BOLTON & MENK

Real People. Real Solutions.

Morris, MN

Construction of New Terminal Building

Addendum No. 1

June 12, 2026

Project Description: Construction of New Terminal Building

Owner: City of Morris

Bid Date: Unchanged

Bid Time: Unchanged

Drawing Date: May 26, 2026

Addendum Date: June 12, 2026

BMI Project No.: 25X.141173.000

1.1 PREBID MEETING

A. The Prebid Meeting was held at the existing Terminal Building on June 10, 2026 at 10:00 AM. The attendees were as follows:

1. Contractors
   a. Project One Construction: Nick Schoenecker
   b. Hasslen Construction: Brett Hasselen
   c. Cecko Construction: Joe Cecko
   d. Phil Scharmer: Loen Electric
   e. Jamie Dukleth: Ellingson Plumbing, Heating, A/C & Electrical
   f. Rick Buro: REB Construction LLC
   g. Seth England: The Tradesman Construction, Inc.
2. Design Team and Owner
   a. Bolton and Menk: Adam Luckhardt
   b. Bolton and Menk: Matt Hopkins
   c. Morris Municipal Airport: Tom Kloos, Airport Manager

B. Questions during the Prebid meeting where as follows:

1. Q: Is this project subject to prevailing wages?

   A: Yes.

2. Q: Are there requirements for the amount of time the Prime Contractor is required to provide dedicated on-site supervision?

   A: No specified amount of time for prime contractor on-site supervision. The Requirement is that the Contractor's executive representative (Superintendent) be present on site while all work is being conducted. See SECTION 50 PAGE-2 in the Project Manual

3. Q: When can Construction begin?

A: The construction start date will be determined after the bid opening, with September 2026 as the current target.

4. Q: Regarding the goals and timetables for minority and female participation, what are the penalties if the goals cannot be met?

   A: Minority and female participation goals should be actively pursued; however, there are no penalties for failing to meet these targets.

5. Q: Are there required Disadvantaged Business Enterprise (DBE) goals?

   A: No

6. Q: Can the FOSTERING SMALL BUSINESS PARTICIPATION FORM be omitted from the bid submission and be provided post bid?

   A: No

7. Q: Regarding the BIDDER'S LIST COLLECTION FORM: What is required of the Prime Contractor and any Subcontractors who are bidding this project?

   A: The Prime Contractor must Include an anticipated list of subcontractors with their bid for review to ensure they're not debarred.

8. Q: Regarding CERTIFICATION OF COMPLIANCE WITH FAA BUY AMERICAN PREFERENCE: What if contractor checks the first box but at a later date they cannot comply?

   A: Contractors should check the first box and after bid submittal contractors can re-evaluate if something is not Buy America.

9. Q: Can equipment and material source information be provided post bid?

   A: Yes

10. Q: Was a hazardous material survey conducted for this project?

    A: Yes, a report is included as an appendix to the specs.

11. Q. Who is responsible for material testing during construction?

    A: All materials testing shall be the Contractors responsibility.

12. Q. Have Plans been submitted to DOLI for review?

    A: No, Contractor is required to submit for plumbing plan review, and all permits required for construction.

13. Q. Is Building Permitting done through the City or State of MN?

    A: Building Permits shall be submitted through the City of Morris.

14. Q. Is the owner supplying the fire alarm?

    A: The owner is not supplying fire alarm. See addendum for clarification.

15. Q. Will Whole Building Air Leakage Testing be required for this project?

    A: See addendum for clarification

16. Q. What protocols must be followed when performing utility service disruptions?

    A: See 70-15 Contractor's responsibility for utility service and facilities of others

17. Q. Is a fire panel required for the smoke/carbon monoxide detector?

    A: No

1.2 **GENERAL:**

The following changes are, made a part of the Contract Documents for the project referenced above, as if originally contained therein. Execution of the acknowledgment on the bid form shall be the bidder's acceptance of the conditions set forth herein.

1.3 **ACKNOWLEDGMENT:**

This addendum shall be acknowledged on the submitted bid form. Failure to do so may result in the rejection of the bid.

1.4 **PLAN SET UPDATES:**

1. **CIVIL**
    a. C0.01 – REMOVALS PLAN
        i. Sheet added to bid set
    b. C1.01 – FINISHING PLAN
        i. Dimension added as indicated on attached drawings
        ii. Annotation added as indicated on attached drawings
    c. C2.01 - EROSION CONTROL AND UTILITY PLAN
        i. Revised requirements as indicated on attached drawings
    d. C3.01 - GRADING AND DRAINAGE PLAN
        i. Rock Construction Entrance requirement was removed from project scope as indicated on attached drawings

2. **STRUCTURAL**

3. **ARCHITECTURAL**
    a. COVER SHEET
        i. Revised Sheet Index as indicated on attached drawings
    b. A0.10 - MATERIAL IDENTIFICATION LIBRARY
        i. Revised Material IDs for (ACT-1) as indicated on attached drawings
        ii. Revised Material IDs for (MP-5) as indicated on attached drawings
    c. A0.15 – SPECIFICATIONS
        i. Revised Specifications for (INSL-6) as indicated on attached drawings
        ii. Revised Specifications for Spray Foam as indicated on attached drawings
        iii. Revised Specifications for (MP-1a) as indicated on attached drawings
    d. A0.16 – SPECIFICATIONS
        i. Revised Division 01 Specifications as indicated on attached drawings
        ii. Revised (FGW-1) Specifications as indicated on attached drawings
        iii. New (AP-1) Specifications as indicated on attached drawings
    e. A.020 - LIFE SAFETY PLAN
        i. Revised notes as indicated on attached drawings
    f. A1.00 - DEMOLITION PLANS
        i. New Requirements for 1/A1.00 – SITE DEMO PLAN as indicated on attached drawings

ii. New Requirements for 2/A1.00 – EAST ELEVATION - EXISTING HANGAR - CLADDING DEMO as indicated on attached drawings.
iii. New Requirements for 5/A1.00 – SOUTH ELEVATION - EXISTING HANGAR - CLADDING DEMO as indicated on attached drawings.
iv. 4/A1.00 - WALL SECTION @ EXISTING HANGAR annotation revised as indicated on attached drawings

g. A6.00 - INTERIOR ELEVATIONS AND SIGNAGE
   i. Access Panel (AP-1) added to 4/A6.00 - PILOT BRIEFING AND VESTIBULE - DISPLAY CASE

4. **MECHANICAL**
   a. M1.00 – PLUMBING PLAN
      i. Revised Well Water Line location as indicated on attached drawings
   b. M4.00 – MECHANICAL SCHEDULES
      i. Revised Mechanical Schedule as indicated on attached drawings
   c. M5.00 – MECHANICAL SPECIFICATION
      i. Revised specification Item WH-1 Exterior Wall Hydrant as indicated on attached drawings

1.5 **ATTACHMENTS:**

A. For Reference Only Information
   1. Prebid meeting Agenda

B. Plan Sheets:
   1. C0.01 – REMOVALS PLAN
   2. C1.01 – FINISHING PLAN
   3. C2.01 - EROSION CONTROL AND UTILITY PLAN
   4. C3.01 - GRADING AND DRAINAGE PLAN
   5. COVER SHEET
   6. A0.10 - MATERIAL IDENTIFICATION LIBRARY
   7. A0.15 - SPECIFICATIONS
   8. A0.16 - SPECIFICATIONS
   9. A0.20 – LIFE SAFTEY PLAN
   10. A1.00 – DEMOLITION PLANS
   11. A6.00 - INTERIOR ELEVATIONS AND SIGNAGE
   12. M1.00 – PLUMBING PLAN
   13. M4.00 – MECHANICAL SCHEDULES
   14. M5.00 – MECHANCIAL SPECIFICATION

1.6 **CERTIFICATION:**

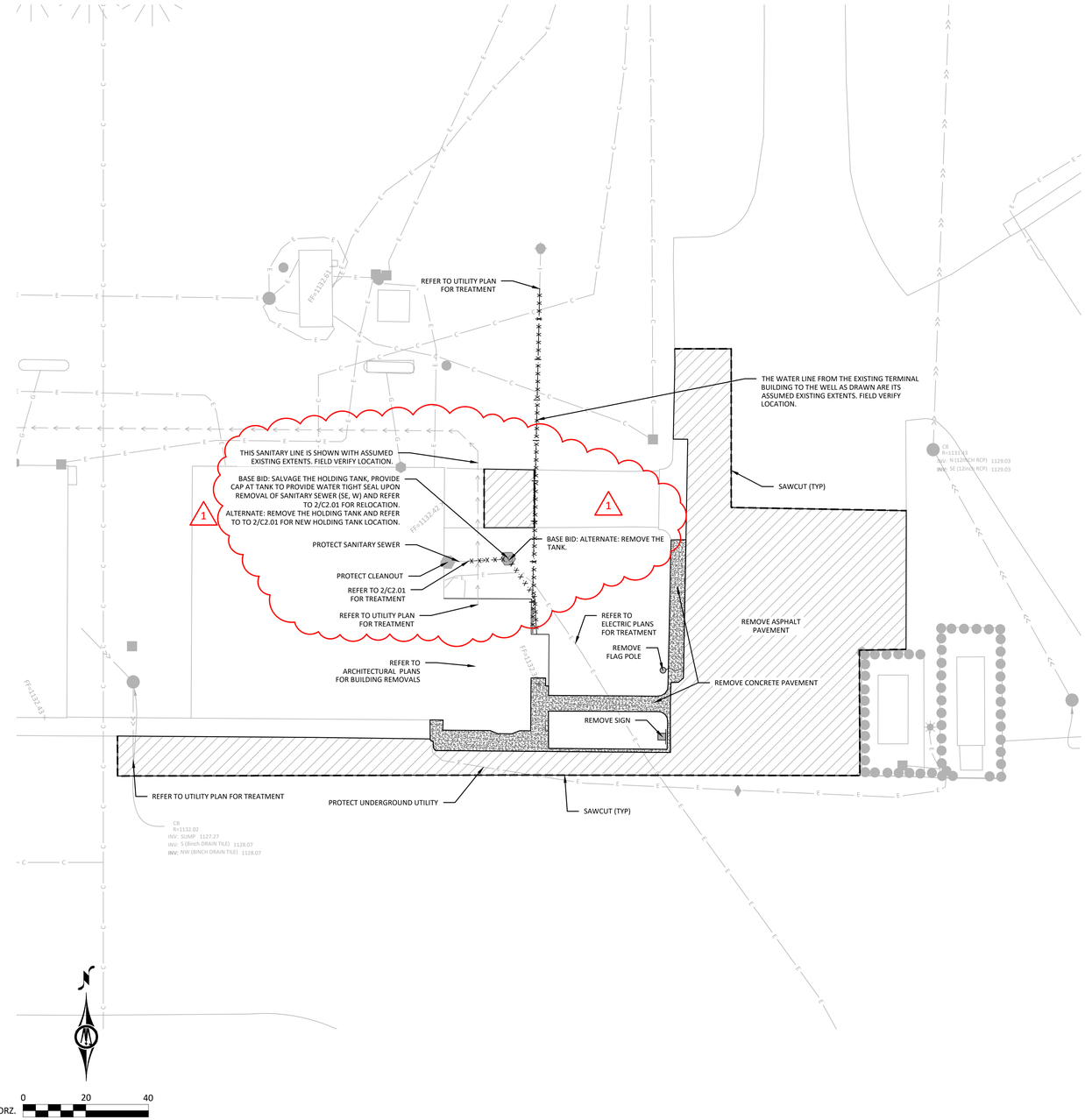
I hereby certify that this addendum was prepared by me or under my direct supervision, and that I am a duly Licensed Architect under the laws of the State of Minnesota.



By:

Matt Hopkins, AIA
License No: MN - 64696
Date: June 12, 2026

******END OF ADDENDUM NO. 1******



LEGEND

- CONCRETE CURB AND GUTTER REMOVALS
- UNDERGROUND UTILITY REMOVALS
- CONCRETE PAVEMENT REMOVALS
- ASPHALT PAVEMENT REMOVALS
- SAWCUT

NOTES

1. REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
2. MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING VEGETATION AND SITE FEATURES (CURBS, WALKS, PAVEMENTS, OVERHEAD AND UNDERGROUND UTILITIES, SIGNAGE, FENCING, ROADWAYS, ETC.) WHICH ARE TO REMAIN.
3. REPAIR OR REPLACE EXISTING PROPERTY AND SITE FEATURES, INCLUDING GRASS AND VEGETATION, WHICH IS TO REMAIN THAT IS DAMAGED BY THE WORK, TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL COST TO THE OWNER.
4. VISIT THE SITE PRIOR TO BIDDING; BE FAMILIAR WITH ACTUAL CONDITIONS IN THE FIELD. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR CONDITIONS WHICH COULD HAVE BEEN DETERMINED OR ANTICIPATED BY EXAMINATION OF THE SITE, THE CONTRACT DRAWINGS AND THE INFORMATION AVAILABLE PERTAINING TO EXISTING SOILS, UTILITIES AND OTHER SITE CHARACTERISTICS.
5. HIRE THE SERVICES OF A UTILITY LOCATOR COMPANY TO LOCATE ALL PRIVATELY OWNED UTILITIES THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS.
6. MAINTAIN DRAINAGE FROM EXISTING BUILDING AT ALL TIMES. PROVIDE TEMPORARY STORM SEWER, INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, PIPING, AND SIMILAR. DO NOT REMOVE EXISTING STORM SEWER UNTIL TEMPORARY OR PERMANENT STORM SEWER IS INSTALLED AND FUNCTIONAL. COORDINATE ALL REMOVALS WITH APPROPRIATE TRADES (SITE UTILITY CONTRACTOR, MECHANICAL CONTRACTOR, ETC.) AS REQUIRED.

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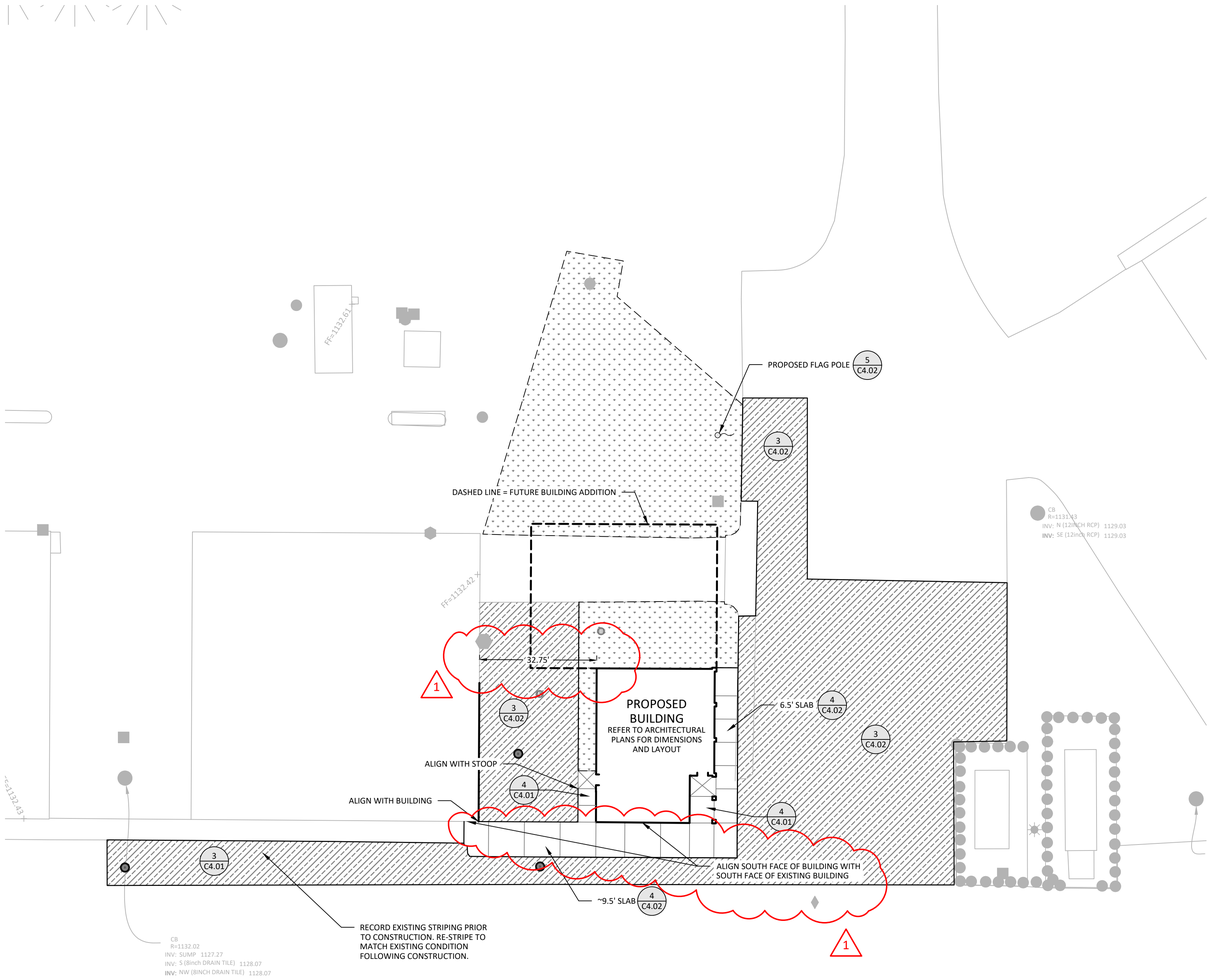
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MORRIS MUNICIPAL AIRPORT (MOX)
AIRPORT TERMINAL BUILDING RECONSTRUCTION
REMOVALS PLAN

SHEET
C0.01



LEGEND

- 1 / C4.01 — REFERENCE KEY TO SITE DETAILS
  DETAIL I.D. NUMBER (TOP)
  DETAIL SHEET NUMBER (BOTTOM)
- PROPOSED CONCRETE SLAB
- PROPOSED ASPHALT PAVEMENT
- PROPOSED SOD LIMITS
- PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS

NOTES

1. REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
2. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
3. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD, WHICH ARE NOT DESIGNATED TO BE PAVED OR SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
4. WHERE NEW SOD MEETS EXISTING SOD, CUT A CLEAN, SHARP EDGE TO ALLOW FOR A CONSISTENT, UNIFORM, AND STRAIGHT JOINT BETWEEN NEW SOD AND EXISTING TURFGRASS. JAGGED OR UNEVEN JOINTS WILL NOT BE ACCEPTED. REMOVE TOPSOIL AT THE JOINT BETWEEN NEW SOD AND EXISTING TURFGRASS, AS REQUIRED, TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING TURFGRASS SURFACE.
5. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.

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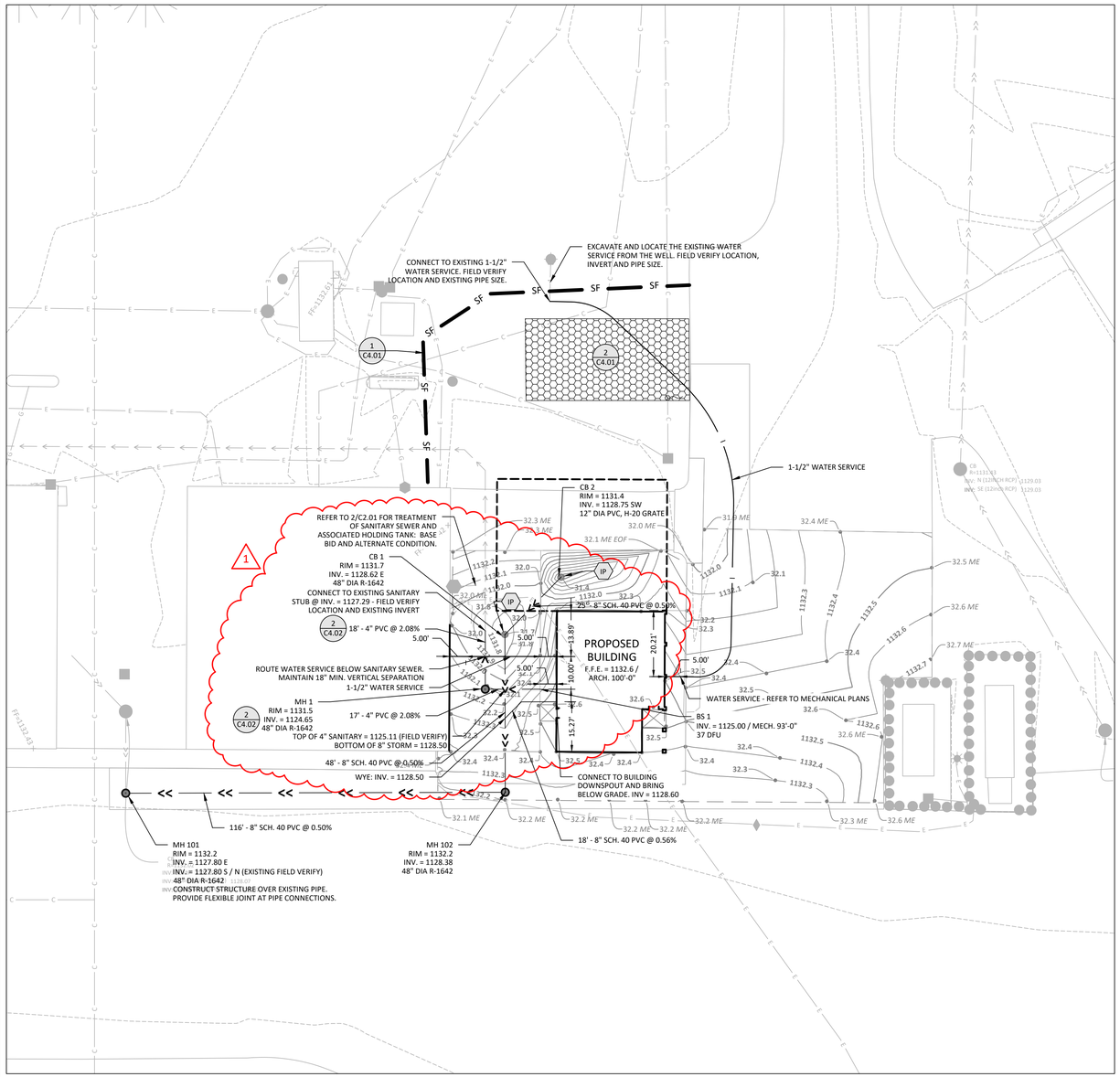
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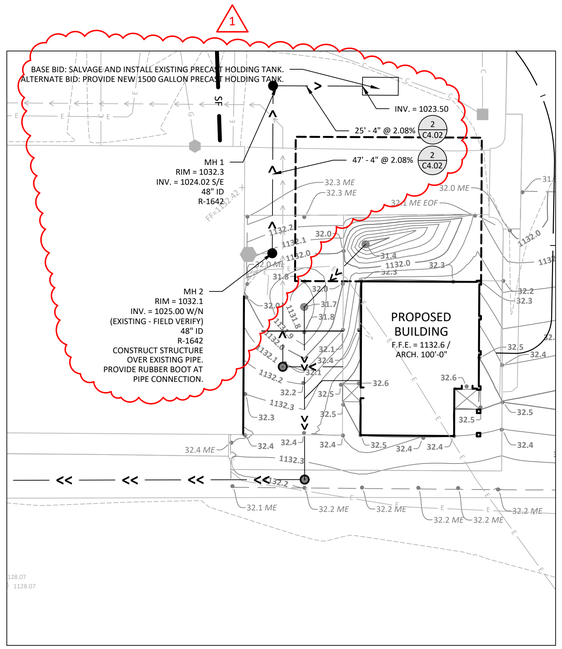
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MORRIS MUNICIPAL AIRPORT (MOX)
AIRPORT TERMINAL BUILDING RECONSTRUCTION
FINISHING PLAN

SHEET C1.01



1 C2.01 UTILITY AND EROSION CONTROL PLAN



2 C2.01 HOLDING TANK: BASE BID - ALTERNATE BID

LEGEND

- REFERENCE KEY TO SITE DETAILS (1 / C4.01) — DETAIL I.D. NUMBER (TOP), DETAIL SHEET NUMBER (BOTTOM)
- 1135 — EXISTING CONTOUR
- 35.5 — EXISTING SPOT ELEVATION
- 1135 — PROPOSED CONTOUR
- 34.6 — PROPOSED SPOT ELEVATION (ME = MATCH EXISTING, EOF = EMERGENCY OVERFLOW)
- PROPOSED GRADING LIMITS
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATER SERVICE
- PROPOSED MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- SF — PROPOSED SILT FENCE
- PROPOSED ROCK CONSTRUCTION ENTRANCE

NOTES

1. REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
2. ALL WATER SERVICE PIPE SHALL BE COPPER TYPE K CONFORMING TO ASTM B 88-62. ALL WATER SERVICE PIPING SHALL HAVE MINUMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE).
3. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 26), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
4. ALL STORM SEWER PIPE SHALL BE PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
5. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
   a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
   b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
      i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
      ii. PRESS-SEAL, WATERSTOP GROUTING RINGS"
      iii. OR APPROVED EQUAL.
10. INSTALL WATERMAIN AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE, OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
11. INSTALL MANOLES, CATCH BASINS, STORM SEWER, SANITARY SEWER, DRAIN TILE, AND OTHER POTENTIAL SOURCES OF CONTAMINATION AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
12. LOCATE ALL EXISTING UTILITIES. VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
13. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
14. MAINTAIN DRAINAGE FROM EXISTING BUILDING AT ALL TIMES. PROVIDE TEMPORARY STORM SEWER, INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, PIPING, AND SIMILAR. DO NOT REMOVE EXISTING STORM SEWER UNTIL TEMPORARY OR PERMANENT STORM SEWER IS INSTALLED AND FUNCTIONAL. COORDINATE ALL REMOVALS WITH APPROPRIATE TRADES (SITE UTILITY CONTRACTOR, MECHANICAL CONTRACTOR, ETC.) AS REQUIRED.
15. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
16. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
17. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND OTHER LOCAL REGULATIONS.
18. IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENTATION, CLEAN OUT DOWNSTREAM STORM SEWERS AND OTHER CONVEYANCE DEVICES AS NECESSARY, INCLUDING ASSOCIATED RESTORATION.
19. INLET PROTECTION DEVICE AT STORM SEWER INLETS. AT THE INLETS TO ALL STORM SEWER STRUCTURES, PROVIDE A PRODUCT FROM THE FOLLOWING LIST OF APPROVED PRODUCTS:
   a. ROAD DRAIN "TOP SLAB", MANUFACTURED BY WIMCO
   b. ROAD DRAIN "CURB & GUTTER", MANUFACTURED BY WIMCO
   c. INFRASAFE "SEDIMENT CONTROL BARRIER", MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS, INC.
   d. INFRASAFE "DEBRIS COLLECTION DEVICE", MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS, INC.
   e. DANDY SACK, MANUFACTURED BY DANDY PRODUCTS, INC.
   f. DANDY CURB SACK, MANUFACTURED BY DANDY PRODUCTS, INC.
   g. OR APPROVED EQUAL.
21. PRIOR TO CONSTRUCTION, DELINEATE TURF AND VEGETATED AREAS NOT TO BE DISTURBED WITH ORANGE SNOW FENCE. DO NOT ALLOW CONSTRUCTION TRAFFIC, EQUIPMENT, OR MATERIALS TO UTILIZE, ACCESS, OR OTHERWISE ENTER THE DELINEATED AREAS. MINIMIZE SOIL COMPACTION AND DISRUPTION OF TOPSOIL IN AREAS OUTSIDE THE CONSTRUCTION LIMITS TO COMPLY WITH THE MN CONSTRUCTION STORMWATER PERMIT.

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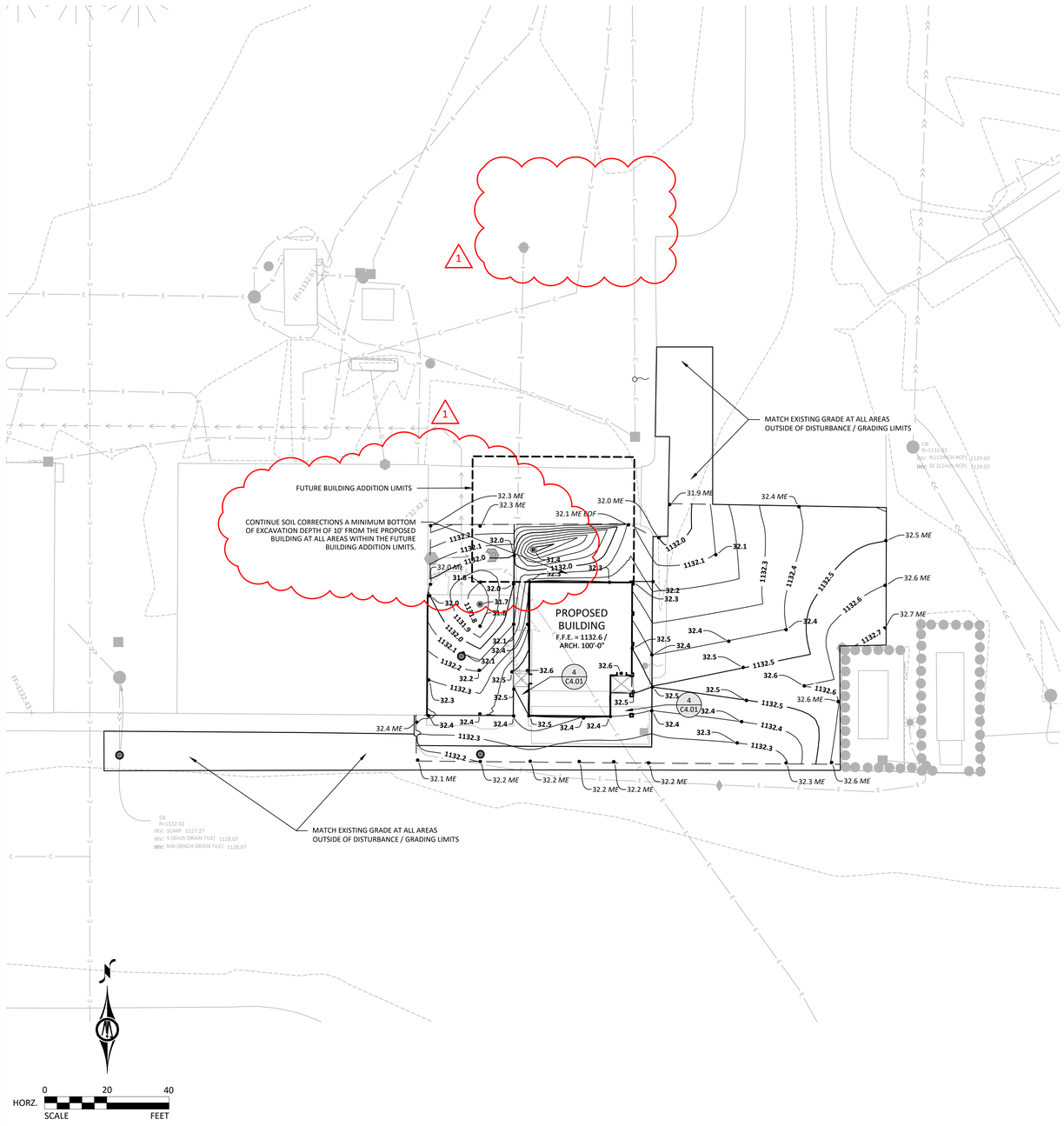
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MORRIS MUNICIPAL AIRPORT (MOX)
AIRPORT TERMINAL BUILDING RECONSTRUCTION
EROSION CONTROL AND UTILITY PLAN

SHEET C2.01



LEGEND

1 / C4.01	REFERENCE KEY TO SITE DETAILS DETAIL I.D. NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)
1135	EXISTING CONTOUR
35.5	EXISTING SPOT ELEVATION
1135	PROPOSED CONTOUR
34.6	PROPOSED SPOT ELEVATION ME = MATCH EXISTING EOF = EMERGENCY OVERFLOW
— — — — — —	PROPOSED GRADING LIMITS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION STAKING / LAYOUT.
3. OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS. SUBMIT A COPY OF ALL PERMITS TO THE CITY.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.
5. INSTALL CONTROL FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC.
6. INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.
7. REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.
8. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
9. REFER TO ARCHITECTURAL PLANS FOR BUILDING AND STOOP DIMENSIONS AND LAYOUT.
10. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
11. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
12. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.
13. MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.
14. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS OTHERWISE NOTED.
15. PROPOSED ELEVATIONS SHOWN TYPICALLY AS 30.1 OR 30 SHALL BE UNDERSTOOD TO MEAN 1130.1 OR 1130.
16. SPOT ELEVATIONS SHOWN IN PARKING LOTS, DRIVES AND ROADS INDICATE GUTTER GRADES, UNLESS NOTED OTHERWISE. SPOT ELEVATIONS WITH LABELS OUTSIDE THE BUILDING PERIMETER INDICATE PROPOSED GRADES OUTSIDE THE BUILDING. SPOT ELEVATIONS WITH LABELS INSIDE THE BUILDING PERIMETER INDICATE PROPOSED FINISH FLOOR ELEVATIONS.
17. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL, AS REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
18. NO FINISHED SLOPES SHALL EXCEED 4' HORIZONTAL TO 1' VERTICAL (4:1), UNLESS OTHERWISE NOTED.
19. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD, WHICH ARE NOT DESIGNATED TO BE PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
20. WHERE NEW SOD MEETS EXISTING SOD, CUT A CLEAN, SHARP EDGE TO ALLOW FOR A CONSISTENT, UNIFORM, AND STRAIGHT JOINT BETWEEN NEW SOD AND EXISTING TURFGRASS. JAGGED OR UNEVEN JOINTS WILL NOT BE ACCEPTED. REMOVE TOPSOIL AT THE JOINT BETWEEN NEW SOD AND EXISTING TURFGRASS, AS REQUIRED, TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING TURFGRASS SURFACE.
21. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.
22. ALL WATER SERVICE PIPE SHALL BE COPPER TYPE K CONFORMING TO ASTM B 88-62. ALL WATER SERVICE PIPING SHALL HAVE MINUMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE).
23. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 26), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
24. ALL STORM SEWER PIPE SHALL BE PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
25. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
    a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
    b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
        i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
        ii. PRESS-SEAL, WATERSTOP GROUTING RINGS"
        iii. OR APPROVED EQUAL.
26. INSTALL WATERMAIN AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE, OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
27. INSTALL MANOLES, CATCH BASINS, STORM SEWER, SANITARY SEWER, DRAIN TILE, AND OTHER POTENTIAL SOURCES OF CONTAMINATION AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
28. LOCATE ALL EXISTING UTILITIES. VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. BEFORE BEGINNING CONSTRUCTION.
29. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
30. MAINTAIN DRAINAGE FROM EXISTING BUILDING AT ALL TIMES. PROVIDE TEMPORARY STORM SEWER, INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, PIPING, AND SIMILAR. DO NOT REMOVE EXISTING STORM SEWER UNTIL TEMPORARY OR PERMANENT STORM SEWER IS INSTALLED AND FUNCTIONAL. COORDINATE ALL REMOVALS WITH APPROPRIATE TRADES (SITE UTILITY CONTRACTOR, MECHANICAL CONTRACTOR, ETC.) AS EQUIRED.

BENCHMARKS (FIELD VERIFY BEFORE USING)

1.) TOP OF TOP NUT OF HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE CONCRETE SLAB DIRECTLY EAST OF THE AIRPORT TERMINAL BUILDING.
Elevation = 1133.13 NAVD88

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I:\MMRS\25X\141\25000\CAD\CED\141173_C3.01 GRADING.dwg 6/12/2026 12:31:19 PM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BILL DIEDE
LIC. NO. 48688 DATE 05/27/2026

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DESIGNED	NO.	ISSUED FOR	DATE
DDL	1	ADD 1	06/12/2026
DRAWN			
DDL			
CHECKED			
SPP			
CLIENT PROJ. NO.			
25X.141173			

MORRIS MUNICIPAL AIRPORT (MOX)
AIRPORT TERMINAL BUILDING RECONSTRUCTION
GRADING AND DRAINAGE PLAN

SHEET
C3.01

CITY OF MORRIS, MINNESOTA

MORRIS AIRPORT TERMINAL BUILDING

Charlie Schmidt Field-Mox, 50725 MN Highway 28, Morris, MN 56267

RECONSTRUCTION

RESOURCE LIST

CITY OF MORRIS

City Hall
610 Oregon Avenue
Morris, MN 56267
Phone: (320) 589-3141

City Administrator:
Rebecca Schrupp

Mayor:
Kevin Wohlers

City Council Members:
Jeff Miller
Brian Solvie
Kim Gullickson
Brad Dahlen

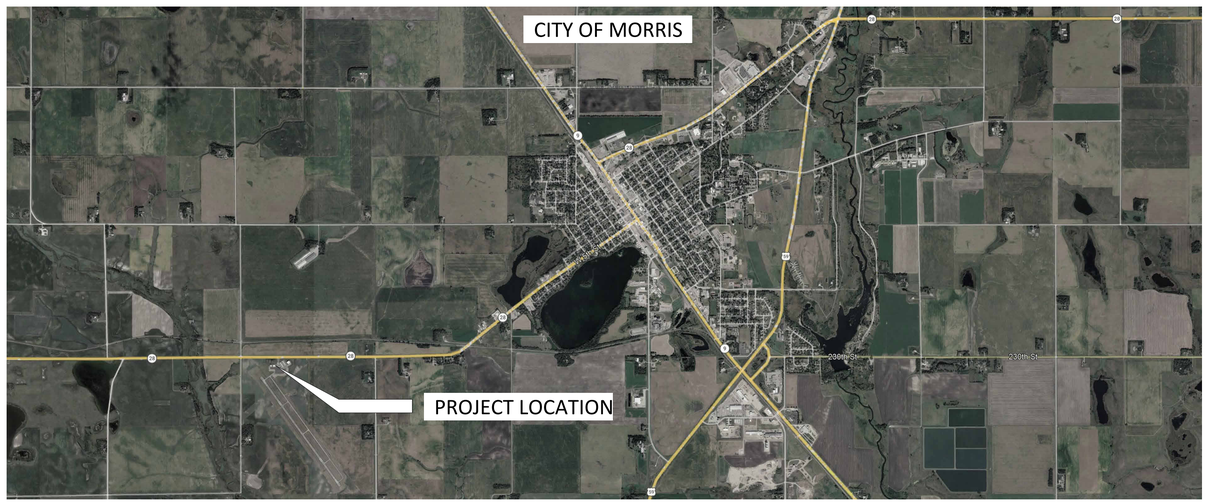
Project Engineer:
Silas Parmar, P.E.

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Ramsey, MN 55303
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Utility Superintendent:
Ryan Mogard
Water/Wastewater Supervisor



*ARTIST RENDERING NOT TO BE USED FOR CONSTRUCTION



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C3.01	GRADING AND DRAINAGE PLAN
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C4.02	CIVIL DETAILS
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M2.00	HVAC & DEMOLITION PLANS
M3.00	MECHANICAL DETAILS & PLUMBING RISERS
M4.00	MECHANICAL SCHEDULES
M5.00	MECHANICAL SPECIFICATIONS
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E1.00	ELECTRICAL DEMOLITION PLAN
E2.00	ELECTRICAL PLAN
E3.00	ELECTRICAL SCHEDULE
E4.00	ELECTRICAL DETAILS
E5.00	ELECTRICAL SPECIFICATIONS

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MATERIAL ID LIBRARY

MAT ID	MATERIAL DESCRIPTION
07 27 00	
AB-2	DETAILING MEMBRANE, HIGH-PERFORMANCE, SELF-ADHERING, BUTYL FLASHING
07 27 00	
AB-3	FIBER REINFORCED - MODIFIED PE/PP SHEET - BOD: SIGA MAJREX 200
07 26 00	
AB-5	SPUN BOUND HIGH DENSITY POLYETHYLENE SHEET. BOD: TYVEK COMMERCIALWRAP OR APPROVED EQUAL
09 51 00	
ACT-1	24"X24" - MINERAL FIBER WITH SQUARE EDGE - 3/4"- BOD: KANOPI, ULTIMA, LAY-IN 1910LECD [WHITE]. SUSPENSION GRID - BOD: KANOPI SUPRAFINE [WHITE]
08 31 00	
AP-1	ACCESS PANEL: 18" X 18", FLUSH, STEEL, LOCKING
06 46 00	
BM-1	WOOD BASE MOULDING: 3-1/2" X 3/4" WITH BEVELED EDGE; FINISH: MATCH CASEWORK
03 30 00	
CFIN-10	POLISHED CONCRETE
06 46 00	
CR-1	WOOD CHAIR RAIL: 3-1/2" X 3/4"; FINISH: MATCH CASEWORK. INSTALL ON ALL BRIEFING ROOM WALLS ONLY
05 45 00	
ETS-1	ENGINEERED THIN STONE VENEER - BOD: ARRISCRAFT, FINISH: ASH STACK
07 46 23	
EWS-1	ENGINEERED WOOD SIDING - HORIZONTAL LAP SIDING 6" - BOD: LP NATURAL COLLECTION, [TUNDRA GRAY]
07 46 23	
EWS-2	ENGINEERED WOOD SOFFIT PANEL - BOD: LP NATURAL COLLECTION [SAFRON CEDAR]
07 46 46	
EWS-3a	ENGINEERED WOOD TRIM - BOD: LP SERIES 540 TEXTURED 3-1/2" [TUNDRA GRAY]
07 46 46	
EWS-4a	ENGINEERED WOOD TRIM- OUTSIDE CORNER - BOD: LP SERIES 540 TEXTURED 3-1/2" [TUNDRA GRAY]
10 44 00	
FE-1	10 LBS EXTINGUISHER, ABC TYPE
10 44 00	
FEC-2r	SEMI-RECESSED FIRE EXTINGUISHER CABINET, PREFINISHED STEEL
08 54 13	
FGW-1	FIBERGLASS WINDOW - BOD: MARVIN ESSENTIAL
10 28 00	
GB-1	STAINLESS STEEL GRAB BAR
09 29 00	
GBD-1	5/8" TYPE X
08 80 00	
GL-1T	1" INSULATED LAMINATED, CLEAR GLASS - TEMPERED
08 80 00	
GL-10	3/8" THICK LAMINATED - CLEAR GLASS
08 80 00	
GL-15	INSULATING UNIT - 1" THICK - ARGON FILLED - CLEAR GLASS WITH COATING.
06 16 43	
GSH-1	5/8" TYPE X - EXTERIOR FIBERGLASS-FACED GYPSUM
08 11 13	
HMD-1	HOLLOW METAL DOOR - FLUSH
08 11 13	
HMD-2	HOLLOW METAL DOOR - INSULATED - FULL GLASS
08 11 13	
HMD-3	HOLLOW METAL DOOR - INSULATED - HALF GLASS
08 11 13	
HMF-1	HOLLOW METAL FRAME
08 11 13	
HMF-5a	HOLLOW METAL FRAME
07 21 00	
INSL-5	FIBERGLASS BATT WALL INSULATION - DEPTH TO MATCH STUD
07 22 00	
INSL-6	POLYISO ROOF INSULATION
07 21 00	
INSL-11	PERIMETER INSULATION (EXTRUDED POLYSTYRENE) FOR BELOW GRADE
07 31 13	
KA-1	GLASS DOOR MERCHANDISER REFRIGERATOR: B.O.D: KATOM - TRUE CVM-27-HC~EGC01 30" CVM SERIES ONE SECTION GLASS DOOR MERCHANDISER, (1) LEFT HINGE DOOR, COLOR: BLACK
08 91 19	
LVR-1	24"x 24" LOUVER. BOD: GREENHECK RAIN LOUVER EHH-401
07 62 00	
MBF-1	HIGH TEMPUNDERLAYMENT - SELF ADHERING - RUBBERIZED ASPHALT
10 28 00	
MIR-1	MIRROR WITH STAINLESS STEEL FRAME - SIZE AS INDICATED ON DRAWINGS
07 42 43	
MP-1a	FIRE RATED METAL WALL PANEL - 3", INSULATED, 24 GAUGE, PREFINISHED GALVANIZED STEEL, FINISH TO MATCH EXISTING METAL PANEL
07 42 43	
MP-4	PREFINISHED GALVANIZED STEEL METAL PANEL FASCIA COVER. 20 GAUGE, [DARK BRONZE]
07 42 43	

MATERIAL ID LIBRARY

MAT ID	MATERIAL DESCRIPTION
MP-5	STANDING SEAM METAL PANEL, PREFINISHED GALVANIZED STEEL METAL PANEL, 22 GAUGE, [DARK BRONZE]
04 70 00	
PCS-1	PRE-CAST STONE SILL
09 91 23	
PT-1	INTERIOR PAINT, CEILING - GREY. BOD: SHERWIN WILLIAMS, CITYSCAPE SW7067
09 91 23	
PT-2	INTERIOR PAINT, WALL - GREY. BOD: SHERWIN WILLIAMS, PASSIVE SW7064
09 91 23	
PT-3a	INTERIOR PAINT - GREEN. BOD: SHERWIN WILLIAMS, ACACIA HAZE SW9132
09 91 23	
PT-3b	INTERIOR PAINT - GREEN. BOD: SHERWIN WILLIAMS, PEWTER GREEN SW6208
09 65 13	
RB-1	RESILIENT WALL BASE - 4" HIGH
07 31 13	
SG-1	SNOW GUARD - PREFINISHED GALVANIZED STEEL FLASHING - 22 GA - [Match Roof]
10 14 23.16	
SIGN-2	ACRYLIC - BACK PAINTED SIGNS WITH RAISED LETTERING AND BRAIL
10 14 23.16	
SIGN-3	ACRYLIC - BACK PAINTED SIGNS WITH RAISED LETTERING AND BRAIL
07 31 13	
SMF-1a	PREFINISHED GALVANIZED STEEL FLASHING - 24 GA - [COLOR TO MATCH MP-1a]
07 31 13	
SMF-1b	PREFINISHED GALVANIZED STEEL FLASHING - 24 GA - [DARK BRONZE]
07 31 13	
SMF-3	STAINLESS STEEL FLASHING - 20 GA - #4 SATIN FINISH
07 31 13	
SMF-10	ROOF GUTTER - PREFINISHED GALVANIZED STEEL - 22 GA - [DARK BRONZE]
07 31 13	
SMF-11	GUTTER DOWNSPOUT - PREFINISHED GALVANIZED STEEL - 24 GA - [DARK BRONZE]
06 40 00	
SSF-1	SOLID SURFACE: WOOD
06 40 00	
SSF-2	SOLID SURFACE: COUNTERTOP
06 40 00	
SSF-3	SOLID SURFACE: XX
10 28 00	
TA-1	TOILET TISSUE (DOUBLE ROLL) DISPENSER - STAINLESS STEEL - BOD: (MANUF/MODEL)
10 28 00	
TA-2	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE COMBINATION UNIT-STAINLESS STEEL - BOD: (MANUF/MODEL)
10 28 00	
TA-4	SOAP DISPENSER - STAINLESS STEEL - BOD: (MANUF/MODEL)
10 28 00	
TA-5	SANITARY NAPKIN DISPOSAL
10 21 13	
TCOMP-1	PAINTED STEEL TOILET COMPARTMENTS, FLOOR MOUNTED, OVERHEAD BRACED
03 15 00	
UVR-1	POLYETHYLENE SHEET - 15 MIL MIN THICKNESS - BOD: STEGOWARP OR APPROVED EQUAL
06 10 00	
WBLK-1	CONCEALED OR EXPOSED FIRE TREATED WOOD BLOCKING. INSTALL AT ALL WALL MOUNTED ELEMENTS
06 40 00	
WD-1a	TRANSPARENT WHITE OAK WOOD SURFACE. STAIN AT ALL LOCATIONS EXCEPT KITCHEN AND TOILET ROOMS. STAIN COLOR PER OWNER.
06 40 00	
WD-1b	TRANSPARENT WHITE OAK WOOD SURFACE. STAINED. COLOR PER OWNER.
06 16 00	

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Autodesk Docs://Morris Municipal Airport Terminal Building /Morris Municipal Airport Terminal Building_Arch Models V2.rvt

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

MATTHEW HOPKINS
LIC. NO. 64696 DATE 05/26/2026

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CHECKED	AML
CLIENT PROJ. NO	25X.141173

NO.	ISSUED FOR	DATE
1	ADD 1	06/12/2026

CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDING
MATERIAL IDENTIFICATION LIBRARY

SHEET A0.10

CONSTRUCTION DOCUMENTS

DIVISION 01 - GENERAL REQUIREMENTS

A. Materials
  a. All basis of design products are provided to define a level of product/system performance, quality and overall design intent. Contractors may also submit alternative products of equal or greater quality for approval during the bidding phase. Substitution requests shall provide all information required to demonstrate equal or greater quality.
  b. Follow all manufacturers required or recommended installation guidelines. Notify Architect immediately of any instances where manufacturer installation guidelines may conflict with the Contract Documents.
  c. Provide all accessories as required for a complete installation and as required or recommended by the manufacturer
  d. Protect in Place: Protect all stored and installed materials from damage. Remove and replace any & all damaged materials as soon as they are found. Do not install materials which are damaged. Store products off the ground, undercover and protected from the environment
  e. Deliver all materials in original manufacturer packaging or cartons.
B. Coordination and Owner's Separate Contracts:
  a. Construction Schedule: Promptly after award the Contractor shall provide a construction schedule for review by the Architect/Engineer. Schedule shall show the critical path sequence to deliver the project within the time allotted. Separate and show tasks by division of work. Contractor shall maintain the construction schedule throughout construction and update with each payment application.
  b. Coordinate between all trades and Owner's separate contracts including but not limited to size and location of openings, attachment, "built-in" or "cast-in" elements, sequencing of install, etc.
  c. The existence and location of existing/concealed elements are not guaranteed. Before beginning Work, investigate and verify the existence and location of concealed elements such as underground utilities.
  d.
C. Construction Waste:
  a. The construction site should be maintained in a clean and orderly manner. Waste and miscellaneous materials should not be allowed to accumulate unnecessarily onsite. Regularly clean the site and when requested by the Architect/Engineer/Owner.
  b. Contractor shall be responsible to legally dispose of all construction waste material. Reasonable care should be taken to separate and recycle as much construction waste as possible including but not limited to cardboard and boxes, polystyrene packaging, pallets and crates.
D. Submittals:
  a. Promptly after award the Contractor shall submit a submittal schedule for approval. The submittal schedule shall be coordinated with the Contractor's construction schedule and allow up to ten (10) business days for initial reviews and five (5) business days for second reviews. If the contractor fails to submit a submittal schedule or fails to provide submittals in accordance with the approved submittal schedule the contractor shall not be entitled to any increase in Contract Sun or extension of Contract time based on the time required for review of submittals.
  b. Prior to delivering materials to the site or initiating installation, all products require shop drawings, product data and/or material sample submittals to be submitted to the Architect/Engineer for approval prior to proceeding with the Work. Include layout, plans, elevations, details. Schedules, samples and product technical data to fully convey the design intent indicated within the Contract Drawings.
  c. Submittals will be provided in PDF format and will utilize a cover page/form as provided by Architect/Engineer. Shop Drawings provided without the required form will be returned "not reviewed". Contractors submission of shop drawings is acknowledgement that the Contractor has reviewed the Contract Documents and submittal and agrees that they are in conformance with the Contract Documents.
  d. Prior to submitting shop drawings to the Architect/Engineer, field verify all conditions or indicate "work to" dimensions where field verification is not possible prior to submitting shop drawings.
  e. Contractor will reimburse Owner for any architectural or engineering fees for submittals which requires more than two (2) reviews.
  f. The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect or Engineers approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and the Architect has given written approval to the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.
  g. Resubmittals shall highlight and/or cloud all changes from the original submittal. Failure to highlight all changes from the initial submittal will result in the submittal being returned "not reviewed".
  h. Provide calculations signed by an engineer registered in the state of Minnesota for systems which require delegated design such as:
    - Engineered Wood Truss System
    - Aluminum Framed Entrance System
E. Requests for Information (RFI):
  a. Provide RFIs to Architect/Engineer using cover page/form as provided by Architect/Engineer.
  b. Contractor shall reimburse the Owner for Architect/Engineer's fees for consistently requesting information which can/could be reasonably found within the contract documents.

DIVISION 01 - GENERAL REQUIREMENTS

F. Temporary Facilities and Controls
  a. Contractor is responsible for all temporary utilities and facilities and shall obtain and pay for all temporary hook-ups as required for the work including but not limited to: Electric, Water, and data connections.
  b. Contractor to provide temporary toilet facilities for airport operations during the duration of construction. Toilet facilities to be one accessible male and one accessible female which are heated in the fall/spring and winter months. Provide continuous service to maintain clean facilities.
G. Payment:
  a. Schedule of Values: Promptly after award the Contractor shall provide a schedule of values for review and approval. Schedule of Values shall become the basis of future payment applications. Minimally separate the values by "Materials" and "Labor" for each division within the specification.
  b. Contractor will not be paid for any materials which are stored offsite. Only materials which are delivered and safely stored will be reimbursed.
  c. Submit Payment application Monthly including but the schedule of values and updated construction schedule. Allow 10 business days for review and approval.
H.

DIVISION 02 DEMOLITION

A. A. Examination
  a. Verify that utilities have been disconnected and capped before starting selective demolition operations.
  b. Review Project Record Documents of existing construction or other existing conditions and hazardous material information provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.
  c. Verify that hazardous materials have been remediated before proceeding with building demolition operations.
B. Preparation
  a. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
    - Strengthen or add new supports when required during progress of selective demolition.
  b. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
    - Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of the site.
    - Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
    - Protect walls, ceilings, floors, and other existing finishes that are to remain or that are exposed during selective demolition operations.
  c. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walkways, and other adjacent occupied and used facilities.
  d. Disposal of Demolished Materials: Remove demolition waste materials from Project site; do not allow demolished materials to accumulate on-site. Do not burn demolished materials.
  e. Cleaning: Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began

DIVISION 03 - CONCRETE

A. Concrete
  a. **(CS-1)** Concrete Sealer: Water based, clear acrylic-copolymer-emulsion sealer formulated for oil, gasoline, alkali and water resistance and for use on concrete traffic substrates. Basis of Design: VOCOMP-20 by WR Meadows
  b. **(CFIN-10)** Polished Concrete Finish
    1. Administrative
      1. Qualifications: Contractor to have previously completed at least 5 projects of similar size and complexity.
      2. Polishing Concrete Standards: Comply with ACI 310.1
      3. Verification: Verify that the concrete substrates are acceptable for grinding and polishing and product installation as recommended by the manufacturer. Do not begin until unsatisfactory conditions have been addressed and corrected.
    2. Polished Concrete Surface Finish
      1. Aggregate Exposure Class: Class B – Fine Aggregate 85-95 percent, 5-15 percent blend of fines and aggregate
      2. Polished Concrete Appearance Level: Level 2 – Datin (honed) up to 300 grit polished. Haze reading less than 10, reflective sheet low-to-medium
      3. Slip-Resistance: Minimum Dynamic Coefficient of friction of 0.42. Provide required slip resistance based on final gloss level and determined by the Concrete Polishing Council.
      4. Visually inspect throughout polishing. Remove defects and repolish areas as required.
    3. Materials
      1. Penetrating Liquid Floor Treatment: Provide and install a clear Liquid Densifier and Sealer to all polished concrete Apply in sequence with polishing as required.. Basis of Design: Euco Diamond Hard by Euclid Chemical Company.
    4. Mockup: Contractor to provide mockup for review of not less than 100 sq ft. Coordination location with Architect and Owner. Only proceed with remainder of floor following approval of mockup. Mockup will be reviewed for overall grind appearance consistency

DIVISION 06 - WD, PLASTICS, COMPOS

A. Wood
  a. **(WBLK-1)** Wood Blocking - Concealed or exposed fire treated wood blocking. Install at all wall mounted elements
  b. **(WST-1)** Wood Stud, Nominal Framing Lumber
    1. **ACCESSORIES:**
      1. **(SLS-1)** Sill Sealer
        a. 3/8" thick self adhesive closed cell foam
        b. Basis of Design:
  c. **(WSHG-5)** 5/8",C-D, touch sanded, exterior exposure
B. Gypsum Sheathing
  a. Standards:
    1. Gypsum Sheathing: ASTM C1177, ASTM E136
  b. Materials:
    1. **(GSH-1)** 5/8" Type X, Exterior Fiberglass-Faced Gypsum
      A. Basis of Design: DensGlass Exterior Sheathing
  c. Accessories:
    1. Fasteners - ASTM C1002, corrosion resistant treated
C. Architectural Mill Work
  a. **(BM-1)** Wood Base Moulding - 3-1/2" X 3/4" with beveled edge
    1. Finish: Match kitchen cabinetry
  b. **(CR-1)** Wood Chair Rail - 3-1/2" X 3/4" Rectilinear profile
    1. Finish: Match kitchen cabinetry
D. Architectural Wood Casework
  a. Qualifications: A manufacturer of commercial architectural casework with not less than 5 projects of similar size and complexity.
  b. Solid Wood Casework
    1. Standard
      1. Structural Performance Duty Level: Level Three, All components
      2. Aesthetic Performance Grade: Custom, All components
    2. Construction
      1. Casework Construction Type: Face Frame
      2. Door and Drawer Front: Flush Panel, Reveal Overlay as determined by hinge clearance
      3. Exposed interior cabinet surface: Solid Wood.
      4. Exposed interior drawer surface: Solid Wood
      5. Shelves: Adjustable
      6. Edge banding:
        a. Face frames: **(WD-1a)** to match face
        b. Other: PVC, 3.0mm thick
      7. Materials:
        a. **(WD-1a)** White Oak, Transparent finish
        b. **(WD-1b)** White Oak, Stained. Color as selected by owner
  c. Hardware
    1. Hinge: Frameless concealed hinge (Euro type): Self Closing with integral soft damper
    2. Pull: Wire-Pull, back mounted, solid metal, 4: long, stainless satin finish
    3. Shelf Rest: ANSI/BHMA-A156.9, B4013, two-in plastic with shelf hold down clip
    4. Drawer Slide: Heavy Duty Grade 1, undermount with full extension and soft close damper
    5. Door bumpers: Self Adhering clear silicone pads
  d. Notes:
    1. Standards: Comply with AWI 0641-2019 for duty level and grade of casework
    2. Cut and scribe casework to adjoining work. Install plumb and true to tolerance of 1/8" in 8'-0"
    3. Adjust all hardware to properly function and close with true alignment between adjacent doors, drawers and cabinets.
    4. Coordinate, Provide and install all necessary blocking concealed within wall for mounting of Architectural Wood Casework
    5. Environmental Limitations. Do not deliver or install cabinets until building is enclosed and wet work is complete and HVAC system is operating and maintaining typical operating temperature and humidity.
    6. Field verify all measurements where casework is to fit with other components of the project. Provide field measurements prior to submission of shop drawings.
E. Solid Surface **(SSF-x)**
  a. Standard:
    1. ANSI-1236
    2. Homogeneous fabrication of mineral fillers and pigments bound together with a matric of polymers and resins complying with ISFA-2-01
  b. Thickness: ½" typical, laminate multiple layers as required
  c. Exposed edge Treatment: Square with eased edges
  d. Backsplash/End Splash: 4" tall, ½" thickness, match countertop, supply loose for field installation.
  e. Color and Pattern: Color and Pattern as selected by architect from manufacturer's standard range
    1. **(SSF-2)**: Countertop - - -
    2. **(SSF-3)**: Window sill - - -
  f. Notes:
    1. Scribe as required for tight fitment with adjacent work.
    2. Coordinate with plumbing fixtures for cutouts, obtain templates as required.
    3. Minimize joints in all pieces to the greatest degree possible.
    4. Provide and install continuous silicone sealant at adjoining surfaces.
    5. Provide and install continuous sub-top plywood underlayment to support countertops between cabinets. Mechanically fasten sub-top. Adhere finished countertop to sub-top.
    6. Examine conditions prior to installation. Correct deficiencies prior to proceeding with installation

DIVISION 07 - THERMAL PROTECTION

A. Air Barrier
  a. **(AB-5)** Weather barrier
    1. 100% flash spunbonded high density polyethylene
    2. Provide continuous weather barrier around structure.
    3. Reduce and eliminate seams where possible by using largest available sheets. Shingle-lap all horizontal seams.
    4. Shingle lap all seams with not less than 6" overlap. Seal all seams with manufacturer recommended, pressure sensitive tape.
    5. Use **(AB-2)** at all penetrations including but not limited to windows, doors, pipes, conduits and vents, etc.
    6. Basis of Design: Tyvek Commercial Wrap by DuPont
    7.
  b. **(AB-2)** Detailing Membrane
    1. High-performance, self-adhering, butyl flashing
    2. Use at all detail conditions around openings and penetrations. Coordinate with window installation guidelines where required.
    3. Basis of design: FlexWarp by DuPont
  (WP-1) Waterproofing
    1. Fluid Applied Membrane
      1. High-Build Air Barriers, Vapor Permeable Synthetic polymer membrane
      2. Use at all Footing and Foundation
      3. Basis of design: GCP Applied Technologies, Henry Company
B. Vapor Barrier/Retarder
  a. **(UVB-1)** Under Slab Vapor Barrier
    1. 15 mil polyethylene, 0.01 perm rating and Class A Strength
    2. Provide and install continuous below slab. Seal with manufacturer supplied mastic at all penetrations and edge conditions.
    3. Lap not less than 6" where adjoining separate pieces and seal with manufacturer recommended pressure sensitive tape.
    4. Basis of Design: Stego Industries, Stego Wrap vapor barrier (15 mil)
C. Insulation
  a. Rigid Insulation
    1. **(INSL-11)** Extruded Polystyrene Foundation Insulation
      1. 2" thickness, Extruded polystyrene, with dovetail drainage grooves, minimum compressive strength of 30 psi, min r value 5 per inch
      2. Provide multiple layers where required. Stager seams. Dovetail drainage grooves not required on outside layer.
      3. Basis of design: Dow Styrofoam Brand Square Edge
  b. Batt insulation
    1. **(INSL-5)** Fiberglass Batt Wall Insulation
      1. Unfaced, friction fit
      2. Thickness: Fill Wall Cavity
      3. Install per manufacturer instructions to fill cavity. Cut neatly around all objects to avoid over-compressing material
      4. Basis of Design: Owens Corning, Fiberglas
    2. **(INSL-6)** Polyisocyanurate Insulation
      A. Glass-reinforced felt each side
      B. 2" Thickness, Min r value 5 per inch
      C. Provide multiple layers where required. Stager seams..
      D. Basis of design: Carlisle InsulBase
  c. Accessories
    1. Spray Foam: closed cell, fire resistant spray foam to seal all penetrations and gaps/seams to maintain insulation continuity
D. Sheet Metal Flashing
  a. Standards:
    1. Qualifications: Manufacturer and installer to have completed not less than 5 commercial projects of similar size and scale within the last 3 years.
    2. Sheet Metal Standard for Flashing and Trim: Comply with SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
  b. **(SMF-1x)** Miscellaneous Trim and Flashing
    1. Factory, Prefinished galvanized steel, 24-gauge min, smooth
    2. Finish: Selected by architect from manufacturer's standard range
      1. **(SMF-1a)** = Rapid Blue
      2. **(SMF-1c)** = Black
    3. Field or factory formed as required for a complete and weathertight installation
    4. Provide all roof, door and drip, or penetration conditions as required for a weathertight seal.
  c. **(SMF-3)** Stainless Steel Base Flashing
    1. 20-gauge/0.0375 inch stainless steel flashing with No. 4 (satin) finish
    2. ASTM 240/240M, Type 316 dead soft, fully annealed
    3. Continuous at grade base flashing for full building perimeter. Install in not less than 12'-0" sections.
  d. **(SMF-10)** Gutters
    1. Material: prefinished galvanized steel, 22-gauge min
    2. Size: 7" width x 5-1/2" depth, Box style with concealed hangers
    3. Finish: Selected by architect from manufacturer's standard range.
    4. Notes:
      1. Provide sections as long as possible but not less than 12'-0"
      2. Provide end closures and seal water tight with sealant
      3. Space gutter brackets/anchors not more than 24" OC
      4. Include expansion joint at least every 50'-0"

DIVISION 07 - CONTINUED

  e. **(SMF-11x)** Downspouts
    1. Material: prefinished galvanized steel, 24-gauge min
    2. Size: rectangular, 4"x5"
    3. Finish: Selected by architect from manufacturer's standard range.
    4. Accessories
      1. Include wire downspout strainer at all downspouts
      2. Provide fabricated miters and offsets which match finish of downspout
    5. Notes:
      1. Install in continuous drops with only seams at transitions, fittings or offsets.
      2. Holt downspout 1" away from wall and fasten with wall brackets not less than 60" OC
  f. Warranty:
    1. Manufacturer and Installer agree to repair or replace flashing that shows evidence of leaking or deterioration of finish within 10 years from the date of substantial completion.
      1. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
      2. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
      3. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
  g. Notes:
    - Form flashing to substrate without excessive oil canning, buckling or tool marks, true to line, levels and slopes and with exposed edges folded back to form hems.
    - Conceal fasteners where possible and locate to minimize possible leakage pathways.. Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners that penetrate wood blocking not less than 1 ¼" or as recommended by manufacturer.
    - Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, are to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim are not to rattle, leak, or loosen, and are to remain watertight
    - Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.
    - Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.
E. Metal Panel
  a. Standards:
    1. Qualifications: Manufacturer and installer to have completed not less than 5 commercial projects of similar size and scale within the last 3 years.
    2. Performance: Manufacturer to verify fastener spacing for wind loads as indicated on the structural drawings. Provide recommendation in writing with shop drawings for record.
  b. **(MP-1a)** Fire Rated Metal Wall Panel, Insulated
    1. 3" thickness
    2. Non-combustible structural mineral wool core
    3. Factory, prefinished galvanized steel, 24-guage min.
    4. Finish to match existing metal panels
    5. Basis of Design: Metl-Span Thermalsafe
    6. Exposed Screw Fastener with sealing washer with Matching Trim
    7. Performance: Manufacturer to verify fastener spacing for wind loads. Provide recommendation in writing with shop drawings for record.
  c. **(MP-5)** Standing Seam Metal Panel Roof
    1. Factory, Prefinished galvanized steel, 22-gauge min, smooth
    2. Finish: Selected by architect from manufacturer's standard range.
    3. Basis of Design: Elevate Standing Seam Panel - UC-4
    4. Provide all materials and accessories from single manufacturer.
    5. Performance: Manufacturer to verify fastener spacing for wind loads. Provide recommendation in writing with shop drawings for record.
    6. Other Roof Accessories:
      A. Roof Panel Accessories: Provide components required for a complete, weathertight roof panel system, including trim, copings, fascia, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal roof panels unless otherwise indicated
      B. High Temperature Underlayment: Provide and Install 30 mil thick, self adhering high temperature resistant, cold applied underlayment though out. Basis of Design: Sharkskin Ultra SA
      C. Trim: Trim shall be fabricated of the same material and finish to match the profile, and will be press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer of their approved dealer. Trim to be indicated on drawings. Miter conditions shall be factory welded material to match the sheeting.
      D. Closures: Use composition or metal profiled closures at the top of each elevation to close ends of the panels. Metal closures to be made in the same material and finish as face sheet.
      E. Fasteners: Fasteners shall be of type, material, size, corrosion resistance, holding power and other properties required to fasten miscellaneous framing members to substrates.

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

MATTHEW HOPKINS
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CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDING
SPECIFICATIONS

SHEET
A0.15

CONSTRUCTION DOCUMENTS

DIVISION 07 - CONTINUED

e. Accessories
   1. **(SG-1)** Snow Guard
      1. Prefinished galvanized steel, match roofing color, 22 ga min
      2. Formed "V" profile 2" high min, hem both edges, screw fastened.

f. Warranty:
   1. Manufacturer and Installer agree to repair or replace metal panels or associated trim that shows evidence of leaking or deterioration of finish within 10 years from the date of substantial completion.
      1. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
      2. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
      3. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

g. Notes:
   1. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work. Examine sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal panel manufacturer. Proceed only after unsatisfactory conditions have been corrected.
   2. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages in accordance with ASTM C754 and metal roof panel manufacturer's written recommendations.
   3. Flash and seal metal roof panels at all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that are concealed by metal roof panels are installed and properly terminated. Provide/install silicone pipe jacks at all pipe penetrations at roof.
   4. Provide and install separate blocking and flashing for all other penetrations.
   5. Fasten metal panels to supports with fasteners with spacing recommended by manufacturer for the performance indicated. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer. Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
   6. Install without excessive oil canning, buckling and tool marks. Install true to line and level.
   7. Install all trim and panels with as few pieces as possible. Minimize joints in materials to the greatest degree possible.

F. Engineered Wood Siding **(EWS-1)**
   a. Engineered wood products manufactured for exterior use treated with manufactures proprietary process to resist fungal decay and termite damage
   b. Product Data: For each type of product and component included in engineered wood siding system. Include the following:
      1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of product and accessory included in siding system.
      2. Installation methods, including nailing patterns.
      3. Siding manufacturer's requirements for products to be installed by others.
      4. Maintenance and periodic inspection recommendations.
   c. Shop Drawings: For engineered wood siding.
      1. Include plans, elevations, sections, and attachment details.
      2. Detail expansion joints, material joints, angle changes, flashing's, and abutment to adjacent Work.
   d. Treated Engineered Wood Lap Siding: Exterior-grade, resin-saturated,paper overlay laminated to EPA-registered zinc-borate-resistance. Manufacturer's acrylic finish.
      1. Basis-of-Design Product: Subject to compliance with requirements, provide
      2. Louisiana-Pacific Corporation; LP SmartSide Lap Siding and ExpertFinish Lap & Siding,
      3. Thickness: 0.354 inch total thickness.
      4. Width: 6 inches.
      5. Length: 12 ft. or 16 ft.
      6. Color: LP Tundra Gray
      7. Texture: Cedar texture.
   e. Treated Engineered Wood Vertical Siding: Exterior-grade, resin-saturated, paper overlay laminated to EPA-registered for moisture resistance. Manufacturer's acrylic primer finish.

G. Engineered Wood Soffit Panel **(EWS-2)**
   a. Vented
   b. Basis of Design: LP Natural Collection
   c. Thickness: 0.354 inch total thickness.
   d. Color: LP Safron Cedar
   e. Texture: Cedar texture

DIVISION 07 - CONTINUED

H. Treated Wood Trim Provided **(EWS-3a)**
   a. LP's SmartSide Trim and Fascia "540 Series."
   b. Thickness: 0.970 inches total thickness.
   c. Width: 2.5 inches and 3.5 inches
   d. Length: 16 ft.
   e. Edges: Square.
   f. Color:Tundra Gray
   g. Texture: Cedar texture.

J. Treated Engineered Wood Outside Corners:**(EWS-4a)** Exterior-grade, resin-saturated, paper overlay laminated to EPA-registered zinc-borated-treated engineered wood siding. Exposed edges sealed for moisture resistance. Manufacturer's acrylic primer finish.
   a. Color Tundra Gray
   b. Basis-of-Design Product: Subject to compliance with requirements, provide Louisiana-Pacific Corporation; LP SmartSide Outside Corners and LP SmartSide ExpertFinish Outside Corners 540 Series or comparable product.
   c. Thickness: 0.970 inch total thickness.
   d. Width: 3.50 inches.
   e. Length: 10 ft.
   f. Texture: Cedar texture

K. Engineered Thin Stone Veneer **(ETS-1)**
   a. Pattern: Blend of at least three face rises, in random lengths
   b. Basis of Design: Arriscraft
   c. Finish: Split-Face
   d. Color: Ash Stack

L. Pre-Cast Stone Sill **(PCS-1)**
   a. Profile: See Details
   b. Basis of Design:
   c. Finish:

M. **(MAC-3)** Dimple Drainage Mat
   a. High strength dimple raised molded polystyrene core with a nonwoven geotextile fabric bonded to dimples of the core.
   b. Basis of Design: W. R. Meadows, Inc. MEL-DRAIN 5035
   c. Accessories: Termination Bar & Pointing Mastic

DIVISION 08 - OPENINGS

A. **(FGW-1)** Fiber Glass Window
   a. Standards:
      1. Manufacturer and installer with not less than 5 years of experience on commercial projects of similar size and complexity.
   b. High-Density fiberglass window frame with fixed sash and glazing
      1. Frame
         1. Exterior: High-Density Fiberglass one piece frame with Fluoropolymer FEVE (fluoroethylene vinyl ether) resin finish , Ebony
         2. Interior: High-Density Fiberglass one piece frame with Fluoropolymer FEVE (fluoroethylene vinyl ether) resin finish , White
         3. Jamb Depth: 4-1/2" (114 mm)
         4. Include Vinyl nailing fin
      2. Sash:
         1. Exterior: High-Density Fiberglass – finish to match frame
         2. Interior: Extruded Aluminum – finish to match frame
         3. Thickness: 2 1/4" (58 mm)
      3. Glazing: See drawings for Material ID
   c. Warranty:
      1. 10 year minimum on all components
   d. Note
      1. Coordinate weather seal with weather barrier and detailing membrane
      2. Basis of design, Marvin Essential Series (Picture Windows)

DIVISION 08 - CONTINUED

b. **(HMD-xx)/(HMF-xx)** Hollow Metal Doors and Frames
   - Exterior Doors and Frames
      1. Door:
         1. Duty Level Three .053 galvanized steel (A60)
         2. Enclose top edge of door with flush closure of the same material as the face sheet; seal completely against water penetration
         3. Provide weeps at bottom of door to permit moisture escape
         4. Insulated door with polyisosyanurate core
         5. Factory prime and field paint
         6. Size: As Noted on Drawings
      2. Frame:
         1. Duty Level 3, .053 thickness, fully galvanized steel (A60) hollow metal frame
         2. Full profile welded, thermally broken frame
         3. Size: As Noted on Drawings
      3. Performance:
         1. Thermally rated door assembly having u-factor not more than 0.09 btu/F x h h sq ft when tested according to ASTM C518
   - Interior Doors, Frames and Windows
      1. Door:
         1. Duty Level 2 .042 steel
         2. Enclose top edge of door with flush closure of the same material as the face sheet
         3. Internally reinforced door with formed steel members
         4. Factory prime and field paint
         5. Size: As Noted on Drawings
      2. Frame:
         1. Duty Level 2, .053, steel hollow metal frame
         2. Full profile welded
         3. Size: As Noted on Drawings
      3. Window Stop: Cold Rolled Steel, as required for application

c. Other Accessories
   1. Anchors: Provide a minimum of three jamb anchors per door with one additional anchor for every 24" above 7'-0. Provide floor anchor for each jamb and mullion that extends to the floor

d. Notes:
   1. Door astragals: Provide overlapping astragal on one leave of pairs of doors without a mullion. Extend a minimum of ¾" beyond door edge
   2. Door silencers: except on weather-stripped frames, drill stops to receive door silencers as recommended by the manufacturer.
   3. Prep doors to receive all hardware. Coordinate with hardware supplier accordingly prior to submission of shop drawings. Include reinforcement
   4. Install doors and frames plumb, rigid, properly aligned and secured in place. Comply with NAAMM-HMMA 840 and 841. Adjust doors as required for full swing without binding or catching and with even reveal at perimeter of door-to-frame.

E. Door Hardware
   a. General
      1. Coordinate all hardware with doors, frames, electrical, low voltage portions of the work before submitting shop drawings for review
      2. Hardware supplier to provide a proposed keying schedule with symbols and abbreviations. Submit copies to Owner for review.
      3. Obtain all hardware of the same type from a single manufacturer.
   b. Hinges
      1. Interior: Standard Weight, Ball Bearing, Grade 2, non rising pin
      2. Exterior: Heavy Weight, Ball Bearing, Non-Ferrous, Grade 1, non removable pin
      3. Notes:
         1. 3 equal spaced hinges per door up to 90", 1 additional hinge for every 30" for doors above 90"
         2. Flush hinges with width to accommodate trim and allow for 180 degree opening
   c. Power Transfer
      1. Provide Concealed type in door and frame when door is closed, two or ten wire as required for the application
      2. Supply with mud box to house all terminations
   d. Flush Bolt
      1. Manual Flush Bolt. 12" rods for doors less than 7'-6", 24" rods for doors over 7'-6" to 8'-6". Provide top and bottom bolt, include non-locking dust proof strike at bottom.
      2. Automatic Flush Bolts: Top and Bottom, Exposed
   e. Exit Devices
      1. Typical: Wide style push pad with exterior lever and manual key lock and dogging
      2. Alarm Type/Exit Only: Wide Style push pad with exterior pull handle. Audible alarm upon exit.
      3. Notes:
         1. No exposed fasteners on the back of glass doors
         2. Provide flush end caps to reduce potential damage from impact
         3. Provide with dead-locking latch bolts to ensure security. Coordinate to ensure adequate clearance and reinforcement where required.
         4. Provide optional strikes, special length rods and adapter plates to accommodate door and frame conditions. Provide harrow style series devise in lieu of wide stile series where optional strikes will not accommodate door and frame conditions.
   f. Locks and Latches
      1. Typical: Grade 1 Mortise Style
         1. 2 ¾" backset, ½" min throw, 1" throw deadbolt, 6 pin cylinders, ANSI A115.2 strikes
         2. Provide guarded latch bolt for all locksets and strike with lip length adequate to clear surrounding trim
         3. Lever Design as selected by Architect from Manufacturer's standard range

DIVISION 08 - CONTINUED

g. Closer
   1. Closers shall use high strength cast iron cylinders, forged main arms and one piece forged steel pistons
   2. Operational temperature between 120*f and -30*f
   3. Door closers shall have full covers and separate adjusting valves for sweeps, latch and backcheck. Provide with adjustable spring power. Size to ensure exterior and fire doors will consistently close and latch under project conditions and all other doors allow for reduced opening force not to exceed 5 lbs.
   4. Install on room side of interior doors and inside for exterior doors unless noted otherwise.
   5. Provide with powder coat finish
   6. Pressure Relief Valve shall not be acceptable

h. Lower Energy Electro-Hydraulic Automatic Operator
   1. Low Energy Operator shall comply with ANSI A156.19
   2. Include provisions for separate conduits to carry high and low voltage wiring in compliant with the National Electric Code.
   3. All covers, mounting plates and arms shall be powder coated.
   4. UL Listed for use on labeled doors
   5. All operators shall be non-handed with spring power over a range of at least four sizes (1-4 or 2-5)
   6. Include microprocessor controlled digital controls including factory default memory settings, on board diagnostics, non-volatile memory, and integrated delay and relay for controlling door release devices.
   7. Provisions in the control box or module shall provide control (inputs and outputs) for electric strike delay, auxiliary contacts, sequential operation, fire alarm systems, actuators, swing side sensors and stop side sensors.
   8. Wall mounted actuators shall consist of a 4.5 inch diameter stainless steel touch plate with a blue filled handicapped symbol. Switches shall be weather resistant and mount on a single gang electrical box furnished and installed by the contractor.
   9. Door must pause when meeting an object of resistance. Include an electronically controlled clutch to adjust opening force
   10. Provide an easily accessible main power and maintain hold hope switch. Include an onboard power supply capable of both 12v and 24v for all required loads, connections and controls in the application.
   11. Opener should function as a door closer. If an electrical failure occurs the unit shall operate as a standard door closer.

i. Kick Plates
   1. Size, Height: 10" kick plates, 34" armor plates
   2. Size, width: 2" less door width on single door, 1" less door width on double doors.
   3. Material: Stainless steel, brushed finish
   4. .050 thickness, beveled 4 sides with countersunk fasteners

j. Overhead Stops
   1. Provide surface mounted overhead stop where indicated and for all doors that open against equipment, casework, sidelights or other objects that would make wall bumper inappropriate
   2. Coordinate with door supplier to provide door reinforcement for mounting without through bolts
   3. Do not provide manual hold opens for rated/listed/labeled doors.

k. Wall Stops/Holders
   1. Furnish a stop or holder for all doors.
   2. Provide concave style wall stop at all integral push button locks. Provide convex style wall stop at all other locations
   3. Where wall stops are not applicable, furnish overhead stops
   4. Provide automatic wall holder functionality where indicated.

l. Weatherstrip and Gasketing
   1. Weatherstrip and gasketing shall be independently certified by ANSI A156.22
   2. At Acoustic Gasketing provide adhesive style bulb gasket continuously around perimeter (zero 188)
   3. At exterior doors provide extruded aluminum drip cap (zero 142), extruded aluminum surface mounted meeting edge seal with brushes (zero 8193), surface mounted sweep with neoprene seal (zero 39), surface mounted weather striping with neoprene bulb at jambs and head (zero 429).

m. Thresholds
   1. Thresholds shall be independently certified for compliance with ANSI 156.21
   2. Provide thermally broken ADA compliant thresholds. Hardware supplier to verify all finish floor conditions and correlate proper threshold as required to ensure a smooth transition between threshold and interior floor finish.

n. Cipher Lock
   1. Basis-of-Design: Von Duprin 99, Trilogy ETDLS1G Panic Exit Trim Keypad Digital Lock.
   2. Mortise Cylinder, Schlage C keyway
   3. Battery operated
   4. Weather-restraint all metal 12 button keypad
   5. Visual and audible entry indicators
   6. Master, manager, emergency, service codes

DIVISION 08 - CONTINUED

o. Finishes
   1. Butt Hinges, Exterior 630 (US32D – Satin Stainless Steel)
   2. Butt Hinges, Interior 652 (US26D – Satin Chromium)
   3. Flush Bolt 630 (US32D – Satin Stainless Steel)
   4. Exit Devices 626 (US26D – Satin Chromium)
   5. Locks and Latches 626 (US26D – Satin Chromium)
   6. Cipher Lock 626 (US26D – Satin Chromium)
   7. Push and Pull Plates 630 (US32D – Satin Stainless Steel)
   8. Closers 600 (Prime/painted or mill aluminum)
   9. Protective Plates 630 (US32D – Satin Stainless Steel)
   10. Wall stops and holders 630 (US32D – Satin Stainless Steel)
   11. Thresholds 628 (Mill Aluminum)
   12. Weather-Strip, Sweeps, cap Anodized– dark doors = dark bronze; light doors = clear
   13. Miscellaneous 626 (US26D – Satin Chromium)

p. Hardware Groups
   1. Group 1 Classroom (Entry)
      1. Hinges
      2. Lockset, Push-bar Interior
      3. Weather-Strip
      4. Threshold - Thermally Broken
      5. Rain Drip
      6. Closer
      7. Wall Stop with manual hold open
      8. 10" Kickplate
      9. Function:
   2. Group 2 Classroom (Vestibule)
      1. Hinges
      2. Lockset, Push-bar Interior Cipher Lock Handle Exterior
      3. Door Sweep
      4. Closer
      5. Wall Stop with manual hold open
      6. 10" Kickplate
      7. Note: Coordinate with owners separate security installer for details with keypad
      8. Function: When interior push bar is in "locked" Position, ingress requires entering code into Keypad or key use . When interior push bar is in "unlocked" position free ingress is allowed. Interior push bar always allows free egress.
   3. Group 3: Privacy with Outside indicator (bathroom)
      1. Hinges
      2. Privacy lock with indicator
      3. Closer
      4. Wall Stop
      5. Continuous acoustic seal at jamb/head
      6. Acoustic door sweep
      7. Function: Privacy lock. Outside lever locked/unlocked by outside key or inside thumb turn. Inside lever always unlocked. Rotating inside lever simultaneously retracts latch bolt and unlocks outside lever. Closing door unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is closed. Outside indicator displays vacant/occupied status.
   4. Group 4: Storeroom,
      1. Hinges
      2. Lockset
      3. Overhead stop and holder (both doors)
      4. Function: Storeroom Lock: Door remains locked at all times, key is required for entry

F. Glazing
   1. **(GL-10)** 1/2" Laminated, Clear Glass
   2. **(GL-15)** – 1" Insulated, Clear Glass
      1. Basis of Design: Viracon VNE 1-63, stainless steel spacer and argon filled
   3. **(GL-15T)** – 1" Insulated, Tempered, Clear Glass
      1. Basis of Design: Viracon VNE 1-63, stainless steel spacer and argon filled

G. Louvers
   1. **(LVR-1)** - 24" x 24" Louver
      1. Horizontal rain resistant design
      2. Heavy gauge aluminum
      3. Milled finish
      4. Wind Load: 25 PSF
      5. Basis of Design: Greenheck EHH-401

H. Access Panel
   a. **(AP-1)** Access Panel, locking
      1. Size: 18" x 18"
      2. Flush, 16 gauge prefinished galvanized steel with concealed hinge, and drywall bead flange
      3. Finish: Match adjacent wall
      4. BOD: Best Access Doors - Model: BA-AHD-GYP-18-18
      5. Note:
         1. Provide and install all blocking as required.

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MATTHEW HOPKINS
LIC. NO. 64696 DATE 05/26/2026

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DRAWN	MDH
CHECKED	AML
CLIENT PROJ. NO	25X.141173

NO.	ISSUED FOR	DATE
1	ADD 1	06/12/2026

CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDING
SPECIFICATIONS

SHEET A0.16

CONSTRUCTION DOCUMENTS

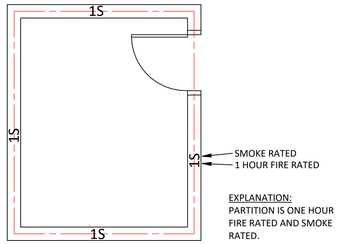
LIFE SAFETY OCCUPANT LOAD BY TYPE

IBC OCCUPANCY	AREA	IBC OLF	IBC OLF GROSS/NET	IBC # OCCUPANTS
A-3	513 SF	20 SF	Net	26
A-3	141 SF	300 SF	Gross	1
E	256 SF	20 SF	Net	13
Grand total	910 SF			40

PLUMBING FIXTURE COUNT BASED ON 2021 INTERNATIONAL BUILDING CODE

OCCUPANCY CLASSIFICATION	# OCCUPANTS	WATER CLOSETS (REQD/PROVIDED)		LAVATORIES (REQD/PROVIDED)		DRINKING FOUNTAINS (REQD/PROVIDED)	SERVICE SINKS (REQD/PROVIDED)
		Male	Female	Male	Female		
ASSEMBLY	40	1 PER 125	1 PER 65	1 PER 200	1 PER 200	1 PER 500	
		0.16	0.31	0.10	0.10	.04	
TOTAL		0.16 / 1	0.31 / 1	0.10 / 1	0.10 / 1	0.04/ 1	0 / 0

*Note: [P] 2902.1 Minimum number of fixtures: For business and mercantile classifications with an occupant load of 50 or fewer, a service sink shall not be required.



EXPLANATION:
PARTITION IS ONE HOUR FIRE RATED AND SMOKE RATED.

RATING TAGS	
E	EXISTING
S	SMOKE RATED
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

NOTE:
PARTITION RATING TAGS MAY BE USED IN ANY COMBINATION. NOTIFY ARCHITECT IMMEDIATELY IF A RATING TAG IS SHOWN ON SUBSEQUENT FLOOR PLANS THAT IS NOT REFERENCED HERE.

1 A0.20 LEVEL 1 - LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

ALLOWABLE BUILDING HEIGHTS AND AREAS

OCCUPANCY CLASSIFICATION	CONSTRUCTION TYPE	S/NS	ALLOWABLE BUILDING HEIGHT	ACTUAL BUILDING HEIGHT	ALLOWABLE BUILDING AREA	ACTUAL BUILDING AREA
A-3	V-B	NS	40' / 1 STORY	23'-5" / 1 STORY	6,000 SF	1,302 SF

CODE ANALYIS LEGEND

1 HOUR FIRE BARRIER PER IBC SECTION 706. OPENINGS FIRE RATED FOR 45 MINUTES UNLESS SHAFT, EXIT ENCLOSURE, OR EXIT PASSAGEWAY WALLS WHICH REQUIRE 1 HOUR RATED OPENINGS.

2 HOUR FIRE BARRIER PER IBC SECTION 706. OPENINGS FIRE RATED FOR 90 MINUTES.

AREA NAME
150 SF / 00
00 OCC.

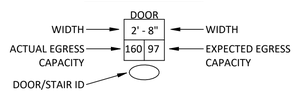
ROOM (NET) AND AREA (GROSS) TAGS INDICATING SQUARE FOOTAGE / OCCUPANCY LOAD FACTOR, AND RESULTING OCCUPANCY BELOW

(FEC-X)/(FE-X) FIRE EXTINGUISHER CABINET/FIRE EXTINGUISHER, SEE MAT ID

PATH A — EGRESS PATH WITH NAME, SEGMENT LENGTH, AND DIRECTION INDICATED

B (OCCUPANCY) — IBC OCCUPANCY GROUP

DOOR/STAIR INDICATORS



MN RULES 1303.1500

1303.1500 Recyling. Space must be provided for the collection, separation and temporary storage of recyclable materials within or adjacent to all new or significantly remodeled buildings or structures that contain 1,000 square feet or more.

Designated Recycling Space -
Occupancy Group A-3
All Others Areas Factor - 0.0025

Total Square Feet: 1,302

Total Recycling Area: 4 square feet

2020 MINNESOTA ACCESSIBILITY CODE

SECTION 1103 - SCOPING REQUIREMENTS
1103.1 - WHERE REQUIRED. Sites, buildings, structures, facilities, elements and spaces, temporary or permanent, shall be accessible to individuals with disabilities.

1103.2.9 - EQUIPMENT SPACES. Spaces frequented only by service personnel for maintenance, repair, or occasional monitoring of equipment are not required to comply with this chapter.

SECTION 1104 - ACCESSIBLE ROUTE
1104.3 Connected Spaces. Where a building is required to be accessible, at least one accessible route shall be provided to each portion of the building.

SECTION 1105 - ACCESSIBLE ENTRANCES
1105.1 Public Entrances. At least 60% of all public entrances shall be accessible.

1105.1.1 Power operated doors at public entrances. In Group A-3 occupancies with a building occupant load greater than 300.
* Occupant load lower than 300.

SECTION 1106 - PARKING AND PASSENGER LOADING FACILITIES
1106.1 Required. Where parking is provided, accessible parking spaces shall be provided in compliance with Table 1106.1.

1106.5 Van spaces. For every six or fraction of six accessible parking spaces, at least one shall be a van-accessible parking space.

SECTION 1111 - SIGNAGE
1111.1 General. Signs shall be provided in accordance with Section 1111 and shall comply with ICC A117.1.

1111.2 Designations. Interior signs indentifying toilet rooms, bathing rooms, locker rooms, dressing rooms, fitting rooms, room numbers and room names shall comply with ICC A117.1.

1111.5 Parking. Accessible parking spaces shall be identified by signs complying with ICC A117.1.

CODE SUMMARY ANALYSIS

APPLICABLE CODES & STANDARDS

- 2020 MINNESOTA BUILDING CODE
- 2020 MINNESOTA FIRE CODE
- 2024 MINNESOTA ENERGY CONSERVATION CODE
- 2020 MINNESOTA ACCESSIBILITY CODE
- 2020 MINNESOTA MECHANICAL AND FUEL GAS CODE
- 2020 MINNESOTA CONSERVATION CODE FOR EXISTING BUILDINGS

2020 MINNESOTA BUILDING CODE

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
SECTION 303.4 - Assembly Group A-3 (Waiting Areas in Transportation Terminals)

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS
SECTION 503 General Building Height and Area Limitations
Construction Type V-B
Occupancy Group A-3
Sprinkled - NS (Not Sprinkled)
*Table 504.3 and 504.4 Allowable Height and Stories = 40' (1 story)
*Table 506.2 Allowable Area = 6,000 sf

A-3 ASSEMBLY GROUP	1,302 SF
PROPOSED TOTAL BUILDING OCCUPIED SF	**1,302 SF**

CHAPTER 6 - TYPES OF CONSTRUCTION
SECTION 602 Construction Classification
Type V-B (Section 602.2)
Table 601 - Fire-Resistance Rating Requirements for Building Elements (hours)

Structural Frame	0 HR
Bearing Walls	0 HR
Nonbearing Walls and Partitions	0 HR
Floor Construction	0 HR
Roof Construction	0 HR

Table 602 -Fire Resistance Rating Requirements for Exterior Walls based upon Fire Separation Distance
10 < X < 30 - VB Construction - Occupancy Group A : FSD = 0 hour

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES
SECTION 705 Exterior Walls.
705.3 Buildings on the same lot. For the purposes of determining the required wall and opening protection, buildings on the same lot shall be assumed to have an imaginary line between them.

705.8 Openings in exterior walls shall comply with Sections 705.8.1 through 705.8.6. Table 705.8 Maximum Area of Exterior Wall Openings based on FSD and Degree of Opening Protection
15 < X < 20 - Unprotected, Nonsprinklered : Allowable Area : 25%

CHAPTER 8 - INTERIOR FINISHES
TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS

	A-3
Interior Exit Stairs ...	Class A
Cooridors and enclosure ...	Class A
Rooms and Enclosed spaces	Class C

Class A = Flame spread index 0-25 = Smoke developed index 0-450
Class C = Flame spread index 26-75 = Smoke developed index 0-450

CHAPTER 9 - FIRE PROTECTION SYSTEMS
SECTION 903.2.1.3 Group A-3: An automatic sprinkler system shall be provided throughout buildings classified as A-3 occupancy ... where either of the following conditions exists.
1. Where the fire area exceeds 12,000 square feet.
2. Where the fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.
***None of these conditions exists, sprinkler not required.**

SECTION 907.2.4 Group A. A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed Group A occupancies where any of the following conditions exist:
1. The Group A occupancy is 300 or more.
2. The Group A occupancy is 100 or more above or below the lowest level of discharge.
***None of these conditions exists, fire alarm not required.**

CHAPTER 10 - MEAN OF EGRESS
SECTION 1004 OCCUPANT LOAD
1004.1 Design Occupant Load
Table 1004.5 Maximum Floor Area Allowances per Occupant

Accessory storage areas, mechanical equipment room	= 100 gross
Airport Terminal Waiting Areas	= 15 gross

TOTAL BUILDING (GROSS) = 1,302 SF	OCCUPANT LOAD = SEE PLAN

SECTION 1005 Means of Egress Sizing
Table 1005.3.2 Other egress components (Without Sprinkler System)
Inches per occupant = 0.20 @ Egress Components (Doors)
Inches per occupant = 0.30 @ Stairways

CHAPTER 10 - MEAN OF EGRESS
SECTION 1010.2.4 Locks and Latches. Locks and latches shall be permitted to prevent operation of doors where any of the following exists: ...
3. In buildings in Occupancy Group A having an occupant load of 300 or less . . . the main exterior door or doors are permitted to be equipped with key-operated locking devices from the egress side provided:
3.1. The locking device is readily distinguishable as locked.
3.2. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. The sign shall be in letters 1 inch high on contrasting background.
3.3. The use of the key-operated locking device is revocable by the building official for due cause.

SECTION 1017 Exit Access Travel Distance
Table 1017.2 Exit Access Travel Distance:
A-3 Occupancy, Maximum travel distance = 200' (without sprinkler system)
Compliant

SECTION 1020 Corridors
1020.5 Dead ends. Where more than one exit is required, the exit access shall be arranged such that dead-end corridors do not exceed 20 feet in length.
Compliant

SECTION 1029 Assembly
1029.2 Assembly main exit. A building ... used for assembly purposes that has an occupant load of greater than 300 and is provided with a main exit, that main exit shall be of sufficient capacity to accommodate not less than one-half of the occupant load.
Compliant

CHAPTER 29 - PLUMBING FIXTURES
- 2024 International Building Code (Table 2902.1)

A-3 Occupancy (60 Occupants) Passenger terminals
WATER CLOSETS REQUIRED: 1 per 500 = 1 required
1 Provided
LAVATORIES REQUIRED: 1 per 750 = 1 required
1 Provided

DRINKING FOUNTAINS REQUIRED: 1 per 1,000 = 1 required
1 Provided

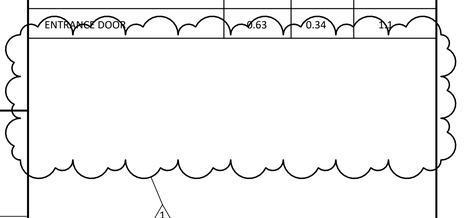
SERVICE SINKS REQUIRED: 1 required
1 Provided

2024 MINNESOTA STATE ENERGY CODE

MN ENERGY CODE PATHWAY: 2019 ASHRAE 90.1 AS AMENDED BY MN
CLIMATE ZONE: 6A

ROOF INSULATION			
ENTIRELY ABOVE DECK	R-VALUE 30 c.i MIN	OR	U-0.021
ATTIC	R-VALUE 49 MIN		
ABOVE GRADE WALL INSULATION			
WD FRAMED WALL	R-VALUE 13 + 7.5 CI MIN	OR	U-0.051
	R-VALUE 19 + 5 CI MIN		
METAL BUILDING	R-VALUE 19 CI MIN	OR	U-0.050
BELOW GRADE WALL INSULATION			
BELOW GRADE WALL	R-VALUE 10 CI MIN		C-0.092
SLAB EDGE INSULATION			
COMM, W/O IN FLOOR HEAT	R-20 FOR 24 INCHES		F-0.510
OPAQUE DOORS			
NONSWINGING			U-0.310
SWINGING			U-0.370

	U-VALUE	SHGC	MIN VT/SHGC
FIXED FENESTRATION	0.34	0.38	1.1
ENTRANCE DOOR	0.63	0.34	1.1



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CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDING
LIFE SAFETY PLAN

SHEET A0.20

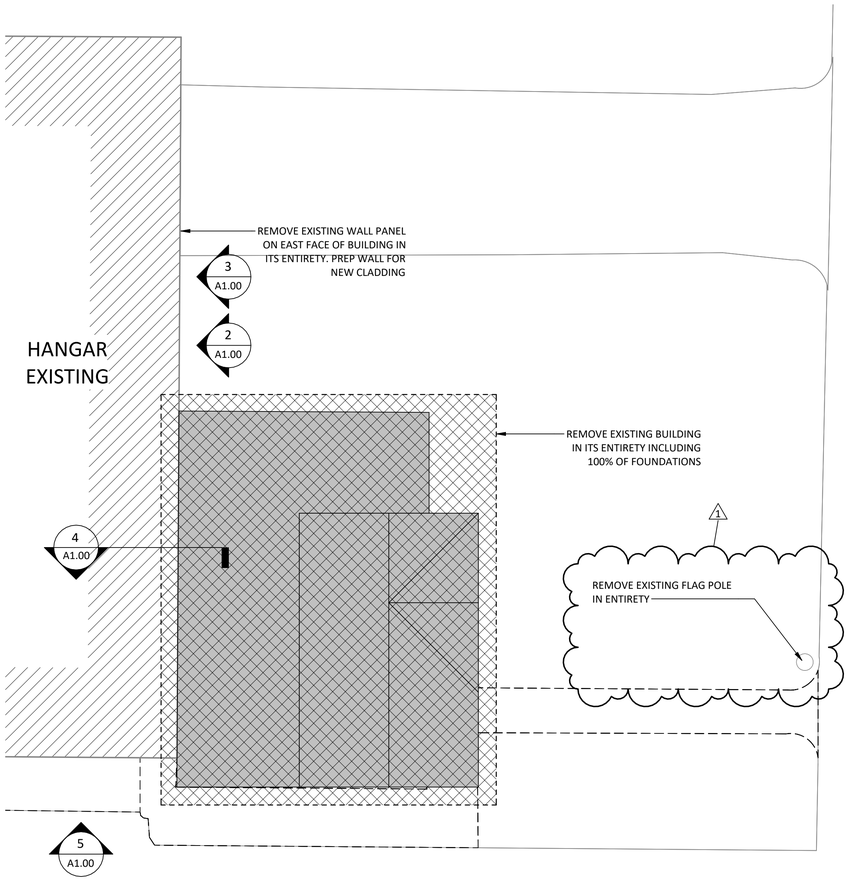
CONSTRUCTION DOCUMENTS

MATERIAL ID LEGEND

MAT ID	MATERIAL DESCRIPTION
AB-5	SPUN BOUND HIGH DENSITY POLYETHYLENE SHEET. BOD: TYVEK COMMERCIALWRAP OR APPROVED EQUAL
MP-1a	FIRE RATED METAL WALL PANEL - 3", INSULATED, 24 GAUGE, PREFINISHED GALVANIZED STEEL, FINISH TO MATCH EXISTING METAL PANEL
SMF-1a	PREFINISHED GALVANIZED STEEL FLASHING - 24 GA - [COLOR TO MATCH MP-1a]
SMF-3	STAINLESS STEEL FLASHING - 20 GA - #4 SATIN FINISH
SMF-10	ROOF GUTTER - PREFINISHED GALVANIZED STEEL - 22 GA - [DARK BRONZE]

DEMOLITION LEGEND

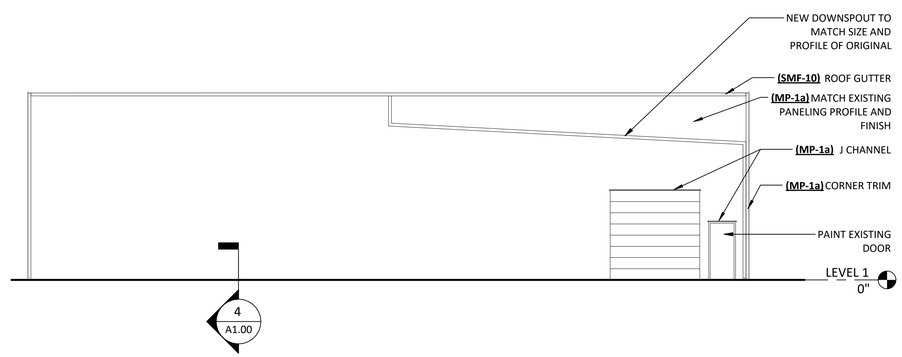
- REMOVE EXISTING WALL IN ITS ENTIRETY, UNLESS NOTED OTHERWISE. WALL TYPES VARY. SEE DEMOLITION PLANS FOR EXTENTS OF REMOVAL AND/OR FOR ADDITIONAL DIRECTION. COORDINATE REMOVAL WITH MECHANICAL, ELECTRICAL, AND PLUMBING SCOPES OF DEMOLITION AS REQUIRED.
- EXISTING WALL TO REMAIN. TYPES VARY.
- REMOVE EXISTING DOOR, HARDWARE, AND ASSOCIATED TRIMS AND/OR CASEMENTS IN THEIR ENTIRETY.
- EXISTING DOOR TO REMAIN.
- EXISTING ACT TO REMAIN.
- EXISTING ACT TO BE DEMOLISHED.



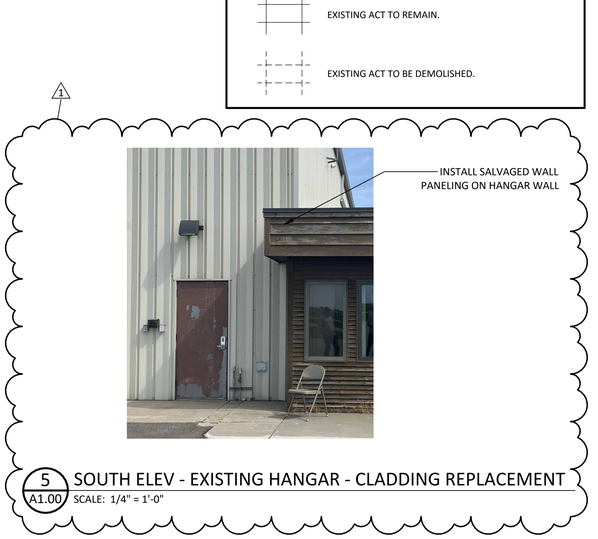
1 A1.00 SITE - DEMO PLAN
SCALE: 1/8" = 1'-0"



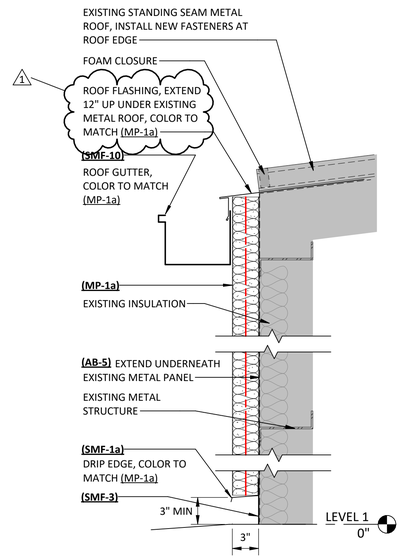
2 A1.00 EAST ELEVATION - EXISTING HANGAR - CLADDING DEMO
SCALE: 1/8" = 1'-0"



3 A1.00 EAST ELEVATION - EXISTING HANGAR - CLADDING REPLACEMENT
SCALE: 1/8" = 1'-0"



5 A1.00 SOUTH ELEV - EXISTING HANGAR - CLADDING REPLACEMENT
SCALE: 1/4" = 1'-0"



4 A1.00 WALL SECTION @ EXISTING HANGAR
SCALE: 1 1/2" = 1'-0"

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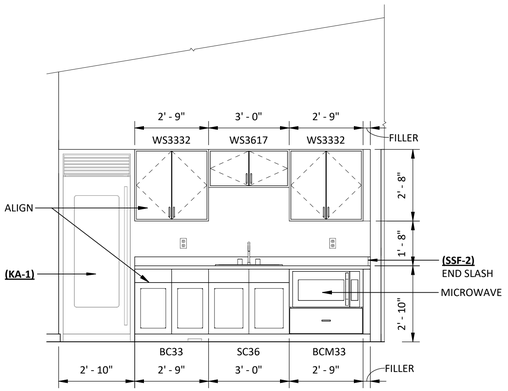
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CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDING
DEMOLITION PLANS

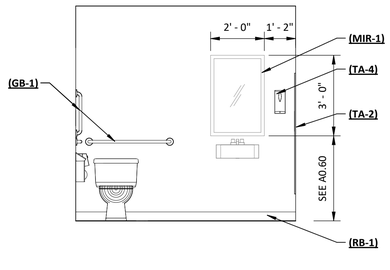
SHEET A1.00

CONSTRUCTION DOCUMENTS



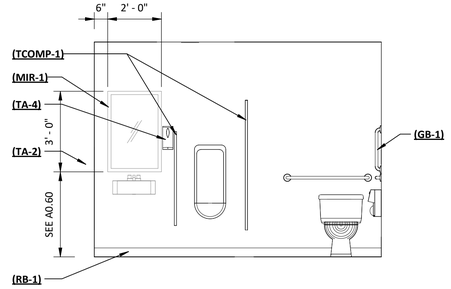
1 A6.00 PASSENGER AREA - CASEWORK

SCALE: 3/8" = 1'-0"



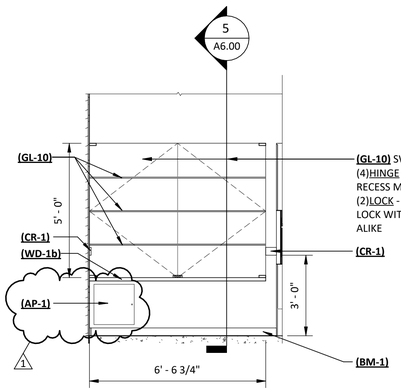
2 A6.00 WOMENS 6 WALL ELEVATION

SCALE: 3/8" = 1'-0"



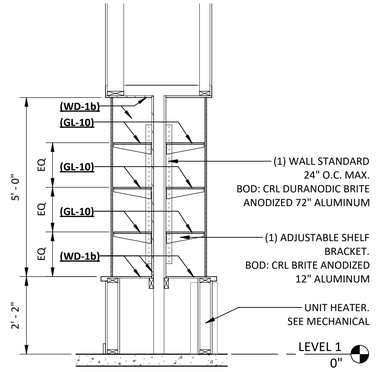
3 A6.00 MEN 5 WALL ELEVATION

SCALE: 3/8" = 1'-0"



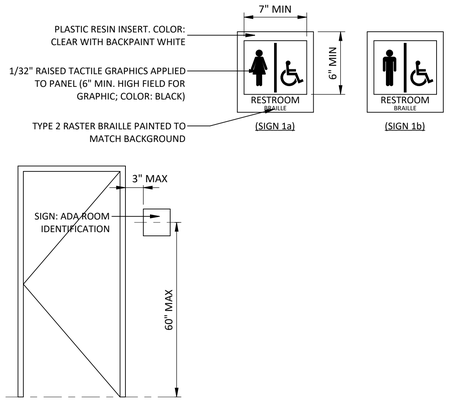
4 A6.00 PILOT BRIEFING AND VESTIBULE - DISPLAY CASE

SCALE: 3/8" = 1'-0"



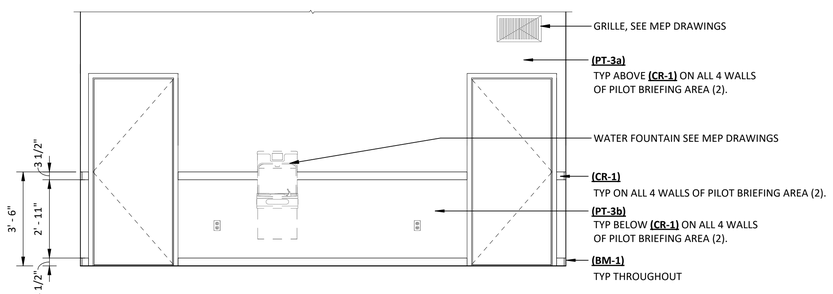
5 A6.00 SECTION @ DISPLAY

SCALE: 1/2" = 1'-0"



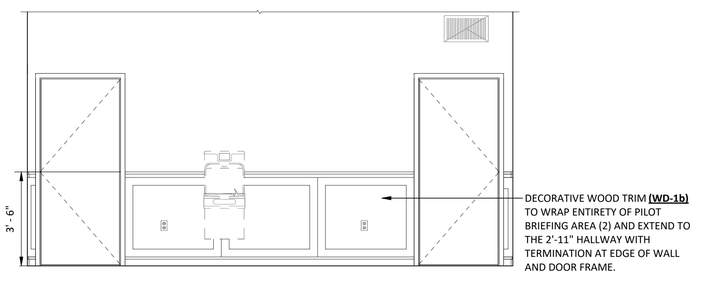
6 A6.00 DOOR SIGNS & PLACARDS

SCALE: 1 1/2" = 1'-0"



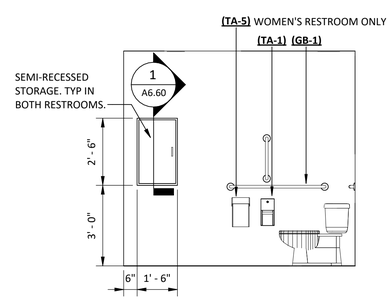
7 A6.00 PILOT BRIEFING AREA - WEST

SCALE: 3/8" = 1'-0"



8 A6.00 ALTERNATE 1 - DECORATIVE WOOD PANELING

SCALE: 3/8" = 1'-0"



9 A6.00 TYPICAL TOILET ACCESSORY WALL

SCALE: 3/8" = 1'-0"

MATERIAL ID LEGEND

MAT ID	MATERIAL DESCRIPTION
AP-1	ACCESS PANEL: 18" X 18", FLUSH, STEEL, LOCKING
BM-1	WOOD BASE MOULDING: 3-1/2" X 3/4" WITH BEVELED EDGE; FINISH: MATCH CASEWORK
CR-1	WOOD CHAIR RAIL: 3-1/2" X 3/4"; FINISH: MATCH CASEWORK. INSTALL ON ALL BRIEFING ROOM WALLS ONLY
GB-1	STAINLESS STEEL GRAB BAR
GL-10	3/8" THICK LAMINATED - CLEAR GLASS
KA-1	GLASS DOOR MERCHANDISER REFRIGERATOR: B.O.D: KATOM - TRUE CVM-27-HC~EGC01 30" CVM SERIES ONE SECTION GLASS DOOR MERCHANDISER, (1) LEFT HINGE DOOR, COLOR: BLACK
MIR-1	MIRROR WITH STAINLESS STEEL FRAME - SIZE AS INDICATED ON DRAWINGS
PT-3a	INTERIOR PAINT - GREEN. BOD: SHERWIN WILLIAMS, ACACIA HAZE SW9132
PT-3b	INTERIOR PAINT - GREEN. BOD: SHERWIN WILLIAMS, PEWTER GREEN SW6208
RB-1	RESILIENT WALL BASE - 4" HIGH
SSF-2	SOLID SURFACE: COUNTERTOP
TA-1	TOILET TISSUE (DOUBLE ROLL) DISPENSER - STAINLESS STEEL - BOD: (MANUF/MODEL)
TA-2	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE COMBINATION UNIT-STAINLESS STEEL - BOD: (MANUF/MODEL)
TA-4	SOAP DISPENSER - STAINLESS STEEL - BOD: (MANUF/MODEL)
TA-5	SANITARY NAPKIN DISPOSAL
TCOMP-1	PAINTED STEEL TOILET COMPARTMENTS, FLOOR MOUNTED, OVERHEAD BRACED
WD-1b	TRANSPARENT WHITE OAK WOOD SURFACE. STAINED. COLOR PER OWNER.

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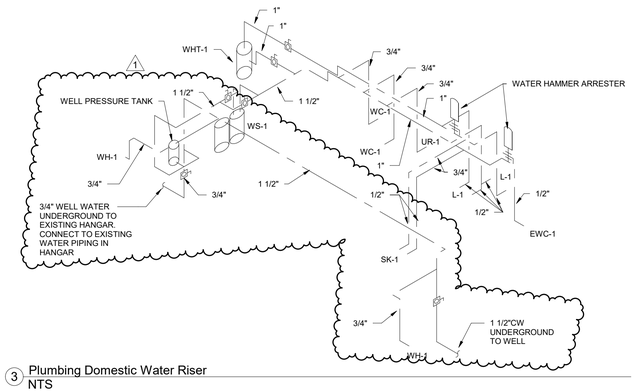
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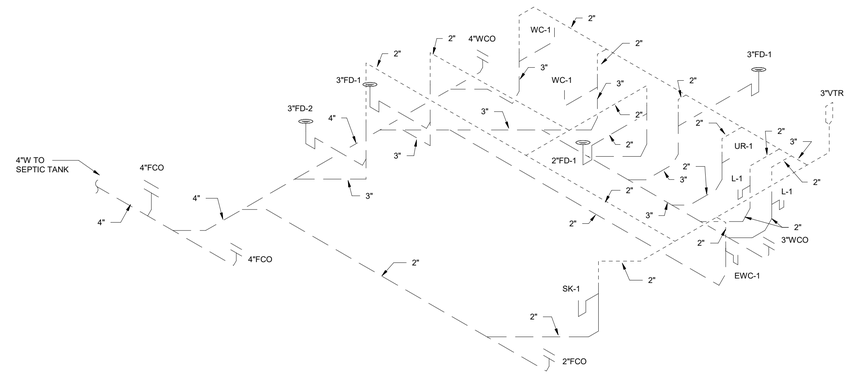
CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDING
INTERIOR ELEVATIONS AND SIGNAGE

SHEET A6.00

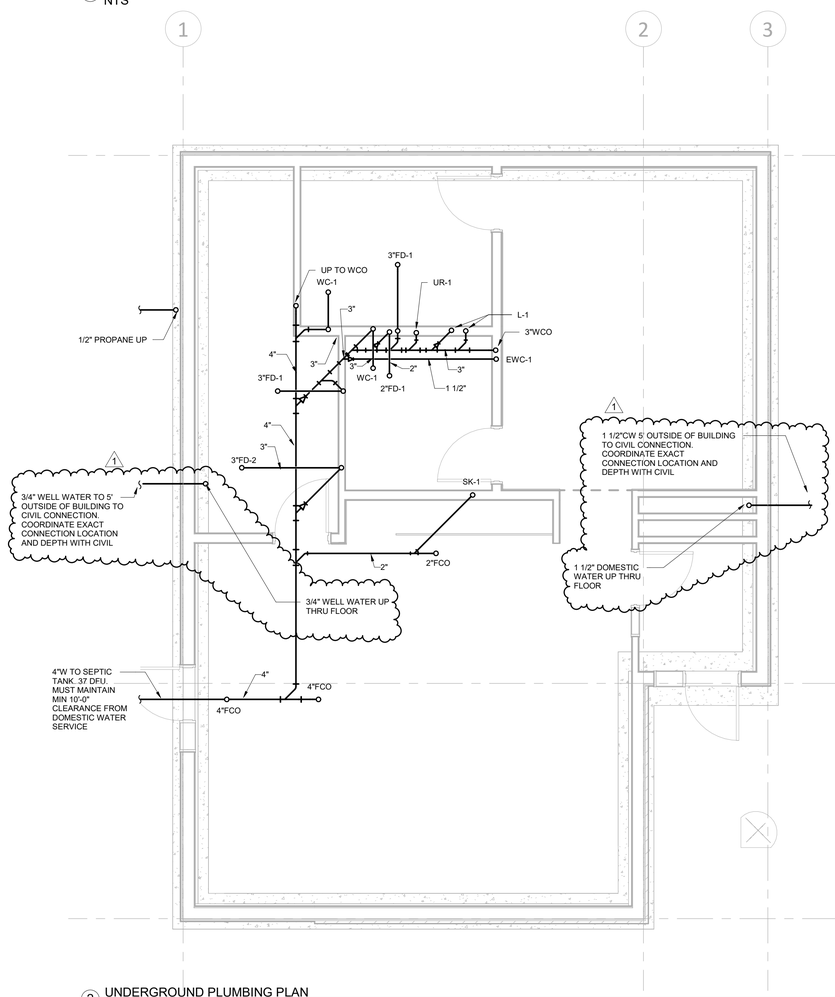
CONSTRUCTION DOCUMENTS



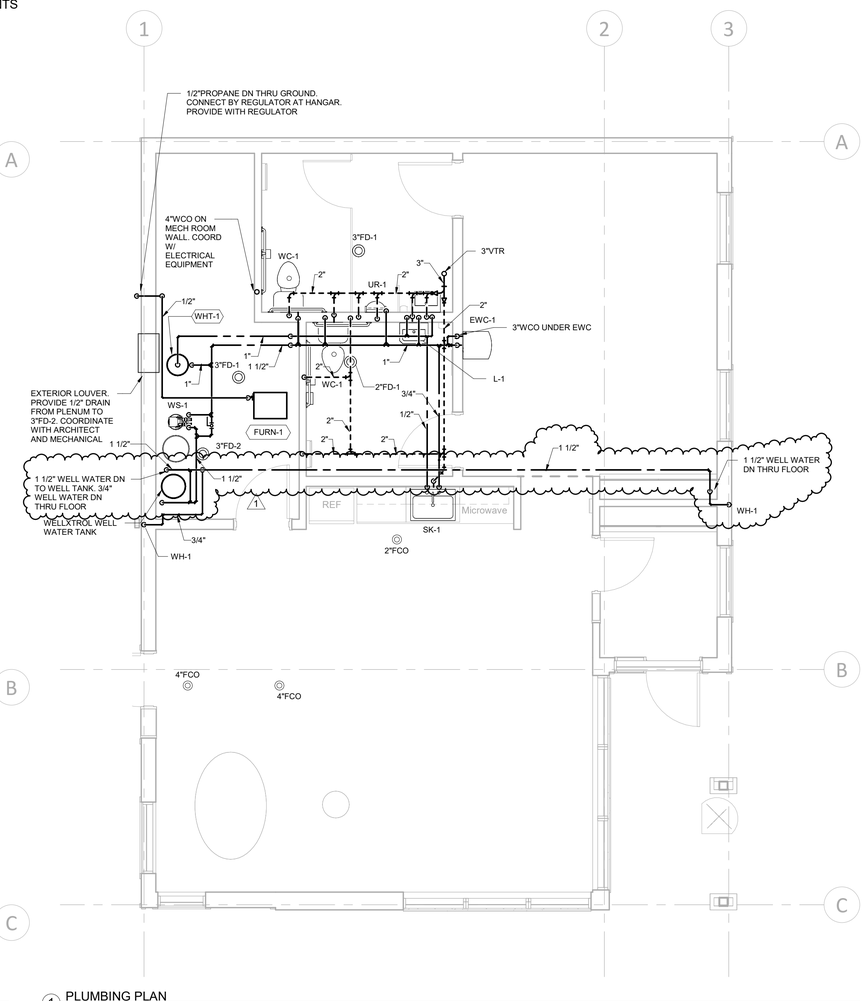
3 Plumbing Domestic Water Riser
NTS



4 Plumbing Waste and Vent Riser
NTS



2 UNDERGROUND PLUMBING PLAN
1/4" = 1'-0"



1 PLUMBING PLAN
1/4" = 1'-0"

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Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ANDREW C. BARTLETT
LIC. NO. 56617 DATE 05/22/2026

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CHECKED			
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CLIENT PROJ. NO			
25X.141173			

CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDINIG
PLUMBING PLANS

SHEET
M1.00

Furnace Schedule

Mark	Manufacturer	Model Number	CFM	CFM Outdoor Air	Heating		Cooling			Electrical				Notes
					Input BTUH	Output BTUH	Total Capacity BTUH	Sensible Capacity BTUH	Refrigerant	Voltage	Phase	Starter By	Disc. By	
FURN-1	Lennox	EL297DF090XV48C	1600	330	88000	86000	48000	46000	R454B	120 V	1	Mech	Elec	1,2,3,4,5

Notes:
1. Provide side return, filter rack with filter, cased cooling coil section with coil, vent kit, flexible connectors at fan supply and return, motor starter & control transformer.
2. Provide condensate to nearest floor drain
3. Provide with air side economizer.
4. Provide with Propane kit
5. Provide with RDS coil sensor kit

Air Cooled Condenser Schedule

Mark	Location	Manufacturer	Model Number	Total MBH	Voltage	Phase	MCA	MOCP	Starter By	Disc. By	Notes
CU-1	On Grade	Lennox	EL16KC1-048-230	48000	240 V	1	0.0 A	0.0 A	Mech	Elec	1

Notes:
1. Provide outdoor equipment pad on grade

Exhaust Fan Schedule

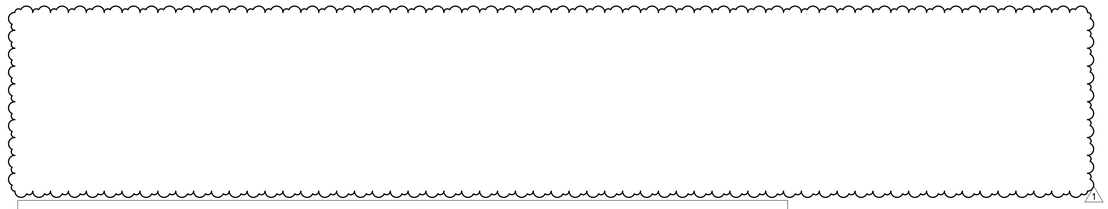
Mark	Manufacturer	Model Number	CFM	ESP	Damper	Control Voltage	RPM	Sones	Power	Voltage	Phase	Starter By	Disc. By	Notes
EF-1	Loren Cook	90 ACEH	200	0.30 in-wg	Gravity	24 V	1725	4.5	0.125 HP	120 V	1	Mech	Elec	1,2

Notes:
1. Provide with EC motor
2. Provide roof curb for sloped roof

Cabinet Unit Heater Schedule

Mark	Area Served	Manufacturer	Model Number	Orientation	CFM	EAT	LAT	Total Capacity	Power	Voltage	Phase	Starter By	Disc. By	Notes
CUH-1	Vestibule	Indeeco	922IC-35	Recessed	250	60 °F	98 °F	10239 Btu/h	3 kW	240 V	1	Mech	Mech	1

Notes:
1. Provide with factory disconnect



Water Heater Schedule

Mark	Location	Manufacturer	Model Number	Volume	Recovery	Power	Voltage	Phase	Notes
WHT-1	Mechanical Room	AO Smith	DEL-6	6 gal	8 gal/h	2 kW	240 V	1	1,2

Notes:
1. Electric tank type water heater
2. Route pressure relief from water heater to nearest floor drain

Water Softener Schedule

Mark	Location	Manufacturer	Model Number	Grain Capacity	Recovery Min	Max Flow Rate	Backwash Flow Rate	Brine Tank Salt Capacity	Brine Tank Dimensions	Mineral Tank Dimensions	Inlet/Outlet Pipe Sizes	Notes
WS-1	Mechanical Room	WCC	EFT-15-MR	300000	96	25 GPM	5 GPM	625	24Wx50H	16Wx65H	1	1,2,3

Notes:
1. Provide microprocessor control, electronic flow meter, brass valve construction, automatic timed brine refill.
2. Provide with three (3) MB-200 iron filters plumbed in parallel to treat water.
3. Contractor to obtain water sample and verify hardness. Coordinate with supplier for exact water softener requirements prior to ordering

Unit Heater Schedule

Mark	Area Served	Manufacturer	Model Number	Orientation	CFM	EAT	LAT	Power	Voltage	Phase	Starter By	Disc. By	Notes
UH-1	MECH	Indeeco	UHIR	Wall Mount	350	55 °F	90 °F	2.5 kW	240 V	1	Mech	Mech	1,2

Notes:
1. Provide with wall mount arm bracket
2. Provide with factory disconnect

Air Terminal Schedule

Mark	Description	Manufacturer	Model	Damper	Finish	Notes
ER1	Exhaust Register 35° Deflection	Titus	350RL	O.B.	White	<varies>
RG1	Return Grille 35° Deflection	Titus	350RL	O.B.	White	1
SR1	Double Deflection Supply Register	Titus	300RS	O.B.	White	<varies>

Notes:
1. Coordinate finish with Architect

Plumbing Fixture Schedule

Fixture Tag	Fixture Type	Minimum Pipe Sizes				Notes
		Cold	Hot	Waste	Vent	
EWC-1	Electric Water Cooler	1/2"	0"	1 1/2"	1 1/2"	ADA, w/ Bottle Filler
L-1	Lavatory	1/2"	1/2"	1/2"	1 1/2"	Wall hung, vitreous China, battery-powered sensor faucet, ADA
SK-1	Countertop Sink	1/2"	1/2"	2"	1 1/2"	Stainless Steel Top Mount Sink, Gooseneck faucet w/ wristblade handles
UR-1	Urinal	3/4"	0"	2"	1 1/2"	Wall hung, flush valve, ADA
WC-1	Water Closet	3/4"	0"	3"	2"	Floor mounted, tank type water closet with manual flush valve, ADA
WH-1	Wall Hydrant	3/4"	0"	0"	0"	Freezeproof

Notes:
1. Coordinate mounting height with Architect

Floor Drain Schedule

Fixture Tag	Fixture Type	Minimum Pipe Sizes	Fixture Units	Notes
		Waste	Waste	
2"FD-1	Coated Cast Iron Floor Drain w/ Trap	2"	2	Equal to Sioux Chief Series No. 833
3"FD-1	Coated Cast Iron Floor Drain w/ Trap	3"	3	Equal to Sioux Chief Series No. 833
3"FD-2	Coated Cast Iron Floor Drain w/ Trap & Funnel	3"	3	Equal to Josam Series No. E3

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NO.	ISSUED FOR	DATE
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CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDINIG
MECHANICAL SCHEDULES

SHEET M4.00

DIVISION 22 – PLUMBING

SECTION 22 05 00 COMMON WORK RESULTS FOR PLUMBING

1. General

A. Furnish labor, equipment, materials, skills and tools necessary and reasonably incidental to the complete installation of Plumbing Systems as herein described and indicated on the drawings. The drawings and specifications are to be considered as supplementing each other. Work specified but not shown, or shown but not specified, shall be performed or provided as though mentioned in both the specifications and drawings.

B. Include such minor details not specifically mentioned or shown as may be necessary to complete the system, ready for successful operation.

C. Provide a set of electriconic shop drawings, two (2) sets of Operation and Maintenance Manuals, operating instructions and training for the Owner as required for this project. Shop drawings and O&M Manuals shall be properly labeled as to contractor, project, section, item, and manufacturer's name, along with catalog numbers, features and dimensions clearly indicated.

D. Substitutions of equipment other than the types and makes specified in the base design shall be done only by approval, in advance, from the Engineer/Architect.

E. All materials used and/or installed on this project shall be new, previously unused, free of defects, UL listed or applicable agency rated and approved for the purpose intended, and installed in compliance with State and local codes and in accordance with the manufacturer's most recently published installation instructions, in a neat, professional manner by skilled tradesman in accordance with recognized standard industry practice.

F. Plumbing Contractor shall secure and pay for all permits, licenses, service charges and inspection fees, and coordinate all work with local utilities and authorities having jurisdiction. Give all notices and comply with all laws, codes, ordinances, rules, and regulations bearing on the conduct and nature of the work as drawn and specified. Give timely notice when the work is ready for inspection and fix a reasonable date for such inspection. If any work should be covered up without approval or consent of approving agency, it shall be uncovered for examination upon request at this Contractor's expense.

G. Provide all work and materials as required herein and on the drawings in full accordance with all Federal, State, County and Local Codes, Ordinances, rules and/or regulations having jurisdiction over this work. This shall not permit a lower grade of construction where the drawings or specifications call for workmanship or materials in excess of code requirements.

H. Resolution of a conflict or interpretation of codes and standards shall be by the governing authority.

I. Information indicated on the drawings or contained herein regarding utility service pressure, locations, invert elevations, and materials, has been obtained from a representative of the utility. Verify such information prior to the installation of any equipment or components associated with utility connections.

J. All work, equipment and materials used shall conform to the most recently adopted codes and standards published by:

American National Standards Institute
American Gas Association
American Society of Mechanical Engineers
American Society for Testing Materials
Department of Health
National Electrical Code
National Fire Protection Association
Federal, State, County and Local Codes

K. Contractor shall visit the site and familiarize himself with all of the existing conditions and limitations surrounding the work.

L. Examine areas, surfaces, and conditions under which mechanical equipment and material are to be installed. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

M. Drawings are symbolic and diagrammatic and intend to show only the general scheme, equipment involved, and approximate locations of materials and equipment unless specifically dimensioned. The drawings shall be followed as closely as actual building construction will permit. Coordinate the work with existing conditions and other trades to avoid interference.

N. Because of the small scale of the drawings, it is not possible to indicate all offsets, fittings, and accessories which may be required. Provide all fittings, traps, valves, and accessories as may be required to meet such conditions.

O. Obtain dimensions from the architectural drawings wherever possible instead of scaling the mechanical drawings. Dimensions of work as indicated on the drawings are not guaranteed to be as-built dimensions. Provide adequate space for operation and maintenance of equipment.

P. Materials and equipment selected for use on this project must meet the delivery requirements that will allow installation within the project schedule.

Q. Arrange for equipment to be delivered in sections small enough to permit use of regular entrances. If the above is not practical do all demolition and patching required. Provide for proper storage of materials and equipment and assume complete responsibility for losses and damage.

R. Provide proper layout of equipment, piping, accessories, and associated materials prior to installing. Prepare coordination shop drawings with piping, ductwork, associated equipment, and similar equipment and systems. Arrange equipment and materials to avoid interference with each other along with work of other trades.

S. Noise and vibration shall be limited to levels not objectionable to occupants and not detrimental to Owner operations. Mechanical equipment noise and vibration shall be minimized through the use of isolation, attenuation, noise abating products, appropriate installation procedures, and by proper balancing of rotating and reciprocating equipment.

T. Electrical components, wiring and devices provided under this Division shall conform to the most current edition of the National Electrical Code (NEC) and Division 16 of these specifications. Furnish electrical equipment and components to operate on the current characteristics as finally installed under Division 16.

U. Coordinate all floor, wall and ceiling cutting required to install any portion of this work with the Architect prior to beginning. Patching to match original conditions shall be the responsibility of this Contractor as approved by Project Architect.

V. Provide fire stopping materials that have a minimum rating as that of the wall or floor penetrated. Fire stopping material shall be 2000-degree F rated mineral fiber or intumescent material capable of expanding eight to ten times when exposed to temperatures above 250-degrees F and shall maintain the integrity and rating of the penetrated assembly in accordance with UL 1479 and ASTM E-814 requirements. All fire stopping materials shall be UL listed and labeled for the application intended.

W. Provide adequate support and vibration isolation from all mechanical equipment specified herein and shown on the drawings. Pipe hangers shall be furnished and installed in accordance with State plumbing code requirements and standard recognized industry practice.

X. Provide equipment and piping name plates, labels, valve tags, and other permanent identification for all mechanical equipment and piping systems installed as part of this Division. Include on identification manufacturer's name, model, serial number and address. Pipe markers shall have letters with a minimum 1-inch height.

Y. Provide general daily cleanup of waste, debris and rubbish in the work area, and dispose of all unused materials and debris in a proper manner, leaving the project site and all equipment in a clean and dust free condition.

Z. Correlate the finishing of mechanical work so that all parts of these systems are be adjusted, correlated, lubricated, cleaned, and placed into proper working order.

AA. At the completion of the work, Contractor shall remove all plaster, paint, stickers, rust, stains, rubbish, dirt and other foreign matter or discolorations caused by his work and shall thoroughly clean all mechanical work including equipment, fixtures, piping, etc., leaving every part in a condition acceptable to the Owner and Architect and ready for use.

BB. Contractor shall touch up or refinish the factory finish of equipment marred during shipment or installation.

CC. Maintain one complete set of drawings on the site at all times and mark all field changes and deviations in red pencil. "Record" documents shall be provided by the Contractor if installation deviates from the original layout of equipment.

DD. No asbestos or PCB containing materials shall be used or removed on this project by the Plumbing Contractor. If any such materials are encountered or suspected, stop work immediately and notify the Owner and Architect.

2. Guarantee

A. Guarantee all work provided including equipment, components and labor against defects in material and workmanship for a period of (1) year after completion of the work as evidenced by issuance of final certificate by the Architect and repair or replace any part that fails prior during the warranty period as well as any part that may show signs of failure at the end of the warranty period.

B. Defects of any kind due to faulty work or materials appearing during the above mentioned period shall be immediately made good by the Contractor at his own expense to the entire satisfaction of the Owner, Architect and Engineer. Such reconstruction and repairs shall include all damage to the finish or furnishings of the building resulting from the original defect or repairs thereto.

C. This guarantee shall not apply to damage occurring after final acceptance due to wind, fire, vandalism, abuse or carelessness of other Contractors or their employees or the agents of the Owner.

D. This guarantee shall not apply where other guarantees for different lengths of time are specifically called for.

3. Coordination

a. Coordinate mechanical work with that of other trades in order to:

1. Avoid interferences between general construction, mechanical, electrical, structural and other specialty trades.
2. Maintain clearances and advise other trades of clearance requirements for operation, repair, removal and testing of mechanical equipment.
3. Indicate aisle-ways and access-ways required on coordinated shop drawings for roof equipment area, mechanical equipment rooms, data and telecomm rooms, corridors, ceiling spaces, shafts, corridors, ceiling space, laboratories, etc.

b. Understanding of Work:

1. Study, examine, and compare of the contract documents, including drawings and specifications. The Subcontractor shall have a full understanding of how the work in this part is scheduled, phased, and installed with work of other trades.
2. Include in this installation piping, ductwork, devices, and equipment that are necessary for complete and operating systems as specified and as required.
3. Connect piping and ductwork from fixtures, outlets, and devices full size to the nearest suitable main or riser.
4. Certain installations may be presented as typical, and full details are not repeated for each case. Subcontractor shall provide complete installation as if full details apply to each and every case, and make adjustments to typical details to suit each specific installation as part of the basic work.
5. Installation of work presented on the diagrams are applicable to the plans, and work depicted on the plans are applicable to the diagrams.
6. If there is a discrepancy in the drawings or specifications, the contractor shall figure the work based on the most stringent requirements to complete the installation and obtain clarification from the Architect before installation.

c. Sequence, coordinate, and integrate the various elements of mechanical systems, materials, and equipment. Comply with the following requirements:

1. Coordinate mechanical systems, equipment, and materials installation with other building components.
2. Verify dimensions by field measurements.
3. Arrange for chases, slots, and openings in other building components during progress of construction, to allow for mechanical installations.
4. Coordinate the installation of required supporting devices and sleeves to be set in poured-in-place concrete and other structural components, as they are constructed.
5. Sequence, coordinate, and integrate installations of mechanical materials and equipment for efficient flow of the Work. Give particular attention to large equipment requiring positioning prior to closing in the building.
6. Where mounting heights are not detailed or dimensioned, install systems, materials and equipment to provide the maximum headroom possible. Work shall be above ceilings or ceiling line.
7. Coordinate installation and connection of mechanical systems with exterior underground and overhead utilities and services. Comply with requirements of governing regulations, franchised service companies, and controlling agencies. Provide required connection for each service.
8. Install systems, materials, and equipment to conform with approved submittal data, including coordination drawings, to greatest extent possible. Conform to arrangements indicated by the Contract Documents, recognizing that portions of the Work are shown only in diagrammatic form. Coordinate with individual system requirements.
9. Install systems, materials, and equipment level and plumb, parallel and perpendicular to other building systems and components, where installed exposed in finished spaces.
10. Install mechanical equipment to facilitate servicing, maintenance, and repair or replacement of equipment components. As much as is practical, connect equipment for ease of disconnecting, with minimum of interference with other installations. Extend grease fittings to an accessible location.
11. Install systems, materials, and equipment giving right-of-way priority to systems required to be installed at a specified slope.
12. Coordinate with the locations of electrical panels and avoid installing piping and ductwork over them. Electrical panels are purposely located and have priority for location. The contractor is responsible for required piping and ductwork offsets to insure that the panels are located as designed and for other conditions.
13. Perform system modification recommended by Test and Balance Agency after recommendations are accepted by the Engineer

4. Interpretation of Plans

A. In general, the Drawings are to scale. However, to determine exact locations of walls and partitions, the Contractor shall consult the architectural and/or structural Drawings which are dimensioned. Drawings shall not take precedence over field measurements.

B. Drawings are diagrammatic only. They are intended to indicate size and/or capacity where stipulated, approximate location and/or direction, and approximate general arrangement of one phase of work to another, but not the exact detail of construction. All work shall be constructed from field measurements taken at the site. This shall include all rises, drops, elbows, offsets, etc as necessary to avoid structural members or equipment and materials installed by other trades. The contractor shall coordinate the ductwork and piping layout before construction. No additional costs will be allowed for piping and ductwork fabrications without field verification of available space. If it is found, before installation, that a more convenient, suitable or workable arrangement of any or all phases of construction would result by altering the arrangement indicated on the Drawings, the architect/engineer may require the contractor to change the arrangement of his work without additional cost to the owner.

C. The drawings and specifications are intended to supplement each other. Any items shown on the drawings and not mentioned in the specifications, or vice versa, shall be executed the same as if mentioned and shown.

D.
E. The greatest quantity or more expensive work shall govern where there is a conflict noted anywhere on the drawings and/or specifications.

5. Substitutions and Prior Approval Requests

A. Bids shall be based on the exact materials specified, those listed scheduled on the drawings, or on materials which have been accepted as equivalent. The specified/scheduled products have been used in the design of the project and the preparation of the drawings and specifications as such establish minimum standards of function, dimension, appearance and quality necessary and requisite for this project, which substitutes must meet to be considered acceptable. The burden of proof of equality rests with the party making the request.

B. Requests for substitution shall be in writing and shall be received by the Engineer not later than 10 days before bid opening date. Materials not specified or accepted as equivalent shall not be acceptable for installation.

C. Each prior approval request for substitution shall include and meet the following requirements:

1) The name and model of the material or equipment for which an equivalent is being proposed and a complete description of the proposed equivalent including drawings, cuts sheets, equipment performance capacity and test data, equipment weights, electrical and any other information necessary for a complete evaluation.

2) A written comparison listing any deviations from the scheduled equipment and/or the specification requirements must also be provided prior to any proposed substitution will be evaluated.

3) A written statement setting forth any changes in other materials, equipment, electrical, structural and/or other Work in which incorporation of the equivalent may be required shall be included.

4) Material and/or equipment requests which do not meet the above requirements will not be evaluated or approved.

5) The burden of proof of the merit of the proposed equivalent is upon the proposer. Any and all extra costs associated with the equipment change and affecting architectural, structural, mechanical, plumbing or electrical work shall be responsibility of the entity requesting the substitution.

6) The Engineer's decision of approval or disapproval of a proposed equivalent is final.

D. Final approval of all equipment shall be contingent on shop drawing acceptance, compliance with the specifications and performance criteria as scheduled and acceptable installation. General approval to bid a product does not relieve the Supplier or Contractor of meeting specific specification requirements.

E. The Mechanical Contractor shall pay, provide, install and be responsible for extra materials required or any other trade due to this use of alternate accepted equipment which has installation requirements different than the specified equipment. The Mechanical Contractor shall pay other trades for any extra work they are involved in due to this substitution of equipment.

F. If substitutions of controls or equipment require any changes in the architectural, structural, mechanical, plumbing or electrical work from that shown on the drawings, the extra cost of the equipment or architectural, structural, mechanical, plumbing or electrical work shall be responsibility of the Contractor requesting the substitution. All substitutions shall be prior approved by the Architect or Engineer before purchase by the contractor.

G. Where any redesign of electrical, mechanical or other work is required due to substitution, arrangement or equipment layout other than herein specified or shown:

1. Arrange for required redesign by Architect and Engineer.
2. Pay all costs for such redesign.

SECTION 22 05 23 GENERAL DUTY VALVES FOR PLUMBING PIPING

1. Provide all valves indicated on the drawings, where required by code and where necessary for proper and efficient isolation of piping systems. Provide shut-off valves for isolation of all equipment items on both the inlet and outlet. Provide valves at locations required for proper service and drainage of systems. All valves shall be installed in accessible locations. All valves of the same type shall be by the same manufacturer. Each valve shall be stamped or inscribed with the manufacturer's name and the rated working pressure.

A. Acceptable Manufacturers for ball valves includes Apollo, Nibco, Watts and Milwaukee.

B. Ball valves shall have standard port, bronze body, chromium plated ball, reinforced Teflon seats, blowout proof stem, threaded or soldered ends, rated for 150 psi WOG. Only non-ferrous materials shall be installed.

SECTION 22 07 00 PLUMBING INSULATION

1. General
A. All insulation shall have composite fire and smoke hazard ratings as tested by Procedure ASTM E-84, NFPA 225 and U/L 723 not exceeding flame spread 25 and smoke developed 50.

2. Plumbing Piping

A. Domestic Cold water, Hot water, Hot water circulating piping and Storm Drainage piping shall have 1-inch thick fiberglass pipe insulation with an average thermal conductivity not exceeding 0.23 BTU-in./sq.ft.-degree F-hr. at a mean temperature of 75 degrees F. Cover piping with premolded fiberglass insulation, having an all-purpose vapor barrier jacket. Cover fittings, valves and flanges with preformed rigid sectional fiberglass insulation. Fill voids with insulating cement and cover insulation with ¼ inch thick layer of finishing cement and vapor barrier mastic. Valves and fittings 2 ½" inch size and smaller may be covered with insulating cement built up in ½ inch layers to thickness of insulation on piping and finished with finishing cement and mastic. At Contractor's option, install PVC covers, equal to 25/50 Zeston, over inserts of fiberglass insulation. For cold piping, provide vapor barrier protection for all insulation. Owens Corning and Knauf are approved manufacturers

B. Storm drainage shall have 1-inch thick fiberglass pipe insulation with an average thermal conductivity not exceeding 0.27 BTU-in./sq.ft.-degree F-hr. at a mean temperature of 75 degrees F. Insulate all horizontal piping including first fitting of vertical leaders and roof drain bodies.

C. Outdoor Piping System Insulation: Increase insulation thicknesses indicated for indoor applications by ½". All outdoor insulation shall be mineral fiber or polyolefin. Provide with weather barrier aluminum jacket.

D. All exposed indoor piping insulation shall be covered with a field installed paintable PVC jacket.

E. Provide insulation kit equal to Truebro Inc. model # 102 Handi-Lav Guard insulation for all exposed hot and cold water and waste piping and fittings.

SECTION 22 11 16 DOMESTIC WATER PIPING

1. General

A. All piping materials, methods of installation and workmanship shall be provided in compliance with the requirements of State and local codes and regulations in addition to recognized standard industry practices. Piping shall be cleaned, sanitized, inspected, tested and approved in compliance with State and local codes and regulations. In general, piping systems shall be tested in accordance with State Plumbing Code requirements, but to not less than 150% of the design operating pressure for the specific system. Equipment shall be isolated from piping systems when systems are tested. Any defects detected in piping systems shall be properly corrected and the system retested.

B. Water supply services piping inside building, above grade, pipe 2" and smaller shall be Type "L" hard copper, ASTM B-88-58. Fittings shall be brazed with #95-5 solder and #50 flux. Pipe 2 ½" and larger shall be schedule 40 galvanized steel, ASTM A-53. Fittings shall be galvanized screwed, ANSI B16.3.

C. Provide all necessary piping related specialties including unions and flanges, dielectric connections, couplings, and escutcheons. Dielectric connections shall be provided wherever copper pipe is connected to steel pipe or steel equipment to prevent galvanic action and subsequent corrosion. Pipe escutcheons shall be chrome finish and provided at piping penetrations of walls and floors in finished spaces.

D. Refrigerant Piping shall be Type ACR copper tubing, nitrogen charged, with forged or wrought copper fittings and Silfos soldered joints.

E. Condensate drain piping shall be Type L hard drawn copper pipe, ASTM B-88, with brazed wrought copper fittings using 95-5 tin-antimony solder for 2-inch pipe and smaller.

F. Provide all necessary piping related specialties including unions and flanges, dielectric connections, couplings, and escutcheons. Dielectric connections shall be provided wherever copper pipe is connected to steel pipe or steel equipment to prevent galvanic action and subsequent corrosion. Pipe escutcheons shall be chrome finish and provided at piping penetrations of walls and floors in finished spaces.

G. Provide all valves indicated on the drawings, where required by code and where necessary for proper and efficient isolation of piping systems. Provide shut-off valves for isolation of all equipment items on both the inlet and outlet, including plumbing fixtures and equipment. Provide valves at locations required for proper service and drainage of systems. All valves shall be installed in accessible locations. All valves of the same type shall be by the same manufacturer. Each valve shall be stamped or inscribed with the manufacturer's name and the rated working pressure. Valves used for domestic water applications shall limit lead content to meet National Sanitation Foundation (NSF) requirements.

1. Acceptable Manufacturers for ball valves includes Apollo, Nibco, Watts and Milwaukee, for gate valves includes Crane, Milwaukee and Stockham, for butterfly valves includes DeZurik, Milwaukee and Stockham, for check valves includes Crane, Milwaukee and Stockham, for triple service valves includes Bell & Gossett and Taco, and for pressure relief valves includes Watts.

2. Ball valves shall have standard port, bronze body, chromium plated ball, reinforced Teflon seats, blowout proof stem, threaded or soldered ends, rated for 150 psi WOG.

3. Check valves shall have cast iron body, ASTM A126, bronzed disc, threaded or soldered ends to 2-inch size, flanged ends 2 ½ -inch size and above, rated for 150 psi WOG.

4. Pressure relief valves shall have bronze body, ANSI Z21-22, stainless steel thermostat, emergency fuse plug, ASME rated, AGA certified and CGA listed for intended application.

H. Provide pipe hangers, duct hangers, and equipment supports as required for the specific application to ensure that mechanical systems equipment, piping and accessories are properly supported. Pipe hangers shall be UL listed and FM approved, complete with inserts, beam clamps, bolts, clips or rods, and installed in compliance with code requirements and standard recognized industry practice. Duct hangers shall be in accordance with the most current edition of SMACNA publication "HVAC Duct Construction Standards, Metal and Flexible", and installed in accordance with code requirements and standard recognized industry practice. Mechanical equipment stands shall be specifically designed and fabricated for the equipment served.

I. Provide motors for mechanical equipment of the high efficiency type with a minimum service factor of 1.15, pre-lubricated steel ball or roller bearings rated for a life span of 200,000 hours of operation, quiet operation, built-in thermal overload protection and NEMA 48 frame.

J. Provide variable frequency drives (VFD's) for mechanical equipment selected for the specific equipment served, with electrical characteristics compatible with the building's electrical service, constructed in accordance with NEC, NEMA, and recognized industry standards, UL listed and labeled, and warranted against failure due to defects for two (2) years. Acceptable manufacturers include ABB, Graham, Toshiba and Reliance.

SECTION 22 13 16 SANITARY PIPING

1. General

A. All piping materials, methods of installation and workmanship shall be provided in compliance with the requirements of State and local codes and regulations in addition to recognized standard industry practices. Piping and fittings exposed to the weather shall be painted or galvanized. Piping shall be cleaned, sanitized, inspected, tested and approved in compliance with State and local codes and regulations. In general, piping systems shall be tested in accordance with State Plumbing Code requirements. Equipment shall be isolated from piping systems when systems are tested. Any defects detected in piping systems shall be properly corrected and the system retested.

B. Sanitary waste and vent, inside building, hubless cast iron, ASTM A888. Where space permits, cast iron no hub pipe may be used. Fittings shall be heavy duty shielded couplings with long sweep elbows. Joints for cast iron fittings may be mechanical compression ring type.
A. Above Ground: Install hubless cast iron soil pipe and fittings with heavy duty shielded couplings.
B. Below Ground: Install PVC sewer pipe and fittings.

C. Provide all necessary piping related specialties including unions and flanges, dielectric connections, couplings, and escutcheons. Dielectric connections shall be provided wherever copper pipe is connected to steel pipe or steel equipment to prevent galvanic action and subsequent corrosion. Pipe escutcheons shall be chrome finish and provided at piping penetrations of walls and floors in finished spaces.

SECTION 22 40 00 PLUMBING FIXTURES

1. General

A. Provide complete plumbing systems in accordance with the requirements of State and local codes, authorities having jurisdiction and the Department of Health.
B. Provide shock absorbers as required to prevent water hammer within the domestic water systems.
C. Provide vacuum breakers and backflow prevention where required by and in compliance with Code requirements.
D. Provide plumbing rough-in and make connections to all equipment requiring plumbing services whether or not such equipment is provided under this division.
E. Provide dielectric fittings at all connections of copper and galvanized steel piping and steel equipment.
F. Provide pumped circulating hot water lines to all fixtures requiring hot water service.
G. Provide cleanouts for sanitary drainage systems in compliance with Code requirements.

2. Install plumbing fixtures and systems including equipment, piping, specialties and accessories in compliance with the Minnesota Plumbing Code, other codes having jurisdiction, the requirements of authorities having jurisdiction, the manufacturer's published installation instructions, and recognized standard industry practices.

3. Disinfect the domestic water supply system in compliance with the Minnesota Plumbing Code and the requirements of the Minnesota Department of Health. Clean all plumbing fixtures to the satisfaction of the Owner.

4. Plumbing Fixture Schedule

A. Item WC-1 - Water Closet (Floor Mount, Manual Valve)
1. Fixture: American Standard #2234.001 "Madera" 15"H, elongated water saver water closet, white vitreous china, siphon jet action, 1 ½" top spud, 1.6 GPF.
2. Seat: American Standard #5901.100SS solid plastic, open front with self-sustaining hinge for elongated bowl, white.
3. Flush valve: Sloan Royal Model 111-1.6 low consumption flushometer chrome plated brass construction, ADA compliant handle, 1.6 GPF.

B. Item UR-1 - Urinal (Wall Hung, Battery Operated Flush Valve, ADA Compliant)
1. Fixture: American Standard #6561.017 "Trimbrook 1.0 GPH, white vitreous china, siphon jet, flushing rim, extended stall sides, ¾" inlet top spud, 2" back outlet, supporting bolts. Mount fixture at ADA compliant height.
2. Flush valve: Sloan Model 8180-1.0 low consumption battery operated flushometer.

C. Item L-1 – Wall Hung Lavatory (Battery Operated Faucet, ADA Compliant)
1. Fixture: American Standard #0355.012 "Lucerne" wall hung white vitreous china lavatory, 18" x 20", faucet holes on 4-inch centers, front overflow, concealed arms support.
2. Faucet: American Standard Model 6055 "Innsbrook" chrome plated gooseneck faucet with wrist blade handles and aerator.
3. Accessories: Provide 4-inch lavatory waste tailpiece, 1 ¼-inch diameter chrome plated grid strainer, chrome plate cast brass trap and drain tubing with wall flange, ½-inch chrome plated angle valves and flex risers with wall flanges, supply and drain ADA insulation wrap.

D. Item SK-1 – Counter Set S.S. Sink w/ gooseneck faucet and wrist blades ADA
1. Fixture: Elkay Model LRAD2219, 22"x 19" x 6" D, type 304 stainless steel, 20 gauge, self-rimming, 3 ½-inch diameter outlet, mounting hardware.
2. Faucet: Chicago Faucet Model 786-E29VPABCP chrome plated gooseneck faucet with wrist blade handles and aerator.
3. Accessories: Provide 4-inch lavatory waste tailpiece, 1 ¼-inch diameter chrome plated grid strainer, chrome plate cast brass trap and drain tubing with wall flange, ½-inch chrome plated angle valves and flex risers with wall flanges, supply and drain ADA insulation wrap.

E. Item EWC-1 - Electric Water Cooler with Bottle Filling Station (Single Height Unit, ADA Compliant)
1. Fixture: Elkay Model LZS8WSLK, ADA Compliant wall mounted electric water cooler and bottle filler with stainless steel cabinet and contoured basin, flexible bubbler to prevent accidental injuries; front push button operation, and an inline flow regulator. Cooling system shall be in cabinet and shall include a fin and tube type condenser with 4.3 watt permanently sealed and lubricated fan, ½ horsepower, R-134a compressor, with thermal overload protection, to cool 7.5 gallons per hour, with 90 degree ambient air, of water from 80 to 50 degrees F. Unit shall be assembled with lead free components. Provide mounting hardware. Refer to Architectural drawings for mounting height.
2. Waste: Removable, chrome plated brass strainer, 1 ¼" O.D, trap connection with 1 ¼" tailpiece.
3. Trap: Adjustable "P" chrome plated brass trap with 1 ½" 17 gauge tubing, drain to wall, ground swivel joints, clean-out, wall flange. Trap is to be concealed within cabinet.
4. Supply: 3/8" I.P.S. connection with 3/8" chrome plated angle valve with loose key stop and 3/8" cooper flexible tube riser.

F. Item WH-1 Exterior Wall Hydrant
1) Fixture: Woodford Model B65, Flush mounted wall box, freeze less, #37hd field testable vacuum breaker, loose key operated. Chrome finish. 1

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Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
ANDREW C. BARTLETT
LIC. NO. 56617 DATE 05/22/2026

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CITY OF MORRIS, MINNESOTA
MORRIS AIRPORT TERMINAL BUILDINIG
MECHANICAL SPECIFICATION

SHEET M5.00

Real People. Real Solutions.

Morris, MN
Construction of New Terminal Building
Pre-Bid Meeting Agenda
June 10, 2026

1. **INTRODUCTION**
   a. Sign–in sheet

2. **SUMMARIZED POJECT DESCRIPTION**
   a. Project consists of all required materials, labor, equipment and disposal associated with the removal of the existing airport terminal building, and the construction of a new building including associated utilities and sitework.

3. **CONTRACT DOCUMENTS**
   a. General Conditions
      i. FAA General Provisions and the FAA Special Provisions
      ii. This project is subject to Prevailing Wage Rates, Truck Rentals, and Veteran-Owned Small Business, Equal Employment Opportunity Provisions, Buy American Iron and Steel Provisions, and Build America Buy America.
      iii. Contractors must pay the higher of State or Davis-Bacon wages, and certified payroll reports are required from all subcontractors.
      iv. Because this project includes federal funding, participation goals are governed by the USDOT Disadvantaged Business Enterprise (DBE) program. During the current DBE certification reevaluation period, no DBE participation goal will be set. State Targeted Group Business (TGB) goals do not apply to federally funded contracts and are therefore not included.

4. **PROCUREMENT AND CONTRACTING REQUIREMENTS**
   a. Bidder qualifications = Yes
   b. Insurance = Yes
   c. Bid security = Yes
   d. Performance/Payment Bond = Yes
   e. Responsible Prime Contractor Certification = Yes
   f. Responsible Subcontractor Certification = Yes
   g. Bidders List Collection Form = Yes
   h. Fostering Small Business Participation Form = Yes
   i. Buy American Certification of Compliance = Yes
   j. Certificate of Non-Segregated Facilities = Yes
   k. Contractors Safety Plan Compliance Document (SPCD Statement)
   l. Bid Form and Attachments = Yes, Review Instructions to bidders
   m. Substitution requests: Yes, Submit form and documentation to Architect ASAP
   n. <u>All bids submitted via Quest CDN</u>

5. **PROJECT SCHEDULE**
   a. Bid Date: June 17, 2026 at 10:00 AM
   b. Onsite Work: Will be confirmed after bid opening. Targeting September 2026
   c. Final Completion September 1, 2027
   d. Liquidated Damages: Yes
      i. $1,000 per calendar day after the substantial completion date.

6. **RESTRICTIONS/PROJECT SPECIFIC ITEMS**
   a. Note: The jobsite is in and around and active airport.

7. **PROJECT COMMUNICATIONS**
    a. Communication During Bidding Period
        i. All questions directly to the Architect
        ii. See project manual for RFIs and Substitution Requests
    b. Communication During Construction Period
        i. Information/RFIs/Submittals/etc. through the Architect and Prime Contractor
        ii. Will discuss more in Pre-Construction Meeting
    c. Points of Contact
        i. Architect (Primary Communication)
            1. Matt Hopkins matt.hopkins@bolton-menk.com
        ii. Owner
            1. City of Morris
8. **PERMITS**
    a. Contractor is responsible for all required permits

9. **PAYMENTS**
    a. Payment dated on or about the 25th day of the month
    b. Section 90 of the FAA General Provisions

10. **PROJECT COMPLETION**
    a. Contractor Punchlist and Request for Substantial Completion Inspection
    b. Substantial Completion
    c. Final Completion

11. **MEETING NOTE**
    a. Nothing discussed in this meeting modifies the provisions of the Contract Documents. All provisions to be modified in writing via Addendum including responses to questions.

12. **QUESTIONS**
13. **SITE/BUILDING WALKTHROUGH**