

# NARRATIVE REPORT

## 1.0 BUILDING INFORMATION

Bentson Bunker Fieldhouse was originally constructed in 1931; the building has had several renovations, notably, a 1976-1980 multi-phase renovation throughout the building.

Bentson Bunker Fieldhouse is a four-story, 65,163 ft<sup>2</sup> building which primarily serves as office areas and work areas for athletics personnel.

The interior floor finishes included concrete, floor tile, wood, and carpet; the interior wall finishes included gypsum wallboard, plaster, brick, concrete block, and ceramic block; and the interior ceiling finishes included ceiling tile, plaster, and metal. The roofing system is a peaked rubber-membrane roof over the majority of the building and a peaked asphalt-sheet roof over the south end of the building and the exterior of the structure is brick.

The piping systems were insulated; fiberglass insulation (without hard fittings) and mag block insulation (with hard fittings) are located in the building. Steam enters the building in room 30 and domestic water enters the building in room 12. HVAC systems located in the building consisted of steam radiators and forced air furnaces equipped with heating/cooling coils.

## 2.0 ASBESTOS SURVEY INFORMATION

Bentson Bunker Fieldhouse was surveyed as part of a larger project on NDSU's Fargo, ND Campus. This report is part of "Volume 2" of a nine volume series. This report includes building specific information only; please refer to the opening section of "Volume 2" for methodologies, definitions, and other pertinent supporting information.

A total of 144 samples were collected from suspect asbestos-containing materials (ACM) from Bentson Bunker Fieldhouse on June 15, 2007, an additional 4 samples were collected on May 9, 2008, and an additional 1 sample was collected on May 15, 2008. Laboratory analysis results indicate **35 of these samples tested positive for asbestos.**

### 2.1 Suspect Materials Identified and Sampled

Hard Plaster- Skimcoat	Hard Plaster- Basecoat
Gypsum Wallboard (7 types)	Joint Compound (7 types)
Wall Texture	Ceiling Tile (5 types)
Sink Undercoating (6 types)	Floor Tile (11 types)
Floor Tile Mastic (11 types)	Hard Fittings on Mag Block Insulation
Encapsulant on Fiberglass Insulation (2 types)	Mag Block Pipe Insulation
Linoleum	Linoleum Adhesive
Building Seam Caulk	Floor Filler Material
Glue Pucks (2 types)	Window Caulk (2 types)
Carpet Mastic (with residual black mastic)	Carpet Mastic (3 types)
Baseboard Adhesive (3 types)	Spray-on Fireproofing (on beams)
HVAC Canvas Connector	Roof Flashing (2 types)
Roof Tarpaper (2 types)	Asphalt Sheeting (2 types)
Exterior Window Filler Material	Exterior Building Seam Caulk (4 types)
Exterior Window Caulk (3 types)	Exterior Door Caulk (2 types)
Exterior Air Vent Caulk	Exterior Penetration Putty

Exterior Coating Material (on concrete)

Ceiling Filler Material

The Asbestos Bulk Sample Results Table includes asbestos sampling data.

2.2 **Asbestos Containing Materials**

- Purple Sink Undercoating
- White Sink Undercoating (4 types)
- Black Sink Undercoating
- Carpet Mastic (with residual black mastic)
- Joint Compound (1 type)
- 12" Beige/Brown/Black Mottled Floor Tile and Mastic
- Mastic for 12" Brown/Red/White Mottled Floor Tile
- 12" White with Dark Green Floor Tile and Mastic
- 12" Yellow Floor Tile with White and Mastic
- Mastic for 12" Brown/Red/White Mottled Floor Tile
- 12" Beige/White Marbled Floor Tile and Mastic
- Tan Pebble Pattern Linoleum
- Mag Block Pipe Insulation
- Hard Fittings on Mag Block Insulation
- 12" Ceiling Tile with Fissures and Pinholes
- Roof Flashing (2 types)
- Roof Tarpaper (2 types)
- 9" Floor Tile and Mastic (assumed)

The ACM Locations/ Friable Materials Assessments Table includes ACM locations data.

2.3 **Cost Estimates**

Legend Technical Services Inc. estimates abatement costs (removal & disposal) of ACM for the Bentson Bunker Fieldhouse as follows:

ACM	QUANTITY	UNIT COST	TOTAL COST
Asbestos Ceiling Tile	1,520 ft <sup>2</sup>	\$5.00/ft <sup>2</sup>	\$7,600.00
Asbestos Floor Tile and/or Mastic	11,821 ft <sup>2</sup>	\$4.00/ft <sup>2</sup>	\$47,284.00
Asbestos Linoleum	360 ft <sup>2</sup>	\$4.00/ft <sup>2</sup>	\$1,440.00
Asbestos Sink Undercoating	6 ea	\$150.00/ea	\$900.00
Asbestos Joint Compound	5,540 ft <sup>2</sup>	\$5.00/ft <sup>2</sup>	\$27,700.00
Asbestos Mag Block Pipe Insulation	340 ft	\$25.00/ea	\$8,500.00
Asbestos Hard Fittings on Mag Block Insulation	94 ea	\$25.00/ea	\$2,350.00
Asbestos Roof Flashing	155 ft	\$5.00/ft	\$775.00
Asbestos Roof Tarpaper	1,400 ft <sup>2</sup>	\$10.00/ft <sup>2</sup>	\$14,000.00
<b>Total Estimated Abatement Costs:</b>			<b>\$110,549.00</b>

## 2.4 **Survey Notes**

Using non-destructive sampling techniques, LEGEND pulls the carpet back in at least one corner (approx 6") in every carpeted room. LEGEND noted residual black mastic mixed with new carpet mastic in room 8; this mix tested positive for asbestos. LEGEND recommends assuming ACM residual black mastic is under the entire room until a destructive survey can be conducted to verify if the residual black mastic is only in the corners/edges.

LEGEND collected samples of joint compound on gypsum wallboard throughout the building using available architectural drawings to define homogenous areas. LEGEND identified at least 7 separate vintages (homogeneous areas) of joint compound; each vintage of joint compound was sampled as an independent homogeneous area. A review of the results indicates the joint compound installed during the 1976 Phase-I renovations to the building tested positive for asbestos, only. The 1976 vintage is located throughout the north ends of the basement and first floor; refer to the ACM Locations Diagrams for exact locations.

LEGEND collected samples of the 12" ceiling tile with fissures and pinholes and the associated glue pucks from the second floor of the building. The 12" ceiling tile with fissures and pinholes tested positive for asbestos while the associated glue pucks tested <1% for asbestos. Although the glue pucks do not meet the definition of an asbestos containing material, laboratory analysis has indicated asbestos fibers are present. LEGEND recommends that any abatement projects for the ACM ceiling also include the abatement of the glue pucks.

**LEGEND TECHNICAL SERVICES, INC.**  
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 1A**

Purple Sink Undercoating	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos undercoating is on a sink along the east wall.
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**Room 8**

Carpet Mastic (with residual black mastic)	5% Chrysotile	400 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The carpet mastic with asbestos residual black mastic is located throughout the room.
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**Room 9D**

12" Beige/Brown/Black Mottled Floor Tile and Mastic	2-10% Chrysotile	6 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Room 10**

Joint Compound	3% Chrysotile	15 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	Refer to ACM Locations Map for further information.
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**Room 10A**

Joint Compound	3% Chrysotile	99 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is located on the ceiling in this room.
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**Room 10B**

Joint Compound	3% Chrysotile	104 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is located on the ceiling in this room.
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\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 10C**

Joint Compound	3% Chrysotile	120 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is located on the ceiling in this room.
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**Room 11** Abated January 2019

<del>12" White Floor Tile with Dark Green and Mastic</del>	2-15% Chrysotile	800 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
<del>Joint Compound</del>	3% Chrysotile	823 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on the north wall, east wall, north end of the west wall, and east end of the south wall.
<del>White Sink Undercoating</del>	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos sink undercoating is on the sink in the northeast corner of the room.

**Room 11A** Abated January 2019

<del>12" White Floor Tile with Dark Green and Mastic</del>	2-15% Chrysotile	85 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
<del>Joint Compound</del>	3% Chrysotile	150 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on the west and south walls in this room.

**Room 13**

12" Yellow Floor Tile with White and Mastic	2-15% Chrysotile	40 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
Joint Compound	3% Chrysotile	10 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on the west wall.

\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 14 (including the closet in the northeast corner of the room)**

Joint Compound	3% Chrysotile	1,135 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on all walls in this room and the closet.
12" Yellow Floor Tile with White and Mastic	2-15% Chrysotile	64 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos; it is in the closet.
Joint Compound	3% Chrysotile	335 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on all walls in this room.

**Room 15**

12" Yellow Floor Tile with White and Mastic	2-15% Chrysotile	85 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos; it is in the stairway areas in the southwest and southeast corners of the room.
Joint Compound	3% Chrysotile	1,422 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on the north and south walls and on the beams/soffits located along the ceiling. Refer to ACM Diagrams.

**Room 16A**

12" Yellow Floor Tile with White and Mastic	2-15% Chrysotile	20 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Room 19** Abated August 2013

<del>12" Beige/Brown/Black Mottled Floor Tile and Mastic</del>	2-10% Chrysotile	180 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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\* = Non-Friable materials were not assessed

**LEGEND TECHNICAL SERVICES, INC.**  
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 19A** Abated August 2013

<del>Mastic for 12" Brown/Red/White Mottled Floor Tile</del>	5% Chrysotile	33 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative.
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**Room 21** Now Room 22

Black Sink Undercoating	5% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos undercoating is on a sink along the northeast corner of the room.
12" Beige/White Marbled Floor Tile and Mastic	2-15% Chrysotile	1,584 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.

**Room 21** Now Room 22A

12" Beige/White Marbled Floor Tile and Mastic	2-15% Chrysotile	25 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Room 22** Now Room 21A Now Room 21G

<del>12" Beige/White Marbled Floor Tile and Mastic</del>	2-15% Chrysotile	475 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos; they are under carpet.
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**Abated December 2016**

**Room 23**

12" Beige/White Marbled Floor Tile and Mastic	2-15% Chrysotile	578 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Room 23B** Now Room 21 Now Room 21F

<del>12" Beige/White Marbled Floor Tile and Mastic</del>	2-15% Chrysotile	1,780 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Abated December 2016**

\* = Non-Friable materials were not assessed

**LEGEND TECHNICAL SERVICES, INC.**  
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
<b>Room 23E and 23F</b> <span style="border: 1px solid red; padding: 2px;">Now Room 21E</span>								
<del>12" Beige/White Marbled Floor Tile and Mastic</del>	2-15% Chrysotile	475 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos; they are under carpet.
<span style="border: 1px solid red; padding: 2px;">Abated December 2016</span>								
<b>Room 25</b>								
12" Beige/White Marbled Floor Tile and Mastic	2-15% Chrysotile	116 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
<b>Room 26</b>								
12" Beige/White Marbled Floor Tile and Mastic	2-15% Chrysotile	530 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
<b>Room 26A</b> <span style="border: 1px solid red; padding: 2px;">Abated January 2019</span>								
<del>9" Floor Tile and Mastic</del>	Assumed	215 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
<b>Room 27</b>								
12" Beige/White Marbled Floor Tile and Mastic	2-15% Chrysotile	505 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
<b>Hallway 88</b>								
12" Beige/Brown/ Black Mottled Floor Tile and Mastic	2-10% Chrysotile	2,311 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
Joint Compound	3% Chrysotile	206 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is west wall of the hallway by room 11.

\* = Non-Friable materials were not assessed



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ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Hallway 88A**

12" Beige/Brown/ Black Mottled Floor Tile and Mastic	2-10% Chrysotile	432 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Hallway 88B**

12" White Floor Tile with Dark Green and Mastic	2-15% Chrysotile	44 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Hallway 88C**

12" White Floor Tile with Dark Green and Mastic	2-15% Chrysotile	212 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
Joint Compound	3% Chrysotile	532 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on all walls in this hallway.

**Room 88D** Abated August 2013

<del>12" Beige/Brown/ Black Mottled Floor Tile and Mastic</del>	2-10% Chrysotile	20 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Hallway 88E** Abated August 2013

<del>12" Beige/Brown/ Black Mottled Floor Tile and Mastic</del>	2-10% Chrysotile	32 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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Room 99L 12" floor tile

**Room 99M**

12" Beige/Brown/ Black Mottled Floor Tile and Mastic	2-10% Chrysotile	55 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
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Mastic for 12" Brown/Red/White Mottled Floor Tile	5% Chrysotile	30 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The mastic for 12" floor tile contains asbestos; the floor tile is negative. It is under the bathroom stalls on the east end of the room.
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**Room 99W**

12" Beige/Brown/Black Mottled Floor Tile and Mastic	2-10% Chrysotile	85 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 12" floor tile and mastic contain asbestos.
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**Room 101G**

White Sink Undercoating	15% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos undercoating is on a sink along the northwest corner of the room.
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**Room 102** Abated January 2018, Now 102A

<del>Tan Pebble Pattern Linoleum</del>	30% Chrysotile	40 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	<del>Refer to ACM Locations Map for further information.</del> This was an alcove outside 101. It was walled in and changed to 102A.
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**Room 103G**

White Sink Undercoating	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The asbestos undercoating is on a sink along the northeast corner of the room.
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**Room 109** Abated Summer 2008

<del>Mag Block Pipe Insulation</del>	25% Chrysotile 25% Amosite	40 ft	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	The asbestos mag block pipe insulation is located on radiators along the east and west walls of the room.
<del>Hard Fittings on Mag Block Insulation</del>	30% Chrysotile	24 ea	Friable TSI	Good	Physical <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Air Erosion <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Vibration <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		6	None

\* = Non-Friable materials were not assessed

**LEGEND TECHNICAL SERVICES, INC.**  
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSES. CAT. <sup>1</sup>	NOTES
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**Room 110A (including the closet north of room 110A)**

Joint Compound	3% Chrysotile	88 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on the east wall in the closet. Refer to the ACM locations diagram for more details.
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**Room 110B**

Joint Compound	3% Chrysotile	103 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is located on the west wall.
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**Room 110C** Now 110E (2018)

Joint Compound	3% Chrysotile	553 ft <sup>2</sup>	Friable Surfacing	Damaged	Physical	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	2	Refer to ACM Locations Map for further information.
				Air Erosion	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
				Vibration	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			

**Room 110D** Now 110F (2018)

Joint Compound	3% Chrysotile	180 ft <sup>2</sup>	Non-Friable Surfacing	N/A*	N/A*		N/A*	The asbestos joint compound is on the north wall.
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**Room 199M** Abated January 2018

<del>Tan Pebble Pattern Linoleum</del>	30% Chrysotile	160 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	None
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**Room 199W** Abated January 2018

<del>Tan Pebble Pattern Linoleum</del>	30% Chrysotile	160 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	None
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\* = Non-Friable materials were not assessed

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ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Room 201**

9" Floor Tile and Mastic	Assumed	440 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs; they are under carpet and on the north half of the room, only.
White Sink Undercoating	10% Chrysotile	1 ea	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The sink is located along the north wall in this room.

**Room 201F**

9" Floor Tile and Mastic	Assumed	112 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
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**Room 203** Abated June 2014

12" Ceiling Tile with Fissures and Pinholes	3% Chrysotile	810 ft <sup>2</sup>	Friable Miscellaneous	Good	Physical Air Erosion Vibration	■□□ □■□ ■□□	5	The asbestos 12" ceiling tile and are above the 2'x4' ceiling tile; see note in section 2.4 "Survey Notes" for information regarding the glue pucks.
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**Room 203B**

9" Floor Tile and Mastic	Assumed	32 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs.
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**Room 204**

12" Ceiling Tile with Fissures and Pinholes	3% Chrysotile	710 ft <sup>2</sup>	Friable Miscellaneous	Good	Physical Air Erosion Vibration	■□□ □■□ ■□□	5	The asbestos 12" ceiling tile and are above the 2'x4' ceiling tile; see note in section 2.4 "Survey Notes" for information regarding the glue pucks.
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**3<sup>rd</sup> Floor Storage Room**

9" Floor Tile and Mastic	Assumed	190 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*		N/A*	The 9" floor tile and mastic are assumed ACMs; they are in a storage room on the east end of the 3 <sup>rd</sup> floor (south of the attic).
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\* = Non-Friable materials were not assessed

**LEGEND TECHNICAL SERVICES, INC.**  
ACM LOCATIONS/FRIABLE MATERIALS ASSESSMENTS TABLE

LEGEND No. 0700048 (NDSU)  
BENTSON BUNKER FIELDHOUSE (BUILDING A020)

ROOM/ ACM	ASBESTOS TYPE	EST. QUANTITY	ACM TYPE	MATERIAL CONDITION	DAMAGE POTENTIAL	LOW MOD HIGH	ASSESS. CAT. <sup>1</sup>	NOTES
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**Attic** Abated Summer 2008

<del>Mag Block Pipe Insulation</del>	25% Chrysotile 25% Amosite	300 ft	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ □■□	5	The asbestos mag block pipe insulation is along the east and west walls of the room.
<del>Hard Fittings on Mag Block Insulation</del>	30% Chrysotile	50 ea	Friable TSI	Good	Physical Air Erosion Vibration	■□□ ■□□ □■□	5	None

**Roof (South End)**

Flashing (on peaked roof)	5% Chrysotile	90 ft	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	This asbestos flashing is around the base of the peaks of the center roof penetration; it is silver in color.
Flashing (on asphalt sheeting)	20% Chrysotile	65 ft	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	This asbestos flashing is around the base of the roof and on the center roof penetration; it is black in color.
Tarpaper (both layers)	70% Chrysotile	1,400 ft <sup>2</sup>	Non-Friable Miscellaneous	N/A*	N/A*	N/A*	N/A*	The roof construction is asphalt shingles over two layers of black tarpaper. Both bottom black layers of tarpaper contain asbestos.

<sup>1</sup>Assessment Categories:

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1) Damaged or Significantly Damaged TSI ACM</li> <li>2) Damaged Friable Surfacing ACM</li> <li>3) Significantly Damaged Friable Surfacing ACM</li> <li>4) Damaged or Significantly Damaged Friable Miscellaneous ACM</li> </ul> | <ul style="list-style-type: none"> <li>5) ACM with Potential for Damage</li> <li>6) ACM with Potential for Significant Damage</li> <li>7) Any Remaining Friable ACM or Friable Suspected ACM</li> </ul> |
|--|---|

**End**