 Story

CONCRETE FOOTING
W/SLAB 2 Story
CONCRETE FOOTINGS

CONCRETE FOOTINGS

NOTATION CHECKLIST

2 X STUDS @ "O.C.
2 X PLATE
SUBFLOOR
2 X BULK BLOCKING
2 X PLATE JOISTS @ "O.C.
MUDSILL WITH LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE—CRAWL SPACE
INSULATION
TERMITE SHIELD
RODENT BARRIER

VAPOR BARRIER W/SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPED EARTH

CONCRETE FOOTING
W/SLAB 2 Story

CONCRETE FOOTING
W/SLAB 2 Story

CONC. FOOTING & SLAB
Garage 1 Story

CONC. FOOTING
W/SLAB Garage 1 Story

CONC. FOOTING & SLAB
Garage 1 Story

CONC. FOOTING
W/SLAB Garage 1 Story

CONC. FOOTING & SLAB
Garage 1 Story

CONC. FOOTING & SLAB
Garage 2 Story

Samples from www.AutoCADDetails.net
CONCRETE FOOTINGS

DETAIL DATA CHECKLIST

GARAGE SLABS
- 5" or 6" thick instead of 4"
- Slope slab to garage door and apron or to floor drain
- Slope apron slab 1" to 3" to driveway
- Separate apron from driveway slab with 1/2" construction joint

NOTATION CHECKLIST, SAMPLE NOTES

2 X STUDS @ 24" O.C.
2 X PLATE
2 X SOLID BLOCKING
2 X FLOOR JOISTS @ 24" O.C.
MUDDILO W/LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE--CRAWL SPACE INSULATION
TERMITE SHIELD
RODENT BARRIER
VAPOR BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPED EARTH
RIGID INSUL (foundation wall/grade beam)
DAMPROOFING (foundation wall/grade beam)
#15 FELT (over fill surrounding drain tile)
4" DRAIN TILE, SLOPE 1/8" PER 12"
POROUS GRANULAR FILL (typ. min.: 12" above,
6" below, & 6" on sides of drain tile)
6" COMPACTED EARTH FILL
BACKFILL
FINISH GRADE ELEV.
FINISH FLOOR ELEV.
GRADE BEAM
CONC. FGT. W/#4 REBARS @12"O.C. EA. WAY
1/4" LEVELING PLATE ON 3/4" NON-SHRINK GROUT
3/4" DIA. ANCHOR BOLTS 14" LONG
#3 TIES @ 10" O.C.
1/2" DIA. ANCHOR BOLTS 10" LONG
2 X 4 KEYWAY
PEDESTAL
BOTTOM OF FOOTING ELEV.
COLUMN CENTER LINE
CONCRETE PIER
4 X 4 POST OR 4 X 8 BEAM ON COL. BASE
CONC. SLAB, SEE PLAN FOR REINF.
6" COMPACTED FILL
6" MIN. GRAVEL
REINFORCING BARS
CMT. ANGLES EMBEDDED IN SLAB W/ ANCHORS
VAPOR BARRIER
NEW COMPACTED FILL
4" DRAIN TILE 6"X6"X10" W.W.M.
6" CONC. SLAB, SEE FOUNDATION PLAN FOR REINF.
#3 @ 12" O.C.
#4 @ 16" O.C. EACH WAY
FORMED METAL KEYED JOINT
1 X 2 SHEAR KEY
DOWELS X @ 24" O.C.
1/8" SAWED JOINT. FILL W/ JOINT FILLER
1/4" X 1/4" SAWED EXP. CONTRACTION JOINT.
1/2" ISOLATION JOINT W/ SEALER
1/2" PREFORMED EXP. JOINT FILLER
CONTROL JOINT OR CONSTRUCTION JOINT STOP SLAB REINF. @ JOINT.
FINISH FLOOR
SEALANT
2 X 4 SOLE ON 30
# FELT
SLOPE APRON TO DRAIN AT SIDE

CONCRETE FOOTINGS

CONC. FOOTING W/SLAB
Garage 2 Story

CONC. FOOTING/SLAB W/ APRON
Garage

CONC. FOOTING/SLAB W/ APRON
Garage
CONCRETE FOOTINGS

DETAIL DATA CHECKLIST

GARAGE SLABS
- 8" or 9" thick instead of 4"
- Slope slab to garage door and apron or to floor drain
- Separate apron from driveway slab with 1/2" construction joint

NOTATION CHECKLIST, SAMPLE NOTES
- 2 X STUDS @ 16" O.C.
- 2 X PLATE
- 2 X 12" O.C.
- 2 X FELT JOINTS @ 16" O.C.
- MUDSILL W/ LEVELING GROUT
- ANCHOR BOLTS
- REINFORCING BARS
- EXTERIOR FINISH GRADE
- INTERIOR FINISH GRADE
- VAPOR BARRIER W/ SAND COVER
- FOOTING DRAIN TILE
- CONCRETE SLAB
- WATERPROOF MEMBRANE
- CRUSHED ROCK OR TAMPED SAND
- CONCRETE FOOTING
- CONCRETE FOOTING REINFORCING BARS
- DAMPROOFING @ (foundation wall/grade beam)
- DRAW TILE SLIDES/18" PER 12"
- POROUS GRANULAR FILL (max. min. 12" above, 6" below, & 6" on sides of drain tile)
- 6" COMPACTED EARTH FILL
- FILL GRADE ELEV.
- FINISH FLOOR ELEV.
- STEEL BEAM
- CONC. F/C W/4 REBARS @12" O.C. EA. WAY
- 1" LEVELING PLATE ON 1/2" NON-SHRINK GROUT
- 3/4" ANCHOR BOLTS 12" LONG
- 2 X 4 KEYWAY

CONCRETE FOOTINGS

CONCRETE FOOTINGS
CONCRETE FOOTINGS W/ BRICK VENEER

DETAIL DATA CHECKLIST
FOOTINGS WITH MASONRY WALLS

- Considerations for developing a footing for a masonry wall:
  - Weight being supported
  - Soil condition
  - Two withl of bricks with solid grout in between rest on footing or on wall
  - Use a key, or notched area at top of footing, to secure masonry wall

CONC. FOOTING W/BRICK VENEER 1-Story

CONC. FOOTING/SLAB W/BRICK VENEER 2-Story

NOTATION CHECKLIST, SAMPLE NOTES

2 X STUDS @ 9" O.C.
2 X PLATE
FLOOR BLOCKING
2 X FLOOR JOISTS @ 9" O.C.
MOULD W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE
CRAWL SPACE
INSULATION
TERMITE SHIELD
RODENT BARRIER
VAPOR BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
REINFORCING BARS
FILLED & TAMPED EARTH

4" CONCRETE BLOCK
4" LIGHTWEIGHT CONCRETE BLOCK
FACE BRICK
BRICK VENEER W/ METAL TIES TO STUD WALL
WEEP HOLES
CONT. SEALANT
4" STARTER COURSE
CONT. FLASHING
FABRIC FLASHING SET IN REGLET GROUT
SHIM
6" X 6" X 1/4" CONT. SHELF ANGLE
STEEL LUMBER ELEV.
WEEP HOLES @ 42" O.C.

2" RIGID INSUL. (@ foundation wall/grade beam)
DAMP PROOFING (@ foundation wall/grade beam)
#16 FELT (over 6" surrounding drain tile)
4" PERFORATED PIPE, 1/8" PER FOOT
4" MIN. SLOPE TO OUTLET OR DAYLIGHT
4" DRAIN TILE SLOPE UP PER 12"
POROUS GRANULAR FILL (typ. min., 12" above, 6" below, & 6" on sides of drain tile)
6" COMPACTED EARTH FILL
BACKFILL
FINISH GRADE ELEV.
FINISH FLOOR ELEV.
BOTTOM OF FOOTING ELEV.
SLAB BEAM
CONC. FLC, W/4@12" O.C. EA. WAY
1/4" LEVELING PLATE ON
3/8" NON-STRIPING GROUT
BASE PLATE & LEVELING PLATE, SEE SCHED.
24" DIA. ANCHOR BOLTS 14" LONG
#3 TIES @ 12" O.C.
#4 CONCRETE KEYWAY
REDESKET
COLUMN CENTER LINE
CONCRETE PIER
4 X 4 X 4 X 4 X 12' BEAM ON DOF BASE
CONC. FLC., SEE PLAN FOR REINF.
5" COMPACTED FILL
6" MIN. GRAVEL
REINFORCING BARS
CONT. ANGLES EMBEDDED IN SLAB W/ ANCHORS
VAPOR BARRIER
NEW COMPACTED FILL
4" CONC. SLAB W/4@12" O.C.
BASE BEAM, SEE FOUNDATION PLAN FOR
6" BRIND.

#3 @ 12" O.C.
#4 @ 18" O.C. EACH WAY
FORMED METAL KEYED JOINT
1/2" X 1/4" X 1" O.C.
FILL W/ JOINT FILLER
1/4" X 1/4" SAWS EXP. CONTRACTION JOINT.
1/2" COMPACTED FILL W/ JOINTER FILLER
1/2" PREFORMED EXP. JOINTER FILLER
1/2" METAL TIES TO CONSTRUCTION JOINT
4" TOP SLAB REIN. @ JOINTER
FINISH FLOOR
SEALANT
2 X 4 SOLE ON 3# FELT

CONC. FOOTING W/BRICK VENEER 2-Story

CONC. FOOTING W/BRICK VENEER 1-Story

CONC. FOOTING/SLAB W/BRICK VENEER 1-Story

CONC. FOOTING/SLAB W/BRICK VENEER 2-Story

Samples from www.AutoCADDetails.net
CONCRETE FOUNDATION WALLS

NOTATION CHECKLIST,
SAMPLE NOTES

2 X STUDS @ "O.C.
2 X PLATE
SUB FLOOR
2 X FLOOR JOISTS @ "O.C.
MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
CONCRETE FOUNDATION WALL
NAILER
CONSTRUCTION JOINT
STEEL DOWELS
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPERED SAND
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPERED EARTH
VAPOR BARRIER W/SAND COVER
FOOTING DRAIN TILE

2" RIGID INSUL. (@ foundation wall)
DAMP proofing (@ foundation wall)
#15 FELT (over fill surrounding drain tile)
4" PERFORATED PIPE, 1/8" PER FOOT MIN. SLOPE
4" DRAIN TILE, SLOPE 1/8" PER 12"
Porous GRANULAR FILL
6" COMPACTED EARTH FILL
BACKFILL
FINISH GRADE ELEV.
CONC. FLOOR ELEV.
CONC. FG. WALL REBARS @ 12"O.C. EA. WAY.
2 X 4 KEYWAY
FOOTING, SEE FOOTING ELEV.
FOOTING, SEE PLAN FOR MARK / SEE SCHED FOR SIZE & REINF.
#6 @ 10" O.C. HORIZ.
#6 @ 7" O.C. VERT. EXTEND THRU PIERS
PROVIDE CORNER BARS @ ALL EXT. & INT. CORNERS
CONCRETE FOUNDATION WALL
DBL. 2 X 6 TOP PLATE
2 X 12" M.W. COVER DRIVEN ANCHORS @ 12" O.C.
PVC WATERSTOP TIE @ CONSTRUCTION JOINT
SEE SPECS FOR WATERPROOFING

CONCRETE FOUNDATION WALL
Basement
CONCRETE FOUNDATION WALL
Basement/Slab 1st. Fl.

CONCRETE FOUNDATION WALL
Split Level

CONCRETE FOUNDATION WALL
Split Level

CONCRETE FOUNDATION WALL
Split Level

CONCRETE FOUNDATION WALL
Split Level

CONCRETE FOUNDATION WALL
Split Level
CONCRETE GRADE BEAMS

DETAIL DATA CHECKLIST

GRADE BEAMS
- Use to bridge piles or piers and/or transfer loads on slopes to stable support system
- Grade beams are typically cast in place in grade and supported by pilings that rest on stable soil
- Grade beam sizes and spans are determined by structural engineering as per soil conditions and weight of structure
- Frequency, depth and size of pilings are determined by structural engineering as per soil conditions and weight of structure

FOOTINGS AND GRADE BEAMS
- Note elevation points of bottoms & tops of footings
- Note elevation points and identification of existing grade, finish grade, and compacted grade
- Note reference to foundation plan for footing and grade elevations
- Show cripple wall/floor joist framing
- Redwood or pressure treated wood mudsill: 2x4, 2x6 typical sizes
- Use non-shrink grout atop foundation wall to level the wood mudsill
- Mud sill anchor bolts
- Cast-in-place bolts, 1/2" diameter, 10" long @ 6' o.c., starting 1/2" from corners
- Space bolts so they don't occur under joists or wall studs
- Power driven bolts or anchors are sometimes used at spacings such as 32" o.c. or 48' o.c.
- Redwood or pressure-treated ledgers
- Post to girder connections

CONCRETE GRADE BEAM @ PIER

CONCRETE GRADE BEAM NOTATION CHECKLIST, SAMPLE NOTES

cripple wall
2 X Studs @ 6" O.C.
2 X Mud Sill w/ Leveling Grout
Anchor Bolts
Concrete Grade Beam
Reinforcing Bars
Insulation
Finish Grade
Existing Grade
Concrete Pier w/ Steel Dowel
Termite Shield
Crawl Space
Rodent Barrier
Vapor Barrier w/ Sand Cover
Drain tile
CONCRETE PIERS

DETAIL DATA CHECKLIST

CONCRETE PIERS

- Pier sizes:
  - 14"x14" typical for single-story residential work
  - 16"x16" typical for two-story
- Pier typically with lower square base and upper truncated pyramid shape
- Truncated portion usually precast
- Base portion may be precast or poured on site below grade
- If wood post exceeds 2' in height, lateral bracing may be needed
- Redwood or pressure-treated wood cap atop pier: 2x6x6 or 2x8x8 cap is typical as nailer
- Redwood or pressure-treated wood post girder support: 6x6 or 8x8 is typical as per girder size
- If using non-rot resistant wood posts, add non-corrosive metal barrier to protect base of post
- Steel dowel at pier and post recommended where building subject to lateral loads
- Post to girder connection: Metal post straps, T strap ties, and plywood gussets are typical
- Girders provide intermediate supports to reduce span of floor joists
- Girders typically supported by wood posts on concrete piers
- Codes typically require wood girders to be minimum 12" above grade
- Typical residential girder size is 4 x 6

NOTATION CHECKLIST,
SAMPLE NOTES

2 X FLOOR JOISTS @ "O.C."
X GIRDER
X POST
WOOD PIER CAP
STEEL DOWEL
CONCRETE PIER
TERMITE SHIELD
CRAWL SPACE
RODENT BARRIER
VAPOR BARRIER W/ SAND
COVER
GRADE
STEEL COLUMN
1" GROUT
BOTTOM/FOOTING ELEV., SEE SCHEDULE
FOOTING SIZE VARIES: SEE PLAN
ANCHOR BOLTS
TOP OF PIER ELEV.
CONCRETE SLABS ON GRADE

DETAIL DATA CHECKLIST

CONCRETE SLABS & FOOTINGS
- Slab on grade & reinforcing
  - Light frame buildings typically have a 4” thick slab w/ 6”x6” #10 welded wire mesh
  - Larger building slabs are 6” and thicker as required by floor loads and soil conditions
- Slab sub-base
  - Typically 4” of crushed rock over undisturbed earth
  - Tamp or otherwise compact loose soil as per engineer’s recommendation
  - Add a layer of polyethylene over the rock sub-base to prevent excessive loss of water from the slab concrete mix
- Slab control joints
  - Typically line-cut to 1/3rd slab depth every 20’ both ways to direct and control cracks
- Provide control joints around piers and columns
- Slab construction joints
  - Typically required at 20’ to 30’ max. both ways and at intersections with other construction
- Dowelled joints
  - For movement joints, use graphite or other lubrication at one end for a bond break that facilitates free expansion and contraction.
  - Use dowels to connect two different pours of concrete
  - Size and space dowels as per engineer’s recommendations
  - Put short rods into first slab and leave exposed for second adjacent pour
- Garage slabs
  - 5” or 6” thick instead of 4”
  - Slope slab to garage door and apron or to floor drain
  - Slope apron slab 1” to 3” to driveway
  - Separate apron from driveway slab with 1/2” construction joint

NOTATION CHECKLIST, SAMPLE NOTES

CONCRETE SLAB, SEE PLAN FOR REINF.
6” COMPACTED FILL
6” MIN. GRAVEL
REINFORCING BARS
CONT. ANGLES EMBEDDED IN SLAB W/ ANCHORS
VAPOR BARRIER
NEW COMPACTED FILL
NEW SLAB, SEE FOUNDATION PLAN FOR REINF.
#4 @ 18” O.C. EACH WAY
FORMED METAL KEYED JOINT
1/2” SHEAR KEY
DOWELS X 8” O.C.
1/2” SAWED JOINT, FILL W/ JOINT FILLER
1/4” X 1/4” SAWED EXP. CONTRACTION JOINT.
1/2” ISOLATION JOINT W/ SEALER
1/2” PREFORMED EXP. JOINT FILLER
CONTROL JOINT OR CONSTRUCTION JOINT
STOP SLAB REINF. @ JOINT.
FINISH FLOOR
SEALANT
2” X 4” SPOOL ON 30# FELT
**CONCRETE STEPS**

**DETAIL DATA CHECKLIST**
- Concrete or brick steps
- Slope treads 1/4" toward the front for drainage
- Reinforce concrete steps with #3 or #4 bars @ 12" o.c. both ways
- Reinforce nose with metal nosing
- Treads should have a nonslip treatment (abrasive or broom finish)
- Call out radius on the nose, if any (1/4" is common)
- Call out finish for face of steps (i.e., stone rubbed)
- Provide expansion joints between steps and adjacent walks (top and bottom of stairs)
- Provide expansion joints at sides next to walls or building
- No single riser allowed in any run of walkway or ramp (use 3 minimum risers in any group)
- Provide handrail at every run of steps; 32" to 33" height or as required by code
- Provide night lighting at public steps
- Provide a ramp alternative near all changes in grade that require stairs

**NOTATION CHECKLIST, SAMPLE NOTES**
- Concrete finish
- Reinforcing
- Slope for drainage
- Metal nosing
- Finish grades/paving
- Handrail
- Handrail post pipe
- Sleeve/anchor
- Aggregate base
- Compacted subgrade

**CONCRETE STEPS**

**CONCRETE STEPS For Handicapped (ANSI)**

**CONCRETE STEPS**

**CONCRETE STEPS**

**CONCRETE STEPS** For Handicapped
CONCRETE WALKS & PAVING

DETAIL DATA CHECKLIST

CONCRETE PAVING

- Recommended thicknesses for concrete slabs are:
  - 4" for walks, patios, and drives
  - 5" to 6" for roads, public sidewalks, and areas with heavy vehicular traffic
  - Pour slab over a gravel base 4" to 6" thick, depending on thickness of concrete and nature of soil
  - Slope surface of slab 2 or 1/4" per lin. ft. minimum
  - Surface treatments:
    - To reduce slipperiness:
    - Broom finish
    - Spread abrasive grains on wet concrete
    - To achieve exposed aggregate surface:
    - Sandblast
    - Finish top slab with light water spray before curing and brushing
  - Reinforce slab with 4x4x4/4 or 6x6x10/10 woven wire mesh (WWM)
  - Provide 2" cover over the reinforcing
  - Expansion Joints:
    - Gap in slab filled with premolded or poured joint filler
    - Placement varies with climate
    - Average 30' o.c. in walks
    - 15' to 20' squares in larger areas of concrete
    - Doweling 1/2" to 1" diameter dowel in sleeve, graphite coated; 12" to 24" long, 12" to 36" o.c.
  - Control Joints:
    - Can be tooled or saw cut
    - 1/8" thick nonferrous strip, or poured joint filler
    - Joint must be 1/4 of the depth of the slab to be effective
    - Edges of slab at joint should have 1/8" radius
    - Joints may be dowelled (as above), without sleeve

CONCRETE & GUTTERS

- Minimum gutter slope toward curb is 1 to 2
- Radius at curb nose and gutter can be 1" to 3"
- Space curb/gutter expansion joints no more than 30' apart
- An expansion joint or key is also needed where gutter meets paving
- Recommended reinforcing is 2 to 4 bars; #4 or #5
- Compact the subgrade
- Provide ample subgrade drainage

NOTATION CHECKLIST

SAMPLE NOTES

PAVING (TYPE, MATERIAL & FINISH)
- Joint sealant & joint filler rod
- Joint filler rod
- 1/8" x 1/8" x 18" dowel bars
- 12" o.c. across slab
- Expansion joint filler material @ 18" o.c.
- Expansion joint @ 20'-0" o.c. typ.
- Paving bricks in setting bed
- Slope to drain as indicated on plans
- Slab reinfl. - see
- Vapor barrier
- Compacted granular fill
- 4" pea gravel
- Sand cushion
- Compacted earth fill as req'd

CONCRETE WALK/PAVING

Redwood Joint

Expansion Joint

CONCRETE WALK/PAVING @ EDGE

CONCRETE WALK/PAVING @ BLDG FOOTING

CONCRETE WALK/PAVING @ BLDG FOOTING

CONCRETE WALK/PAVING @ EDGE
CONCRETE WALKS & PAVING

**DETAIL DATA CHECKLIST**

**CONCRETE PAVING**

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  - 4" for walks, patios, and drives
  - 5" to 6" for roads, public sidewalks, and areas with heavy vehicular traffic
  - Pour slab over a gravel base 4" to 8" thick, depending on thickness of concrete and nature of soil
  - Slope surface of slab 2 or 1/4" per lin. foot minimum

- **Surface treatments:**
  - To reduce slipperiness:
    - Broom finish
  - Spread abrasive grains on wet concrete
  - Sandblast
  - Finish top slab with light water spray before curing and brushing
  - Reinforce slab with 4x4x4 or 6x6x10 woven wire mesh (WWW)
  - Provide 2" cover over the reinforcing

- **Expansion Joints:**
  - Placement varies with climate
  - Average 30' o.c. in walks
  - 15' to 20' squares in larger areas of concrete
  - Dowelling 1/2" to 1" diameter dowel in sleeve; graphite coated; 12" to 24" long, 12" to 30" o.c.
  - Gap in slab filled with premolded or poured joint filler
  - Joint must be 1/4 of the depth of the slab to be effective
  - Edges of slab at joint should have 1/8" radius
  - Joints may be dowelled (as above), without sleeve

- **Control Joints:**
  - Can be tooled or saw cut
  - 1/8" thick nonferrous strip, or poured joint filler
  - Joint must be 1/4 of the depth of the slab to be effective
  - Edges of slab at joint should have 1/8" radius
  - Joints may be dowelled (as above), without sleeve

**CONCRETE & GUTTERS**

- **Minimum gutter slope toward curb is 1 to 2**
  - Radius at curb nose and gutter can be 1" to 3"
  - Space curb/gutter expansion joints no more than 30' apart
  - An expansion joint or key is also needed where gutter meets paving
  - Recommended reinforcing is 2 to 4 bars; #4 or #5
  - Compact the subgrade
  - Provide ample subgrade drainage

**NOTATION CHECKLIST, SAMPLE NOTES**

**PAVING (TYPE, MATERIAL & FINISH)**

- SLOPE
- REINFORCING
- FINISH GRADE
- JOINTS
- AGGREGATE BASE
- COMPACTED SUBGRADE
- ORIGINAL GRADE
- PROVIDE GROWN IN CENTER FOR DRAINAGE
- SLOPE 1/4" PER FOOT, TYP.
- CONCRETE W. 6 X 6 - 10 GAUGE WIRE MESH
- CONC. SLAB W. 6 X 6 X #10 W.W.W.
- BONDO REDWOOD DIVIDER JOINT FILLER STRIP
- T & G JOINT
- 1/2" EXPANSION JOINT
- JOINT SEALANT & JOINT FILLER ROD
- joint filler board
- 12" O.C. ACROSS SLAB
- (at exp. #1) PAINT & ORL ONE END OF DOWEL

**EXPANSION JOINT FILLER MATERIAL @ 18" O.C. MAX.
- GALV. METAL KEYWAY W/ EDGE EXPOSED
- CONCRETE JOINT STAB @ 20"-0" O.C. TYP.
- SLAB REINF. SEE
- VAPOR BARRIER
- SAND CUSHION
- COMPACTED SUBGRADE OR STRUCTURAL FILL
- 8" CRUSHED AGGREGATE BASE @ 8" conc. paving
- 4" PE GA GRAVEL
- 4" PEA GRAVEL
- 6" CRUSHED AGGREGATE BASE @ 2" asphalt paving
DETAIL DATA CHECKLIST

CORNER GUARDS

- See manufacturers' catalogs for standard sizes, finishes, and materials.
- Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete wall construction.
- See manufacturers' and suppliers' catalogs for detail design data and specifications.
- See manufacturer's recommendations for special anchor requirements for different kinds of construction.

NOTATION CHECKLIST

CORNER GUARD (TYPE & MATERIAL)
ADHESIVE/FASTENERS
WALL CONSTRUCTION

Samples from www.AutoCADDetails.net
See manufacturers' catalogs for standard sizes, finishes, and materials.

Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete wall construction.

See manufacturers' and suppliers' catalogs for detail design data and specifications.

See manufacturer's recommendations for special anchor requirements for different kinds of construction.
CRAWL SPACE ACCESS & CONC. FOOTINGS

INTERIOR CONCRETE FOOTING 1-Story

CONCRETE FOOTING 1-Story

FOUNDATION CRAWL SPACE ACCESS/AREAWAY 1 Story

CRAWL SPACE ACCESS & CONC. FOOTINGS

DETAIL DATA CHECKLIST
CRAWL SPACE
- Crawl space & access
- 24"x18" access is typical with continuous footing below and double joists or header above
- In wet soil areas, provide vapor barrier with sand cover over soil to block ground water evaporation
- In areas infested with rodents, apply a 1" to 2" layer of mesh-reinforced cement on ground
- Typical crawl space ventilation
- Add termite shields and other insect barriers as required by local conditions
- Provide 1 sq. ft. of ventilation for each 25 sq. ft. of crawl space area
- Clearances to grade—typical minimum allowable distances:
  - Provide one vent within 3' of each building corner
  - Exterior finish—minimum 8" to finish grade.

NOTATION CHECKLIST, SAMPLE NOTES

2 X STUDS @ "O.C.
2 X BOTTOM PLATE
SUBFLOOR
2 X SOLID BLOCKING
2 X FLOOR JOISTS @ "O.C.
MUDSILL @ FOUNDATION WALL
CRAWL SPACE ACCESS OPENING
AREAWAY
AREAWAY CONCRETE RETAINING WALL
2" RIGID INSULATION (@ foundation wall or grade beam)
DAMPPROOFING (over foot fill around drain tile)
#15 FELT (over fill surrounding drain tile)
4" DRAIN TILE, SLOPE 1/8" PER 12"
POROUS GRANULAR FILL (minimum: 12" above, 6" below, & 6" on either side of drain tile)
BACKFILL
DRAINAGE Paving Edge

DETAIL DATA CHECKLIST

DRAINAGE

- Types of pipe for subsurface drains are:
  - Corrugated metal
  - Flexible plastic
  - Concrete
  - Clay tile
  - Asbestos cement
  - Rigid plastic
  - Porous and unperforated
- Install perforated drain with holes facing down
- Drainpipe should be sloped to a sump or outfall
- Grade filter material above and around drainpipe
- Depth and spacing of subdrains depends on soil type (see civil engineering handbook tables)
- Trench drains should slope to a drainpipe

NOTATION CHECKLIST, SAMPLE NOTES

FINISH GRADE/PAVING
PAVING BASE
METAL GRATING
METAL GRATING FRAME
PIPE (TYPE, SIZE, MATERIAL)
CONCRETE BASE
REINFORCING
AGGREGATE
BACKFILL
COMPACTED SUBGRADE
GRADE
4" PERFORATED PIPE, 1/8" PER FOOT MIN. SLOPE TO OUTLET OR DAYLIGHT
PAVEMENT
DRAINAGE Flumes & Inlets

DETAIL DATA CHECKLIST

CONCRETE FLUMES:
- Depth and slope of flume depend on drainage load (see civil engineering handbook tables)
- Exposed edges can be chamfered, tooled, or have a 1/2" to 1" radius
- Reinforcing:
  - Precast concrete curbs may have dowel pins and holes at alternate ends
  - Two #4 bars, one top and one bottom, continuous is common.
  - May have #3 ties or stirrups at 32" to 36" o.c.
  - Two bars at the bottom of the footing may be needed
  - Bars should have 2" cover
- When curb is continuous with paving, woven wire mesh (WWM) may be turned down into curb
  - Compact the subgrade
  - Provide ample subgrade drainage
- Expansion Joints:
  - Two types needed:
    - Joints in the curb itself
    - Joints between curb and adjacent paving
  - Curb joints should occur at approximately 15' intervals, and at all corners
    - Provide 1/4" radius at edge of joints
- Materials
  - 1/2" preformed expansion joint, held down 1" for sealant on top
  - Heartwood redwood filler strip pour joint, 1/2" flexcell

GRATES:
- In areas of foot or bike traffic, grates must not allow penetration by:
  - Heels
  - Crutches
  - Cane tips
  - Tires
  - Must still provide sufficient drainage
- Slotted grating may be used if slots run transverse to traffic direction

NOTATION CHECKLIST,
SAMPLE NOTATION

- FINISH GRADE/PAVING
- PAVING BASE
- METAL GRATING
- METAL GRATING FRAME
- PIPE (TYPE, SIZE, MATERIAL)
- CONCRETE BASE
- REINFORCING
- AGGREGATE
- BACKFILL
- COMPACTED SUBGRADE
- BROOM FINISH CONCRETE
- TOOLED EDGE CONCRETE
- SLOTTED DRAINPIPE GRATE
- 8 x 6-1/2 x 10 WWM WELD TO GRATE @ 24" O.C.
- INLET FRAME & GRATE
- SLOPE FLOOR TO OUTLET
DRAINAGE Inlets

DETAIL DATA CHECKLIST

MANHOLES
- Spaced 300' to 600' apart for inspection and maintenance
  (Also depends on sewer size and local standards)
- Manhole walls for a combined or sanitary sewer may be:
  - 8" brick
  - 8" concrete
  - Solid concrete manhole block or precast concrete units to depth of 12'
  - Below 12' depth all brick and block walls shall be 12" thick
  - Manholes over 12' deep shall also have a 12" thick base

INLETS AND CATCH BASINS
- Choice of the unit is subject to local codes and practice
  - Spacing depends on the size and type of unit, and the slope of gutter or swale in relation to anticipated runoff
    - Walls may be:
      - 8" brick
      - 8" CMU
      - 6" poured concrete
      - 5" precast concrete
  - The above are usually precast concrete or cast iron (also ductile iron)
    - Frames and grates available for light and heavy loading conditions
  - Grates:
    - In areas of foot or bike traffic, grates must not allow penetration by:
      - Heels
      - Crutches
      - Cane tips
      - Tires
    - Must still provide sufficient drainage
    - Slotted grating may be used if slots run transverse to traffic direction

NOTATION CHECKLIST, SAMPLE NOTES

FINISH GRADE/PAVING BROOM FINISH
PAVING BASE CONCRETE
METAL GRATING TOOLED EDGE
CONCRETE GRADE
AGGREGATE SLAB FLOOR TO OUTLET
COMPACTED SUBGRADE
DRAINAGE Paving Edge

DETAIL DATA CHECKLIST

DRAINAGE

- Types of pipe for subsurface drains are:
  - Corrugated metal
  - Flexible plastic
  - Concrete
  - Clay tile
  - Asbestos cement
  - Rigid plastic
  - Porous and unperforated
  - Install perforated drain with holes facing down
  - Drainpipe should be sloped to a sump or outfall
  - Grade filter material above and around drainpipe
  - Depth and spacing of subdrains depends on soil type (see civil engineering handbook tables)
  - Trench drains should slope to a drainpipe

NOTATION CHECKLIST, SAMPLE NOTES

FINISH GRADE/PAVING

PAVING BASE

METAL GRATING

METAL GRATING FRAME

PIPE (TYPE, SIZE, MATERIAL)

CONCRETE BASE

REINFORCING

AGGREGATE

BACKFILL

COMPACTED SUBGRADE

GRADE

4" PERFORATED PIPE, 1/8" PER FOOT MIN. SLOPE TO OUTLET OR DAYLIGHT

PAVEMENT
EROSION CONTROL Concrete, Stone, Wood Grid

DETAIL DATA CHECKLIST

EROSION CONTROL
- Slopes up to 2:1, use stone, broken concrete, or wood grid
  - Slopes up to 1:1, use stone or broken concrete set on mortar and with mortar between joints
  - OR
  - Use precast unit (concrete with voids for soil)
  - Steep slopes, use retaining walls (see later section)

STONE EROSION CONTROL
- Use 4" to 8" diameter round stone
  - Hand place on a 3" sand bed

BROKEN CONCRETE EROSION CONTROL
- Each piece should be a minimum of 1" square and 4" thick
  - Joints should be tight sand or mortar at least 1" wide
  - Set pieces on a 2" sand bed

WOOD GRID EROSION CONTROL
- Lay 2x4s across the slope at 3' spacing; lay 1x4 ties at 8' o.c.
  - Fill grid spaces with topsoil and sod or seed, wood chips, gravel, or ground cover

PRECAST UNITS EROSION CONTROL
- Set on a 2" sand bed; fill voids with topsoil

NOTATION CHECKLIST,
SAMPLE NOTATION

PAVER UNITS
SETTING BED
SLOPE
COMPACTED SUBGRADE
FINISH: METAL FRAME PARTITIONS

DETAIL DATA CHECKLIST

METAL STUD WALLS

Studs shown in this series are steel members in the sizes indicated in the detail titles

Metal wall manufacturers' instructions and details for these products are very comprehensive; use the data here as a preliminary design guide

Partition notation mainly consists of naming the various components such as:

- Metal studs:
  - Channel,
  - Open web
  - Nailable
  - Floor and ceiling tracks
  - Tracks connecting to other wall construction
  - Jamb anchor clips
  - Bolt or toggle bolt connection to ceiling
  - Movement sleeve at ceiling
  - Sealant at top and bottom tracks
  - Horizontal 3/4" channel stiffeners:
    - At door jambs
    - Above door heads
    - Usually within 12" of other wall openings

FINISH WALL CONSTRUCTION

Gypsum wallboard and other finish material manufacturers provide comprehensive instructions and details for their products; use the data here as a preliminary guide.

Building codes provide extensive instructions on fireproofing requirements; those requirements have evolved from many years of fire experience and should be followed with extreme care.

Common wall finishes combined with metal frame partitions include:

- 3/8" plywood paneling
- 3/8" gypsum wallboard

Interior Single Layer:
- 1/2" gypsum wallboard
- 5/8" gypsum wallboard
- 3/4" 7/8" 1" metal lath and plaster

Interior Double Layer:
- 2 - 3/8" gypsum wallboard
- 2 - 1/2" gypsum wallboard
- 2 - 5/8" gypsum wallboard
- 1/2" gypsum wallboard plus 3/8" plywood paneling
- 3/8" gypsum lath plus 1/2" plaster (7/8")
- 3/8" gypsum lath plus 5/8" plaster (1")
- 3/8" gypsum lath plus 3/4" plaster (1-1/8")

Gypsum Wallboard Walls & Ceilings. Special types of gypsum wallboard that might be noted in details include:
- Type X for fire resistance
- Water resistant
- Waterproof
- Sound deadening
- Insulative foil backed

Gypsum wallboard assembly components commonly identified in detail drawing notes include:
- Corner beads
- Edge trim
- Corner guards
- Edge trim sealant @ floor and ceiling
- Resilient channels
- Angle clip reinforcement @ ceilings

Lath & Plaster Walls & Ceilings. Plaster coats sometimes identified in large scale details are:
- Scratch coat
- Brown coat
- Finish coat

Lath and plaster components commonly identified in detail notation include:
- Expanded metal lath
- Wire lath
- Gypsum lath
- Base screeds
- Corner beads
- Edge casing beads
- Grounds
- Picture mouldings
- Window stools
- Corner lath reinforcement
- Control joints

Other wall and ceiling finishes that might be noted include veneer plaster, sprayed acoustical surface, fabric or carpet, vinyl, laminated plastic, etc. Such applied finishes may be named in details but are commonly referenced to the finish schedule and specifications.

OTHER DETAIL AND NOTATION DATA THAT MAY BE USED WITH THESE DETAILS

Wall-related detail items:
- Mirrors
- Attached casework
- Shelving
- Tack and chalk boards
- Ornamental trim, casings, and special moldings
- Casework at end walls and jambs
- Coves and valances
- Signs and support backing
- Recessed compartments
- Pass-thru openings
- Access panels
- Louvers or vents

Samples from www.AutoCADDetails.net
FLAGPOLES

FULL-SCALE GENERIC DETAILS

FLAGPOLE Crown

FLAGPOLE Base

FLAGPOLES

DETAIL DATA CHECKLIST

FLAGPOLE BASE
- Footing dimensions are determined by the height of the pole
- See manufacturer's recommendations on footing/height ratio
- Place pole in corrugated tube, and pack with dry sand
- Ground the flagpole for lightning protection
- Pole anchorage as per manufacturer's requirements

GROUND WORK_logo.png

NOTATION CHECKLIST, SAMPLE NOTES

POLE
METAL COLLAR/BASE CAP
CORRUGATED STEEL SLEEVE/GROUT TUBE
BASE PLATE
LIGHTNING ARRESTOR/GROUND SPIKE
FOOTING
BACKFILL
SUBGRADE
SATIN BRUSHED ALUM. BALL
WATERPROOF CEMENT
LEVELING WOOD WEDGES
TAMPED, DRY FINE SAND
16 GA. GALV. CORRUGATED STEEL TUBE
@ FOOTING
METAL PIPE SLEEVE
CONCRETE BASE
PLATE SUPPORT WELDED TO SPIKE
3/4" DIA. STEEL LIGHTNING GROUND SPIKE, WELD TO PLATE
CONCRETE FOOTING

Samples from www.AutoCADDetails.net
FLASH: FLASHING AT PARAPETS

The primary cost of flashing is labor, so the best materials add little to the cost of this crucially important part of construction.

Commonly used flashing materials:
- Copper
- Lead
- Zinc
- Aluminum
- Galvanized steel
- Plastic
- Copper-backed paper
- Building paper felt and impregnated fabric

Parapet flashing typically consists of two overlapping L sections:
- One L section is attached to the roof
- The other is counterflashing, an inverted L that fits into a parapet reglet and slips down over the top of the lower base flashing

26 gauge flashing is commonly used because it affords good protection while still being thin enough to bend, form, and work with comfortably.

Base flashing is bent upwards at 45 degrees to avoid sharp corners that might split the metal or roofing.

Minimum flashing width for most flashing situations is 8"

Any extended lengths of flashing requires expansion joints

Refer to the Manual of standards of the Sheet Metal and Air Conditioning Contractors National Association for varied detail conditions and installation standards
NOTATION CHECKLIST, SAMPLE NOTES

PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
CANT/NAILER
ADHESIVE/SEALANT/CAULKING
ROOFING SUBFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
COPING

SAMPLE NOTES:
24 GA. CLIP-ON FLASHING, ATTACH @ 12" CTR. OF EA. PIECE
2 X 10 WOOD BLKG., SECURE TO MTL. STUD & BRICK W/1/2" DIA. ANCHOR BOLT 8" LONG @ 48" O.C.
MANUFACTURED REGLET & FLASHING SYSTEM
G.I. FLASHING
ELASTOMERIC FLASHING
BASE FLASHING OVER PLATE
FLASHING APPLIED W/ ADHESIVE
LEAD OR ALUMINUM FLASHING
CONT. CLEAT
SHIM (to slope)
BASE FLASHING NAILS @ 8" O.C.
WEDGE & SEAL
FLASHING JOINT SET IN ROOFING CEMENT
METAL CAP FLASHING
S.S. FLASHING INTO PRESET REGLET
FLASH REGLET, BEND DOWN AFTER INSTALLING
FLUSH TIGHT AGAINST WALL
METAL FLASHING SET IN MORTAR BED
METAL CLIP @ 3'-5" O.C.
COMPOSITION FLASHING
BUILT-UP ROOFING
BASE SHEET INSULATION
EEL VAPOR BARRIER
FILL, PITCH TO DRAIN
WOOD BLOCKING
NAILABLE CANT
CONT. 4" HIGH CANT
NOTATION CHECKLIST, SAMPLE NOTES

CEILING LINE @
2 $ STUDS @ " O.C.
HEADER
TRIM FOR CASED OPENING
2 $ BOTTOM PLATE
2 $ TOP PLATE
BASE (FINISH BASE SIZE/MATERIAL)
FINISH FLOOR

INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
MASONRY VENEER
RAILINGS/WALL GUARDS
HOOKS/TRACKS
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES
PASS-THRU
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS

EXTERIOR:
THERMAL INSULATION
GYPSUM WALLBOARD SHEATHING
WOOD SHEATHING
MOISTURE BARRIER
LATH & PLASTER/STUCCO
WOOD SIDING
MASONRY VENEER
FLASHING/WATERPROOFING
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES

BATT INSULATION
INSULATION BOARD
WOOD SIDING
15# FELT
1/2" FOIL FACE INSULATION
AIR SPACE
1/2" X 6" BEVELED LAP SIDING
1/2" PLYWOOD SHEATH
PLYWOOD SIDING
VAPOR BARRIER
WOOD TRIM
2 $ RAFTERS @ " O.C.

BLOCKING
FLASHING
GYPSUM BOARD CEILING
HARDWOOD STOPS
HARDWOOD JAMB
2 X CONT. WOOD BLOCKING
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIPLINE
1 X WOOD STOP
FRENCH & TRENCH DRAINS

DETAIL DATA CHECKLIST

DRAINAGE
- Types of pipe for subsurface drains are:
  - Corrugated metal
  - Flexible plastic
  - Concrete
  - Clay tile
  - Asbestos cement
  - Rigid plastic
  - Porous and unperforated
- Install perforated drain with holes facing down
- Drainpipe should be sloped to a sump or outfall
- Grade filter material above and around drainpipe
- Depth and spacing of subdrains depends on soil type (see civil engineering handbook tables)
- Trench drains should slope to a drainpipe

DRAIN INLET COVERS
- Usually precast concrete or cast iron (also ductile iron)
- Frames and grates available for light and heavy loading conditions
- Shapes available:
  - Round
  - Rectangular
  - Square
  - Linear

GRATES
- In areas of foot or bike traffic, grates must not allow penetration by:
  - Heels
  - Crutches
  - Cane tips
  - Tires
- Must still provide sufficient drainage
- Slotted grating may be used if slots run transverse to traffic direction

NOTATION CHECKLIST,
SAMPLE NOTATION

FINISH GRADE/PAVING
PAVING BASE
METAL GRATING
METAL GRATING FRAME
CONCRETE BASE
REINFORCING
AGGREGATE
BACKFILL
COMPACTED SUBGRADE
METAL FURRING

Typically consists of metal furring strips added to rough wall or ceiling construction for attachment of lath or gypsum wall board.

A typical gypsum board support system:
- Hanger wires are typically spaced 48" o.c. and within 6" of the end of carrying channel.
- Hanger wires support 1-1/2" carrying channels set at 48" o.c. and within 6" of walls.
- 7/8" metal furring channels are supported at right angles to the carrying channels.
- Furred spaces may be used for chases and soffits and are constructed of combinations of wood or metal studs and furring strips.

See manufacturers' recommendations regarding attachment of hanger wire and furring strips to various types of substructure.

Common wall finishes combined with metal framed partitions and furring include:
- 3/8" plywood paneling
- 3/8" gypsum wallboard
- 1/2" gypsum wallboard
- 5/8" gypsum wallboard
- 3/4" 7/8" 1" metal lath and plaster
- 2 - 3/8" gypsum wallboard
- 2 - 1/2" gypsum wallboard
- 2 - 5/8" gypsum wallboard
- 1/2" gypsum wallboard plus 3/8" plywood paneling
- 3/8" gypsum lath plus 1/2" plaster (7/8")
- 3/8" gypsum lath plus 5/8" plaster (1")
- 3/8" gypsum lath plus 3/4" plaster (1 1/8")

Gypsum Wallboard Walls & Ceilings -- special types of gypsum wallboard that might be required:
- Sound deadening
- Type X for fire resistance
- Insulative foil backed
- Water resistant
- Waterproof

Gypsum wallboard assembly components commonly identified in detail drawing notes include:
- Corner beads
- Edge trim
- Corner guards
- Edge trim sealant @ floor and ceiling
- Resilient channels
- Angle clip reinforcement @ ceilings

Lath and plaster components commonly identified in detail notation include:
- Expanded metal lath
- Wire lath
- Gypsum lath
- Control joints
- Base screeds
- Corner beads
- Edge casing beads
- Grounds
- Picture mouldings
- Window stools
- Corner lath reinforcement
GLASS BLOCK

Basic use and characteristics:
- Use as panels or wall inserts as light diffusers for exterior screens and interior partitions
- Typical block sizes
  - 3-7/8" thick x 5-3/4" square
  - 7-3/4" square
  - 11-3/4" square
- Visible inside joint typically 1/4" thick, exterior joint 5/8" max.
- For non-bearing partitions or infill
  - Laid only in stack bond
  - Provide movement joints and anchors as per manufacturers' instructions
- Maximum panel sizes
  - Let into wall frame: 24' long, 20' high without intermediate mullions (or max. area of 144 sq. ft.)
  - Anchored to wall: 10' x 10' without intermediate mullions (or max. area of 100 sq. ft.)
- Wall anchors
  - Metal strips to fasten glass block panels to adjacent walls
    - Typically 1-3/4" wide x 24" x 20 gauge galvanized steel strips
- Wall ties
  - Galvanized wire reinforcing lattice laid through horizontal mortar joints
    - Typically spaced at 24"
  - Not to extend across vertical movement joints
- Wall expansion strips at heads and jambs
- Details vary with manufacturer; see manufacturers' data on:
  - Special molded patterns
  - Diffusion characteristics (directed light such as exterior light directed to ceiling)
  - Modular patterning for integration with brick and concrete block
  - Anchors and wall ties
  - Expansion joints and strips
  - Mullions and stiffeners

NOTATION CHECKLIST, SAMPLE NOTES

| METAL CHANNEL/ANGLE ANCHOR FLAShING EXPANSION STRIP CAULKING JOINT REINFORCING OAKUM EXPANSION STRIP ASPHALT EMULSION PANEL REINFORCING PANEL ANCHOR HOOKED WIRE ANCHOR ROOFERS FELT CALY DOVETAIL ANCHOR DETAIL ANCHOR SLOT @ 24" O.C. |
GRAVEL STOPS

**DETAIL DATA CHECKLIST**

GRAVEL STOPS

**Materials:** Sheet metal such as coated galvanized steel or copper nailed to roof substrate, wide variety of materials and finishes available. Gauges and sizes:
- 4" to 6" high lip at fascia  24 gauge for 4" to 5" lip  22 gauge for 6" to 8" lip
- 16 oz. copper 4" to 6" lip  20 oz. copper 7" to 8" lip.

Provide expansion joints to allow for:
- 1/2" thermal movement in a 40' length of galvanized steel
- 1/2" movement for 40' copper  3/8" movement for 40' aluminum
- Set one side of overlapping joint fasteners in mastic so that one half adheres and the other half is free to allow thermal movement
- If fascia lip of gravel stop is 4" or higher, apply continuous interlocking cleat at bottom of stop at vertical edge to secure against wind uplift
- Use neoprene or similar watertight washer where cleats are nailed to wall
- Install on raised curb with 1" minimum top lip

Trouble spots:
- Gravel stops that are not above ponding line are subject to water infiltration
- Concealed gravel stops that stop at the top of a wall rather than over-hanging are subject to leaks
- Direct nailing or attachment of coping to wall surface doesn't allow for differential movement

**NOTATION CHECKLIST, SAMPLE NOTES**

- **METAL GRAVEL STOP**
- **CANT/NAILER**
- **CLEAT/EDGE STRIP/FASCIA PLATE**
- **ROOFING SUB STRATA**
- **(TYPE, LAYERS & COVER MATERIAL)**
- **ROOF DECK/INSULATION**
- **ROOF CONSTRUCTION**
- **ROOF FASCIA**
- **EXTRUDED ALUM. FASCIA**
- **TREATED CANT**
- **TREATED 2 X 6 MIN. BOLTED TO STRUCTURE**
- **TREATED WOOD BLOCKING**
- **ELASTOMERIC SEALANT ALONG ENTIRE LENGTH OF FLASH. TYPICAL**
- **COMRESSIBLE FILLER RD**
- **STEEL ANGLE, SEE STRUCTURAL**

- **MEMBRANE BASE FLASHING CONT. TO COVER CANT & WOOD BLKO. 6" MIN. BASE FLASHING**
- **SECOND PLY TO LAP OTHER PLY S FULL LENGTH OF CANT**
- **FLASHING APPLIED WADHEIVESIVE**
- **LEAD OR ALUMINUM FLASHING CONT. CLEAT SEALANT**
- **SHIM (to stop)**
- **BASE FLASHING NAILS @ 8" O.C.**
- **SEALANT**
- **COMPOSITION FLASHING BUILT-UP ROOFING**
- **BASE SHEET INSULATION**
- **VAPOR BARRIER**
- **FILL, PITCH TO DRAIN**
- **NAILABLE CANT CONT. 4" HIGH CANT**
GRAVEL STOPS

**DETAIL DATA CHECKLIST**

**GRAVEL STOPS**

Materials: Sheet metal such as coated galvanized steel or copper nailed to roof substrate, wide variety of materials and finishes available. Gauges and sizes:
- 4" to 8" high lip at fascia _24 gauge for 4" to 5" lip _22 gauge for 6" to 8" lip
- 16 oz. copper 4" to 6" lip _20 oz. copper 7" to 8" lip

Provide expansion joints to allow for __1/2" thermal movement in a 40' length of galvanized steel

- Set one side of overlapping joint fasteners in mastic so that one half adheres and the other half is free to expand.

- If fascia lip of gravel stop is 4" or higher, apply continuous interlocking cleat at bottom of stop at vertical edge to secure against wind uplift

- Use neoprene or similar watertight washer where cleats are nailed to wall.

- Install on raised curb with 1" minimum top lip

Trouble spots:
- Gravel stops that are not above ponding line are subject to water infiltration
- Concealed gravel stops that stop at the top of a wall rather than over-hanging are subject to leaks
- Direct nailing or attachment of coping to wall surface doesn't allow for differential movement

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**NOTATION CHECKLIST, SAMPLE NOTES**

**GRAVEL STOP Extruded**
- **CANT/NAILER**
- **CLEAT/EDGE STRIP/FASCIA PLATE**
- **ROOF DECK/INSULATION**
- **ROOF CONSTRUCTION**
- **ROOF FASCIA**
- **EXTRUDED ALUM. FASCIA**
- **TREATED CANT**
- **TREATED 2 X 6 MIN. BOLTED TO STRUCTURE**
- **TREATED WOOD BLOCKING**
- **ELASTOMERIC SEALANT ALONG ENTIRE LENGTH OF FLASH, TYPICAL**
- **COMPRESSIBLE FILLER RD. STEEL ANGLE, SEE STRUCTURAL**
- **MEMBRANE BASE FLASHING CONT. TO COVER CANT & WOOD BLKG. 6" MIN. BASE FLASHING**
- **SECOND PLY TO LAP OTHER PLY'S FULL LENGTH OF CANT FLASHING APPLIED WADHESIVE LEAD OR ALUMINUM FLASHING CONT. CLEAT SEALANT (down)**
- **BASE FLASHING NAILS @ 8" O.C. SEALANT**
- **COMPOSITION FLASHING BUILT UP ROOFING BASE SHEET INSULATION VAPOR BARRIER FILL, PITCH TO DRAIN NAILABLE CANT CONT. 4" HIGH CANT**

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**GRAVEL STOP W/Fascia Plate**

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**GRAVEL STOP Formed**

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NOTEBOOK CHECKLIST, SAMPLE DETAILS

GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
1/4" x 1" SHEET METAL GUTTER
SPACER @ 6'-0" O.C.
SHEET METAL GUTTER
CONT. SHEET METAL CLEAT
BLOCKING
RIVETS
OPTIONAL GUTTER PROFILE
1/8" X 1" SHT. MTL. GUTTER
BRACKET @ 3'-0" O.C.
DOWNSPOUT
SPLASH BLOCK
GUTTERS

METAL GUTTER
Beveled

METAL GUTTER
Beveled

NOTATION CHECKLIST,
SAMPLE NOTES

GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
1/16" x 1" SHEET METAL GUTTER
SPACER @ 8'-0" O.C.
SHEET METAL GUTTER
CONT. SHEET METAL CLEAT
BLOCKING
RIVETS
OPTIONAL GUTTER PROFILE
1/8" x 1" SHT MTL. GUTTER
BRACKET @ 3'-0" O.C.
DOWNSPOUT
SPLASH BLOCK
GUTTERS

METAL GUTTER
Beveled

GUTTERS

NOTATION CHECKLIST,
SAMPLE NOTES

GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
   (TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
1/16" x 1" SHEET METAL GUTTER
SPACER @ 6'-0" O.C.
SHEET METAL GUTTER
CONT. SHEET METAL CLEAT
BLOCKING
RIVETS
OPTIONAL GUTTER PROFILE
1/8" x 1" SHT MTL GUTTER
BRACKET @ 3'-0" O.C.
DOWNSPOUT
SPLASH BLOCK
GUTTERS (Wood Gutters Included)

NOTATION CHECKLIST, SAMPLE NOTES

- GUTTER
- HANGER
- BRACKET
- METAL GRAVEL STOP
- CANT/NAILER
- CLEAT/EDGE STRIP/FASCIA PLATE
- WALL CONSTRUCTION
- REGLET
- FLASHING/COUNTERFLASHING
- ADHESIVE/SEALANT/CAULKING
- ROOFING SURFACE
  (TYPE, LAYERS & COVER MATERIAL)
- ROOF DECK/INSULATION
- ROOF CONSTRUCTION

WOOD GUTTER Ogee

3x4  4x4  4x5

4x6  5x7
GUTTERS

NOTATION CHECKLIST, SAMPLE NOTES

- GUTTER
- HANGER
- BRACKET
- METAL GRAVEL STOP
- CANT/NAILER
- CLEAT/EDGE STRIP/FASCIA PLATE
- WALL CONSTRUCTION
- REGLET
- FLASHING/COUNTERFLASHING
- ADHESIVE/SEALANT/CAULKING
- ROOFING SURFACE
  (TYPE, LAYERS & COVER MATERIAL)
- ROOF DECK/INSULATION
- ROOF CONSTRUCTION
  1/16" x 1" SHEET METAL GUTTER SPACER @ 6'-0" O.C.
- SHEET METAL GUTTER
- CONT. SHEET METAL CLEAT
- BLOCKING
- RIVETS
- OPTIONAL GUTTER PROFILE
  1/8" X 1" SHT. MTL. GUTTER BRACKET @ 3'-0" O.C.
- DOWNSPOUT
- SPLASH BLOCK
Guy wire connections are usually an afterthought: a way of securing add-on equipment on a rooftop after it's built. It's not good construction practice to penetrate the roof with connectors of any sort and especially connectors that will be subject to stress and possible movement.

If they must be included, they're handled as pitch pockets: enclosed, caulk-filled holes around the penetrating guy-wire eyebolt. Hot- or cold-applied caulk such as bitumin with fiber filler is poured and/or packed around the penetration.

Coordinate the detailing for such work closely with the structural engineers and make sure the operation is covered in the roofing preconstruction meeting. This work should be part of the roofing contract and included in the roofing warranty.

**Sample Notes**

- **Eye Bolt (Material & Size)**
  - 3/4" Stainless Steel Eyebolt
- **Sealer/Pitch**
  - Pourable Sealer
- **Roofing Surface**
  - Molded Flashing
  - Galv. Metal Dam
- **Roofing Deck/Insulation**
  - Membrane in Contact with Pourable Sealer
  - Treated Wood Blocking
- **Roof Construction**
  - Metal Deck
  - Filler
Handicap ramps must usually be as per the governing agency’s design standards and specifications. Design standards, specifications and detail drawings are usually referenced by the governing agency.

Detail Data Checklist

Ramps
- See building code and handicap design regulations for slope and handrail requirements.
- Slope is typically maximum for wheelchairs for up to 30'.
- Provide curbs 4” to 6” high at each side of ramps to prevent side runaways or tipping of wheelchairs.
- Provide nonslip treatment (abrasive surface or broom finish applied across width of ramp).

Notation Checklist, Sample Notes

Concrete walls/ramp
Reinforcing
Handrails/Brackets
Camfer
Aggregate base
Compacted subgrade
Sealant
Footings

1/4” Grooves, 3/4” O.C.
Stiff broom finish on ramp surface
Textured concrete
Conc. gutter
Course broom finish
Top of curb
Reinforcing
INTERIOR PARTITION @ FLOOR / CEILING

NOTATION CHECKLIST, SAMPLE NOTES

SUBFLOOR
2 X FLOOR JOISTS @ "O.C.
2 X SOLID BLOCKING
2 X DOUBLE TOP PLATE
2 X STUDS @ "O.C.

INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
SOUND INSULATION
PLYWOOD SHEATHING
MARBLE TILE FLOORS

Typical thicknesses are 7/8" and 1-1/4".

Joints are typically 1/16" thick.

Typical marble tile size ranges are 8" x 16", 12" x 12", and 10" x 20".

Marble comes in hundreds of varieties, in five classes and four grades:
- Classes are Travertine, Dolomite, Calcite, Onyx, and Serpentine, see supplier's catalogs for flooring characteristics and recommendations.
- Grading is according to uniformity of appearance: A, B, C, and D; A being best.

Provide a stable substrate; movement of substrate will cause cracks.

Provide complete, compact bedding beneath marble tile slabs to avoid bending stresses and cracking.

Don't use marble floors in restrooms or other areas where it would be exposed to acids or alkaline substances.

Don't use polished marble near exterior doors, restrooms or other areas where floors may be wet and slippery.

Marble can be dangerously slippery and shouldn't be used on stairs or ramps.

DETAIL DATA CHECKLIST

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)
SETTING BED (MATERIAL & SIZE)
JOINT SIZE
MEMBRANE/WATERPROOFING
FLOOR
PARTICLE BOARD UNDERLAYMENT
SUBFLOOR/SLAB
REINFORCING

MARBLE TILE FLOORING

 samples from
www.AutoCADDetails.net

samples from
www.AutoCADDetails.net
MASONRY PARAPETS

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS

Design limits of wall types, thicknesses and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

NOTATION CHECKLIST, SAMPLE NOTES

COPING/CAP FLASHING
PARAPET WALL CONSTRUCTION
FLASHING/COUNTERFLASHING
WEEP ANCHOR/TIES
SEALANT/CAULKING
CANT ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK INSULATION
ROOF CONSTRUCTION/FRAMING

FACE BRICK
METAL DOPING SET W/ MASTIC SEALANT @ SPlice JOINTS
BASE FLASHING
TWO-PIECE METAL FLASHING
BRICK ANCHORS
CONT. 4” CANT
1” X 4” PREFORMED CANT
BLOCKING
RIGID THICK INSULATION
FOAMED-IN INSULATION
VAPOR BARRIER
1/2” PREMOLED FILLER
5F. FELT ON GYPSUM SHEATHING ON METAL STUDS @ 2-3” O.C.
BRICK VENEER WITH METAL TIES TO STUD WALL
WOOD BLOCKS SECURED TO METAL STUD & BRICK W/ 5/8” DIA. BOLT @ 48” O.C.
MASONRY PARAPETS

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS

Design limits of wall types, thickness, and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

NOTATION CHECKLIST, SAMPLE NOTES

COPING/CAP FLASHING  
PARAPET WALL CONSTRUCTION  
FLASHING/COUNTERFLASHING  
WEEN  
ANCHORITIES  
SEALANT/CAULKING  
CAN  
ROOFING SURFACE  
TYPE LAYERS & COVER MATERIAL  
ROOF DECK INSULATION  
ROOF CONSTRUCTION/FRAMING  
FACE BRICK  
METAL CORING SET W/MASTIC  
SEALANT @  
SPICE JOINTS  
BASE FLASHING  
TWO-PIECE METAL FLASHING  
BRICK ANCHORS  
CONT. A CANT  
BLOCKING  
RIGID THICK INSULATION  
FOAMED-IN INSULATION  
VAPOR BARRIER  
1/2" PREMOLDED FILLER  
CONCRETE BLOCK  
4" LIGHTWEIGHT CONC. BLOCK  
FACE BRICK  
BRICK VENEER W/METAL TIES TO STUD WALL  
WEEN HOLES  
CONT. SEALANT  
4" STARTER COURSE  
CONT. FLASHING  
FABRIC FLASHING SET IN REGLET  
GROUT  
SHAM  
5" X 3" X 1/4" CONT. SHELF ANGLE  
STEEL LINTEL ELEV  
STEEL ANGLE LINTEL  
WEEN HOLES @ 16" O.C.  
METAL STRAP ANCHORS EVERY 6TH COURSE  
1/2"  
BRICK ANCHORS  
FLEX CORNER  
ANCHOR SLOTS SPACED 2'-0" O.C.  
4" X 4" X 1/2"  
GROUT CORES  
RENP @ 16" O.C. TYP.  
1" RIGID INSULATION  
FOAMED INSULATION
MASONRY PARAPETS

DETAIL DATA CHECKLIST

Brick and concrete block walls, design limits of wall types, thicknesses and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

Metals Coping Set w/ Mastic Sealant at Splice Joints Only

2 x 10" Corrugated Secured to Metal Studs

Brick with DRH, Bolt 5" LONG @ 48" O.C.

Base Flashing

Two-Piece Metal Flashing

Face Brick

Formed-R Hart Insulation

Brick Anchors

Cont. 4" H. Cant

Cont. 4" H. Cant

1" x 4" Precut Canted Cant

Blocking

2-3/4" Thick Insulation

Vapor Barrier

1/2" Premolded Filler

5# Felt On Zydum Sheathing On 4" Metal Studs @ 24" O.C.

Brick Veneer WMetal Ties To Stud Wall

NOTATION CHECKLIST, SAMPLE NOTES

Coping/Cap Flashing

Parapet Wall Construction

Flash/Couter Flashing

Weep

Anchors/Ties

Sealant/Caulking

Can

Roofing Surface

Type, Layers & Cover Material

Roof Deck Insulation

Roof Construction/Framing

Parapet (12" Cav. Wall--4" Brick & 8" HMU)

Parapet (12" Wall--4" Brick & 8" HMU)

Parapet (12" Wall--6" HMU)

Parapet (12" HMU Wall)

Parapet (12" Wall--4" Brick)

Parapet (12" Wall--Brick & Conc.)
MASONRY YARD WALLS

DETAIL DATA CHECKLIST

CONCRETE MASONRY UNIT YARD WALLS

- Concrete footing
- Top of footing below the frost line
- Minimum footing:
  - 10" deep
  - 16" wide
- 2 #3 continuous rebars
- Provide cap or coping
- Use Type S mortar for resistance to horizontal forces
- Joints—tooled S or V mortar joints for maximum weatherproofing
- Expansion joints—vertical joints at 50" minimum
- For an 8" CMU wall, use a 12" CMU pilaster
- Place horizontal reinforcing at 24" o.c., continuous through the pilaster
- Dowel wall to concrete footing with #4 dowels at 24" o.c.
- Fill block cells with grout at each dowel
- Bond beams at top of wall with #5 continuous, at 32" o.c.

MASONRY YARD WALLS

NOTATION CHECKLIST, SAMPLE NOTES

TOP OF WALL ELEVATION

- 3 #3 cont. & #3 bars x 2'-6" @ 12" O.C.
- Horiz. cont. reinf.
- Footing (Reinf. typ. for a 1" x 3" fig.
- 3 #3 cont. & #3 bars x 2'-6" @ 12" O.C.)
- #4 dowel @ 24" O.C. (Typ. tie from block
- wall to fig.-90° angle 30" vertical & 12"
- horiz. int. fig.)
- Fill cell w/ grout @ each dowel (block
- walls)
- Weep holes @ 48" O.C.
- Expansion joints
- Conc. blk. pilaster

YARD WALL 4" HMU

YARD WALL 6" HMU

YARD WALL 8" HMU

YARD WALL 4" Brick/8" HMU
MASONRY YARD WALLS

DETAIL DATA CHECKLIST

BRICK YARD WALLS
- Use SW grade brick for weather resistance
- Concrete footings
- Top of footing below the frost line
- Minimum footing:
  - 10" deep
  - 16" wide
  - 2 #3 continuous rebars
- Provide cap or coping:
  - Concrete
  - Stone
  - Rowlock brick
- Use Type S mortar for resistance to horizontal forces
- Joints—booted S or V mortar joints for maximum weatherproofing
- Expansion joints—vertical joints at 30' minimum
- Reinforcing—horizontal trans-type wire reinforcing
every 6th course
- In areas of heavy wind (10 psi or greater)
  - Straight brick walls no higher than 3/4 of the wall thickness squared (4' for an 8" wall)
  - Use buttresses, pilasters, piers for added support
- Add vertical reinforcing as per Brick Institute handbook

NOTATION CHECKLIST, SAMPLE NOTES

TOP OF WALL ELEVATION
- WALL CAP (TYPE & SIZE)
- MASONRY UNITS (TYPE & SIZE)
- REINFORCING
- EXPANSION JOINTS (TYPE & SPACING)
- FOOTING
- AGGREGATE BASE
- SUBGRADE
- FOOTING DRAIN

FOOTING [6" x 10' x 30"]
- #10 bars x 2'-6" @ 12" O.C.
- Steel pole from footing to wall at 90° angle 30' vertical & 12'
- Horizontal into footing

FILL CELL, GROUT @ EACH DOWEL (block wall)

WEED HOLES @ 48" O.C.

EXPANSION JOINTS

CONC. BLK. PILASTER

MASONRY YARD WALLS

FULL-SCALE GENERIC DETAILS continued

MASONRY YARD WALLS

YARD WALL 4" Brick

YARD WALL 6" Brick

YARD WALL Double 4" Brick

YARD WALL 10" Brick Cavity Wall

YARD WALL Triple 4" Brick
METAL COPINGS

DETAIL DATA CHECKLIST

METAL COPINGS Materials, sizes and gauges:
- 4” to 12” coping width: 24-ga. galvanized steel, 16-oz. copper, 26-ga. stainless steel, .232 alum.
- 13” to 18” coping width: 22-ga. galvanized steel, 20-oz. copper, 24-ga. stainless steel, .040 alum.
- Provide expansion joints to allow for:
  - 1/2” thermal movement in a 40’ length of galvanized steel
  - 1/2” movement for 40’ copper
  - 3/4” movement for 40’ aluminum
- Apply continuous interlocking cleats at bottom of coping at vertical edge to secure against wind uplift
- Use neoprene or similar watertight washer where cleats are nailed to wall

Trouble spots:
- Corrosion from use of dissimilar metals, especially incompatible connectors
- Direct nailing or attachment of coping to wall surface that doesn’t allow for differential expansion and contraction

NOTATION CHECKLIST, SAMPLE NOTES

FORMED METAL COPING
CLEAT
NAILER
SEALANT/CAULKING
EXTRUDED METAL COPING
ANCHOR BOLT
COVER PLATE
GUTTER BAR
COPING
PREFIN. ALUM. COPING
FLASHING OVER COPING

METAL COPING
Formed (4” Parapet) Formed (6” Parapet) Formed (8” Parapet)

METAL COPING
Formed (10” Parapet) Formed (12” Parapet) Extruded (8” Parapet)

METAL COPING
Extruded (10” Parapet) Extruded (12” Parapet) Extruded (8” Parapet)

METAL COPING
Extruded (10” Parapet) Extruded (12” Parapet)
DETAIL DATA CHECKLIST

METAL COPINGS

Materials, sizes and gauges:
- 4” to 12” coping width: 24-ga. galvanized steel, 16-oz. copper, 26-ga. stainless steel, .232 alum.
- 13” to 18” coping width: 22-ga. galvanized steel, 20-oz. copper, 24-ga. stainless steel, .040 alum.

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NOTATION CHECKLIST,
SAMPLE NOTES

FORMED METAL COPING
CLEAT
NAILER
SEALANT/CAULKING
EXTRUDED METAL COPING
ANCHOR BOLT
COVER PLATE
GUTTER BAR
PREFIN ALUM. COPING
FLASHING OVER COPING

METAL COPINGS

CLEAN COUPING, ATTACH @ CTR. OF EA. PIECE
MTL. COPING, SET W/MASTIC SEALANT @ SPICE
JT’S, ONLY
MANUFACTURED COPING & FLASHING SYSTEM
ELASTOMERIC FLASHING
BASE FLASHING OVER PLATE
FLASHING APPLIED W/ADHESIVE
LEAD OR ALUMINIUM FLASHING
CONT. CLEAT
SEALANT
SHIM (to slope)
METAL DECKS

DETAIL DATA CHECKLIST

- Typically used in steel framed buildings atop open web steel joists
- Painted or galvanized to prevent corrosion
- Welded wire steel mesh for temperature reinforcement if using lightweight insulating concrete

Component sizes:
- "Centering" metal, 22, 24, 26 gauge with 2-1/2" to 4" wide corrugation, 1" deep, spans 2' to 10'
- Narrow rib deck: 6' rib centers, 1-1/2" deep, 30" wide panels, spans 4' - 6'
- Intermediate rib deck: 6' rib centers, 1-1/2" deep, 30" wide panels, spans 5' - 10'
- Wide rib deck: 6' rib centers, 3" deep, 24" wide panels, spans 10' - 16'
- Lengths to 48'
- Attach metal decking to framing every 36" minimum

NOTATION CHECKLIST,
SAMPLE NOTES

ROOFING SURFACE
- TYPE, LAYERS & COVER MATERIAL
- ROOF SLAB
- METAL DECK
- ROOF DECK INSULATION
- ROOF CONSTRUCTION/FRAMING
- CONCRETE
- LIGHTWEIGHT CONCRETE
- GALV. CORRUGATED METAL DECKING
- CORR. METAL PLATE STIFFENER
- FILLER
- CLOSURE STRIP
- BOLT W/NEOPRENE WASHER
- SHEET METAL FLASHING, W/STAINLESS STEEL SHIELDS OR 1/2" O.C. NYLON SHIELDS, PROVIDE
- NEOPRENE WASHERS
- METAL ANGLE
- EXP. BOLTS @ 24" O.C.
Wall-mounted fixtures and equipment are often packaged with the required anchors and fastenings so, in general, details only show generic dash- or dot-line indications of screw or bolt attachments. Adequate backing, framing, blocking, or other mount supports are the most crucial aspect of detailing and constructing wall-hung fixtures, and the most common point of failure. The best rule is to over-design the attachment system as long as it isn’t oversized for the item to be attached or for the support framing and backing systems.

Component sizes:
- Lag bolts, machine bolts, and carriage bolts come in 1/4", 3/8", 1/2", 5/8", 7/8" and 1" diameters
- Screws and bolts are commonly sized in 1/8" increments from 1/4" diameter to 1-1/4"
- Lengths of bolts range from 1" to 12"
- Lengths of wood screws range from 1/4" to 6"
- Toggle bolts and Molly bolts are for connections through the surfaces of hollow walls
  - (a spring or tumbler activated expansion device opens when the bolt is turned to grip the fastener to the wall)
- Lag bolts and expansion shields are for insertion in masonry walls
  - (a lead or fiber casing in a pre-drilled hole will expand to grip the masonry wall when a lag bolt or machine bolt is
Metal fences are usually purchased ready-made, or fabricated as variations on common metal fence types and styles. Detail drawings are included mainly to show desired sizes and types and to indicate anchoring to the ground or pavement. See manufacturers' and suppliers' catalogs for design data, details, and specifications. See manufacturers' recommendations for anchoring.

**NOTATION CHECKLIST, SAMPLE NOTES**

- Intermediate Rails
- Newals
- Post
- Post Cap
- Pipe Sleeve/Anchor
- Footing
- Backfill
- Subgrade

12" Dia. Conc. Footing
Compacted Fill (below footing)
Compacted Earth Fill
Metal Posts (extend 6” thru conc. footing, max. spacing typ. 8-7)
DETAIL DATA CHECKLIST
METAL FRAME CHASE WALLS

NOTATION CHECKLIST, SAMPLE NOTES

CHANNEL FLOOR RUNNER
BASE (FINISH BASE SIZE/MATERIAL)
FINISH FLOOR/SUBFLOOR/SLAB
ADJACENT SLAB OR CEILING
CEILING RUNNER
CHANNEL STUDS
CROSS TIES/WIRE TIES
GYPSUM WALLBOARD
LATH & PLASTER
SPECIAL FINISHES/WATERPROOFING
HOOKS/TRACKS/WALL-MOUNTED
FIXTURES
WALL ANCHORS/MOUNTING BRACKETS
RAILINGS/WALL GUARDS
THRU-WALL SLEEVES
GYPSUM BOARD
FIRE CODE GYP BD.
WATER-RESISTANT GYPSUM BOARD
GYP BD, TYPE 'X'

CORNER BEAD
CONTROL JOINT
TYPE 'X' CORE BOARD
SOUND ATTENUATION BLANKET
RIGID INSULATION
PLYWOOD
CEMENT TILE
MTL. WALL ANGLE @ CEILING
MTL. RUNNER
MTL. STUDS @ O.C.
STAGGER STUDS
BRACING TO STRUCTURE
STUD TO CEILING @ O.C.
CHASE WALL
FLOOR TRACK
SEALANT EACH SIDE
RESILIENT BASE
CONV. SPONGE RUPPER GASKET (@ clg.)
SUSPENDED CEILING
FASTEN MTL. STUDS TO CLG. 'T'

5" CHASE WALL Plan
CHASE WALL @ THRU SUSP. CLG.
CHASE WALL @ CLG. OR SLAB
CHASE WALL @ FLOOR
CHASE WALL @ BRACING Sect.
METAL FURRING -- WALLS & CEILINGS

NOTATION CHECKLIST, SAMPLE NOTES

- HANGER WIRE
- 1-1/2" CARRYING CHANNEL
- 3/4" FURRING CHANNEL
- ADJACENT WALL CONSTRUCTION
- CHANNEL STUDS
- FURRING STUDS/BRAKET/TIE
- GYPSUM WALLBOARD
- LATH & PLASTER
- SPECIAL FINISHES/WATERPROOFING
- HOOKS/TRACKS/WALL-MOUNTED FIXTURES
- WALL ANCHORS/MOUNTING BRACKETS
- BASE (FINISH BASE SIZE/MATERIAL)
- CHANNEL FLOOR RUNNER/ANCHORS
- FINISH FLOOR/SUBFLOOR/SLAB
- WATER-RESISTANT GYP BD.
- GYPSUM BOARD, TYPE X
- CORNER BEAD

- CONTROL JOINT
- SOUND ATTENUATION BLANKET
- RIGID INSULATION
- FLEXWOOD
- METAL WALL ANGLE @ CLG.
- FURRING CHANNEL
- METAL RUNNER
- SLP. MT. FURRING CHANNEL
- METAL STUDS @ 24" O.C.
- METAL STUDS @ 16" O.C.
- STAGGER STUDS
- BRACING TO STRUCTURE
- STUD TO CLG. @ 48" O.C.
- CHASE WALL
- FLOOR TRACK
- SEALANT, EACH SIDE
- RESIDETN BASE
- CONT. SPONGE RUBBER GASKET, 1/2" X 3" (@ clg.)
- SUSPENDED CEILING
- FASTEN METAL STUDS TO CLG. 'T'

FURRED WALL @ CEILING
FURRED WALL @ FLOOR
FURRED WALL @ FURRED CEILING
FURRED WALL @ FLOOR
FURRED CEILING
FURRED CEILING @ EXPANSION JOINT
FURRED WALL @ FURRED CEILING
FURRED WALL @ EXPANSION JOINT
METAL HANDRAILS

DETAIL DATA CHECKLIST

HANDRAILS, BRACKETS, AND ANCHORS
Wall connection systems include:
- Horizontal steel stud fastened to vertical metal wall studs; anchor handrail through wall with expansion bolts
- Steel plate welded to wall studs
- Metal spacer set in plaster wall with space for expansion bolt insert
- Expansion bolts in concrete or masonry walls threaded end connection for handrail support
- Cast in place brackets, such as for newels and handrail posts supported at the edge of landings and floor slabs

Wall-mounted handrails must be at least 1-1/2” from the wall and not intrude on the legally required stair width

All railings must be able to sustain a load of 200 pounds applied in any way at any point

Ends of handrails must be turned into newel posts, floors, to walls

See manufacturers' catalogs and building code requirements for additional detailing instructions, references, and sample notation

METAL HANDRAILS

NOTATION CHECKLIST, SAMPLE NOTES

HANDRAIL (MATERIAL & SIZE)
HANDRAIL SUPPORT:
AND/OR TO WALL (TYPE & SIZE)
WALL CONSTRUCTION (FRAMING)
PIPE MIN. WELD & GRIND JOINTS SMOOTH, PAINTED
STEEL PIPE SLEEVE
WELD TO PLATE, GROUT IN PLACE
WALL BRACKET
METAL SPACER
METAL BACKING
EXPANSION BOLTS
METAL LOUVERS

See manufacturers' catalogs for standard sizes, finishes, and materials.

Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete wall construction.

See manufacturers' and suppliers' catalogs for detail design data and specifications.

See manufacturer's recommendations for special anchor requirements for different kinds of construction.

DETAIL DATA CHECKLIST

METAL LOUVERS

NOTATION CHECKLIST

SEALANT CHANNEL FRAME ANCHOR INSECT SCREEN BIRD SCREEN WEEP HOLES

Metal Louvers -- 2" Wide

Z Louver Inverted V Bar Grille Sight Proof

Metal Louvers -- 4" Wide

Z Louver Inverted V Bar Grille Sight Proof
METAL STAIRS

METAL STAIRS METAL STAIRS

DETAIL DATA CHECKLIST

STEEL STAIRS
Steel stairs are required for incombustible fire exits, often fabricated to order in specialty shops and shipped to the site for installation. See your building code for design requirements.

Component sizes:
- Typical stringer is C12 (12” channel) or C10, 15.3 steel
- Steel channel at edge of reinforced concrete landings to match stringer size
- 1/4” thick steel plate angle connectors
- 5/8” diameter bolt connections to structure or welded to steel framing
- Two 1/2” or 5/8” anchor bolts through plate at base of each stringer for floor connection

Treads:
- Pan type with cement and non-slip surface
- Provide landings at every 15 risers maximum
- Non-slip steel — ribbed, perforated, checkered, or grate — with open riser
- Precast concrete on brackets atop stringer or on angles welded to channel stringer

Design rules of thumb:
- An overall stair angle of 30 to 35 degrees is most comfortable to use
- Treads and risers must not vary in size over 1/8” at any point in the run
- Optimum riser size is 7 to 7-1/2” with optimal tread of 9-1/2” to 10-1/2”
- Provide dirt-blocking angle "sanitary cove" at bottom edges of closed risers

NOTATION CHECKLIST, SAMPLE NOTES

CONCRETE TREAD/REINFORCING
STEEL PAN
STEEL CARRIER ANGLE
OPEN GRATE TREAD
STEEL CHANNEL STRINGER
ANCHORS/TREAD SUPPORT
FIN. FLOOR ELEV.
REINFORCING
MESH REINFORCING
POURED IN PLACE TREADS
STEEL PAN TREAD
STEEL STAIR TREAD
SAFETY ABRASIVE NOSING
STEEL GRATING WITH BEARING BARS & CROSS BARS
CHANNEL STRINGER
1/4” BOLTS
EXPANSION BOLTS
STEEL PLATE
BOLT @ EA. END & 2’ O.C. RISER WORK POINT
PLUG WELDS
STEEL ANGLE
COUNTERSUNK BOLT
CONT. 3” X 3” X 1/4” ANCHOR TO WALL WALL 9-1/2”, ANCHOR BOLTS WELD TO PLATE @ WALL
PLATFORM SUPPORT TEE
CHANNEL HEADER BY STAIR MFR.
CARRIER ANGLE
REINFORCING PLATE FABRICATION
TO MET. OUT MORTAR BED & REINF. TO JUNCTURE OF TREAD & RISER
CHANNEL, SEE STRUCTURAL DWGS.

METAL STAIR Pan Type, Cement Treads

METAL STAIR Pan Type, Cement Treads

METAL STAIR Open Riser, Steel Tread

METAL STAIR Open Riser, Grate Type
Note: You can combine these threshold details with varied flooring details in this book to create many special combinations.

Thresholds are primarily to hide the joint-line at changes in flooring and block weather, air infiltration and sound. Detail drawings are mainly to show:
- The profile of thresholds
- Floor construction
- Change in floor materials at joint lines
- Connection to the floor
- Exterior caulking, flashing, weatherstripping
- Required special sound or light insulation

See manufacturers’ recommendations for connections to varied floor construction.

NOTATION CHECKLIST, SAMPLE NOTES

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<th>BUMPER STRIP</th>
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METAL TOILET PARTITIONS

DETAIL DATA CHECKLIST

METAL TOILET PARTITIONS
- See manufacturers’ catalogs for standard sizes, finishes, and materials.
- Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete wall construction.
- See manufacturers’ and suppliers’ catalogs for detail design data and specifications.
- See manufacturer’s recommendations for special anchor requirements for different kinds of construction.

NOTATION CHECKLIST,
SAMPLE NOTES

STEEL CHANNEL CONT. @ PARTITIONS, DRILL BOTTOM FOR SUPPORT BOLTS BY PARTITION MFR.
CEILING LINE
PROVIDE DRILLED HOLE, SLEEVE & INSERT @ CLG. TO SUPPORT BOLT PENETRATION AS REQ'D.
TOILET PARTITION & CLG.-MOUNTED ASSEMBLY
BY PARTITION MFR.
TOILET PARTITION BOLT ASSEMBLY
BRACE TO STRUCTURE ABOVE
CEILING-HUNG UNITS

BRACKET
FASTENERS
STALL PARTITION
PILASTER
TRIM
ANCHOR
DOOR HINGE/LATCH
FLOOR CONSTRUCTION
CEILING CONSTRUCTION

METAL TOILET PARTITION METAL TOILET PARTITION
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@Wall METAL TOILET PARTITION @Pilaster
@Door METAL TOILET PARTITION @Floor
@Plaster METAL TOILET PARTITION @Ceiling
@Wall & Post METAL TOILET PARTITION

Samples from www.AutoCADDetails.net
OVERHEAD CABINETS

NOTATION CHECKLIST,
SAMPLE NOTES

FINISH SURFACE
PLYMATE HDWD BOARD
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLASTIC LAMINATE
3/4" PLYWD. TOP W/ HDWD. EDGING
PLASTIC LAM. ROUGHING STRIP.
PLASTIC LAM. SCRIBE STRIP.
SHLVES W/ 1/2" X 3/4" HDWD. NOSE.
FACE OF WALL
SPLASH
PLASTIC LAM. SCRIBE STRIP.
3/4" PLYWD DIVIDERS
1/4" PLYWD BACK
RECESS 1/4" HARDBOARD OR PLYWD. BACK
2 X 4 FRAMING
3/4" PLYWD. BOTTOM W/ WOOD EDGING
CHAMFERED TRIM PIECE
FLUSH DOORS, OAK VENEER ON PLYWD.

3/4" X 1-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD'S. W/ BRACKETS
FIXED SHELF
3/4" PLYWD. SHELF W/ 1X2 SUPPORT CLEAT & 1 X 3 EDGE STRIP
1 X 12 SHELF W/ SHELVING BACKING
3/4" PLYWD. SHELVES W/ HDWD. EDGING
1 X 2 WOOD PORTION W/ WALL, ANCHOR W/ 1/4" DIA. TOGGLE BOLTS @ 24" O.C.
STEEL CHANNEL ATTACHED TO END WALL W/ STUDS @ 1-7/8" O.C. @ LAV. PERIMETER
DRAWER
BOLTED WOOD DRAWER SIDES, HDWD. DRAWER FRONTS
DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RAIL & STILES
SLIDING GLASS DOORS IN K/V TRACK
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS

---

Bottom Back  Bottom Back  Bottom Back

Bottom Front  Bottom Front

Bottom Front  Bottom Front  Bottom Front

Samples from www.AutoCADDetails.net
NOTATION CHECKLIST, SAMPLE NOTES

FINISH SURFACE
PLYWOOD, PARTICLE BOARD

TRIM (MATERIAL & SIZE)

BLOCKING (MATERIAL & SIZE)

ADJACENT MATERIALS

HARDWARE/ANCHOR

DOOR/DRIVER

PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS

PLASTIC LAMINATE

3/4" PLYWOOD TOP, HARDWOOD EDGING

PLASTIC LAM, SCRIBE STRIP

3/4" PLYWOOD TOP, SIDES, DIVIDERS & SHELVES W/ 1/2" X 3/4" HARDWOOD NOSE

FACE OF WALL

SPLASH

PLASTIC LAM, SCRIBE STRIP

3/4" PLYWOOD DIVIDERS

1/4" PLYWOOD BACK

RECESS W/ HARDBOARD OR PLYWOOD BACK

2X4 FRAMING

3/4" PLYWOOD BOTTOM WWOOD EDGING

CHAMFERED TRIM PIECE

FLUSH DOORS, OAK VENEER ON PLYWOOD

3 1/2" X 1/2" HARDWOOD EDGE, EASE EDGES

2X4 FRAME @ FLOOR

ADJUSTABLE SHELVES

RECESSED SHELF STANDARDS

SURFACE MOUNTED ADJ. SHELF STD'S. W/ BRACKETS

FIXED SHELF

3/4" PLYWOOD, SHELF 1X12 SUPPORT CLEAT & 1 X 3 EDGE STRIP

1 X 2 SHELF DELA BACKING

1 X 12 DIVIDER @ 24" O.C. MAX

3/4" PLYWOOD SHELVES, HARDWOOD EDGING

1/2" X 2" SUPPORT BRACKET ANCHOR W/ 1/2" X 4" TOGGLE BOLTS @ 24" O.C.

STEEL CHANNEL, ATTACHED TO END WALL

W/ STUDS @ 12" O.C. @ LAV, PERIMETER

DRAWER

SOLID WOOD DRAWER SIDES, HARDWOOD DRAWER FRONTS

DRAWERS ON EXTENSION SLIDES

1/2" DRAWER BOTTOM

1/4" X 1X12 T & S EDGE

SLIDING GLASS DOORS W/ GLK TRACK

PROVIDE FINGER PULLS & LOCK, SAFETY GLASS
**DETAIL DATA CHECKLIST**

**PARKING BUMPERS**

- Precast concrete
- 3/4" chamfer is typical
- Available in 4' to 5' lengths
- Anchor with 3/4" round, 24" long pipe anchor, 2 per bumper

OR

- Use 2 #5 bars, 18" long
- Water drains may also be provided in longer bumpers
- (3-1/2" x 1-1/2" holes at bottom of bumper)

- Dowelled Curb
- Form on paving surface
- Reinforce with #4 bars vertically @ 4' o.c.

- Extruded Curb
- Epoxy to paved surface

- Asphalt:
  - Typical size is 8"x8"

**NOTATION CHECKLIST, SAMPLE NOTES**

**BUMPER CURB (TYPE & MATERIAL)**
- Dowel/Anchor
- Mastic
- Paving/Base/Subgrade

(A typ. width of wheels 6' to 7',
- typ. ht. 6" to 7-1/2", typ. depth 8" to 10"
- w/ angled or chamfered sides)

(tp. rebar location 1/2" to 18" from each end)

3/4" chamfer

Precast conc. wheelstop w/ #5 Dia. diagonal rebar reinf. secure w:
- 2 - 5/8" x 1'-0" rebar dowels
- 2 - 3/4" holes thru curb
- w/ 2 - #5 bars 18" long

3000 psi conc. w/ 3 - #3 bars

Painted stripes

Parking stall
- 2 - 1/2" (ht) x 3-1/2" water drains
- 20" from each end

Asphalt curb cont.
- Precast bumper w. anchor, 5/8" x 16" STL
- Pin @ each end

(for wood)

1/2" carriage bolts
- 3 x 10" bevel top edge (rail)
- 6" X 6" H 20.0 (posts, ht./flg. varies,
- for example -21" ht. above fin. grade,
- in 24" conc. fill in form below grade)

Painting note: Bumper guard - white,
- Posts - Black
- Nameplates - Black on white,
- Upper case letters 1-1/2" high
PASSENGER ELEVATORS

JAMB Side Opening Elevator

JAMB Single Speed Center Opening Elevator

JAMB Two Speed Side Opening Elevator

JAMB Two Speed Center Opening Elevator

NOTATION CHECKLIST:
FINISHED SILL PROJECTION
PLATFORM
RUNNING CLEARANCE
STRUCTURAL SILL
FASCIA
FINISHED HEADER/JAMB/THRESHOLD
PASSenger ELEVATORS

HEAD & SILL
Single Speed Center & Side Opening

HEAD & SILL
Two Speed Center & Side Opening

NOTATION CHECKLIST

FINISHED SILL PROJECTION
PLATFORM
RUNNING CLEARANCE
STRUCTURAL SILL
FASCIA
FINISHED HEADER/JAMB/THRESHOLD
PAVING & PAVERS

BRICK PAVING
- Sizes:
  - 4x4, 4x8, 4x12, 6x8, 8x8, 12x12
  - Hexagons: 5-3/4, 8, and 12 inches
- Depth: 1-1/8" to 2-1/4"
- Waterproof by placing brick over:
  - 15 lb. roofing felt, over 1/2" to 1" stone screenings, over 4" gravel
  - Over 2 neoprene tack coat over 3/4" bituminous setting bed, over cutback asphalt primer, over a concrete slab
- May be laid with:
  - Mortar joints
  - Require careful tooling to block moisture
  - Sand poured into the joints
  - Nothing in the joints
- Lay over:
  - 3" or thicker concrete slab
  - Over 3/4" mortar setting bed
  - 4" asphaltic concrete
  - Over 3/4" bituminous setting bed
  - 2" to 4" sand base
  - Over 15 lb. felt
  - Over firm soil
  - Brush dry sand into joints
  - Tamp and level sand
- Add mix of cement with sand for tighter joints
- Provide solid border board support or joints will open and pavers will dislodge

PAVING EDGE
- On Concrete

BRICK PAVING Thin
- Pavers on Concrete

BRICK PAVING
- On Sand

BRICK PAVING
- On Aggregate

BRICK PAVING
- On Asphalt

NOTATION CHECKLIST,
SAMPLE NOTES

PAVER UNITS
SETTING BED
CONCRETE
REINFORCING
SLOPE
CONTROL EXPANSION JOINTS (TYPE & SPACING)
AGGREGATE BASE
COMPACTED SUBGRADE

ORIGINAL GRADE
FINISH GRADE

PROVIDE CROWN IN CENTER FOR DRAINAGE
SLOPE 1/4 PER FOOT TYP.

CONCRETE W. 6 X 6 X 10 GAUGE WIRE MESH
CONC. SLAB W. 6 X 6 X #10/#10
CONC. WALK W. 6 X 6 10/10 W.W.M.
BEDWOOD HEARTWOOD JOINT FILLER STRIP
TOULED JOINTS @ 6'-0" O.C.
1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD
JOINT FILLER BOARD
10Dia (3/4" to 1" typ.) X 18" DOWEL BARS
12" O.C. ACROSS SLAB
15" MAX. B. PAINT & OIL ONE END OF DOWEL

EXPANSION JOINT FILLER MATERIAL @ 16" O.C. MAX.
GALV. METAL KEYWAY W/ EDGE EXPOSED
GALV. METAL STAKE EN
DUMMY JOINTS @ 3'-6" O.C.
PRE-MOLDED EXPANSION JOINT @ 20'-0" O.C. TYP.
PAVING BRICKS IN SETTING BED
SLOPE TO DRAIN AS INDICATED ON PLANS
BRICK ROW LOCK PAVER
SLAB REINF. SEE

VAPOR BARRIER
COMPACTED GRANULAR FILL
4" PEA GRAVEL
SAND CUSHION
COMPACTED EARTH FILL AS REQ.

COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
6" CRUSHED AGGREGATE BASE (6" conc. paving)
6" CRUSHED AGGREGATE BASE (2" asphalt paving)
IRON ORE BASE

www.AutoCADDetails.net
CONCRETE PAVING

- Recommended thicknesses for concrete slabs are:
  - 4" for walks, patios, and drives
  - 5" to 6" for roads, public sidewalks, and areas with heavy vehicular traffic
  - Pour slab over a gravel base 4" to 8" thick, depending on thickness of concrete and nature of soil
  - Slope surface of slab 2" or 1/4" per lin. foot minimum
  - Surface treatments:
    - To reduce slipperiness:
      - Broom finish
      - Spread abrasive grains on wet concrete
      - To achieve exposed aggregate surface:
        - Sandblast
        - Finish top slab with light water spray before curing and brushing
    - Reinforce slab with 4x4x4/4 or 6x6x10/10 woven wire mesh (WWM)
    - Provide 2" cover over the reinforcing
  - Expansion Joints:
    - Placement varies with climate
      - Average 30' o.c. in walks
      - 15' to 20' squares in larger areas of concrete
    - Dowelling:
      - 1/2" to 1" diameter dowel in sleeve, coated with graphite; 12" to 24" long,
      - 12" to 36" o.c.
      - Gap in slab filled with premolded or poured joint filler
    - Control Joints:
      - Can be tooled or saw cut
      - 1/8" thick nonferrous strip, or poured joint filler, or no filling
      - Joint must be 1/4 of the depth of the slab to be effective
      - Edges of slab at joint should have 1/8" radius
      - Joints may be dowelled (as above), without sleeve

ASPHALT CONCRETE PAVERS

Sizes for concrete:
- 4x8, 8x8, 6x12, 12x18, 18x18, 24x24 square; 24x30, 24x36, and 24" hexagon
- Depth: 2" to 4"

OR
- Lay pavers over 2" of sand, over 2" to 5" of gravel
- Lay interlocking concrete pavers with sand-filled joints over 1-1/2" of sand, over 2 courses of gravel (8"
- Asphalt sizes: 5x12, 6x12, 8x8, and 8" hexagon
- Depth: 1-1/4" to 3"
- Provide solid border edge support, or joints will open and pavers will dislodge

NOTATION CHECKLIST

SAMPLE NOTES
STONE PAVING
__Granite paver sizes:
__4x4, 4x8, 5x8, 6x8, 12x12
__Depths: 2", 3", 4", and 10"
__Install granite on rigid base and mortar for stability and/or if there will be heavy traffic
__Install on flexible base for light traffic
__Slate sizes:
__4" min. widths x random lengths
__Depths: 3/4" to 2-1/2"
__Install slate on flexible base with no mortar; keep well drained
__Stone thickness in general:
__1-1/2" thick if laid on mortar setting bed
__1-1/2" minimum thickness if laid on sand
__Provide solid border edge support, or joints will open and pavers will dislodge

Slate sizes:
-__4" min. widths x random lengths
-__Depths: 3/4" to 2-1/2"
-__Install slate on flexible base with no mortar; keep well drained
-__Stone thickness in general:
-__1-1/2" thick if laid on mortar setting bed
-__1-1/2" minimum thickness if laid on sand
-__Provide solid border edge support, or joints will open and pavers will dislodge

DETAIL DATA CHECKLIST

STONE PAVING
-__Granite paver sizes:
  - 4x4, 4x8, 5x8, 6x8, 12x12
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  - 1-1/2" thick if laid on mortar setting bed
  - 1-1/2" minimum thickness if laid on sand
-__Provide solid border edge support, or joints will open and pavers will dislodge

STON PAVING
On Concrete

NOTATION CHECKLIST,
SAMPLE NOTES

PAVER UNITS
SETTING BED
CONCRETE
REINFORCING
SLOPE
CONTROL/EXPANSION JOINTS (TYPE & SPACING)
AGGREGATE BASE
COMPACTED SUBGRADE

ORIGNAL GRADE
FINISH GRADE

PROVIDE CROWN IN CENTER FOR DRAINAGE
SLOPE 1% PER FOOT, TYP.

CONCRETE W. 6 X 6 - 10 GAUGE WIRE MESH
CONC. SLAB W. 6 X 6 X 3/4/10
CONC. WALK W/ 6 X 8 10/10 W.W.M.
SEDIMENTARY MATERIAL JOINT FILLER STRIP
1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD

JOINT FILLER BOARD
1 DIA (3/4" D 1'-8") X 18" DOWEL BARS
1/2" O.C. ACROSS SLAB
1/2" O.C. PERPENDICULAR TO DOWEL

EXPANSION JOINT FILLER MATERIAL @ 16" O.C. MAX.
GALV. METAL KEYWAY W/ EDGE EXPOSED
GALV. METAL STAKE PIN
PRE-MOLDED EXPANSION JOINT @ 20'-0" O.C. TYP.

STONE PAVERS
PAVING BRICKS IN SETTING BED
SLOPE TO DRAIN AS INDICATED ON PLANS

CONCRETE BLOCK
GRID PAVERS

CONCRETE BLOCK
GRID PAVERS

STONE STEPS  On Concrete
PAVING & PAVERS

DETAIL DATA CHECKLIST

WOOD BLOCK OR TIMBER SECTIONS PAVERS

Preservative treated
- 2" minimum depth crosscut, 3" minimum rip cut
- Timber sections 4" to 6" thick are common
- Lay in 4" sand bed

WOOD BLOCK
PAVING On Concrete

WOOD PLANK
WALKWAY

NOTATION CHECKLIST,
SAMPLE NOTES

PAVER UNITS
SETTING BED
CONCRETE
REINFORCING
SLOPE
CONTROL EXPANSION JOINTS (TYPE & SPACING)
AGGREGATE BASE
COMPACTED SUBGRADE

ORIGINAL GRADE
FINISH GRADE
PROVING CROWN IN CENTER FOR DRAINAGE
SLOPE 1/4 PER FOOT TYP.
CONCRETE W. 6 X 6 - 10 GAUGE WIRE MESH
CONC. SLAB W. 6 X 6 X 10/#10
CONC. WALK W. 6 X 6 10/10 W.W.M.
BEDDING BASE W. JOINT FILLER STRIP
TOOLED JOINTS @ 6'-0" O.C.
1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD
JOINT FILLER BOARD

1/2" DIA (3/4" to 1" typ.) X 18" DOWEL BARS
12" O.C. ACROSS SLAB
20'-0" BILLET ONE END OF DOWEL
EXPANSION JOINT FILLER MATERIAL @ 18" O.C. MAX.
GALV. METAL KEYWAY W/ EDGE EXPOSED
PRE-MOLDED EXPANSION JOINT @ 12'-0" O.C. TYP.
PAVING BRICKS IN SETTING BED
SLOPE TO DRAIN AS INDICATED ON PLANS
SLAB REIN.- SEE
VAPOR BARRIER
COMPACTED GRANULAR FILL
4" PEA GRAVEL
COMPACTED EARTH FILL AS REQ.
SAND CUSHION
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
6" CRUSHED AGGREGATE BASE (@ 2" asphalt paving)

ASPHALTIC
CONCRETE PAVING

ASPHALT PAVING
Pitch pockets are enclosed caulk-filled holes or pans around a pipe, conduit, or structural support that penetrates a roof. Ideally, pipes, conduit, or structural supports should not penetrate a roof surface. Such penetrations require extra maintenance and are likely to be a source of leaks. In general, the best rule is to avoid roof-mounted equipment as much as possible.

If such work has to be done, the connections should be in the form of well-caulked and sealed pockets. Hot- or cold-applied bitumin with fiber filler is poured or packed around the penetration, sometimes in a galvanized steel pitch pan. Then it's covered with flashing and a cap or counterflashing and integrated with the roofing seal. Coordinate the detailing for such work with the structural engineers and make sure it's reviewed during the roofing preconstruction meeting. This work should be part of the roofing contract and included in the roofing warranty.
RETAINING WALLS

DETAIL DATA CHECKLIST

RETAINING WALLS
- Ground slope of 45 degrees or greater requires cribbing or retaining walls
- Walls to 3' high--simple concrete, wood, or planter walls OK
- Walls over 3'--L, T retaining walls or gravity wall
- Waterproof the earth fill side of wall
- Backfill with gravel, with drainpipe above the footing
- Pipe should drain to storm sewer (may be connected to building footing drains)
- Place filter cloth between gravel and soil backfill
- Use Type S mortar for resistance to horizontal forces

BRICK AND BLOCK MASONRY RETAINING WALLS (For walls with minimum horizontal loads only)
- Use SW grade brick for weather resistance
- Top of footing below the frost line
- Provide cap or coping
- Joints--tooled S or V mortar joints for maximum weatherproofing
- Expansion joints--vertical joints at 50' minimum
- Horizontal and vertical reinforcing as per Brick Institute handbook

DRY STONE RETAINING WALLS
- Tilt stones into the hill
- Batter the wall 2" high
- Base typically 16" wide
- Backfill with gravel, with drainpipe along base of wall at bottom of gravel

NOTATION CHECKLIST,
SAMPLE NOTES

TOP OF WALL ELEVATION
FINISH GRADES
ORIGINAL GRADE (DASHED)
EXPANSION JOINTS (TYPE & SPACING)
MASONRY UNIT (TYPE & SIZE)
REINFORCING
WEEP HOLES (SIZE & SPACING)
AGGREGATE DRAIN BED
DRAIN PIPE/DRAIN TILE
COMPACTED SUBGRADE/STRUCTURAL BACKFILL
FOOTING
DAMP PROOFING
POROUS BACKFILL
AGGREGATE BASE

Samples from www.AutoCADDetails.net
DETAIL DATA CHECKLIST

CONCRETE RETAINING WALLS
- Ground slope of 45 degrees or greater requires cribbing or retaining walls
- Walls to 3' high—simple concrete, wood, or planter walls OK
- Walls over 3'—L, T retaining walls or gravity wall
- Place bottom of footing at frost line
- Provide 3" minimum cover for rebar
- Provide 3" diameter weep holes at 4' o.c. (maximum 10' apart)
- Anchor wall segments to each other at movement joints with:
  - Install 1/2" vertical expansion joints every 50'
  - Install contraction joints every 25' (1" wide tapered to 1/2" depth)
- Seal expansion and contraction joints with waterstops
  - Tapered 2x4 formed vertical key in first pour
  - 1/2" horizontal steel rods, 12" long min. @ 12" spacings with movement sleeves on one side
- Waterproof the earth fill side of wall
- Backfill with gravel, with drainpipe above the footing
- Pipe should drain to storm sewer (may be connected to building footing drains)
- Place filter cloth between gravel and soil backfill

NOTATION CHECKLIST,
SAMPLE NOTES
- TOP OF WALL ELEVATION
- ORIGINAL GRADE (DASHED)
- EXPANSION JOINTS (TYPE & SPACING)
- MASONRY UNIT (TYPE & SIZE)
- REINFORCING
  - REINforcing (TYPE & SPACING)
- AGGREGATE DRAIN BED
- DRAIN PIPE/DRAIN TILE
- COMPACTED SUBGRADE/STRUCTURAL BACKFILL
- FOOTING
- DAMPPROOFING
- POROUS BACKFILL
- AGGREGATE BASE
ROOF CURBS

CURBS are to prevent water entry to roof expansion joints, skylights, roof hatches, etc.

Curb materials:
- Wood sleepers nailed or bolted to roof substrate
- Concrete sections
- Prefabricated metal

Installation:
- Curbs are placed prior to finish roofing
- Finish roofing is installed up and usually over the top of the curb
- Curb top is covered with a metal cap, coping, or similar flashing

Work must be coordinated with roofing, may be part of the roofing contract and, if possible, included in the roofing warranty. It must be reviewed as part of the roofing preconstruction meeting.

PREFAB ROOF CURB

CONCRETE ROOF CURB

WOOD SLEEPER ROOF CURB

W/Insulation

DETAIL DATA CHECKLIST

ROOF CURBS
- Curbs are to prevent water entry to roof expansion joints, skylights, roof hatches, etc.
- Curb materials:
  - Wood sleepers nailed or bolted to roof substrate
  - Concrete sections
  - Prefabricated metal
- Installation:
  - Curbs are placed prior to finish roofing
  - Finish roofing is installed up and usually over the top of the curb
  - Curb top is covered with a metal cap, coping, or similar flashing

Work must be coordinated with roofing, may be part of the roofing contract and, if possible, included in the roofing warranty. It must be reviewed as part of the roofing preconstruction meeting.

NOTATION CHECKLIST,

SAMPLE NOTES

CURB (TYPE, MATERIAL & SIZE)
- Prefabricated roof curb w/2 X 2 wood nailer & insul. treated wood nailer

2 X NAILERS
- Thrill-bolt to angle steel angle
- Sealant
- Extend roofing felts to top of curb
- 26 ga. flashing elastomeric flashing
- Cap flashing
- Roofing membrane & flashing cant

2 X NAILERS
- Thrill-bolt to angle steel angle
- Sealant
- Extend roofing felts to top of curb
- 26 ga. flashing elastomeric flashing cap flashing roofing membrane & flashing cant

2 X NAILERS
- Thrill-bolt to angle steel angle
- Sealant
- Extend roofing felts to top of curb
- 26 ga. flashing elastomeric flashing cap flashing roofing membrane & flashing cant
Recommend 1/2” slope per linear foot as minimum slope for built-up roof construction. Roof drains at columns, midspan of long-span roof trusses, and perimeter of roof may end up at high points due to framing deflection, wood frame shrinkage, concrete frame shrinkage or creep, or building settlement. Include more and larger roof drains to help compensate for these common circumstances.

Drains will be selected and sized by your plumbing consultant and may be installed as part of the plumbing contract or the roofing contract. In any case the work has to be coordinated with roofing and be reviewed during the roofing preconstruction meeting.

Drain types:
- High strainer, narrow and wide, to block debris from entering the drains
- Bellows connection, allows differential movement
- Flat drain for flat roof areas or roof paving where there will be foot traffic

NOTATION CHECKLIST,
SAMPLE NOTES

- DRAIN STRAINER
- FLASHING CLAMP/GRAVEL STOP
- FLASHING
- ROOFING SURFACE TYPE, LAYERS & COVER MATERIAL
- ROOFING DECK/INSULATION
- ROOF DRAIN AS SPECIFIED, OPENINGS FOR ROOF DRAINS TO BE PREFORMED
- STRAINER BASKET DRAIN GUARD CLAMPING RING
- WATER CUTOFF MASTIC
- NEOPRENE FLEXIBLE BELLows BODY
- SCREW TYPE CLAMP
- NO-HUB CONNECTION
- BUILT-UP ROOF
- PRECAST CONG. SLAB ON STEEL DECKING

Samples from www.AutoCADDetails.net
NOTATION CHECKLIST, SAMPLE NOTES

EXPANSION JOINT COVER
CANT/NAILER/BLOCKING
ADHESIVE/SEALANT/CAULKING
(1/2" LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
COPING

SAMPLE NOTES:
1. SAMPLE NOTES ON FLASHING, ATTACH @ CTR. OF EA.
2. CHECK MANUFACTURED REGLET & FLASHING SYSTEM
3. FLASHING APPLIED W/ ADHESIVE
4. LEAD OR ALUMINUM FLASHING
5. CONT. CANT
6. BASE FLASHING NAILS @ 8" O.C.
7. WEDGE & SEAL
8. FLASHING JOINT SET IN ROOFING CEMENT
9. METAL CAP FLASHING
10. FLASH, RELENT BEND DOWN AFTER INSTALLING FLUSH, TIGHT AGAINST WALL
11. METAL CAP FLASHING SET IN MORTAR BED
12. BASE FLASHING NAILS @ 8" O.C.
13. COMPOSITION FLASHING
14. BUILT-UP ROOFING
15. BASE SHEET INSULATION
16. METAL CAP FLASHING
17. CONT. CANT
18. CONT. 4" HIGH CANT

Samples from www.AutoCADDetails.net
ROOF EXPANSION JOINTS

DETAIL DATA CHECKLIST

ROOF EXPANSION JOINT COVERS

- Expansion joints consist of:
  - An opening or separation across a building to allow for movement, typically 1/2" to 1" wide
  - A watertight between the separated structures
  - A premolded expansion joint filler
  - A block or curb to keep the joint above the roof surface and block water from entering the joint
  - An expansion joint cover

- Expansion joint cover types:
  - Type A: aluminum, stainless steel, or copper
  - Type B: elastomeric such as neoprene, with metal flanges
  - For intersection of roof slab and parapets or walls
  - Type C: plastic low profile cover

- Not recommended except for minimal joints such as intermediate expansion joints for membrane

NOTATION CHECKLIST, SAMPLE NOTES

- EXPANSION JOINT COVER
- FLASHING/FLEXIBLE FLASHING
- CANT/NAILER/BLOCKING
- ADHESIVE/SEALANT/CAULKING
- ROOFING DECK/INSULATION
- ROOF CONSTRUCTION
- CONT. FIRE RETARD. WOOD BLOCKING
- FIBER GLASS CLOTH EMBEDDED IN & COVERED W/ PLASTIC CEMENT
- FIBER CANT
- Rqwltf. COVER MATERIAL
- TREATED NAILERS
- STEEL ANGLE

Samples from www.AutoCADDetails.net
ROOF FLUSH @ WALL (2 X 4 FRAMING)

NOTATION CHECKLIST, SAMPLE NOTES

INTERIOR:
- CEILING JOISTS
- ATTIC FLOOR
- TOP PLATE
- TYING
- SCREEN VENT
- INSULATION
- SOFFIT
- GUTTER
- CEILING

EXTERIOR continued:
- ROOF PITCH
- BUILT-UP ROOFING
- ROOFING SHINGLE
- ROOF SHEATHING
- ROOF PLANKS
- RIDGE BOARD
- METAL STRAP
- METAL PLATE
- ROOF BEAM
- RAFTER
- BEVELED RAFTER
- NOTCHED RAFTER
- BATTEN TIE
- STRAP @ EACH RAFTER
- CEILING JOISTS
- ATTIC FLOOR
- TOP PLATE
- TYING
- SCREEN VENT
- INSULATION
- SOFFIT
- GUTTER
- CEILING

Samples from www.AutoCADDetails.net
NOTATION CHECKLIST, SAMPLE NOTES

INTERIOR:
- GYPSUM WALLBOARD
- LATH & PLASTER
- WOOD PANELING
- UTILITY:
- THERMAL INSULATION
- WOOD SHEATHING
- MOISTURE BARRIER
- LATH & PLASTER/STUCCO
- WOOD SIDING
- MASONRY VENEER

EXTERIOR:
- THERMAL INSULATION
- GYPSUM WALLBOARD
- SHEATHING
- ROOF PLANKS
- RIDGE BOARD
- METAL STRAP
- METAL PLATE
- ROOF BEAM
- RAFTER
- BEVELED RAFTER
- NOTCHED RAFTER
- RAFTER TIE
- STRAP @ EACH RAFTER
- CEILING JOISTS
- ATTIC FLOOR
- TOP PLATE
- TYING
- SCREEN VENT
- INSULATION
- SOFFIT
- GUTTER
- CEILING

Sample from www.AutoCADDetails.net
ROOF HATCHES

DETAIL DATA CHECKLIST

- See manufacturers' catalogs for choices of sizes, fittings, and special detail conditions
- Check building code fire and smoke control restrictions regarding hatches
- Check whether curb roof supports are built-in to the manufactured units or whether curbs have to be detailed and installed separately
- A framed opening should be provided to receive roof hatch unit, coordinate with the structural drawings
- Check whether the manufactured unit includes all required flashing, counter flashing, and blocking for flashing

Common trouble spots:
- Insufficient height above roof to block water entry, particularly from ice-dam water ponding in freezing weather
- Location in low or ponding area of roof
- Insufficient flashing and counter flashing

NOTATION CHECKLIST, SAMPLE NOTES

ROOF HATCH & HARDWARE
- ROOF SCUTTLE
- INSULATED HATCH DOOR
- MANUFACTURED ROOF HATCH
- 4" CART
- BUILT-UP ROOF
- SINGLE PLY MEMBRANE
- STEEL ANGLE
- DECK CLOSURE
- LADDER
- DECK LADDER
- RIGID INSULATION
- RIGID INSULATION BASE FLASHING
- FOLD-DOWN STAIR
- CEILING JOISTS

ROOF HATCH & SCUTTLE

ROOF HATCH

Samples from www.AutoCADDetails.net
Roof ladders are usually selected prefabricated from a stock catalog or fabricated to order at a specialist metal shop.

- Treads: 1" steel pipe or 3/4" steel bars
- Width: 16" minimum, 24" preferred
- Top handrail, or grab bars, spaced 24" apart
- Top of handrail or grab bars 3'-6" high minimum
- Mount vertical stringer 7" from wall
- Roof ladder at parapet must include a metal grid stepping platform above the parapet supported by the handrail or grab bars

**Detail Data Checklist**

**Vertical Ladder or Roof Ladder**

**Notation Checklist, Sample Notes**

- Top Rail
- Parapet Coping/Cap
- Parapet Construction
- Ladder Rungs (Size & Spacing)
- Bent Bar Bracket
- Anchors to Wall
- Top of Coping
- Plug Weld
- Cap Bolt
- Bent Bar Bracket; Weld to Ladder
- 1-1/4" Pipe
- Weld All Around Closed End
- 3/4" Dia. Rungs 1'-0" O.C.
- 2-1/2" x 3/8" Flat Bar
- 2-1/2" x 3/8" Bent Bar Bracket
ROOF RIDGE

ROOF RIDGE 2:12 Slope

ROOF RIDGE 4:12 Slope

ROOF RIDGE 6:12 Slope

NOTATION CHECKLIST, SAMPLE NOTES

ROOFING
ROOF SHEATHING
FLASHING/WATERPROOFING
2X JOISTS/RAFTERS @ O.C.
RIDGE BEAM
ROOF PITCH
BUILT-UP ROOFING
ROOFING SHINGLE
ROOF SHEATHING
ROOF PLANKS
RIDGE BOARD
METAL STRAP
METAL PLATE
ROOF BEAM
RAFTER
BEVELED RAFTER
NOTCHED RAFTER
BEATER TIE
STRAP @ EACH RAFTER
CEILING JOISTS
ATTIC FLOOR
TOP PLATE
TYING
SCREEN VENT
INSULATION
SOFFIT
GUTTER
CEILING

Samples from www.AutoCADDetails.net
NOTATION CHECKLIST, SAMPLE NOTES

- RIDGE TILE
- NAILER
- CEMENT
- FIELD TILE
- GRAVEL STOP
- FLASHING
- NAILER
- FASCIA
- BUILDING FELT
- ROOF DECK/INSULATION
- ROOF CONSTRUCTION
- SLOPE
- ELASTIC CEMENT
- TOP FIXTURE
- EAVE CLOSURE
- WOOD DECKING
- CONCRETE ROOF
- PLASTER LATH
- RAKE
- END BAND
- DECK MOULD
- STARTER
- CLEATS
- ROOF EDGE
- CAP FLASHING
- VALLEY FLASHING
- CANT STRIP
NOTATION CHECKLIST, SAMPLE NOTES

- RIDGE TILE
- NAILER
- CEMENT
- FIELD TILE
- GRAVEL STOP
- FLASHING
- NAILER
- FASCIA
- BUILDING FELT
- ROOF DECK/INSULATION
- ROOF CONSTRUCTION
- SLOPE
- ELASTIC CEMENT
- TOP FIXTURE
- EAVE CLOSURE
- WOOD DECKING
- CONCRETE ROOF
- PLASTER LATH
- RAKE
- END BAND
- DECK MOULD
- STARTER
- CLEATS
- ROOF EDGE
- CAP FLASHING
- VALLEY FLASHING
- CANT STRIP

Samples from www.AutoCADDetails.net
Scuppers are non-corrosive sheet-metal channels or box tubes to direct water off a roof or through a parapet. Overflow scuppers are a must in parapet roofs. Position these to drain away rain water that may be backed up and blocked by clogged roof drains. Provide at least one, preferably two, to drain rain water out to an area that won’t be harmed by intermittent spillover. Well-flashed and caulked 26 gauge galvanized steel or comparable copper construction is typical.

**Notation Checklist, Sample Notes:**
- **Gutter**
- **Hanger**
- **Bracket**
- **Metal Gravel Stop**
- **Cant/Plumb**
- **Cleat/Edge Strip/Fascia Plate**
- **Parapet Wall Construction**
- **Reglet**
- **Flashing/Counterflashing**
- **Adhesive/Sealant/Caulking**
- **Cover Material**
- **Roof Deck/Insulation**
- **Roof Construction**

**Sample Notes:**
- **Sample Notes:**
  - **Edge of Roof Membrane**
  - **Fascia Cover**
  - **Stainless Steel Tube Liner**
  - **Conductor Head, Min. 4" wider than scupper**
  - **Provide 3" overlap to go over Adj. Fiber Cant**
  - **Caulk & Make Weather Tight**
  - **Galv. Sheet Metal Overflow Scupper**
  - **Solder All Joints**
  - **Galv. Sheet Metal Scupper & Header**
  - **Treated Wood Blocking**
  - **Elye of Roof**
  - **Sealant All Around**
  - **Embed Flanges Completely in Plas. Cement**
  - **Fiber Glass Cloth in Plas. Cem.**
  - **Feathered Edge Strip**
  - **Tapered Edge Strip**
SHED ROOF @ WALL/ROOF @ PARAPET

SHED ROOF @ WALL
(2 X 4) 4:12 Slope

SHED ROOF @ WALL
(2 X 6) 4:12 Slope

NOTATION CHECKLIST,
SAMPLE NOTES

2 X STUDS @ "O.C.
2 X SOLID BLOCKING/NAILER
ROOFING
ROOF SHEATHING
FLASHING/WATERPROOFING, O.C.
LEDGER

INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE

EXTERIOR:
THERMAL INSULATION
GYPSUM WALLBOARD SHEATHING
WOOD SHEATHING
MOISTURE BARRIER
LATH & PLASTER/STUCCO
WOOD SIDING
MASONRY VENEER
ROOF PITCH

EXTerior continued:
BUILT-UP ROOFING
ROOFING SHINGLE
ROOF SHEATHING
ROOF PLANKS
RIDGE BOARD
METAL STRAP
METAL PLATE
ROOF BEAM
RAFTER
BEVELED RAFTER
NOTCHED RAFTER
RABBIT TIE
STRAP @ EACH RAFTER
CEILING JOISTS
ATTIC FLOOR
TOP PLATE
TYING
SCREEN VENT
INSULATION
SOFFIT
GUTTER
CEILING
SHEET METAL ROOFING

NOTATION CHECKLIST, SAMPLE NOTES

- FLAT SEAM
- BATTEN
- FLASHING
- STANDING SEAM
- SNAP CAP ANCHOR CLIP
- CLEAT
- METAL ROOFING
- ROOFING FELT
- ROOF DECK/INSULATION
- ROOF CONSTRUCTION
- PREFAB RIDGE PIECE

MTL. ROOFING, 1-1/2" W. X 2" H. BATTEN @ 24" O.C.

METAL ROOFING HIP COVER

PLYWOOD SHEATHING

TYPE "W" VALLEY CONT. FLASH. BY MTL. ROOFING MFR.

CLOSURE BY MTL. ROOFING MFR.

PEAK LAP BY MTL. ROOFING MFR.

COLD GALV. MTL. ROOFING, CLIP & SEAM
Sheet Metal Roofing

Notation Checklist, Sample Notes

Flat Seam
Batten
Flashing
Standing Seam
Snap Cap Anchor Clip
Cleat
Metal Roofing
Roofing Felt
Roof Deck/Insulation

Roof Construction
Prefab Ridge Piece
Plywood Sheathing
Metal Roofing Hip Cover
MTR. Roofing, 1 1/2" W. X 2" H. Batten @ 24" O.C.
Type "W" Valley Cont. Flash. By MTR.
Cyprus MFR.
Closure By MTR. Roofing MFR.
Peak Lap By MTR. Roofing MFR.
26 Ga. Galv. MTR. Roofing, Clip & Seam

Flat Seam & Batten
Parapet Flat Seam @ Parapet
Ridge Flat Seam @ Ridge
SHEET METAL ROOFING

NOTATION CHECKLIST, SAMPLE NOTES

FLAT SEAM
BATTEN
FLASHING
STANDING SEAM
SNAP CAP ANCHOR CLIP
CLEAT
METAL ROOFING
ROOFING FELT
ROOF DECK/INSULATION

ROOF CONSTRUCTION
PREFAB RIDGE PIECE
METAL ROOFING HIP COVER
PLYWOOD SHEATHING
MTL. ROOFING, 1-1/2" W. X 2" H. BATTEN @ 24" O.C.
TYPE "W" VALLEY CONT. FLASH. BY MTL.
ROOFING MFR.
CLOSURE BY MTL. ROOFING MFR
PEAK LAP BY MTL. ROOFING MFR
26 GA. GALV. MTL. ROOFING CLIP & SEAM

SHEET METAL ROOFING

Batten @ Eave
Batten Seam
Batten Seam @ Ridge
Batten Seam @ Ridge
Standing Seam @ Eave
Standing Seam @ Eave

Samples from www.AutoCADDetails.net
NOTATION CHECKLIST, SAMPLE NOTES

- Flat Seam
- Batten
- Flashing
- Standing Seam
- Snap Cap Anchor Clip
- Cleat
- Metal Roofing
- Roofing Felt
- Roof Deck/Insulation

ROOF CONSTRUCTION

- Prefab Ridge Piece
- Metal Roofing Hip Cover
- Plywood Sheathing
- MTL. Roofing, 1.125" W x 2" H. Batten @ 24" O.C.
- Type "W" Valley Cont. Flash. By MTL. Roofing MFR.
- Closure By MTL. Roofing MFR.
- Peak Lap By MTL. Roofing MFR.
- 26 Ga. Galv. MTL. Roofing, Clip & Seam

Samples from www.AutoCADDetails.net
SHIPS LADDER

DETAIL DATA CHECKLIST

SHIPS LADDER

Metal ships ladders are typically used in tight spaces in mechanical rooms or industrial spaces. They're usually selected prefabricated from a stock catalog or fabricated to order at a specialist metal shop.

- 60° degree mounting angle is typical
- Width: 18” minimum, 24” preferred
- Treads of checkered plate or open grating steel to ensure non-slip surface and prevent accumulation of slippery substances such as water and grease
- Tread-to-tread height is 12” maximum, 10” preferred
- Stringers are from stock steel channels
- Anchor the stringers to floor and wall construction with minimum 3/4” diameter expansion bolts, pre-set bolts, or through-bolts
- 1” or larger diameter pipe rail at one or both sides

NOTATION CHECKLIST

PIPE RAIL
METAL TREADS
STRINGER
TREAD BRACKETS
ANGLE
WALL ANCHOR/FLOOR
ANCHOR
Street and directional signs are usually purchased ready-made or fabricated as variations on common sign types and styles. Local highway and street jurisdictions usually provide exact design standards and specifications and to indicate anchoring to the ground or pavement. Detail drawings are included mainly to show desired sizes and types. Besides data provided by governing agencies, see manufacturers’ and suppliers’ catalogs for additional design data, details, and specifications. See manufacturers’ recommendations for anchoring.

DETAIL DATA CHECKLIST

SIGN
SIGN POST & SIGN CONNECTION
CONNECTION

SIGN No Entry

SIGN POST FOOTING

SIGN (MATERIAL & FINISH)
SIGN POST (MATERIAL, SIZE & SHAPE)
BOLTS/ANCHOR FINISH GRADE/PAVING/SLAB/CURB SUBGRADE

1-3/4” X 3” BRONZE ANODIZED ALUM STANDARD 4 X 4 CEDAR POST
2” DIA GALVANIZED STEEL PIPE BLUE LETTERS, SYMBOLS, & BORDER ON WHITE BACKGROUND CONCRETE FOOTING FOOTING PIPE SLEEVE BACKFILL/AGGREGATE SAND

NOTATION CHECKLIST,
SAMPLE NOTES

www.AutoCADDetails.net
SKYLIGHTS

DETAIL DATA CHECKLIST

SKYLIGHTS

Skylights are usually installed as ready-made manufactured units so most detailing and installation will be as per manufacturers' recommendations. The catalogs provide numerous options of glazing types, fixed or operable, single or double glazing, etc. Skylight design is highly regulated, so consult all applicable building code standards.

- Extruded aluminum frame with integral base and acrylic dome is typical
- Square and rectangular units are typically sized at from 2' to 8' in each direction
- Curbs are required to block penetration of water, ice and snow at roof level
- Curbs may be integral or designed as part of roof construction
- Materials and sizes:
  - Double glazing helps mitigate condensation
  - Exposed gaskets will fail due to solar and weather exposure
  - Provide sloping gutters between adjacent skylights to drain condensation

NOTATION CHECKLIST, SAMPLE NOTES

FRAME
FRAMING CONDENSATE GUTTERWEEP HOLES
CURB
CANTNAILER
SEALANT/CAULKING
ROOFING DECK/INSULATION
ROOF CONSTRUCTION
PLASTIC SKYLIGHT
45° SQUARE PYRAMID DOUBLE GLAZED
SKYLIGHT SYSTEM
COVER METAL FRAME TO AVOID CONDENSATION
ACRYLIC PLASTIC SKYLIGHT W/ EXTRUDED ALUM
CURB FRAME & CONDENSATE GUTTER

ALUM. FRAME BY SKYLIGHT MFR., INSTALL AS PER MFRS. INSTRUCTIONS
ALUM. INNER LINER
CONST. APRON FLASHING
MEMBRANE FLASHING
TOP LINE OF CURB
MULLION
WOOD CURB
ALUM. CURB
4 X 4 CANT
WOOD BLOCKING
STEEL ANGLE
PERIMETER OPENING CHANNEL
MEMBRANE ROOFING
BUILT-UP ROOF
RIGID INSULATION
ROOF JOISTS
CEILING
SKYLIGHTS

DETAIL DATA CHECKLIST

SKYLIGHTS

Skylights are usually installed as ready-made manufactured units so most detailing and installation will be as per manufacturers' recommendations. The catalogs provide numerous options of glazing types, fixed or operable, single or double glazing, etc. Skylight design is highly regulated, so consult all applicable building code standards.

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  - Extruded aluminum frame with integral base and acrylic dome is typical
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  - Curbs may be integral or designed as part of roof construction
  - Provide sloping gutters between adjacent skylights to drain condensation
  - Double glazing helps mitigate condensation
  - Exposed gaskets will fail due to solar and weather exposure

- Skylight System
  - Cover metal frame to avoid condensation
  - Acrylic plastic skylight w/extruded alum. curb frame & condensate gutter

NOTATION CHECKLIST, SAMPLE NOTES

FRAME
FRAME CONDENSATE GUTTER/WEEP HOLES
Curb
Cant/Nailer
Sealant/Caulking
Roof/Membrane/Layer (type, layers, & cover material)
Roofing deck/Insulation
Roof construction
Plastic skylight
45D square pyramid double glazed
SKYLIGHT SYSTEM
COVER METAL FRAME TO AVOID
CONDENSATION
ACRYLIC PLASTIC SKYLIGHT W/EXTRUDED ALUM.
CURB FRAME & CONDENSATE GUTTER

ALUM. FRAME BY SKYLIGHT MFR., INSTALL AS PER MFR'S INSTRUCTIONS
ALUM. INNER LINES
CONT. ARCON FLASHING
MEMBRANE FLASHING
TOP LINES OF CURB
MULLION
WOOD CURB
ALUM. CURB
4X4 CANT
WOOD BLOCKING
STEEL ANGLE
PERIMETER OPENING CHANNEL
MEMBRANE ROOFING
BUILT-UP ROOF
ROOF INSULATION
ROOF JOISTS
CEILING

Samples from www.AutoCADDetails.net
SLATE TILE FLOORS

SLATE TILE FLOOR Thin-Set on Concrete

SLATE TILE FLOOR Mortar Bed on Wood

SLATE TILE FLOOR Thin-Set on Wood

SLATE TILE FLOOR Mortar Bed on Concrete

DETAIL DATA CHECKLIST

SLATE FLOORING
- Typical slate flagstone thickness is 7/8".
- Slate flagstone comes in three types:
  - Square, four edges sawn
  - Irregular, two edges sawn
  - Irregular, no edges sawn
- Slate floor tile thicknesses are typically 1/2" to 1-1/4".
- Thicker floors are for the heavier traffic areas.
- Follow supplier's recommendations for thickness in different floor traffic conditions.
- Typical slate floor tile sizes are 6", 10" and 12", widths are 6" to 9", thicker panels are up to 24" square.
- Provide complete, compact bedding beneath stone tile slabs to avoid bending stresses and cracking.
- Slate is brittle and subject to damage from impact or bending stress.
- Provide a stable substrate; movement of substrate will cause cracks in stone at mortar joints.

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)
SETTING BED (MATERIAL & SIZE)
FLOOR MEMBRANE/WATERPROOFING
SUBFLOOR/SLAB REINFORCING

SLATE TILE FINISH CONC.
BUILD UP CONC. FLOOR W/FLOORSTONE AS REQ'D.
PLYWOOD UNDERLAYMENT
PLYWOOD SURF. FLOOR
PARTICLE BOARD UNDERLAYMENT
MASTIC
BOND COAT
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
DIVIDER STRIP
REDUCER STRIP

Samples from www.AutoCADDetails.net
Splash blocks are usually bought as prefabricated units from landscape supply houses and don’t normally require true construction or fabrication detailing. Detail drawings are included mainly to show desired sizes and types of blocks and show their relationship to roof drain downspouts.
Sports Paving

Detail Data Checklist

Sports Paving

- Sports paving must be specified with considerable precision;
- Details are mainly to show thicknesses and layering of materials;
- Consult CSI master specifications and athletic facilities handbooks for design standards required for specific sports and specific site and weather conditions;
- Also, see manufacturers' and suppliers' catalogs for design data, details, and specifications.

Synthetic Sports Paving:
- Resilient surface
- Concrete slab
- Reinforcing
- Aggregate base
- Compacted subgrade

Synthetic Track Paving:
- Resilient surface
- Wearing course
- Leveling course
- Base course
- Compacted subgrade

Tennis Court Paving:
- Color coat
- Leveling course
- Binder
- Aggregate
- Gravel
- Compacted subgrade

Cinder Track:
- Fine cinders
- Medium cinder course
- Base course
- Compacted subgrade

Sample notes and diagrams from www.AutoCADDetails.net
STEEL AWNING WINDOWS

Steel Awning Window -- Single Glazed

Steel Awning Window -- Double Glazed

DETAIL DATA CHECKLIST

STEEL AWNING WINDOWS

STEEL WINDOW SYSTEM
METAL SILL BELOW
THERMOPANE INSULATING GLASS
SIDES
SILL W/SEALANT EACH SIDE
WOOD NAILED
TREATED BLOCKING
1 X WOOD TRIM
METAL EDGE BEAD
STUD
FLASHING
SEALANT

NOTATION CHECKLIST,
SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/SILL
WINDOW TYPE, MATERIAL & FINISH
ROUGH OPENING/FINISH OPENING

STEEL WINDOW SYSTEM
METAL SILL BELOW
THERMOPANE INSULATING GLASS
SIDES
SILL W/SEALANT EACH SIDE
WOOD NAILED
TREATED BLOCKING
1 X WOOD TRIM
METAL EDGE BEAD
STUD
FLASHING
SEALANT

See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.

Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2” all around is a common allowance for shim space).

Details should show flashing and caulking at heads, jambs, and sills.

See manufacturers' recommendations for connections to varied wall construction.

See the Detail Data Checklist for Windows and Glazing at the beginning of this chapter for more information.
STEEL CASEMENT WINDOWS

Steel Casement -- Single Glazed

Steel Casement -- Double Glazed

DETAIL DATA CHECKLIST

STEEL CASEMENT WINDOWS

Note: You can combine these generic window details with varied exterior wall construction details in this book to create many hundreds of possible special combinations.

- See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.
- Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST, SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/JAMB
WINDOW TYPE/MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP HOLE/WIND GUARD
GLAZING: SINGLE/DouBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

STEEL WINDOW SYSTEM
METAL SILL BELOW
THERMOPANE INSULATING GLASS
SINGLE PANE GLASS
HEAD, SEALANT BOTH SIDES
SILL W/SEALANT EACH SIDE
WOOD NAILER
TREATED BLOCKING
1 X WOOD TRIM
METAL EDGE BEAD
STUD
FLASHING
SEALANT
STEEL PIVOTED WINDOWS

Note: You can combine these generic window details with varied exterior wall construction details in this book to create many hundreds of possible special combinations.

- See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.
- Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

### WALL CONSTRUCTION
- SHIM SPACE
- Drip Cap/Water Stopping
- Flashing/Weather Stripping
- Caulking/GROUT
- Finish Head/Jamb

### WINDOW TYPE & MATERIAL & FINISH
- Insulating Glass

### HARDWARE/OPERATOR
- Vent/Weep Hole

### WIND GUARD
- Single/Double

### SCREEN/SCREEN FRAME
- Casings/Trim/Adjacent Finish

### ROUGH OPENING/FINISH OPENING

### STEEL WINDOW SYSTEM
- Metal Sill Below
- Thermopane Insulating Glass
- Sill, Sealant Both Sides
- Wood Nailer
- Treated Blocking
- 1x Wood Trim
- Metal Edge Bead
- Stud

### FLASHING
- Sealant
STONE CURBS, PAVING EDGES

DETAIL DATA CHECKLIST
STONE CURBS & GUTTER CURBS
- Stone curb sections come in precut lengths, such as 12' long, straight and curved
- Set stones without mortar in tamped gravel
- Granite is often used in extreme climate areas
- Use expansion joint material such as mastic board at each joint
- Provide backup support such as poured concrete as backing at each joint to help prevent overturning
- Compact the subgrade
- Provide ample subgrade drainage

NOTATION CHECKLIST,
SAMPLE NOTES
CURB FINISH (TYPE & MATERIAL)
FINISH GRADE/PAVEMENT
CURB SLOPE/RADIUS/CAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROL/EXPANSION JOINTS
(TYPE & SPACING)

SEE SITE PLAN FOR MATERIAL & FINISH GRADE @ PAVING
SLOPE GRANITE CURBING 45D
VERTICAL GRANITE CURBING
COMPACTED BANK RUN GRAVEL BASE
STONE CURBS, PAVING EDGES

DETAIL DATA CHECKLIST

STONE CURB & GUTTER CURBS
- Stone curb sections come in precut lengths, such as 12’ long, straight and curved
- Set stones without mortar in tamped gravel
- Granite is often used in extreme climate areas
- Use expansion joint material such as mastic board at each joint
- Provide backup support such as poured concrete as backing at each joint to help prevent overturning
- Compact the subgrade
- Provide ample subgrade drainage

NOTATION CHECKLIST, SAMPLE NOTES

CURB FINISH (TYPE & MATERIAL)
FINISH GRADE/PAVEMENT
CURB SLOPE/RAIDICAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROLLED EXPANSION JOINTS (TYPE & SPACING)
SEE SITE PLAN FOR MATERIAL & FINISH GRADE
SLOPE GRANITE CURBING 45D
VERTICAL GRANITE CURBING
COMPACTED BANK RUN GRAVEL BASE

Samples from www.AutoCADDetails.net

Samples from www.AutoCADDetails.net
STONE FLOORS

DETAIL DATA CHECKLIST

STONE FLOORS
- Thin-set stone flooring is mainly used for exterior paving and finished roof decks.
- Granite paver thicknesses are typically 2" to 3"; typical sizes are 4" x 4", 4" x 8", 5" x 8", 8" x 8", and 12" x 12".
- Consult stone suppliers' catalogs for variations in thicknesses and stone sizes, bedding support, and application.
- Follow suppliers' details, specifications, and application instructions carefully.
- Open-joint paving is used to allow drainage of rain water to the slab or roofing beneath the finish stone surface.

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)
JOINT SIZE
BOND COAT/MORTAR BED
FLOOR
MEMBRANE/WATERPROOFING
SUBFLOORS/LAB
REINFORCING
SEALANT/FILLER STRIP
STONE
MARBLE TILE
GRANITE FLOORING
FINISH CONC.
BUILD UP CONC. FLOOR
W/FLOORSTONE AS REQ'D.

PLYWOOD UNDERLAYERMENT
PLYWOOD SUBFLOOR
PARTICLE BOARD UNDERLAYERMENT
MASTIC
BOND COAT
ADHESIVE
SETTING BED
MORTAR BED/REINFORCING
ANGLE EDGER
THRESHOLD
DIVIDER STRIP
REDUCER STRIP
STONE VENEER

DETAIL DATA CHECKLIST

STONE VENEER

STONE VENEER @ BASE
Wire Anchor

STONE VENEER @ VERT. JOINT
Wire Anchor

STONE VENEER @ BASE
Steel Angle

STONE VENEER @ HORIZ. JOINT
Steel Angle

STONE VENEER @ CEILING
Wire Anchor

STONE VENEER @ CEILING
Steel Angle

STONE VENEER @ CEILING
Dovetail Joint

STONE VENEER

Wire Tie to Wood Stud

STONE VENEER @ BASE

Steel Angle

DETAIL DATA CHECKLIST

STONE Masonry Veneer

- Filing panels or units along typical sizes
  - Limestone -- 7/8” x 2-1/4”, 2” thick; 3’ x 14’ typical maximum panel
  - Marble -- 1-1/2” to 2” thick; 6’ x 7’ typical maximum panel
  - Granite -- 1-1/4” and thicker; 4’ x 10’ typical maximum panel
  - Slate -- 1”, 1-1/2” thick; 4’ x 8’ typical maximum panel

- Water resistance
  - Limestone -- Low water resistance
  - Marble -- High water resistance
  - Granite -- Very high water resistance
  - Slate -- High water resistance

Contact suppliers and trade associations for data and consultation on anchoring systems

NOTE CHECKLIST, SAMPLE NOTES

STONE (TYPE & THICKNESS)
ANCHOR/TIE (TYPE, MATERIAL & SIZE)
MORTAR BED
ADJACENT WALL MATERIAL
WALL CONSTRUCTION/FRAMING

04460 STONE VENEER

TIE WIRE, CEMENTED INTO HOLES
PIN ANCHOR
DOVETAIL INSERT
THREADED INSERT & EYE BOLT & STRIP LINER
LOOP TIE THRU DRILLED HOLE
STRIP LINER WITH DOWELS
STRIP HANGER
THREADED ROSETTE
RELIEF ANGLE & ANCHOR
WELD TO CLIP

Samples from www.AutoCADDetails.net
STOREFRONT AUTOMATIC DOORS

DETAIL DATA CHECKLIST

AUTOMATIC DOORS

- See manufacturer’s catalogs for standard sizes, finishes, and materials.
- Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete construction.
- See manufacturers’ and suppliers’ catalogs for detail design data and specifications.
- See manufacturer’s recommendations for special anchor requirements for different kinds of construction.

NOTATION CHECKLIST

DOOR GLAZING
DOOR FRAME
THRESHOLD
RECESSED MAT
AUTOMATIC DOOR OPERATOR
CONCRETE SLAB RECESS

SILL Double Acting

HEAD @ AUTOMATIC DOOR CLOSER
STOREFRONT DOORS

JAMB @ WALL
Single Acting

MULLION JAMB
Single Acting

JAMB @ SIDE LIGHT
Single Acting

MULLION JAMBS
Single Acting

MULLION JAMBS
Paired Single Acting

SILL
Single Acting

HEAD
Single Acting

HEAD @ TRANSOM
Single Acting

NOTATION CHECKLIST,
SAMPLE NOTES

SINGLE GLAZED DOOR
THRESHOLD SET IN FULL BED BED OF
CAULKING
DOOR SWEEP
WEATHERSTRIPPING @ HEAD & JAMB
JAMB STIFFENERS, FULL HT. OF JAMB
FLOOR MATERIAL
HOLLOW METAL FRAME
BASE ANCHOR
STOPS
SINGLE GLAZING
THERMOPANE INSULATING GLASS
FRAMING
HEADER

WALL CONSTRUCTION
ANCHORS
ADJACENT FINISHES
SHIM SPACE
CAULKING
FRAME TYPE, MATERIAL & SIZE
DOOR FRAME
BEAD
GLAZING: SINGLE/DUAL
GASKET
BRACING
STOREFRONT DOORS

JAMB @ WALL
Double Acting

JAMB @ SIDE LIGHT
Double Acting

MULLION JAMBS
Double Acting

MULLION JAMBS
Paired Double Acting

SILL
Double Acting

HEAD
Double Acting

HEAD @ TRANSOM
Double Acting

NOTATION CHECKLIST,
SAMPLE NOTES
WALL CONSTRUCTION
ANCHORS
ADJACENT FINISHES
SHIM SPACE
CAULKING
FRAME TYPE, MATERIAL & SIZE
DOOR FRAME
BEAD
GLAZING: SINGLE/DISTOWE
GASKET
BRACING

SINGLE GLAZED DOOR
THRESHOLD SET IN FULL BED OF CAULKING
DOOR SWEEP
WEATHERSTRIPPING @ HEAD & JAMB
JAMB STIFFENERS, FULL HT. OF JAMB
FLOOR MATERIAL
HOLLOW METAL FRAME
BASE ANCHOR
STOPS
SINGLE GLAZING
THERMOPANE INSULATING GLASS
FRAMING
HEADER

Samples from www.AutoCADDetails.net
STOREFRONT DOORS

HEAD @ WALL (Narrow) Double Acting

JAMB @ WALL (Narrow) Double Acting

HEAD @ TRANSOM (Narrow) Double Acting

NOTATION CHECKLIST
SAMPLE NOTES

WALL CONSTRUCTION
ANCHORS
ADJACENT FINISHES
SHIM SPACE

MATERIAL & SIZE

DOOR FRAME BEAD

GLAZING: SINGLE/DUPLICATE
GASKET

BRACING

SINGLE GLAZED DOOR
THRESHOLD SET IN FULL BED OF CAULKING

IPPING

HEADING & JAMB
JAMB STIFFENERS, FLAT HT. OF JAMB

FLOOR MATERIAL

HOLLOW METAL FRAME
BASE ANCHOR
STOPS

SINGLE GLAZING
THERMOPANE INSULATING GLASS

FRAMEWORK

FINISHING

ROLLING STOPS
FLOOR MATERIAL
HEADER

MATERIAL & SIZE

SINGLE/DUPLICATE GLAZING

DOUBLE GLAZING

BRIEFS FROM www.AutoCADDetails.net

Samples from www.AutoCADDetails.net
STOREFRONT WINDOWS

VERTICAL GLAZING BAR Single Glazed

MULLION Single Glazed

CORNER MULLION Single Glazed

ANGLE CORNER MULLION Single Glazed

MULLION @ WALL MULLION HEAD Single Glazed

BASE @ SIDE LIGHT Single Glazed

MULLION BASE Single Glazed

HORIZONTAL GLAZING BAR Single Glazed

NOTATION CHECKLIST:
FRAME TYPE, MATERIAL & SIZE
GLAZING: SINGLE/DUAL
GASKET
BEAD
SHIM SPACE
CAULKING
WALL CONSTRUCTION
ANCHORS
ADJACENT FINISHES

SAMPLE NOTATION:
FLOOR MATERIAL
HOLLOW METAL FRAME
BASE ANCHOR
STOPS
SINGLE GLAZING
THERMOPANE INSULATING GLASS
FRAMING
HEADER

Samples from www.AutoCADDetails.net
STOREFRONT WINDOWS

MULLION @ WALL
MULLION HEAD
Single Glazed

MULLION BASE
Single Glazed

HORIZONTAL GLAZING BAR
Single Glazed

NOTATION CHECKLIST,
SAMPLE NOTES

FRAME TYPE, MATERIAL & SIZE
GLAZING: SINGLE/DUPLICATE
GASKET
BEAD
SHIM SPACE
CAULKING
WALL CONSTRUCTION
ANCHORS
ADJACENT FINISHES
FLOOR MATERIAL
HOLLOW METAL FRAME
BASE ANCHOR
STOPS
SINGLE GLAZING
THERMOPANE INSULATING
GLASS
FRAMING
HEADER

Samples from
www.AutoCADDetails.net
Subdrains & Underdrains

Detail Data Checklist

Drainage
- Types of pipe for subsurface drains are:
  - Corrugated metal
  - Flexible plastic
  - Concrete
  - Clay tile
  - Asbestos cement
  - Rigid plastic
  - Porous and unperforated
  - Install perforated drain with holes facing down
  - Drainpipe should be sloped to a sump or outfall
  - Grade filter material above and around drainpipe
  - Depth and spacing of subdrains depends on soil type (see civil engineering handbook tables)
  - Trench drains should slope to a drainpipe

Drain Inlet Covers
- Usually precast concrete or cast iron (also ductile iron)
- Frames and grates available for light and heavy loading conditions
- Shapes available:
  - Round
  - Rectangular
  - Square
  - Linear

Notation Checklist, Sample Notes

Paving Base
Finish Grade/Paving
Aggregate
Backfill
Compacted Subgrade
Drainpipe/Drain Tile
There are many varied suspended ceiling systems and products; see manufacturers’ catalogs for recommendations for specifications, detailing, and application.

A typical gypsum board support system:
- Hanger wires are typically spaced 48” o.c. and within 6” of the end of carrying channel
- Hanger wires support 1-1/2” carrying channels set at 48” o.c. and within 6” of walls
- 7/8” metal furring channels are supported at right angles to the carrying channels
- Integrated lighting and acoustical tile systems come complete with all hardware and accessories.
- Use manufacturers’ shop drawings as guides for any special customized detailing of a selected product.
- See manufacturers’ recommendations regarding attachment of hanger wire to various types of overhead construction.

HANGER WIRE
1-1/2” CARRYING CHANNEL
MAIN RUNNER
CROSS TEE
CEILING TILE
3/4” FURRING CHANNEL
GYPSUM WALLBOARD
LATH & PLASTER
SPECIAL FINISHES
CORNER BEAD
PANEL ANCHORS & FIXTURES
HANGER WIRE 3 TURNS AROUND ITSELF
MAIN BEAM, SUPPORT WITH HANGER WIRE
ACOUSTICAL TILE CLG.
CAULK GYPSUM BOARD AROUND CLG.
SPECIAL PENETRATIONS
Screw
Metal Wall Angle
SUB-DECK METAL WALL TRIM TO CLG.
SUB-DECK SUSPENSION SYSTEM (not wall)
LINE & WALL
BATT INSULATION
PROVIDE FIRE DAMPERS WHERE DUCTS PENE TRATE ENVELOPE
LIGHT FIXTURES
There are many varied suspended ceiling systems and products; see manufacturers' catalogs for recommendations for specifications, detailing, and application.

A typical gypsum board support system:

- Hanger wires are typically spaced 48" o.c. and within 6" of the end of carrying channel
- Hanger wires support 1-1/2" carrying channels set at 48" o.c. and within 6" of walls
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- Integrated lighting and acoustical tile systems come complete with all hardware and accessories.
- Use manufacturers' shop drawings as guides for any special customized detailing of a selected product.
- See manufacturers' recommendations regarding attachment of hanger wire to various types of overhead construction.

**NOTATION CHECKLIST**

**SAMPLE NOTES**

<table>
<thead>
<tr>
<th>SUSPENDED CEILING</th>
<th>SUSPENDED CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HANGER WIRE</td>
<td>HANGER WIRE</td>
</tr>
<tr>
<td>1-1/2&quot; CARRYING CHANNEL</td>
<td>1-1/2&quot; CARRYING CHANNEL</td>
</tr>
<tr>
<td>MAIN RUNNER</td>
<td>MAIN RUNNER</td>
</tr>
<tr>
<td>CROSS TEE</td>
<td>CROSS TEE</td>
</tr>
<tr>
<td>CEILING TILE</td>
<td>CEILING TILE</td>
</tr>
<tr>
<td>3/4&quot; FURRING CHANNEL</td>
<td>3/4&quot; FURRING CHANNEL</td>
</tr>
<tr>
<td>GYPSUM WALLBOARD</td>
<td>GYPSUM WALLBOARD</td>
</tr>
<tr>
<td>LATH &amp; PLASTER</td>
<td>LATH &amp; PLASTER</td>
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<tr>
<td>SPECIAL FINISHES</td>
<td>SPECIAL FINISHES</td>
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<tr>
<td>CORNER BEAD</td>
<td>CORNER BEAD</td>
</tr>
<tr>
<td>TRACKS/HANGERS/FIXTURES</td>
<td>TRACKS/HANGERS/FIXTURES</td>
</tr>
<tr>
<td>HANGER WIRE, 3 UNIONS AROUND ITSELF</td>
<td>HANGER WIRE, 3 UNIONS AROUND ITSELF</td>
</tr>
<tr>
<td>MAIN BEAM, SUPPORT WH HANGER WIRE</td>
<td>MAIN BEAM, SUPPORT WH HANGER WIRE</td>
</tr>
</tbody>
</table>

- ACoustical tile clg.
- Caulk gypsum board around clg.
- 's screw
- Metal wall angle
- Secure metal wall trim to clg.
- Suspension system (not wall)
- Line @ wall
- Batt insulation
- Provide fire dampers where ducts penetrate envelope
- Light fixtures
TERRAZZO BASES & FLOORS

DETAIL DATA CHECKLIST

_ Follow manufacturers' instructions with extreme care in detailing, specifications, and construction
_ Cracking is extremely common in terrazzo, strictly follow all manufacturers' instructions regarding divider and expansion strips
_ Terrazzo is extremely slippery and dangerous when wet; never use it where it might be exposed to moisture and foot traffic at the same time
_ Substrate for terrazzo has to be completely stable; solid concrete slabs preferred
_ Typical terrazzo thickness is 1/2" over 2" underbed over concrete slab
_ Sand cushion terrazzo is 1/2" topping over 2" underbed over 1/4" sand cushion over slab

NOTATION CHECKLIST,
SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)
SETTING BED (MATERIAL & SIZE)
JOINT SIZE & TYPE
FLOOR
MEMBRANE/WATERPROOFING
SUBFLOOR/SLAB
BASE (MATERIAL & SIZE)
BASE HEIGHT & THICKNESS
ADJACENT WALL MATERIAL
WALL MEMBRANE/WATERPROOFING

TERRAZZO BED
FINISH CONC.
MASTIC
BOND COAT
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
REDUCER STRIP
DIVIDER STRIP
DETAIL DATA CHECKLIST

TERRAZZO
- Follow suppliers’ instructions with extreme care in detailing, specifications, and construction
- Cracking is extremely common in terrazzo, strictly follow all manufacturer’s instructions regarding divider and expansion strips
- Substrate for terrazzo has to be completely stable; solid concrete slabs preferred
- Terrazzo is extremely slippery and dangerous when wet; never use it where it might exposed to moisture and foot traffic at the same time
- Thin-set terrazzo topping thickness is 1/4”
- Typical terrazzo thickness is 1/2” over 2” underbed over concrete slab
- Sand cushion terrazzo is 1/2” topping over 2” underbed over 1/4” sand cushion over slab

NOTATION CHECKLIST,
SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)
SETTING BED (MATERIAL & SIZE)
JOINT SIZE/TYPF
FLOOR
MEMBRANE/WATERPROOFING
SUBFLOOR/SLAB
REINFORCING
BASE (MATERIAL & SIZE)
BASE HEIGHT & THICKNESS
ADJACENT WALL MATERIAL
WALL MEMBRANE/WATERPROOFING
TERRAZZO BED
FINISH CONC.

PLYWOOD UNDERLAMENT
PLYWOOD SUBFLOOR
PARTICALE BOARD UNDERLAMENT
MATHIC
BOND COAT
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
DIVIDER STRIP
REDUCER STRIP

"L" Divider Strip
Heavy Top Divider Strip
Thin Top Divider Strip
Double Angle Divider Strip
"L" Divider Strip
Expansion Strip
Abrasive Channel Strip
TILE COUNTERTOPS

NOTATION CHECKLIST, SAMPLE NOTES

TILE SURFACE ADHESIVE BOND COAT MORTAR BED METAL LATH MEMBRANE PLYWOOD/PARTICLE BOARD TRIM (MATERIAL & SIZE) BLOCKING (MATERIAL & SIZE) ADJACENT MATERIALS THINSET QUARRY TILE QUARRY TILE ROUND TOP COVE BASE CERAMIC CAP BULLNOSE CAP WATERPROOF GYPSUM BOARD ADHESIVE SETTING BED MORTAR BED W/REINFORCING ANGLE EDGER THRESHOLD HARDWOOD DIVIDER STRIP REDUCER STRIP DOOR SILICONE SEALER SLOPE FROM CURB TO DRAIN

Samples from www.AutoCADDetails.net
TILE: CERAMIC TILE FLOOR

DETAIL DATA CHECKLIST

CERAMIC TILE

Mosaic tiles are 1" x 1", 1" x 2", 2" x 2" and 1/4" thick.
Glazed wall tiles are 4-1/4" x 4-1/4", 4-1/4" x 6", and 6" x 6"; typically 5/16" thick.
Quarry tiles and floor pavers are 2-3/4" x 6", 4" x 4", 4" x 6", 6" x 6", 6" x 9", 9" x 9"; 1/2" to 3/4" thick.
Wall tile on wood frame walls:

Apply with waterproof glue over water resistant backing such as gypsum wallboard.
Sometimes applied on cement mortar on metal or gypsum lath over wood frame.
When using gypsum wallboard tile backing in wet rooms, use waterproof or water resistant grade.

Tile on concrete or masonry walls:

Walls must be stable, not subject to extremes of expansion/contraction, soil movement, etc.

Primary variations of tile setting are:

Mortar method on wood or metal frame: 3/4" to 1-1/2" mortar bed over scratch coat, lath and felt.
Mortar method on masonry: 3/4" to 1-1/2" mortar bed over scratch coat.
Thin-set over masonry or concrete: tile over 1/8" to 1/4" thick dry set mortar.
Adhesive method: Tile over 1/16" adhesive over primed solid backing.
Cement mortar scratch coat is typically 3/4", with a leveling coat of 1/4" to 1/2".
Reinforce floor mortar to prevent cracking.

Tile flooring substrate may have to be recessed to allow for different adjacent finish-floor thicknesses.

Floor reinforced mortar bed is typically 1-1/4" thick.
Quarry tile and pavers are typically 1/2" to 1-1/2" thick.
Promenade tile are 1" x 6" x 9" in size.

See tile manufacturers' and suppliers' catalogs for recommended detailing, specifications, and application
of tile to different types of wall and floor surfaces.
TREE PLANTERS

DETAIL DATA CHECKLIST

TREE PLANTING
- Hole should be twice the diameter of the container
- Break subsoil with a pick or otherwise scar the walls of the hole to aid poor penetration
- Soil ball should rest on firm soil to avoid settling
- Remove burlap from the top of the ball (not necessary to remove from all around root ball)
- Backfill hole with original soil
- Or
- Use topsoil, peat moss and cow manure in 9" layers, watering each level until settled
- Do not tamp
- Ground line should be the same as, or slightly lower on the tree, than it was at the nursery
- The water levee around the tree should be 2' to 4' in diameter
- The berm around levee should be 4" high
- Cover levee and berm with 2" of mulch
- Remove any shoots on the trunk within 6" of the soil
- Trunk may be wrapped with tree wrap
- Where tree is planted in a hollow, provide a "land drain" if necessary to dispose of surplus water (clean rubble acts as a soakaway)
- Securely stake each tree
- Use 10 ga. twisted wire with a garden hose to wrap around the trunk

NOTATION CHECKLIST,
SAMPLE NOTES

SPECIFIED SOIL MIX
Drip emitter
Micro tubing
Drip line
Gravel slump
Plant root ball at grade as in nursery
Remove container from root ball
Rigid insulation
Planter wall
Drainage layer
2 strands #12 gauge galv. wire
Flag guy wires 3 ft. high w. yellow plastic ribbon 2 per wire
Cut wire below sod
2' x 2' x 2' wood stake 3 per tree, drive stakes flush with final grade
New 3/4" rubber garden hose around tree
3" galv. turnbuckle
Wrap entire branch w. approved material to second branch, secure @ 2' intervals w/ grafting cord

W. YELLOW
DETAIL DATA CHECKLIST

TREE PLANTING
- Hole should be twice the diameter of the container
- Break subsoil with a pick or otherwise scar the walls of the hole to aid penetration
- Soil ball should rest on firm soil to avoid settling
- Remove burlap from the top of the ball (not necessary to remove from all around root ball)
- Backfill hole with original soil
- Or
- Use topsoil, peat moss and cow manure in 9” layers, watering each level until settled
- Do not tamp
- Ground line should be the same as, or slightly lower on the tree, than it was at the nursery
- The water levee around the tree should be 2’ to 4’ in diameter
- The berm around levee should be 4’ high
- Cover levee and berm with 2” of mulch
- Remove any shoots on the trunk within 6” of the soil
- Trunk may be wrapped with tree wrap
- Where tree is planted in a hollow, provide a “land drain” if necessary to dispose of surplus water
  (clean rubble acts as a soakaway)
- Securely stake each tree
- Use 10 ga. twisted wire with a garden hose to wrap around the trunk

NOTATION CHECKLIST, SAMPLE NOTATION

TREE/TREEBALL
FINISH GRADE
WATER BASIN
WATER LEVEE
CONTAINER OUTLINE
FIBER MAT
AGGREGATE BASE
BACKFILL
SUBGRADE
TREE GUY STAKE
REINFORCING
WEEP HOLE (SIZE & SPACING)
AGGREGATE DRAIN BED
DRAIN PIPE DRAIN TILE
COMPACTED SUBGRADE/STRUCTURAL BACKFILL
ORIGINAL GRADE (shown dashed)
PORTION BACKFILL 5” MULCH LAYER (where applicable)
SPECIFIED SOIL MIX

DRIP EMITTER
MICRO TUBING
DRIP LINE
GRAVEL BUMP
PLANT ROOT BALL AT GRADE AS IN NURSERY
REMOVE CONTAINER FROM ROOT BALL
RIGID INSULATION
PLANTER WALL
DRAINAGE LAYER
2 STRANDS #12 GALV WIRE
FLAG GUY WIRES FOR VISIBILITY W. YELLOW PLASTIC RIBBON - 2 PER WIRE
CUT WIRE BEFORE SOIL
2” X 2” WOOD STAKE, 3 PER TREE, DRIVE
STAKES FLUSH WITH FINAL GRADE
NEW 3/4” RUBBER GARDEN HOSE AROUND TREE
3” GALV. TURNBUCKLE
WRAP ENTIRE TRUNK W. APPROVED MATERIAL TO SECOND BRANCH, SECURE @ 2’ INTERVALS W. GRAFTING CORD
NOTATION CHECKLIST, SAMPLE NOTES
VENT PIPE/STACK (TYPE, SIZE & MINIMUM HEIGHT)
SLEEVE FLASHING
COLLAR FLASHING
INNER FLANGE
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE (TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
METAL VENT
PREMOLDED PIPE SEAL
SEALANT
FLASHING FELT
STAINLESS STEEL CLAMPING RING
WATER CUTOFF MASTIC
CORE HOLE AS REQUIRED
OPENINGS FOR VENTS TO BE PREFORMED
BUILT-UP ROOF
ROOF PLIES UNDER CAP
FACTORY CURB
RIGID INSULATION
METAL DECKING
DUCT
FULL-SCALE GENERIC DETAILS

- See building code and handicap design regulations for slope and handrail requirements
- 8% slope is typically maximum for wheelchairs for up to 30'
- Provide curbs 4" to 6" high at each side of ramps to prevent side runaways or tipping of wheelchairs
- Provide nonslip treatment (abrasive surface or broom finish applied across width of ramp)

CURB TYPE
- CONCRETE RAMP FINISH
- CONCRETE RAMP SLOPE
- 1/4" GROOVES .34" O.C.
- STIFF BROOM FINISH ON RAMP SURFACE
- TEXTURED CONCRETE
- COARSE BROOM FINISH
- WARP AS NEEDED
- CONC. GUTTER
- CURB TAPER BEYOND
- 1/2" EXP. JOINT
- 1/2" JOINT FILLER MATERIAL
- TOP OF CURB
- REINFORCING
- SEE FOR HEIGHT & WIDTH OF CURB CUT RAMP DOWN
Wood Awning Window -- Single Glazed

Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.

- See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.
- Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2” all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

Wood Awning Window

W/Operator

--- Single Glazed

Detail Data Checklist

WALL CONSTRUCTION
SHIM SPACE
Drip Cap/Weatherstripping/Flashings
Caulking/GROUT
Finish HeadsBILL/JAMB
Window Type, Material & Finish
Hardware/Operator
Vent/Neep Hole/Wind Guard
GLAZING: Single/Double/Removable
Screen/Screen Frame
Casing/Trim/Adjacent Finish
Rough-Opening/Finish Opening
Wood Window
Wood Sill; 1/2” x 1”

Notation Checklist,
Sample Notes

WALL CONSTRUCTION
2 x WOOD NAILER
SHIM SPACE
1/4” GLASS
Drip Cap/WEATHERSTRIPPING/FLASHINGS
3/4” JAMB
CAULK OR SEALANT
FINISH HEADS/BILL/JAMB
WOOD CASING
WINDOW TYPE, MATERIAL & FINISH
WOOD DRIPEJAMB
HARDWARE/OPERATOR
WOOD STOOL
VENT/NEEP HOLE/WIND GUARD
WOOD NAILER
GLAZING: Single/Double/Removable
BRICK VENEER
SCREEN MOLDING
SCREEN/SCREEN FRAME
EYE HOOK W/ EYE SCREW
INTERIOR CASING
Casing/Trim/Adjacent Finish
1/2” WOOD SIDING
ROUGH-OPENING/FINISH OPENING
1/2” INSUL. BOARD
VENT/NEEP HOLE/WIND GUARD
WOOD WINDOW
WOOD SILL; 1/2” x 1”

Notation Checklist,
Sample Notes
Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.

- See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
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- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

**NOTATION CHECKLIST, SAMPLE NOTES**

- **WALL CONSTRUCTION**
- **SHIM SPACE**
- **DRIP CAP/WEATHERSTRIPPING/FLASHING**
- **CAULKING/ROUT**
- **FINISH HEAD/JAMB/SILL**
- **WINDOW TYPE, MATERIAL & FINISH**
- **HARDWARS/OPERATOR**
- **VENT/WEEP HOLE/WIND GUARD**
- **GLAZING: SINGLE/DOUBLE/REMOVABLE**
- **SCREENS/SCREEN FRAME**
- **CASING/TREAM/ADJACENT FINISH**
- **ROUGH OPENING/FINISH OPENING**
- **WOOD AWNING WINDOW**
- **WOOD WINDOW**
- **WOOD STOP, 1/2" X 1"**

2 x WOOD NAILER
3/4" GLASS
3/4" JAMB
CAULK OR SEALANT
2" WOOD DRIP
WOOD STOOL
X HEADER
3/4" WOOD FASCIA
1/2" WOOD TRIM
1 X 8 WOOD SIDING
1/2" INSUL. BOARD
5/8" GYPSUM BOARD
BRICK VENEER
EYE HOOK WEYE SCREW
SCREEN MOLDING
WOOD BASEBOARDS

DETAIL DATA CHECKLIST

WOOD BASEBOARDS

- Baseboards are manufactured in a large variety of standard sizes and profiles; see suppliers' catalogs for all the options available.
- When choosing a baseboard design or material, consider maintenance needs.
- Provide hardness and surface finish resistance to damage from:
  - Cleaning equipment
  - Furniture legs
  - Floor cleaning chemicals.
- Some contractors will attempt to use up scrap baseboard material by piecing together short lengths of
  baseboard.
- Specify or note that all baseboards be installed full length and continuous without joints in any run.

NOTATION CHECKLIST,
SAMPLE NOTES

BASE (MATERIAL & TYPE)
BASE HEIGHT & THICKNESS
ADJACENT WALL MATERIAL
WALL MEMBRANE/WATERPROOFING
ADJACENT FLOOR MATERIAL
FLOOR MEMBRANE/WATERPROOFING
SURF/TOP/FLOORBASE
SEALANT/ADHESIVE
FASTENERS
TRIM/SHOE MOLD
BLOCKING STRIP
EDGE TRIM
WOOD BEAM SPLICE & WOOD BEAM @ GLUE LAM BEAM

WOOD BEAM SPLICE & WOOD BEAM @ GLUE LAM BEAM

DETAIL DATA CHECKLIST

POST AND BEAM CONSTRUCTION

WOOD POST AND BEAM CONNECTORS

Connector types:
- Nailed metal side plates
- Bolted metal side plates
- Sizes and spaces of bolts as per code or engineering calculations
- U plate connector, nailed or bolted as required by engineering calculations or manufacturer’s tables
- Sheet metal connector, sized and nailed as required by engineering calculations or manufacturer’s tables

NOTATION CHECKLIST,
SAMPLE NOTES

X WOOD BEAM
X WOOD BEAM
STEEL HINGE CONNECTOR
BOLT CONNECTORS
STEEL SADDLE HANGER
FLUSH TOP SURFACE
SUPPORTED BEAM
CANTILEVERED BEAM
Wood Casement -- Single Glazed

**Detail Data Checklist**

Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction. See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.

Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).

Details should show flashing and caulking at heads, jambs, and sills.

See manufacturers' recommendations for connections to varied wall construction.

**Notation Checklist, Sample Notes**

- **WALL CONSTRUCTION**
- **SHIM SPACE**
- **DRIP CAP/WEATHERSTRIPPING/FLASHING**
- **CAULK/GROUT**
- **FINISH HEADS/JAMB**
- **WINDOW TYPE, MATERIAL & FINISH**
- **HARDWARE/OPERATOR**
- **VENT/WEEP/HOLE/WIND GUARD**
- **GLAZING: SINGLE/DUAL/REMOVABLE**
- **SCREEN/SCREEN FRAME**
- **CASING/TRIM/ADJACENT FINISH**
- **ROUGH OPENING/FINISH OPENING**
- **CASEMENT WOOD WINDOW**
- **WOOD WINDOW**
- **WOOD STOP, 1/2" X 1"**
- **SCREEN MOLDING**
WOOD CURBS & EDGE STRIPS

DETAIL DATA CHECKLIST

WOOD CURBS
- Use redwood, cedar, cypress or treated wood
- Sizes:
  - 2x6, 2x8, 6x6, 6x8, and railroad ties
- Hold wood curbs in place with wood stakes, rebar or bolts
- Stakes may be 1x2, 2x2, 2x3, or 2x4, 16" to 24" long,
  24" to 48" o.c., and/or at ends of timbers
- Use 2 20d ga. nails per stake
- For rebar, use a #4 bar, 18" long at each end of
  timbers
- Form a pocket around the bar and fill it with concrete

WOOD BORDER BOARDS AND EDGE STRIPS
- Use redwood, cedar, cypress or treated wood
- Use 2X4s for straight runs
- Use laminated 1/2" x 4" redwood strips for curves
- Use heavier timber wood curbs to restrain larger planter or paver areas and for mowing curbs

WOOD CURBS & EDGE STRIPS

NOTATION CHECKLIST,
SAMPLE NOTES

FINISH GRADE/PAVING/PLANTING BED
WOOD CURB/PAVING EDGE
PAVING BASE
SUBGRADE
STAKES (MATERIAL, SIZE & SPACING)

FINISH GRADE
ASPHALT - SEE SITE PLAN FOR THICKNESS & BASE
2 X EDGING, TREATED
2 X CONST. HEART REDWOOD HEADER
2 X 2 X 18" LONG CONST. HEART REDWOOD STAKES
2 X 2 STAKES @ 3'-0" O.C., TREATED
ALL JOINTS TO OCCUR @ STAKES, NAIL HEADER
TO STAKE W/ 2 - 8 d GALV. NAILS
WOOD DOORS AND DOOR FRAMES

DETAIL DATA CHECKLIST

Pocket and Sliding Doors
- Usually made of standard hollow or solid core doors with top-mounted hanging slider hardware
- 3/16" to 1/4" clearance is normally provided between the face of the door and the pocket recess framing and trim
- Floor tracks and door pull hardware are referenced in specifications, general notes, or door hardware schedule
- Trim at the header is usually designed to hide the hanging hardware so rough opening to header may be higher

Bi-fold Door
- Sometimes includes bottom pivot and special hardware
- Trim may be required as in preceding note
- Magnetic or other surface-mounted catch may be used and so noted

Accordion Door
- These are bought as manufactured units, either in standard sizes or custom sizes
- Usually a vinyl covered metal frame door surface-mounted in a cased opening
- Magnetic or other surface-mounted catch may be used and so noted

NOTATION CHECKLIST, SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
FINISH HEAD/JAMB
ADJACENT FINISHES
DOOR TYPE, MATERIAL & FINISH
FIXTURES/ATTACHMENTS/HARDWARE
ROUGH OPENING/FINISH OPENING

DBL. 2 X 4 HEADER
BLOCKING
X. WOOD CASING
WOOD TRIM
MOULDING
STEEL ANGLE
PREHUNG DOOR UNIT
THRESHOLD
1/2" X 1-1/2" WOOD STOP
GYPSUM WALLBOARD
VENEER

WOOD DOORS AND DOOR FRAMES
WOOD DOUBLE HUNG WINDOWS

**Wood Double Hung -- Single Glazed**

**Wood Double Hung -- Double Glazed**

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**DETAIL DATA CHECKLIST**

**DOUBLE HUNG WINDOWS**

- Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.
- See manufacturers’ and suppliers’ catalogs for standard sizes, detail design data, materials, and finishes.
- Details or window schedules should show rough-opening sizes and shim tolerance allowances
- (1/2” all around is a common allowance for shim space).
- Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.
- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers’ recommendations for connections to varied wall construction.

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**NOTATION CHECKLIST**

**SAMPLE NOTES**

- WALL CONSTRUCTION
- SHIM SPACE
- DRIP CAP/HEADER/STRIPPING/GLASSING
- CAULKING/GROUT
- FINISH HEAD/JAMB/SILL/FRAMES
- WINDOW TYPE, MATERIAL & FINISH
- HARDWARE/OPERATOR
- VENTWEEP HOLES/WIND GUARD
- GLAZING: SINGLE/DUOUBLE/REMOVABLE
- SCREENS/SCREEN FRAME
- CASING/TRIM/ADJACENT FINISH
- ROUGH OPENING/FINISH OPENING
- DOUBLE HUNG WOOD WINDOW
- WOOD STOP, 1/2” X 1”
- 2 X WOOD NAILER
- 1/4” GLASS
- 3/4” JAMB
- 1/8” JAMB
- 3/4” WOOD DRIP
- 2 WOOD CASING
- 1/3” WOOD TRIM
- 1 X 8" INTERIOR CASING
- 1/2” INSUL. BOARD
- 5/8” GYP. BD.
- BRICK VENEER
- EYE HOOK WEYE SCREW
- SCREEN MOLDING

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**SILHOUETTE CHECKLIST**

**SAMPLE NOTES**

- WALL CONSTRUCTION
- SHIM SPACE
- DRIP CAP/HEADER/STRIPPING/GLASSING
- CAULKING/GROUT
- FINISH HEAD/JAMB/SILL/FRAMES
- WINDOW TYPE, MATERIAL & FINISH
- HARDWARE/OPERATOR
- VENTWEEP HOLES/WIND GUARD
- GLAZING: SINGLE/DUOUBLE/REMOVABLE
- SCREENS/SCREEN FRAME
- CASING/TRIM/ADJACENT FINISH
- ROUGH OPENING/FINISH OPENING
- DOUBLE HUNG WOOD WINDOW
- WOOD STOP, 1/2” X 1”
- 2 X WOOD NAILER
- 1/4” GLASS
- 3/4” JAMB
- 1/8” JAMB
- 3/4” WOOD DRIP
- 2 WOOD CASING
- 1/3” WOOD TRIM
- 1 X 8" INTERIOR CASING
- 1/2” INSUL. BOARD
- 5/8” GYP. BD.
- BRICK VENEER
- EYE HOOK WEYE SCREW
- SCREEN MOLDING

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**HEAD JAMB SILL**

<table>
<thead>
<tr>
<th>WALL CONSTRUCTION</th>
<th>1/4” GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHIM SPACE</td>
<td>3/4” JAMB</td>
</tr>
<tr>
<td>DRIP CAP/HEADER</td>
<td>1/8” JAMB</td>
</tr>
<tr>
<td>GLAZING: SINGLE/DUOUBLE/REMOVABLE</td>
<td>3/4” WOOD DRIP</td>
</tr>
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<td>DOUBLE HUNG WOOD WINDOW</td>
<td>BRICK VENEER</td>
</tr>
<tr>
<td>WOOD STOP, 1/2” X 1”</td>
<td>EYE HOOK WEYE SCREW</td>
</tr>
<tr>
<td>2 X WOOD NAILER</td>
<td>SCREEN MOLDING</td>
</tr>
</tbody>
</table>
WOOD FENCING

DETAIL DATA CHECKLIST

WOOD FENCING

- Footings for posts should be below frost line
- Below grade, wrap posts with a layer of building paper
- AND
- Set in a 12" diameter concrete collar on compacted fill
- OR
- Set on concrete footing or concrete piers with angles or straps to anchor and support posts
- OR
- Rest the post on gravel (cleats optional)
- AND
- Fill in the hole with compacted fill
- Add a stone layer on top of fill if needed for stability
- Common materials sizes:
  - 4x4 posts 8' long for 5' to 6' height
  - Supports for 2x4 rails laid flat for clear spans at 4' maximum
  - 2x4 rails on edge can span 6' without sagging
  - Use cleats, lap joints, bolting, and galvanized connectors in detailing
  - Avoid butt joints and toenailing
  - Use offsets and buttress supports in long lengths subject to wind pressure
  - Fence gates are subject to heavy loads and abuse, so use extra-heavy post supports, cross bracing, "I" and heavy-duty hardware
  - Slope tops of posts to drain water
  - Slope rails or add drain holes to avoid accumulation of water at joints

NOTATION CHECKLIST, SAMPLE NOTES

WOOD POST (SIZE & SPACING)
WOOD FRAMING/NAILERS
BOARDS/PANELS (TYPE, SIZE, FINISH & SPACING)
TRIM
BOLTS/ANCHORS
FINISH GRADE/PAVING
FOOTING
BACKFILL/AGGREGATE/SAND

2 X 4 CONTINUOUS RAIL (cedar/redwood/treated)
1 X 8 BOARDS (cedar/redwood/treated)
BOARDS - OVERLAP EDGES 1/2" @
4 X 4 POSTS @ 8" O.C.
12" DIA. CONC. FOOTING
WRAP POSTS BELOW GRADE W/BUILDING PAPER
COMPACTED FILL (below footing)
COMPACTED EARTH FILL (sometimes in lieu of conc. footing. @ wood posts min. 3'-0" below grade)
WOOD POSTS (treated/extend. 6" typo thru conc. footing, max. spacing typo 6'-7")
45D CUT (@ top of wood posts)
WOOD FLOORS

DETAIL DATA CHECKLIST

WOOD FLOORING
- Hardwood thickness typically 3/8" to 3/4"
- Industrial wood block or strip is typically 2-1/2" to 4" thick
- Plank or strip flooring on concrete may be laid on:
  - Wood sleepers or nailers
  - Rubber-base adhesive
  - Asphalt mastic
- Wood sleepers or nailers are preferred when installing wood floors over concrete slabs to permit ventilation and prevent moisture swelling and/or decay
- Wood sleepers can be attached to concrete with power fasteners or mounted in an adhesive bed and the flooring
- Wood flooring over concrete slab on grade requires a vapor barrier under the slab and between slab
- See manufacturers’ catalogs for varied sizes, species, colors, finishes, and applications of wood flooring

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)
SLEEPER
MORTAR BED
ADHESIVE SETTING BED
UNDERLAYMENT/MEMBRANE
SUBFLOOR/SLAB

HARDWOOD FLOORING
HARDWOOD PARQUET FLOORING
CONCRETE
PLYWOOD UNDERLAYMENT
PARTICLE BOARD UNDERLAYMENT
PLYWOOD SUBFLOOR
MASTIC
ADHESIVE
SAND & POLISH

WOOD FLOOR ARCHITECTURAL DETAIL SAMPLES FROM www.AutoCADDetails.net
Paneling can be applied to wood or metal framing with or without furring. Use furring strips or channels for thermal or acoustic isolation, or to compensate for uneven wall construction.

Use wood or metal furring when installing panels over masonry walls. 1 x 2 wood furring over masonry is typical spaced at 16” vertically and horizontally.

Grades of hardwood plywood paneling:
- Premium and Good: Minimum flaws, for stain finish
- Sound: For paint finish
- Utility: Some visible defects, unmatched, for paint finish
- Backing: Many flaws, not for visible use
- Thicknesses: 1/8” to 1”, in 1/16” or 1/8” layers
- Textures and finishes come in wide variety; see the suppliers’ catalogs

**NOTATION CHECKLIST, SAMPLE NOTES**
- PANEL (MATERIAL & THICKNESS)
- FURRING/BLOCKING (TYPE & SIZE)
- TRIM (TYPE & SIZE)
- ADJACENT MATERIALS
- LINE OF WALL
- LINE OF CEILING
- WALL CONSTRUCTION
- CEILING CONSTRUCTION
- BOOK MATCH VENEER
- SLIP MATCH VENEER
- V MATCH VENEER
- RANDOM MATCH VENEER
- FURRING STRIPS
- BLOCK ALL UNSUPPORTED EDGES
- FILL SPACES BETWEEN FURRING
- RECESSED JOINT
- V JOINT
- BUTT JOINT
- OUTSIDE MITERED CORNER
WOOD PLANTERS/RETAINING WALL

WOOD RETAINING WALL

Battered/Low

Sloped/Low

WOOD RETAINING WALL

Battered/High

DETAIL DATA CHECKLIST

WOOD RETAINING WALLS
- Stack timbers horizontally
- Support and anchor timbers with:
  - Vertical timbers
  - Concrete piers
  - Vertical steel I-beams
  - Tie timbers vertically with min. 2 #4 bars per tie, in 1/2" drilled hole
  - Tie back into slope with 10' o.c. deadman ties
  - Where necessary, use vertical rods at 4' o.c.
- Provide gravel backfill behind filter cloth
- Vertical wood members may be OK for walls up to 4' high, without surcharge, if planted 4' deep

NOTATION CHECKLIST,
SAMPLE NOTES

TOP OF WALL ELEVATION
FINISH GRADES
ORIGINAL GRADE (DASHED)
TIMBER UNITS (TYPE & SIZE)
BOLTS/ANCHORS/DOWELS
STEEL ROD/WOOD TIE BACKS ('DEADMAN')
AGGREGATE DRAIN BED
DRAIN PIPE/DRAIN TILE
COMPACTED SUBGRADE/STRUCTURAL BACKFILL
FOOTING
AGGREGATE BASE
POROUS BACKFILL

WOOD PLANTER/RETAINING WALL

WOOD PLANTER/RETAINING WALL

WOOD PLANTER/RETAINING WALL

WOOD PLANTER/RETAINING WALL
WOOD PLANTERS/RETAINING WALLS

### Detail Data Checklist

**Post and Board Retaining Walls**
- Set posts as deep as the wall is high.
- Walls under 2' high don't require weep holes or drains.
- For low walls, weep holes drilled into wall may be used instead of drains.
- Where drain is needed, run a 6" pipe along back of wall at base.
- Walls over 4' high may have their posts tied back to a concrete deadman with a horizontal rods bolted through.

**Wood Retaining Walls**
- Stack timbers horizontally.
- Support and anchor timbers with:
  - Vertical timbers
  - Concrete piers
  - Vertical steel I-beams
- Tie timbers vertically with min. 2 #4 bars per tie, in 1/2" drilled hole.
- Tie back into slope with 10' o.c. deadman ties.
- Where necessary, use vertical rods at 4' o.c.
- Provide gravel backfill behind filter cloth.
- Vertical wood members may be OK for walls up to 4' high, without surcharge, if planted 4' deep.

### Notation Checklist, Sample Notes

**Top of Wall Elevation**
- Finish Grades
- Original Grade (Dashed)
- Timber Units (Type & Size)
- Bolts/Anchors/Dowels
- Steel Rod/Wood Tie backs ('Deadman')
- Aggregate Drain Bed
- Drain Pipe/Drain Tile
- Compacted Subgrade/Structural Backfill
- Footing
- Aggregate Base
- Porous Backfill

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**Images:**
- Wood Retaining Wall To 2' High
- Wood Retaining Wall 2' to 4' High
- Wood Retaining Wall 4' + High
- Wood Retaining Wall 6x8 Timber/Low

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Samples from www.AutoCADDetails.net
WOOD POST @ BASE  WOOD POST @ BASE

**DETAIL DATA CHECKLIST**

POST AND BEAM CONSTRUCTION

- **BASE CONNECTORS FOR WOOD POSTS**
  - Wood post nominal and actual sizes
  - 4 x 4 = 3-1/2" x 3-1/2"
  - 6 x 6 = 5-1/2" x 5-1/2"
  - 8 x 8 = 7-1/2" x 7-1/2"
- **Base types:**
  - Base plate with side plates
  - Precast metal shoe plate
  - U plate embedded in concrete
  - H plate embedded in concrete
  - Provide approx. 3/4" leveling grout under base plate on concrete slabs or footings
- **Embed 1/2" anchor bolts with hook ends into concrete slab or footing**
- **Use galvanized steel connectors**
- **Size and number of bolts, nails, and other connectors as required by engineering calculations**
- **Match the fitted base support size to wood post size**
- **Don't use oversized base connectors and try to compensate with wood wedges or shims**

**NOTATION CHECKLIST, SAMPLE NOTES**

- X WOOD POST
- STEEL BASE
- WEEP HOLES
- BOLTS TO SLAB
- CONCRETE SLAB
- CONCRETE FOOTING
- CONCRETE PEDESTAL
- SLOPE TOP OF FOOTING TO DRAIN
- STEEL PIN
- MOISTURE BARRIER
- TOP OF FLOOR SLAB
- ELEVATION
- WELDED STEEL BASE PLATE
- ANCHOR BEARING PLATE
- STEEL U-STRAP
DETAIL DATA CHECKLIST
POST AND BEAM CONSTRUCTION
WOOD POST AND BEAM CONNECTORS
- Connector types:
  - Nailed metal side plates
  - Bolted metal side plates
- Sizes and spaces of bolts as per code or engineering calculations
- U plate connector, nailed or bolted as required by engineering calculations or manufacturer's tables
- Steel metal connector, sized and nailed as required by engineering calculations or manufacturer's tables

NOTATION CHECKLIST,
SAMPLE NOTES
- X WOOD BEAM
- X WOOD POST
- STEEL POST CAP
- BOLT/NAI L CONNECTORS
- STEEL STRAP TIE
- CROSS RAFTERS
- BOLTS
- HOLES FOR BOLTS
- STEEL PLATE
- FULL WELD BOTH CORNERS
- MACHINE BOLTS W/ COUNTERSUNK HEADS & NUTS, HOLES PLUGGED
- SPLICE PLATE
- BEAM HANGER
WOOD POST @ BEAM

DETAIL DATA CHECKLIST
POST AND BEAM CONSTRUCTION
WOOD POST AND BEAM CONNECTORS
Connector types:
- Nailed metal side plates
- For light framing with minimal lateral forces
- Bolted metal side plates
- Sizes and spaces of bolts as per code or engineering calculations
- U plate connector, nailed or bolted as required by engineering calculations or manufacturer's tables
- Sheet metal connector, sized and nailed as required by engineering calculations or manufacturer's tables

NOTATION CHECKLIST,
SAMPLE NOTES

X WOOD BEAM
X WOOD POST
STEEL POST CAP
BOLT/NAIL CONNECTORS
STEEL STRAP TIE
CROSS RAFTERS
BOLTS
HOLES FOR BOLTS
STEEL PLATE
FULL WELD BOTH CORNERS
MACHINE BOLTS W/COUNTERSUNK HEADS
& NUTS, HOLES PLUGGED
SPICE PLATE
BEAM HANGER
WOOD SHELVING

NOTATION CHECKLIST, SAMPLE NOTES

FINISH SURFACE
PLYWOOD/PARTICLE BOARDS
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
SHELF (MATERIAL, SIZE & FINISH)
POLE (MATERIAL & SIZE)
POLE SUPPORT BRACKET
BLOCKING (MATERIAL & SIZE)
WALL MATERIAL

WOOD SHELVING

2 X 4 CONT. FRAME INTO SIDE WALLS
3/4" CORE MATERIAL, TOP & FRONT
SOLID BLOCKING BEHIND SHELF
PLASTIC LAMINATE TOP, EDGES, FRONT, SELF EDGE
FACE OF WALL
CHROME ROD
SHELF & ROOD BRACKET MAX. SPACING @ 4'-0"
5'-0" ABOVE FINISHED FLOOR

SAMPLE NOTES

SHELF Fixed
SHELF Counter
WARDROBE POLE & SHELF
WARDROBE POLE & SHELF
WOOD SHELVING, BASE CABINET

STANDING SHELVES Fixed

STANDING SHELVES Adjustable

TYPICAL BASE CABINET & DRAWER

NOTATION CHECKLIST, SAMPLE NOTES

FINISH SURFACE
PLYWOOD/PARTICLE BOARDS
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER
SHELF (MATERIAL, SIZE & FINISH)
BLOCKING (MATERIAL & SIZE)
WALL MATERIAL

2 X 4 CONT. FRAME INTO SIDE WALLS
3/4" CORE MATERIAL, TOP & FRONT
SOLID BLOCKING BEHIND SHELF
PLASTIC LAMINATE TOP, EDGES, FRONT, SELF EDGE
FACE OF WALL
CHROME ROD
SHELF & ROD BRACKET MAX. SPACING @ 4'-0"
5'-0" ABOVE FINISHED FLOOR

Samples from www.AutoCADDetails.net
WOOD SLIDING GLASS DOORS AND WINDOWS

**Wood Sliding. Glass Door -- Single Glazed**

- HEAD 3" = 1'-0"
- JAMB 3" = 1'-0"
- SILL 3" = 1'-0"

**Wood Sliding. Glass Door -- Double Glazed**

- HEAD 3" = 1'-0"
- JAMB 3" = 1'-0"
- SILL 3" = 1'-0"

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**Detail Data Checklist**

Wood Sliding Glass Doors & Windows

Note: You can combine these generic window details with varied exterior wall construction details to create many hundreds of possible special combinations.

- Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.
- See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.
- Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

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**Notation Checklist**

- Wall Construction
- Shim Space
- Drip Cap/Weatherstripping/Flashing
- Caulking/GROUT
- Finish Heads/Sill/Jambs
- Window Type, Material & Finish
- Hardware/Operator
- Vent/WEEP Hole/WIND Guard

**Sample Notes**

- Glazing: Single/Double/Removable
- Screen/Screen Frame
- Casing/Trim/Adjacent Finish
- Rough Opening/Finish Opening

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Samples from www.AutoCADDetails.net
WOOD SLIDING WINDOWS

Wood Sliding -- Single Glazed

Wood Sliding -- Double Glazed

DETAIL DATA CHECKLIST

WOOD SLIDING WINDOWS

Note: You can combine these generic window details with varied exterior wall construction details in this book to create many hundreds of possible special combinations. Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction. See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes. Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction. Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space). Details should show flashing and caulking at heads, jambs, and sills. See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST

SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEENEP MOLE/WIND GUARD
GLAZING: SINGLE/DUOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING
SLIDING WOOD WINDOW
WOOD WINDOW
WOOD STOP, 1/2" X 1"

Samples from www.AutoCADDetails.net

2 X WOOD NAILER
1/4" GLASS
3/4" JAMBS
FLASHING, UP 8" MIN.
WOOD CASING
2" WOOD DRIP
WOOD STOOL
WOOD HEADER
WOOD FASCIA
WOOD TRIM
INTERIOR CASING
GYPSUM WALLBOARD
EYE HOOK W/EYE SCREW
SCREEN MOLDING
WOOD STAIRS

DETAIL DATA CHECKLIST

WOOD STAIRS
Stairs may be shop built and installed as a unit. Use the design and construction standards of Architectural Woodwork Institute.

Rules of thumb:
- Provide landing at every 15 risers maximum
- Stair angle of 30 to 35 degrees is most comfortable
- Treads and risers must not vary in size over 1/8" or they'll cause accidents
- Minimum riser size is 7 to 7-1/2" with optimal tread of 9-1/2" to 10-1/2"
- Minimum residential stair width is 36", 44" to 48" preferred

Handrails:
- Height: 30" to 34"
- Balcony or landing guardrail: 42"
- Handrail or guardrail stiles: 6" minimum spacing
- Turn end of handrail into newel post, to floor or to wall
- Wood tread and risers, use minimum 3/4" actual thickness
- Attach wood treads and risers with screw connections and glue to prevent movement and squeaks

Wood stringers are usually cut from 2 x 12
- Two side stringers are mandatory and one center stringer recommended
- Provide fire blocking across stringer in closed riser with exposed soffit

NOTATION CHECKLIST
SAMPLE NOTES
TREADS & RISERS
- E A S T E R N E S S
- STRINGER (TYPE & SIZE)
- BLOCKING
- PURFLING / SOFIT
- 3/4" PLYWOOD TREADS & RISERS
- 2 X 12 TREAD
- 1 X 8 RISER
- RESILIENT SQUARE SAFETY NOSE
- 3/4 X 3/4 QUARTER ROUND MOULDING
- 2 X 12 STRINGERS, 1 @ CENTERLINE & 2 @ EA. SIDE
- 2 X 12 STRINGERS
- STRINGS FROM 2 X 12" @ 16" O.C.
- OAK BASE, OAK TREAD

Samples from www.AutoCADDetails.net
**WOOD STEPS (LANDSCAPING)**

**DETAIL DATA CHECKLIST**

**WOOD STEPS**
- Treated lumber or redwood
- Nail wood treads and risers together with galvanized nails
- Anchor heavy timbers or railroad ties into compacted grade with steel rods
  - 3/4" to 1" round, 24" to 36" long steel rods set 12" from each end
- No single riser allowed in any run of walkway or ramp (use 3 minimum risers in any group)

**WOOD CURBS**
- Use redwood, cedar, cypress or treated wood
- Sizes:
  - 2x6, 2x8, 6x6, 6x8, and railroad ties
- Hold wood curbs in place with wood stakes, rebar or bolts
  - Stakes may be 1x2, 2x2, 2x3, or 2x4, 16" to 24" long, 24" to 48" o.c., and/or at ends of timbers
  - Use 2 20d nails per stake
  - For rebar, use a #4 bar, 18" long at each end of timber
  - Form a pocket around the bar and fill it with concrete

**NOTATION CHECKLIST, SAMPLE NOTES**

FINISH GRADE/PAVING/PLANTING BED
WOOD CURB/PAVING EDGE
PAVING BASE
SUBGRADE
STAKES (MATERIAL, SIZE & SPACING)