LANDOWNER - SITE NAME
313 ROOFED WASTE STORAGE STRUCTURE AND 561 HEAVY USE AREA

Producers are responsible for securing grading, building, electrical, and plumbing permits to install the required facilities and for properly managing the facility.

REVISED 7/1/2021

LOCATION MAP

USER TO INSERT SHEET LIST TABLE

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**OWNER/CONTRACTOR STATEMENT**
I certify that this design has been explained to me by a representative of the County Soil Conservation District and understand the contents. All construction will be done according to these plans and specifications. I further understand that all construction will be under the inspection of this office.

**CONTRACTOR'S SIGNATURE**

**DATE**

**CONSTRUCTION SEQUENCE**

**AS BUILT CONTRACT ITEMS**

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**AS BUILT STATEMENT**

The conservation practices/meets or exceeds NRCS standards and specifications.

**INSPECTED BY**

**CONSTRUCTION APPROVAL**

**VERIFIED DISTRICT CONSERVATIONIST**

**USER TO ENTER PRACTICES**

**MATERIALS**

**WASTE MANAGEMENT SATISFY**

**CONSTRUCTION REQUIREMENTS**

1. A preconstruction meeting with the landowner, contractor, and DCC technician is required when a conservation practice will be installed.
2. A conservation technician shall verify outgrade stakes at the contractors request.
3. Install sediment controls by direction of technician/engineer or as shown on plan (including all ditches).
4. Site topsoil and laterally stockpile out of immediate site.
5. Excavate site to staked elevations, with minimum five-foot offset.
7. Pour slab, footer, wall, curbs, etc.
8. Pour slab, footer, wall, curbs, etc.
9. Pour slab, footer, wall, curbs, etc.
10. Install footer drainfield, as directed by technician/engineer.
11. Install roof gutter and outlets.
12. Install safety, fencing, rails, and signs.
14. Reveal all disturbed areas to establish vegetative cover (as per recommendation).
**NOTES:**

- In order for the manure to remain stackable in the storage facility, 10% by volume of the manure storage facility must be straw or waste hay.
- Gates must be placed at all openings of the structure to facilitate animals being confined during inclement weather or poor field conditions.
- Animals must be excluded from the waste storage area at all times. This can be achieved with fencing across the front of the area.

**Safety guidelines to follow:**

1. Any sign placements must be to minimize storage loss due to the winds. The final sign will indicate this information to the user.
2. Keep some signs on the field for easy access. When not used, it will be marked and repositioned as needed.
3. The sign is to be placed away from any dust-generating activities like haying, mowing, or harvesting. The sign must be placed away from any dust-generating activities like haying, mowing, or harvesting.
4. The sign is to be placed at least 250 feet from any dust-generating activities like haying, mowing, or harvesting.
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**Compaction Requirements**

Areas on which fill is to be placed shall be scarfed prior to placement of fill. Fill materials shall be placed in maximum 6-inch-thick sections before compaction layers which are to be continuous over the entire length of the fill. The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each fill shall be trammed by no less than two head trucks of heavy equipment or compaction equipment, which shall be achieved by a minimum of four complete passes of a sheepfoot, rubber-tired, or vibratory roller.

The minimum required density is 95% of maximum dry density with moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain this density, and is to be certified by a Geotechnical Engineer at the time of construction. All compaction is to be determined by AASHO Method T-99 (Standard Proctor). The landowner is responsible for the required compaction testing and shall make all necessary arrangements to have a private geotechnical engineer or agent on-site to perform the test as needed during construction. The compaction test results are to be supplied to the field office.
Insert Cross Section
/ Profile Viewports
The image contains a technical document related to the design of a building structure, specifically focusing on framing details, anchor points, and construction notes. Here is a transcription and breakdown of the key points:

### Framing Details
- **16' Span Framing (N.T.S.)**
- **Posts for the 16' span shall be 8ply 2" x 8" Glulam.**
- **Fiberguard with 2.0E LVL's x 2-1.75'' for Headers**
- **Steel posts are spaced at 8'-0" on center.**
- **Trusses above post are to be notched into post with 4 - 16d nails & 6 - 10d nailed at trusses.**
- **Truss blocks to be attached to girders with 4 - 16d nails & 4 - 10d blocked.**

### Anchor Details
- **Column Anchor Detail**
  - Place column anchor in center of wall prior to pouring the wall.
  - To be used with 8-ply 2" x 8" Glulam post.
  - Post size required for column anchor
  - Header bolt spacing detail not to scale

### Lateral Brace Details
- **Lateral Brace Attached with 6 - 20d HDG (12 - 3 1/8" Ø HDG bolts with rust inhibitive paint).**

### Construction Notes
- All materials and construction shall be in accordance with applicable NRCS standards and construction specifications.
- All components of the completed system shall conform to the times, grades, elevations, and materials shown on the plans.
- Any changes in the plans or specifications must be approved by the original approval prior to being made.
- All truss bracing shall be used as recommended by the truss manufacturer.
- The finished floor elevation shall be a min. 2' above normal water table.
- The finished floor elevation shall be a min. 2' above normal water table.
- Roofing materials and systems shall be designed in accordance with the manufacturer's recommendations.
- Roofing material must be covered if stored outside to prevent premature deterioration.
- Aluminum may be substituted for the steel. The aluminum roofing needs to be properly designed for expansion and contraction and with other structural components, in accordance with the specification.
# Double Block Curb

1. Place a concrete curb to the right of the post.
2. Provide a minimum of 12" of concrete for the curb.
3. Ensure that the concrete is properly backfilled.

# Retaining Wall with Post on Top

1. Use a Grade 60 steel post.
2. Place a minimum of 2" of concrete around the post.
3. Ensure that the concrete is properly backfilled.

# Retaining Wall Without Post

1. Use a Grade 60 steel post.
2. Place a minimum of 2" of concrete around the post.
3. Ensure that the concrete is properly backfilled.

# Joint Placement Requirements (Vertical)

1. Cut steel directly at the joint.
2. Cut horizontal steel at a maximum of 2".
3. Cut vertical steel at a maximum of 2".
4. Cut all reinforcing steel directly at the joint.

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2. All components of the completed system shall conform to the lines, grades, elevations, dimensions and materials shown on the plans.
3. Any changes in the plans or specifications must be approved by the original plan approver prior to being made. Changes are to be reviewed by the landowner for accuracy.
4. All disturbed areas shall be fertilized, seeded, and mulched or otherwise stabilized as required by the construction plans.
5. Existing fascia boards that are damaged, rotten, otherwise unsuitable or with a nominal thickness less than 3 inches, shall be repaired.
6. Rafter ends that are damaged or rotted shall be repaired.
7. All lumber used for fascia boards or for rafter and rafter end shall have a nominal thickness of 2 inches. Cover all fascia boards with aluminum or vinyl flashing or paint before the roof gutter is installed.
8. Downspout outlet connections shall be the manufacturer's preferred (insert) outlet for the given size shown on the design, unless otherwise approved.
9. Aluminum gutters and downspouts shall have a minimum thickness of 0.027 inch.
10. Galvanized steel gutters and downspouts shall have a minimum thickness of 20 gauge.
11. Where animals or equipment may come in contact with downspouts, steel pipe, schedule 40 PVC or similar material will be used for the downspout.
12. Roof gutter supports shall have a maximum spacing of 24 inches unless otherwise approved. Roof gutters shall be mounted to the fascia board using hidden hangers and bolts. Hanger sizes and hangers or screws. Other methods must be reviewed by the landowner.
13. Installation invoices from suppliers shall be provided to verify gutter and downspout size, length, material, material gage, and length type.
14. The Soil Conservation District makes no representation as to the existence or nonexistence of any utilities in the construction site. Shown on these construction drawings are those utilities, which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or that damage will occur to utilities. Mike Utility should be contacted at 1-800-257-7777.
12' SPAN FRAMING DETAIL

(N.T.S.)

- 2 - 3" X 18" LVL 2.0E Girders to be notched into post and connected to the post with (4) 1\(\frac{1}{2}\)" Ø HDG bolts with washers at both ends, or HDG carriage bolts with a washer at one end.

- Girders must have fiberguard coating.

- Engineered truss see design notes.

- 2 - 2" X 8" PPT Lateral brace attached with 6 - 20D HDG (12 - 3\(\frac{1}{8}\)" x 0.131Ø PDN) nails at each connection of post and girders.

- Hurricane strap(s) at each truss support. One Simpson model H10A OR Equivalent. Attached according to manufacturer recommendations (not shown).

- 2 - 2" X 12" MSR SYP 2400F Girders to be notched into post and connected to the post with (2) 1\(\frac{1}{2}\)" Ø HDG bolts with washers at both ends, or HDG carriage bolts with a washer at one end.

- 2 - 4 PLY 2" X 8" Glulam posts FB 2350 PSI 2" X 12" PPT Knee brace attached with 17 - 20D HDG nails at post attachment, and 12 - 10D nails at bottom and top cords of trusses.

- Truss blocks to be attached to girders with 2 - 1/2" X 19" LVL 2.0E Stickers to be notched into post and connected to the post with 20D HDG nails with washers at each connection of post and girders. Stickers must have fiberguard coating.

- Trusses above post are to be notched into post.

- 4" header bolt spacing detail not to scale.
20' SPAN FRAMING DETAIL

(N.T.S.)

2 - 4 PLY 2" X 8" Glulam posts FB 2350 PSI

2 - 2" X 12" PPT Knee brace attached with 17 - 20D HDG nails at post attachment, and 12 - 10D nails at bottom and top cords of trusses.

2" X 8" X 24" Treated nailer block fasten with (12) 20D pole barn nails or (3) 1/2" galvanized bolts with washers.

2 - 2" X 12" MSR SYP 2400F Girders to be notched into post and connected to the post with (2) 16D nails & 6 - 10D nailed at trusses.

Truss blocks to be attached to girders with:
- 600 nails & 6 - 1/2" washers at trusses.
- Truss above post are to be notched into post.

Engineered truss details not to scale.

Header bolt spacing detail not to scale.

(-N.T.S.)

2 - 1 1/2" X 3/4" HDG bolts to be inserted into post and connected to the post with (2) 16D nails, with washers at both ends, or HDG carriage bolts with a washer at one end.

Girders must have fiberguard coating.

Engineered truss details not to scale.

Header bolt spacing detail not to scale.

- 2" X 12" WRB 8" PPD (6) Girders to be inserted into post and connected to the post with (2) 16D nails, with washers at both ends, or HDG carriage bolts with a washer at one end.

- 20' SPAN FRAMING DETAIL
Hurricane strap(s) at each truss support.
- 160 M6 & 1-120 rated in each truss above post and at the rear of the post.
- Hardware designed to each truss support and Simpson Model NO. H10A or equivalent. 
  Follow manufacturer's recommendations (not shown).

Engineered truss see design notes.

2" X 8" PPT Lateral brace attached with 8-20D HDG (12-3/4" X 0.131Ø PDN) 
Nails at each connection of post and girders.

Laminations parallel to truss.

2 - 4 PLY 2" X 10" Glulam posts FB 2350 PSI

2 - 2" X 12" MSR SYP 2400F Girders to be notched into post and connected to the post with (2) 1/2"Ø HDG bolts with washers at both ends, or HDG carriage bolts with a washer at one end.

2" X 12" PPT Knee brace attached with 17-20D HDG nails at post attachment, and 12-10D nails at bottom and top cords of trusses.

2" X 1 3/4" X 24" LVL 2.0E Girders to be notched into post and connected to the post with (4) 1/2"Ø HDG bolts with washers at both ends, or HDG carriage bolts with a washer at one end.

Girders must have fiberguard coating.

Truss blocks to be attached to girders with:
- 1-160 M6 & 1-120 rated in each truss above post and at the rear of the post.

Truss chords to be attached with:
- 24" 6D NAILS & 6-10D nails at trusses.

24' SPAN FRAMING DETAIL (N.T.S.)

Header bolt spacing detail not to scale.
Engineered truss
see design notes

Hurricane strap(s) at each truss support
one Simpson Model NO. H10A or equivalent.
Attached according to manufacturers' recommendations (not shown).

Truss blocks to be attached to girders with
4 - 16d nails
6 - 10d nails

Trusses above post are to be notched into post
with (2)
1 1/2" Ø HDG bolts with washers at both ends,
or HDG carriage bolts with a washer at one end.

Girders must have fiberguard coating

2 - 4 PLY 2" X 8" Glulam posts FB 2350 PSI

2 - 2" X 12" PPT Knee brace attached with
17 - 20d HDG nails at post attachment, and
12 - 10d nails at bottom and top cords of trusses.

2" X 12" PPT Lateral brace attached with
6 - 20d HDG (12 - 3" X 0.131Ø PDN)
Nails at each connection of post and girders

16' SPAN FRAMING DETAIL
(N.T.S.)
EQUIVALENT MANUFACTURED COLUMN ANCHOR CAN BE USED AND MUST BE
PLACE COLUMN ANCHOR IN CENTER OF WALL PRIOR TO POURING THE WALL.

APPROVED BY THE ENGINEER.

GUTTER DRY WELL OUTLET DETAIL

NOT TO SCALE

Gutter Outlet Attached Along Outside of Building Detail

NOT TO SCALE

Gutter Outlet with Curtains Detail

NOT TO SCALE

Gutter Outlet Detail

NOT TO SCALE

Gutter Dry Well Outlet Detail

NOT TO SCALE

Column Anchor Detail

NOT TO SCALE

Column Anchor Detail

NOT TO SCALE