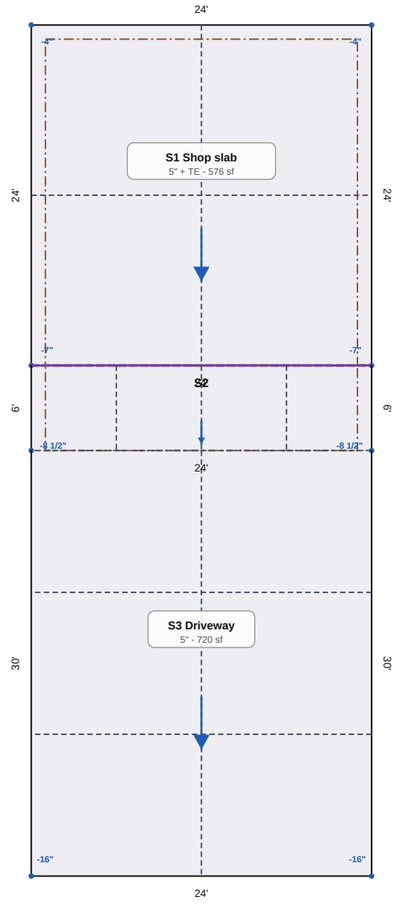



TRUCK

N

## 1 SITE PLAN: SLABS, JOINTS & GRADES

SCALE: 3/32" = 1'-0"

0 10'

**SECTIONS & DETAILS: SLABS AND JOINTS ON C-3**

- Formed edge
- Control joint
- Isolation joint (house, walls, existing)
- Thickened edge (inside line)
- Cold joint, dowelled
- Fall arrow; spot heights in in. from the house floor

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

NOTICE

**FOR ESTIMATING AND LAYOUT ONLY.**
Not an engineered design. Code figures are defaults: verify with the building department. Verify dimensions and grades in the field.

REVISIONS

| REV | DATE | DESCRIPTION |
|---|---|---|
| 0 | 10/26/2026 | Issued for review |
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| | | |

DATE
**10/26/2026**

SCALE
**3/32" = 1'-0"**

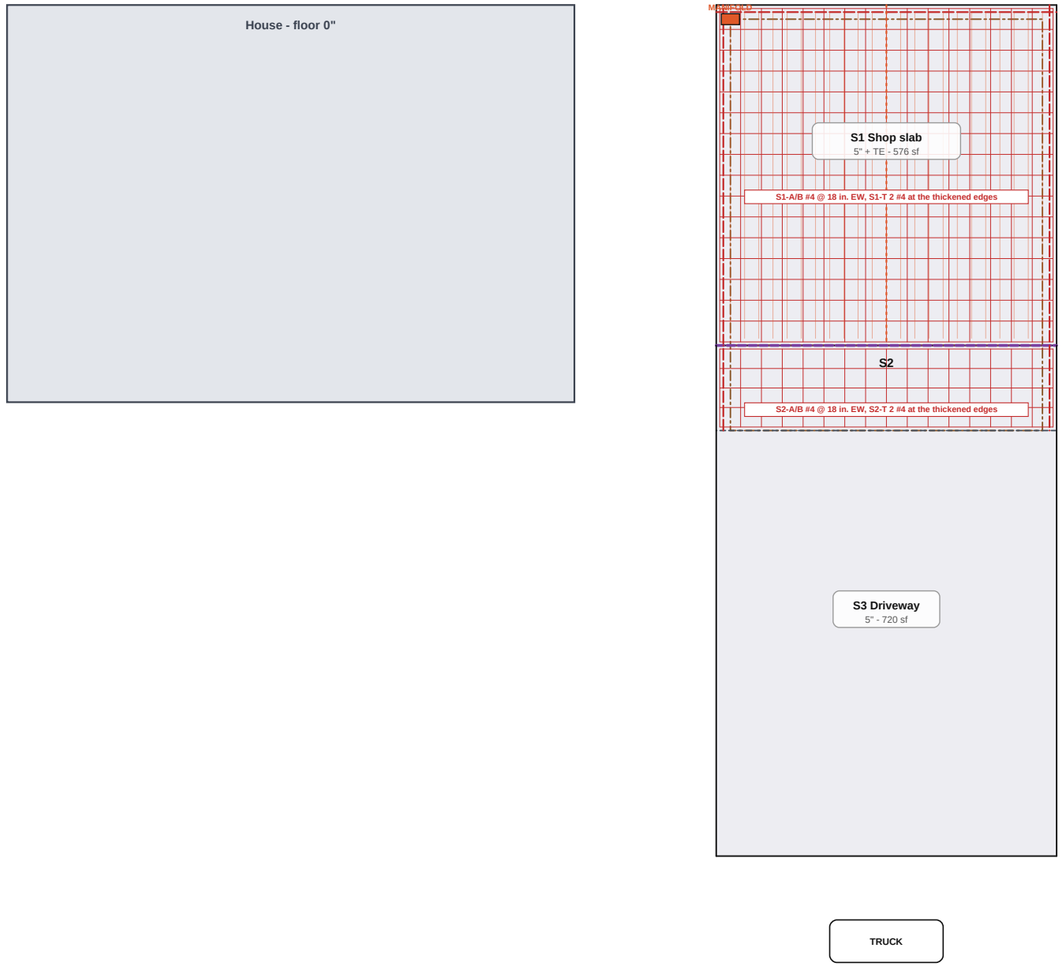
DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

SHEET TITLE
**SITE PLAN: SLABS, JOINTS & GRADES**

# C-1

SHEET 1 OF 8




N

Slab grid bars (each way, on chairs)

Thickened-edge and footing bars, continuous with laps

PEX

## 2 REBAR PLACEMENT PLAN

SCALE: 3/32" = 1'-0"

0 10'

**SECTIONS & DETAILS: SLABS AND FOOTINGS ON C-3**

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

NOTICE

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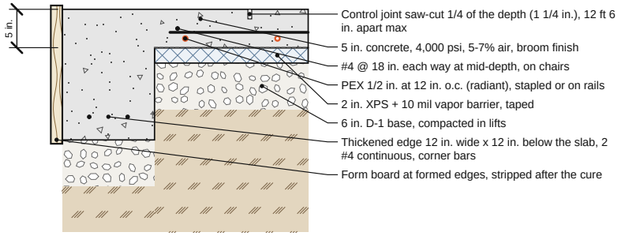
SCALE
**3/32" = 1'-0"**

DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

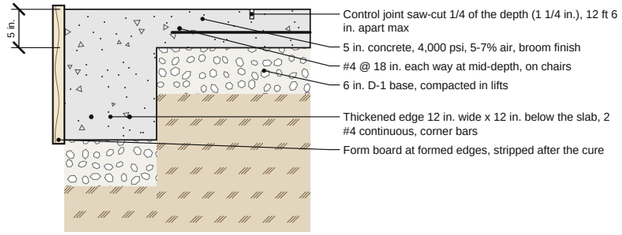
SHEET TITLE
**REBAR PLACEMENT PLAN**

# C-2



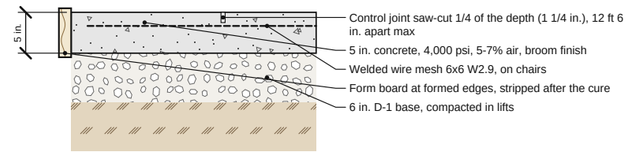

**1 SLAB SECTION: S1** NTS

REF: ACI 302.1R / ACI 332 (joint depth and spacing)



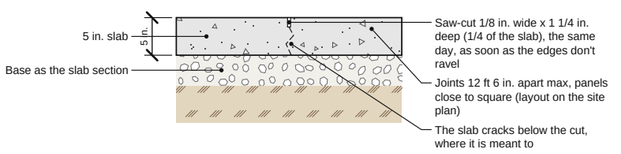

**2 SLAB SECTION: S2** NTS

REF: ACI 302.1R / ACI 332 (joint depth and spacing)



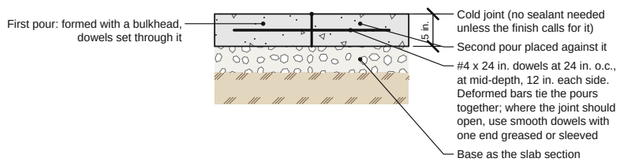

**3 SLAB SECTION: S3** NTS

REF: ACI 302.1R / ACI 332 (joint depth and spacing)




**4 CONTROL JOINT: S1, S2, S3** NTS

REF: ACI 302.1R / ACI 332 (joint depth and spacing)




**5 DOWELLED COLD JOINT: S2** NTS

**Typical detail, not to scale. Not an engineered design: verify with your building department and the manufacturer's installation instructions.**

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

NOTICE

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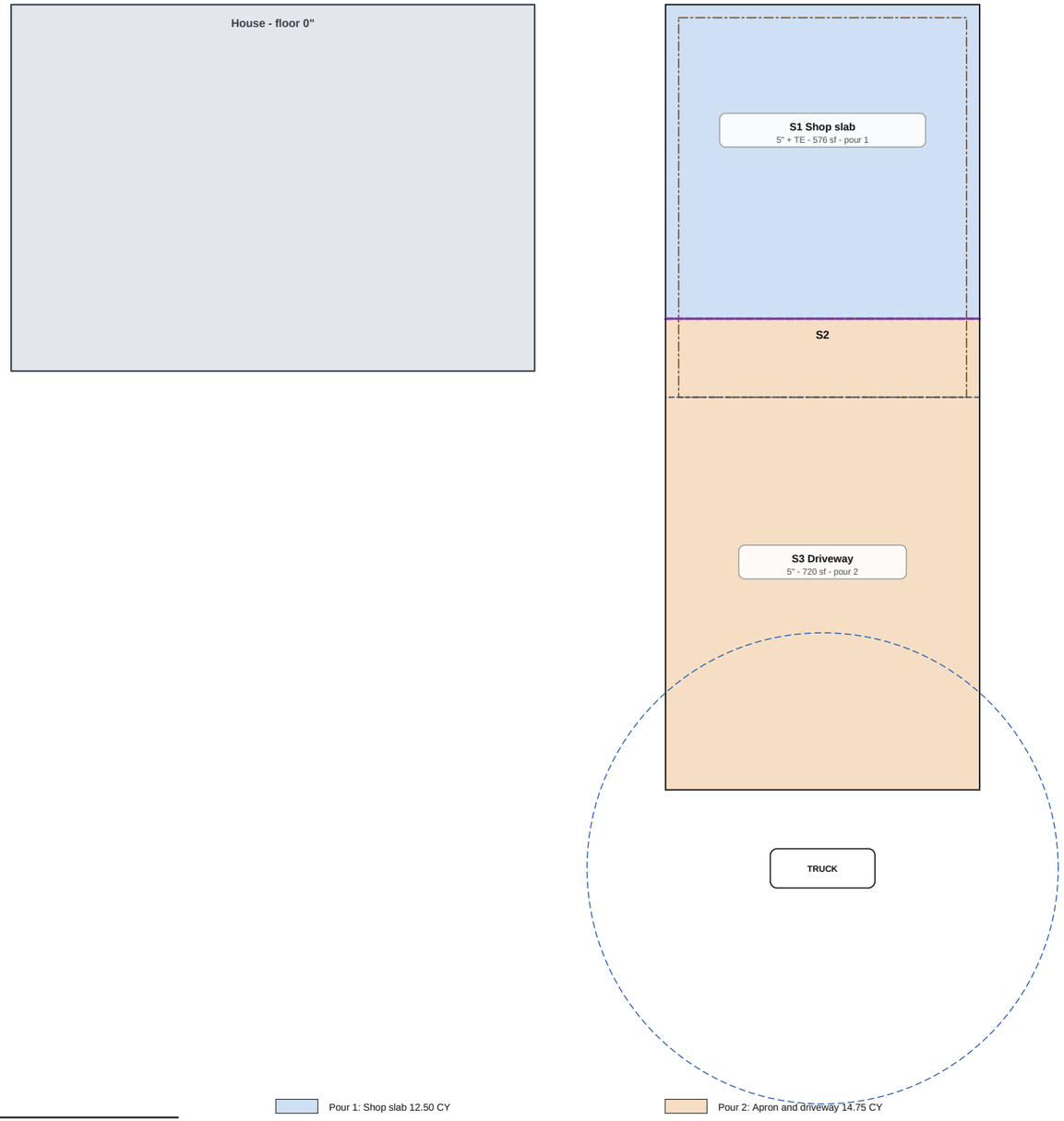
SCALE
**NTS**

DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

SHEET TITLE
**SECTIONS & DETAILS**

# C-3




N

Pour 1: Shop slab 12.50 CY

Pour 2: Apron and driveway 14.75 CY

## 4 POUR PLAN

SCALE: 3/32" = 1'-0"

0 10'

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

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REVISIONS

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| | | |

DATE
**10/26/2026**

SCALE
**3/32" = 1'-0"**

DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

SHEET TITLE
**POUR PLAN**

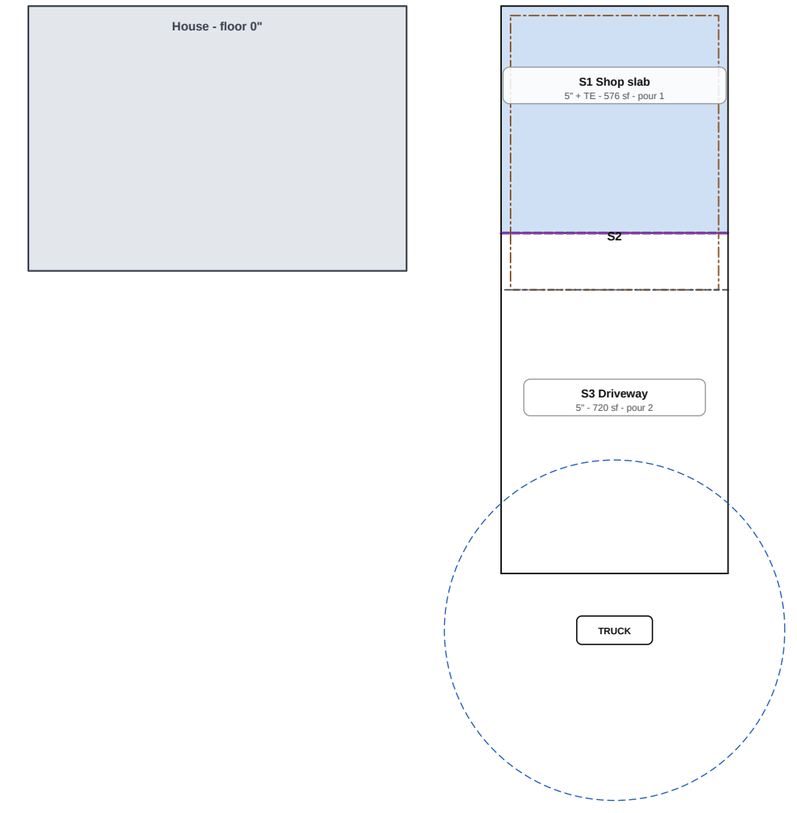
# C-4

# READY-MIX ORDER: POUR 1 OF 2

## Shop slab - 12.50 CY

| | |
|---|---|
| POUR | 1 of 2: Shop slab |
| WHAT | S1 Shop slab 11.48 CY |
| JOB | Shop slab, apron and driveway |
| DELIVER TO | - |
| DATE AND TIME | (set the day) |
| ORDER | **12.50 CY (11.48 CY in place + 7% waste, rounded up to the 1/4 CY)** |
| TRUCKS | 2 x 10 CY trucks: 10.00 + 2.50 CY, about 25 min apart |
| MIX | **4,000 psi at 28 days, 5 in. slump, 5-7% air entrained (freeze-thaw), 3/8 in. (pea gravel pump mix) aggregate** |
| ADMIXTURES | hot water |
| PLACEMENT | Pump: farthest point 67.1 ft from the truck (K1) |
| CREW | about 14.4 crew-hours to place and finish (4 people: about 3.6 h) |
| COLD WEATHER | hot water; blankets on hand for cold nights |
| NOTES | - |
| ORDERED BY | - |

Confirm the mix, slump and admixtures with your plant. Code figures are defaults to verify.




1 **POUR 1 (SHADED)**

SCALE: 1/16" = 1'-0"

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

NOTICE

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REVISIONS

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|---|---|---|
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| | | |
| | | |

DATE
**10/26/2026**

SCALE
**1/16" = 1'-0"**

DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

SHEET TITLE

**READY-MIX ORDER: POUR 1**

# C-5

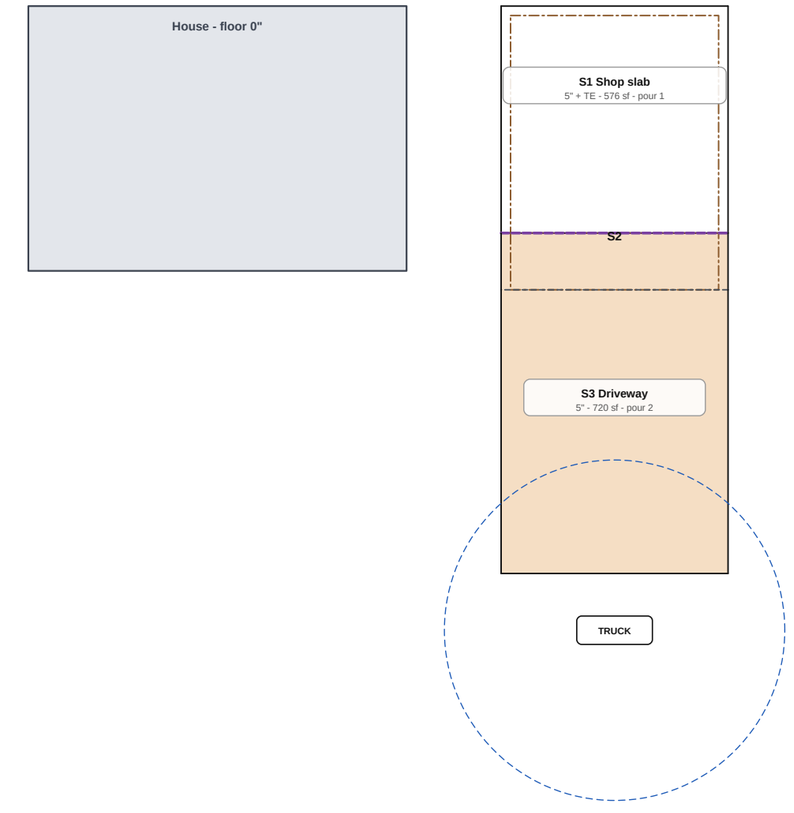
SHEET 5 OF 8

# READY-MIX ORDER: POUR 2 OF 2

## Apron and driveway - 14.75 CY

| | |
|---|---|
| POUR | 2 of 2: Apron and driveway |
| WHAT | S2 Apron 2.67 CY; S3 Driveway 11.11 CY |
| JOB | Shop slab, apron and driveway |
| DELIVER TO | - |
| DATE AND TIME | (set the day) |
| ORDER | **14.75 CY (13.78 CY in place + 7% waste, rounded up to the 1/4 CY)** |
| TRUCKS | 2 x 10 CY trucks: 10.00 + 4.75 CY, about 25 min apart |
| MIX | **4,000 psi at 28 days, 5 in. slump, 5-7% air entrained (freeze-thaw), 3/8 in. (pea gravel pump mix) aggregate** |
| ADMIXTURES | hot water |
| PLACEMENT | Pump: farthest point 43.7 ft from the truck (K1) |
| CREW | about 21.6 crew-hours to place and finish (4 people: about 5.4 h) |
| COLD WEATHER | hot water; blankets on hand for cold nights |
| NOTES | - |
| ORDERED BY | - |

Confirm the mix, slump and admixtures with your plant. Code figures are defaults to verify.




1 **POUR 2 (SHADED)**

SCALE: 1/16" = 1'-0"

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

NOTICE

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| | | |

DATE
**10/26/2026**

SCALE
**1/16" = 1'-0"**

DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

SHEET TITLE
**READY-MIX ORDER: POUR 2**

# C-6

# SCHEDULES & BAR LIST

| TAG | SLAB | TYPE | AREA | THICK | CONCRETE | BASE | FORMS | JOINTS | ISOLATION | FINISH | REINFORCING | POUR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SLABS & FLATWORK (CONCRETE IN PLACE, THICKENED EDGES INCLUDED; BASE COMPACTED)** | | | | | | | | | | | | |
| **S1** | Shop slab | Garage / shop slab | 576 sf | 5 in. + 12x12 TE | 11.48 CY | 13.33 CY | 96 LF | 48 LF | 0 LF | Broom | #4 @ 18 in. | 1 |
| **S2** | Apron | Driveway | 144 sf | 5 in. + 12x12 TE | 2.67 CY | 3.33 CY | 12 LF | 42 LF | 0 LF | Broom | #4 @ 18 in. | 2 |
| **S3** | Driveway | Driveway | 720 sf | 5 in. | 11.11 CY | 16.67 CY | 84 LF | 78 LF | 0 LF | Broom | Wire mesh | 2 |
| | TOTAL | | 1,440 sf | | 25.26 CY | 33.33 CY | 192 LF | 168 LF | 0 LF | | | |

**JOINTS**

| TAG | SLAB | JOINTS | MAX APART | PANELS | CONTROL | ISOLATION | DOWELLED | SAW-CUT OLD |
|---|---|---|---|---|---|---|---|---|
| **S1** | Shop slab | Saw-cut | 12' 6" | 12' x 12' max | 48 LF | 0 LF | 0 LF | 0 LF |
| **S2** | Apron | Saw-cut | 12' 6" | 6' x 6' max | 42 LF | 0 LF | 24 LF | 0 LF |
| **S3** | Driveway | Saw-cut | 12' 6" | 10' x 12' max | 78 LF | 0 LF | 0 LF | 0 LF |

**POURS & READY-MIX (ORDER = IN PLACE + 7% WASTE, UP TO THE 1/4 CY)**

| # | POUR | WHAT | IN PLACE | ORDER | TRUCKS | MIX | PLACEMENT | CREW |
|---|---|---|---|---|---|---|---|---|
| **1** | Shop slab | S1 | 11.48 CY | 12.50 CY | 2 | 4,000 psi, 5 in. slump, 5-7% air, 3/8 in. (pea gravel pump mix) rock, hot water | Pump (67.1 ft) | 14.4 h |
| **2** | Apron and driveway | S2, S3 | 13.78 CY | 14.75 CY | 2 | 4,000 psi, 5 in. slump, 5-7% air, 3/8 in. (pea gravel pump mix) rock, hot water | Pump (43.7 ft) | 21.6 h |
| | TOTAL | | 25.26 CY | 27.25 CY | 4 | | | 36 h |

**RADIANT & SNOWMELT PEX 1/2 IN. (LOOPS 300 FT MAX WITH LEADERS)**

| TAG | SLAB | USE | SPACING | IN THE SLAB | LOOPS | EACH LOOP | TOTAL | MANIFOLDS |
|---|---|---|---|---|---|---|---|---|
| **S1** | Shop slab | Radiant floor | 12 in. | 576 LF | 2 | 294 ft | 588 LF | 1 |

**BAR SCHEDULE: CUT LENGTHS, LAPS 40 BAR DIAMETERS, 20 FT STOCK, COVER 3 IN.**

| MARK | SIZE | QTY | LENGTH | BEND | LAP | LF | LB | WHERE |
|---|---|---|---|---|---|---|---|---|
| **S1-A** | #4 | 17 | 20'-0" | Straight | 20 in. | 340 LF | 227.1 lb | S1 Shop slab |
| **S1-A** | #4 | 17 | 5'-2" | Straight | 20 in. | 87.8 LF | 58.7 lb | S1 Shop slab |
| **S1-B** | #4 | 17 | 20'-0" | Straight | 20 in. | 340 LF | 227.1 lb | S1 Shop slab |
| **S1-B** | #4 | 17 | 5'-2" | Straight | 20 in. | 87.8 LF | 58.7 lb | S1 Shop slab |
| **S1-T** | #4 | 6 | 20'-0" | Straight | 20 in. | 120 LF | 80.2 lb | S1 Shop slab |
| **S1-T** | #4 | 2 | 5'-8" | Straight | 20 in. | 11.3 LF | 7.6 lb | S1 Shop slab |
| **S1-T** | #4 | 4 | 5'-5" | Straight | 20 in. | 21.7 LF | 14.5 lb | S1 Shop slab |
| **S1-TC** | #4 | 4 | 3'-4" | Corner 20 x 20 in. | - | 13.3 LF | 8.9 lb | S1 Shop slab |
| **S2-A** | #4 | 5 | 20'-0" | Straight | 20 in. | 100 LF | 66.8 lb | S2 Apron |
| **S2-A** | #4 | 5 | 5'-2" | Straight | 20 in. | 25.8 LF | 17.3 lb | S2 Apron |
| **S2-B** | #4 | 17 | 5'-6" | Straight | - | 93.5 LF | 62.5 lb | S2 Apron |
| **S2-T** | #4 | 4 | 5'-6" | Straight | - | 22 LF | 14.7 lb | S2 Apron |

**STOCK BARS TO ORDER**

| SIZE | STOCK | BARS | PIECES | LF | LB |
|---|---|---|---|---|---|
| **#4** | 20 ft | 67 bars | 115 pieces | 1,263.3 LF | 844 lb |
| **TOTAL** | | | | 1,263.3 LF | 844 lb |

**BUY LIST**

| GROUP | ITEM | QTY | PRICE | EXTENDED | NOTE |
|---|---|---|---|---|---|
| Ready-mix | **Ready-mix, Shop slab: 4,000 psi, 5-7% air** | 12.5 CY | | | 11.48 CY in place + 7% waste, up to the 1/4 CY; 2 trucks (10.00 + 2.50) |
| Ready-mix | **Concrete pump, Shop slab** | 1 pour | | | farthest point 67.1 ft from the truck |
| Ready-mix | **Ready-mix, Apron and driveway: 4,000 psi, 5-7% air** | 14.75 CY | | | 13.78 CY in place + 7% waste, up to the 1/4 CY; 2 trucks (10.00 + 4.75) |
| Ready-mix | **Concrete pump, Apron and driveway** | 1 pour | | | farthest point 43.7 ft from the truck |
| Ready-mix | **Hot water (plant add)** | 27.25 CY | | | Shop slab, Apron and driveway |
| Base & under the slab | **Base gravel (D-1 / crushed), compacted** | 33.3 CY | | | S1 6", S2 6", S3 6" deep; x 1.25 for compaction |
| Base & under the slab | **Vapor barrier 10 mil (20 x 100 ft rolls)** | 1 rolls | | | 576 sf + 10% laps, seams taped |
| Base & under the slab | **Rigid insulation under the slab, 2 in. XPS (4 x 8 sheets)** | 19 sheets | | | 576 sf + 5% |
| Forms & joints | **Form boards 2x6, 12 ft** | 18 pcs | | | 192 LF of slab edges + 10% |
| Forms & joints | **Form stakes (one per 3 ft)** | 64 each | | | 192 LF of forms |
| Forms & joints | **Dowels #4 x 24 in. at 24 in. o.c.** | 12 each | | | 24 LF of cold joints and joints into existing concrete |
| Rebar & accessories | **#4 rebar, 20 ft bars** | 67 bars | | | 1,263.3 LF in the bar list (laps included), 844 lb; 115 pieces cut from 67 bars, 76.7 LF off-cuts |
| Rebar & accessories | **Rebar chairs for the slab grid** | 80 each | | | about one every 36" each way |
| Rebar & accessories | **Tie wire (3 1/2 lb coils)** | 2 coils | | | about one coil per 600 lb of bar |
| Rebar & accessories | **Welded wire mesh 6x6 W2.9xW2.9 (8 x 20 ft sheets)** | 6 sheets | | | 720 sf + 15% laps; on chairs |
| Radiant | **PEX 1/2 in. oxygen barrier (1000 ft coils)** | 1 coils | | | 588 LF: S1 2 loops of 294 ft; a loop is one piece |
| Radiant | **Radiant manifold (up to 8 loops)** | 1 each | | | tied in by the heating contractor |
| Radiant | **PEX staples or rails (one per 2 ft)** | 294 each | | | |
| Finishing & curing | **Cure & seal (5 gal pails, about 300 sf a gallon)** | 1 pails | | | 1,440 sf of flatwork |

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

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DATE
**10/26/2026**

SCALE
**NTS**

DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

SHEET TITLE
**SCHEDULES & BAR LIST**

**C-7**

SHEET 7 OF 8

## GENERAL NOTES

1. Verify all dimensions, elevations and existing conditions in the field. Call 811 at least 2 business days before digging.
2. Concrete: strength, slump and air per the pour schedule. Exterior concrete air-entrained 5 to 7% for freeze-thaw. No concrete on frozen ground or base. Cure 7 days; no deicing salt the first winter.
3. Base: compacted gravel (D-1) in lifts to the depths shown over firm subgrade; soft spots dug out and replaced.
4. Control joints 1/4 of the slab depth, saw-cut within 4 to 12 hours or tooled. Isolation joints (1/2 in.) at the house, walls, posts and existing concrete. Cold joints dowelled as shown.
5. Rebar: grade 60 per the bar list; laps 40 bar diameters; 3 in. cover against earth; slab bars on chairs; corner bars at footing and wall corners.
6. Footings: bottom at or below the frost depth shown (Anchorage default 42 in.) or frost-protected per IRC R403.3. Anchor bolts 1/2 x 10 in., 7 in. into the concrete, 12 in. from plate ends, 6 ft o.c. max.
7. Code figures here are defaults to verify with the building department. Not an engineered design: where an engineered design is required, it governs.
8. Design: 1,440 sf of flatwork in 3 slabs (25.26 CY incl. thickened edges); joints 168 LF, isolation 0 LF; 2 pours, 25.26 CY in place, 27.25 CY ordered: 1 Shop slab 12.50 CY 4,000 psi 5-7% air pump; 2 Apron and driveway 14.75 CY 4,000 psi 5-7% air pump; rebar 844 lb (67 #4 x 20 ft, laps 40 bar diameters); radiant PEX 588 LF, 1 manifold. Checks: none open. Code figures are defaults to verify with the building department; not an engineered design.

PREPARED BY

PROJECT

**Shop slab, apron and driveway**

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| | | |

DATE
**10/26/2026**

SCALE
**NTS**

DRAWN BY

SHEET SIZE
**ANSI B (11" x 17")**

SHEET TITLE
**NOTES**

# C-8

SHEET 8 OF 8