These drawings are sufficiently complete for submission to the jurisdiction having authority for permit. The Contractor shall not use these drawings for construction until Contractor receives written approval for use in construction by the jurisdiction having authority and DCI Engineers.

For Permit

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Civil / Structural
707 W 2nd Avenue
Spokane, Washington 99201
P: (509) 455-4448

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Sheet

Date

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Proj. No.

Alsc Architects, P.S.

Design

Construction

Permit Set

Rev Date Description

Structural
General Notes

Amistad
Elementary
Kennewick
SD

Permit Set

Kennewick SD

Structural

Permit Set

Kennewick SD

Steel Stairs

©

Page 1 of 1

S-002

METAL ROOF AND FLOOR DECK


Steel Stairs


Kennewick SD

Permit Set

Kennewick SD

Steel Stairs


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Steel Stairs

SPECIAL INSPECTIONS

The following table indicates the special inspections on the Special Inspections Sheet that will be performed by DCI. Special inspectors shall review these plans and BC Codes 17.2 for all special inspections required by the project documents. The construction documents indicate that special inspections may be necessary in certain areas of the project. Only the special inspections listed are necessary. Any special inspections not listed are the responsibility of the Contractor to perform at their cost.

1. These inspections are intended to determine that the work is performed in accordance with the plans and specifications. The Contractor shall have access to the test records and to the raw test materials for review by the Special Inspectors. The Contractor shall not use the material without written approval by the Special Inspectors.

2. The Plans and Specifications indicate that special inspection is required for the following items:

   - Concrete Construction
   - Steel Construction
   - Structural Special Inspection

SCHEDULES OF SPECIAL INSPECTIONS:

<table>
<thead>
<tr>
<th>Type</th>
<th>Special Inspections and Tests of Soils</th>
<th>Special Inspections and Tests of Concrete Construction</th>
<th>Special Inspections and Tests of Structural Steel Construction</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

GENERAL NOTES

- All work shall be in accordance with the plans and specifications.
- The Contractor shall ensure that all work is performed in a satisfactory manner.
- The Contractor shall provide all necessary labor, materials, and equipment for the project.
- The Contractor shall be responsible for all work performed on the project.
- The Contractor shall be responsible for all permits required for the project.
- The Contractor shall be responsible for all necessary inspections and testing.
- The Contractor shall be responsible for all necessary certification and approvals from the appropriate authorities.
- The Contractor shall be responsible for all necessary documentation and record keeping.
- The Contractor shall be responsible for all necessary site safety and OSHA compliance.
- The Contractor shall be responsible for all necessary project management and coordination.
- The Contractor shall be responsible for all necessary project closeout and final reports.
- The Contractor shall be responsible for all necessary project archives and records.
- The Contractor shall be responsible for all necessary project warranties and guarantees.
- The Contractor shall be responsible for all necessary project legal and contract compliance.
- The Contractor shall be responsible for all necessary project risk management and insurance.
- The Contractor shall be responsible for all necessary project financial and accounting.
- The Contractor shall be responsible for all necessary project technical and design.
- The Contractor shall be responsible for all necessary project quality control and assurance.
- The Contractor shall be responsible for all necessary project environmental and sustainability.
- The Contractor shall be responsible for all necessary project community and stakeholder engagement.
- The Contractor shall be responsible for all necessary project community and social responsibility.
- The Contractor shall be responsible for all necessary project community and public relations.
- The Contractor shall be responsible for all necessary project community and public involvement.
- The Contractor shall be responsible for all necessary project community and public outreach.
- The Contractor shall be responsible for all necessary project community and public advocacy.
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- The Contractor shall be responsible for all necessary project community and public engagement.
1. STRUCTURAL NOTES, CROSS-SECTION, AMB. REINFORCING & SLAB COURSES (CONT.).
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECT'S DRAWINGS.
3. VERIFY ALL MECHANICAL UNITS. NOT ALL UNITS OR PENETRATIONS HAVE BEEN SHOWN. CONTRACTOR TO REFERENCE AS DESIGNATED ON PLAN.
4. ROOF TRUSS/JOIST SUPPLIER IS RESPONSIBLE FOR ADDITIONAL FRAMING REQUIRED ELECTRICAL, PLUMBING AND SPRINKLER LOADS. SPECIAL TRUSS SHAPES AND OPENING REQUIREMENTS ARE ADDITIONAL LOADING REQUIREMENTS PER PLAN AND GENERAL NOTES. CONTRACTOR TO PROVIDE THE JOIST SUPPLIER WITH A PLAN AND ARMS TO MECHANICAL, PLUMBING, AND ELECTRICAL CONTRACTORS.
5. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. WALLS TO BE GROUTED AT REINFORCING BARS OR STAPLES.
6. METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES.
7. PROVIDE REINFORCING AS SHOWN IN PLAN AND DETAILS.
8. TYPICAL FLOOR DECK OVERHANG TO BE 4" FROM BEAM CENTERLINE, UNLESS OTHERWISE SPECIFIED.
9. PROVIDE BLKG OVER ARCH (20 PSF MAX) OVER 2" GRAVEL BALLAST PER PLAN.
10. HSS7x7x3/16 AT SILL T/STL = 10'-9" (HEAD).
12. TYPICAL COMPOSITE BEAM SHEAR STUD LAYOUT 1/S-501.
13. LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING AND SLAB INTERFACE WITH CONCRETE CMU.
14. STEEL STAIRS SHALL BE BIDDER-DESIGNED.
15. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. WALLS TO BE GROUTED AT REINFORCING BARS OR STAPLES.
16. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
5. METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES.

ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL PENETRATIONS AND DRAWINGS.

BRACE BOT FLANGE OF BEAM PER 11/S-501 @ 7'-0"OC 17'-7 3/8"

S-502 TYPICAL SINGLE SHEAR PLATE (SINGLE ROW) CONNECTIONS
6/S-502 TYPICAL HSS BEAM CONNECTIONS
3/S-502 SKEWED BOLTED BEAM CONNECTION

TYP SCREEN 51'-4 1/2"

CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.

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

S-301

1/18/18

PROJ. NO.

PERMIT SET - 150

CIVIL / STRUCTURAL

AMISTAD ELEMENTARY

KENNEWICK SD

ROOF LEVEL FRAMING PLAN - AREA 100

AREA KEYPLAN

S-150

1/18/18

PROF. NO.

ORIGIN

DRAWN

CHECKED

DATE

AMC ARCHITECTS
ROOF FRAMING PLAN NOTES:

10. REFER TO 8/S-501 AND 10/S-501 FOR REINFORCING REQUIREMENTS AT ALL DECK PENETRATIONS AS WELL AS AT ROOF JOISTS.

9. ROOF JOISTS ARE TO BE REVIEWED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS AND PIPING.

8. ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 7PSF (ASD).

5. METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES.

4. INDICATES TOP OF STEEL (T/STL) ELEVATION T/STL = B/DECK UNO; AT GIRDERS SUPPORTING SUPPLIER WITH A DRAWING SHOWING THE LOCATION AND SUPPORT CONDITIONS FOR ALL MECHANICAL, DRAWINGS.

T/STL = X'-X" 1 1/2"DPx20GA (B) PER PLAN NOTES

T/STL=X'-X"

T/STL = 28'-11" (HEAD)

T/STL = 17'-6" (SILL)

LEDGER PER 3/S-504

LEDGER, TYP AT S-501 PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN

14. STEEL STAIRS SHALL BE BIDDER-DESIGNED, UNO. APPLICABLE DESIGN REQUIREMENTS PER STRUCTURAL

12. INDICATES WELDED DRAG CONNECTION AT END OF BEAM. SEE 17/S-502 FOR ADDITIONAL

15/S-501 TYPICAL OWSJ TO FACE OF COLUMN

14/S-501 PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN

13/S-501 DIAGONAL BRACE DETAIL

12/S-501 ALLOWABLE METHODS AND LOCATIONS FOR SUPPORTING LOADS FROM OWSJ

3/S-501 TYPICAL CHANGE IN DECK DIRECTION AT ROOF

W12x14 W12x14 W16x26 W16x26 W12x14

T/STL = 31'-1 7/8"

1 1/2"DPx20GA (B)

PER PLAN NOTES

59'-2 1/2" 10'-9 3/4" 21'-5 7/8" 63'-8 3/8"

L.1

2'-9 3/4" 4 3/4" W10x22 W10x22

3/S-504 DECK LEDGER PER

W10x12 W10x12 W16x31 W16x31 W12x14

26K (240/135) 26K (240/135) 26K (240/135) 26K (240/135) 26K (240/135)

S-501 PER S-150

W8x10 W8x10 W8x15 W8x15 W8x15

26K (240/135) 26K (240/135)

T/CMU = 32'-4"

36LH (360/200)

36LH (360/200)

36LH (360/200)

36LH (360/200)

T/CMU = 25'-3" (LOW)

T/CMU = 29'-6 1/4"

T/CMU = 29'-10 5/8"

10K (360/200) 10K (360/200) 10K (360/200) 10K (360/200) 10K (360/200)

36LH (360/200) 36LH (360/200)

26K (240/135) 26K (240/135) 26K (240/135) 26K (240/135) 26K (240/135)

W10x12 W10x12 W16x31 W10x12 W16x31

W16x31 W10x22 W18x35 W10x22 W18x35

W16x31 W16x31 W12x14 W16x31 W12x14

26K (240/135)

26K (240/135)

26K (240/135)

26K (240/135)

26K (240/135)

26K (240/135)

W16x26 W16x26 W16x26 W16x26 W16x26 W16x26

36LH (360/200)

36LH (360/200)

155'-2 1/2"

HSS6x6x1/4 SCREEN WALL POST WHERE SHOWN

HSS6x6x3/16 (LOW)

26K (240/135) 26K (240/135) 26K (240/135) 26K (240/135) 26K (240/135)

7'-6 1/2" 7'-6 1/2" 7'-6 1/2" 7'-6 1/2" 7'-6 1/2"

10K (360/200) 10K (360/200) 10K (360/200) 10K (360/200) 10K (360/200)

7'-4" 7'-4" 7'-4" 7'-4" 7'-4"

W8x10 W8x10 W8x15 W8x15 W8x15

26K (240/135) 26K (240/135)

26K (240/135) 26K (240/135) 26K (240/135)

10K (360/200) 10K (360/200) 10K (360/200) 10K (360/200) 10K (360/200)
NOTES:
1. LOADS SHOWN ARE SNOW DRIFT LOADS TO BE APPLIED TO JOISTS AND GIRDERS IN ADDITION TO LOADS SPECIFIED ON PLANS.
2. TRIANGULAR LOADS SLOPE UNIFORMLY FROM LOAD SHOWN TO ZERO.
3. CONTRACTOR TO COORDINATE AND VERIFY EXTENTS AND THICKNESS OF HOUSEKEEPING PADS WITH MECHANICAL.
3. CMU WALLS ARE GROUTED AT REINFORCING ONLY UNO ON PLAN.

WITH ARCHITECT AND STRUCTURAL ENGINEER.

NOTES. CONTRACTOR SHALL COORDINATE LOCATION OF JOINT.
1. **TYPICAL PARAPET PERPENDICULAR TO JOISTS**
   - Where required.
   - See plan.

2. **TYPICAL PARAPET PARALLEL TO JOISTS**
   - Where required.
   - See plan.

3. **TYPICAL CHANGE IN DECK DIRECTION AT ROOF**
   - 3/16" stiff pl per deck.
   - Cope horizon leg @ 7'-0" oc.
   - 4x4x1/4 btwn joists parallel deck.

4. **TYPICAL DECK AT DISCONTINUITIES**
   - 3/16" brace @ 7'-0" oc.
   - Joist per beam or pl 1/4x4x0'-4".
   - Reinforcement per 11/s-501 where stud/s per plan.

5. **TYPICAL REINFORCEMENT AT ALL MECHANICAL UNITS, ROOF AND FLOOR OPENINGS OVER 24"**
   - 3/16" brace @ 7'-0" oc.
   - Joist per beam or pl 1/4x4x0'-4".
   - Reinforcement per 11/s-501 where stud/s per plan.

6. ** ALLOWABLE METHODS AND LOCATIONS FOR SUPPORTING LOADS FROM OWSJ**
   - See plan.

7. **FLOOR JOISTS PARALLEL TO EXTERIOR WALL**
   - See plan.

8. **TYPICAL METAL DECK OPENING REINFORCING**
   - See plan.

9. **DIAGONAL BRACE DETAIL**
   - Support at interior column.

10. **TYPICAL OWSJ TO FACE OF COLUMN**
    - See plan.

11. **TYPICAL BEAM FLANGE BRACE**
    - See plan.

12. **TYPICAL BAR JOIST TO STEEL BEAM CONNECTION**
    - See plan.

13. **TYPICAL SLAB EDGE AT STEEL BEAM**
    - See plan.

---

**NOTES:**
- Where concentrated loads are supported by joist chords and are located more than 6" from a panel point, reinforce the joist with an added angle (each side of joist) extending from the point load to the beam or other support for deck at penetration.
- These drawings are sufficiently complete for submission to the jurisdiction having authority for permit. The Contractor shall not use these drawings or this estimate for the performance of the work. If reference to the original drawings is necessary, the architect shall be notified.
- All exterior locations shall be finished with raked or metal parapets.
- Metal parapets to be 3/16" at owsj to wood framing, 350# 3/16" brace @ 7'-0" oc.
- See plan.
- Beam per plan.
- Scale: 1" = 1'-0".

**Scale:**
- 3/4" = 1'-0"
These drawings are sufficiently complete for submission to the jurisdiction having authority for permit. The Contractor shall not use these drawings for construction until Contractor receives written approval for use in construction by the jurisdiction having authority and DCI Engineers.
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