STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
OFFICE OF FACILITIES

RELOCATION OF SAWMILL OPERATIONS
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

PROJECT NO: 94-263

STATE ACCOUNT NO: 431-25-89

PREPARED BY:
Sundberg, Carlson
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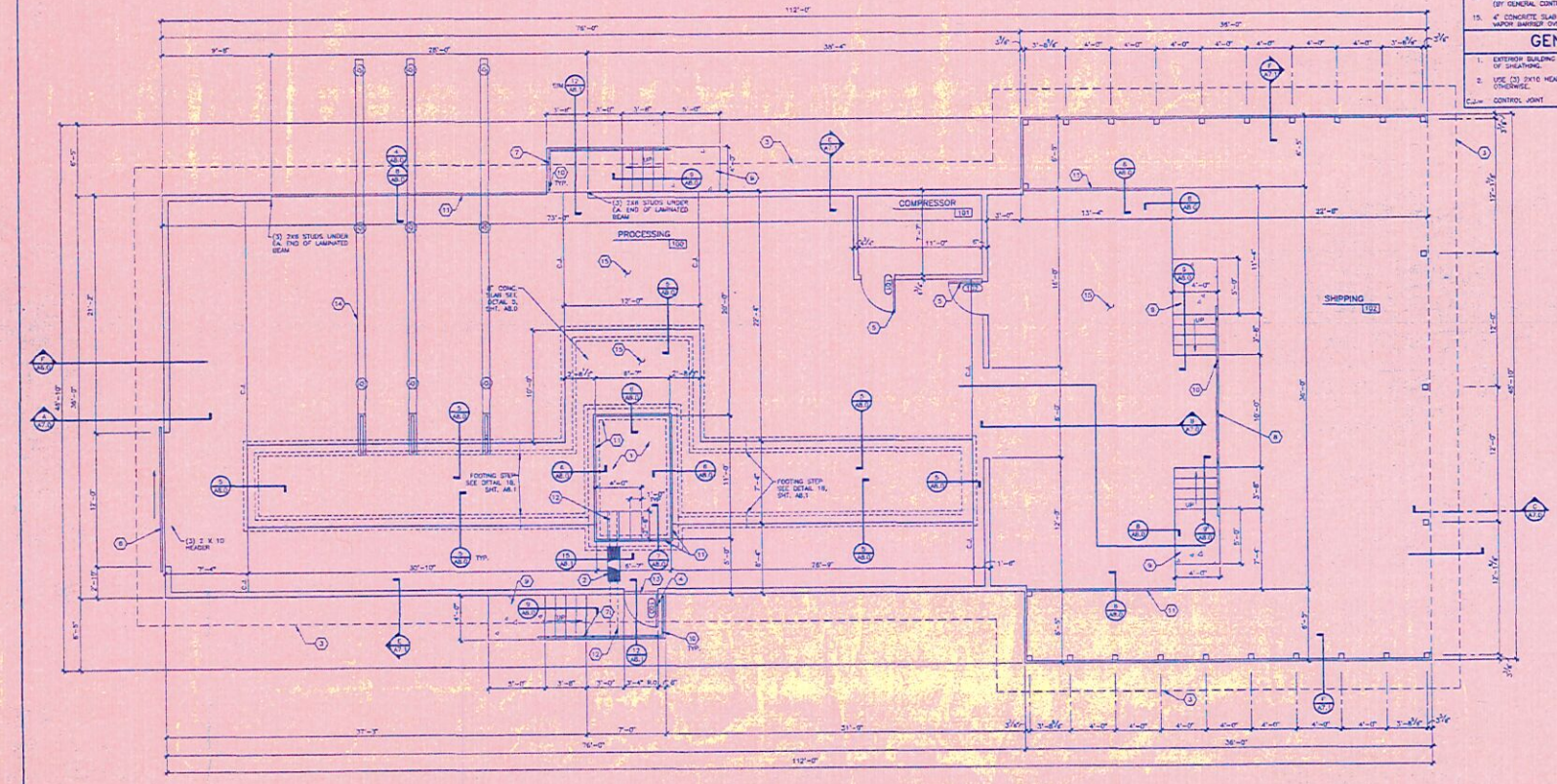
914 West Baraga Ave.
Marquette, MI 49855



FLOOR PLAN
SCALE: 1/4" = 1'-0"

ASSUMED NORTH

KEYNOTES

1. SAWDUST PIT
2. 1'-0"x3'-0" REMOVABLE TRENCH COVER
3. INDICATES LINE OF ROOF ABOVE
4. 3'-0"x7'-0"x1 3/4" HOLLOW METAL DOOR W/ HOLLOW METAL FRAME. REFER TO DETAILS 1/A8.0 AND 3/A8.0
5. 3'-0"x7'-0"x1 3/4" HOLLOW METAL DOOR W/ HOLLOW METAL FRAME. REFER TO DETAIL 2/A8.0
6. 12'-0"x8'-0" SLIDING WOOD FRAME DOOR W/ METAL SIDING. REFER TO DETAIL 16/A8.1
7. STEEL PIPE RAILING. REFER TO DETAIL 10/A8.0
8. STEEL PIPE RAILING. REFER TO DETAIL 11/A8.0
9. 4" CONCRETE SLAB
10. GUARDRAIL POST LOCATION
11. CONTINUOUS ANGLE WIRECOCKED INTO CONCRETE.
12. 5" PVC ACCESS TUBE, CAST IN CMU AND CONCRETE. COORDINATE TUBE INSTALLATION WITH EXISTING SAWDUST BLOWER TUBE.
13. ALUMINUM THRESHOLD
14. LOG DECK BEAMS, SUPPORT POST AND FOUNDATIONS (BY GENERAL CONTRACTOR). SEE SHEET A9.0.
15. 4" CONCRETE SLAB W/6X6X10/10 W.W. MESH OVER 6 MIL. VAPOR BARRIER OVER 6" (MIN.) CLEAN COMPACTED GRANULAR FILL.

GENERAL NOTES

1. EXTERIOR BUILDING ENVELOPE DIMENSIONS TO OUTSIDE OF SHEATHING.
2. USE (3) 2X10 HEADER OVER ALL DOORS WHICH ARE NOT NOTED OTHERWISE.

C.J.— CONTROL JOINT

C	ISSUED FOR BIDS	JBL	7/27/94
B	ISSUED FOR STOP PROCESS	JBL	7/26/94
A	ISSUED FOR REVIEW	JBL	7/25/94
		BY	DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
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ACCOUNT NO. 431-26-89

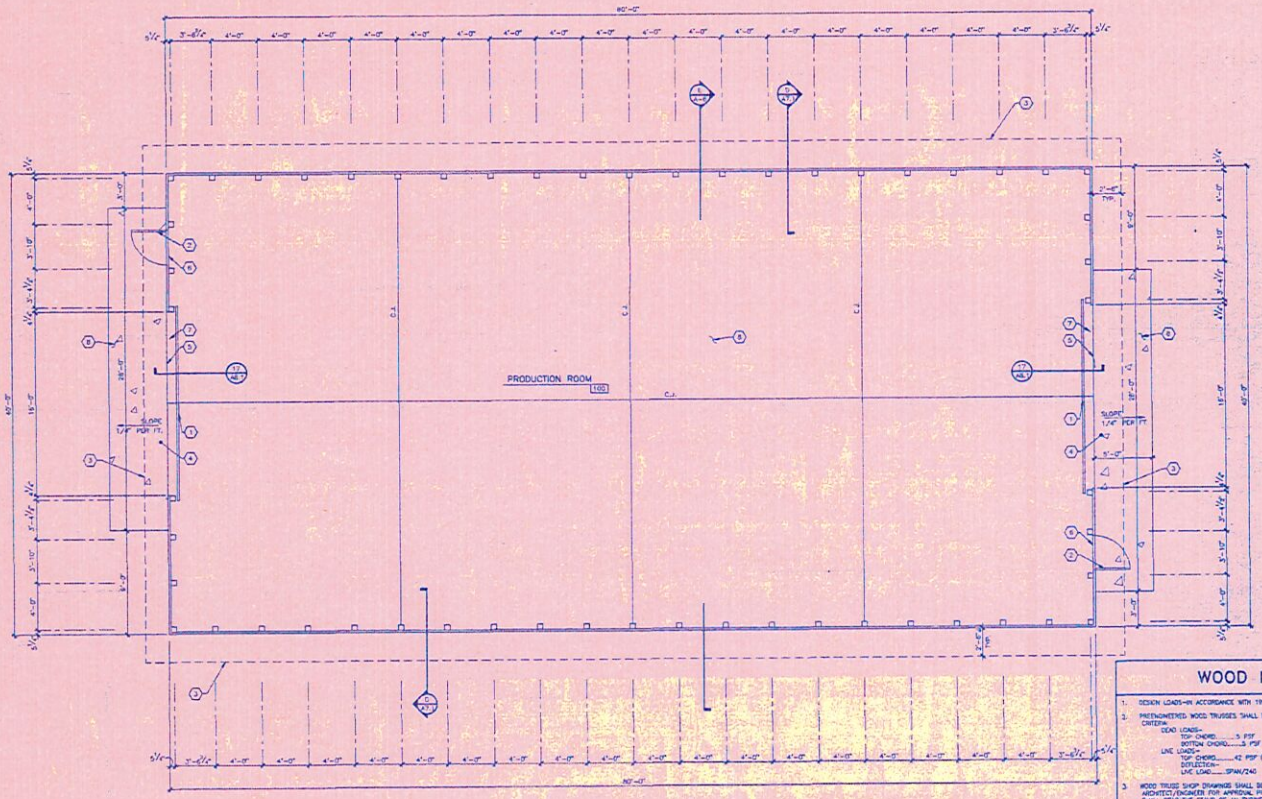
	INITIALS	DATE
DESIGN	JBL	8/11/94
DRAWN	DK	8/11/94
CHECKED	JBL	10/13/94
APPROVED		/ /

SAWMILL FLOOR PLAN

PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. DFP

A1.0



FLOOR PLAN
SCALE: 1/4" = 1'-0"

ASSUMED NORTH

KEYNOTES

1. 16'-0"x12'-0" INSULATED OVERHEAD DOOR. REFER TO DETAIL 13/A6.1
2. 3'-0"x7'-0"x1 3/4" INSULATED HOLLOW METAL DOOR AND HOLLOW METAL FRAME. PAINT DOOR AND FRAME. REFER TO DETAIL 14/A6.1
3. INDICATES ROOF LINE ABOVE.
4. 6" CONCRETE APRON, SLAB.
5. ISOLATION JOINT
6. ALUMINUM THRESHOLD.
7. (3) 2 X 12 HEADER OVER DOOR. ATTACH TO 6 X 8 POST WITH SIMPSON U210-3, OR EQUAL.
8. 6" CONCRETE SLAB W/ WWF 6X6 - W2.0 X W2.0 OVER 6 MIL VAPOR BARRIER OVER 6" MIN. CLEAN COMPACTED GRANULAR FILL.

GENERAL NOTES

C.J. CONTROL JOINT

CONCRETE NOTES

1. DESIGN LOADS-IN ACCORDANCE WITH 1995 BOCA.
2. FOOTINGS ARE DESIGNED TO BEAR ON NATURAL MATERIALS WITH AN ALLOWABLE BEARING CAPACITY OF 4000 PSF. (VERIFY BY QUALIFIED TESTING AGENCY IN THE FIELD) IF MATERIAL OF THIS CAPACITY IS NOT FOUND AT THE ELEVATIONS INDICATED, FOOTINGS SHALL BE LOWERED OR ENLARGED AT THE DIRECTION OF THE ENGINEER. ALL FILL UNDER SLABS SHALL BE CLEAN GRANULAR FILL COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY.
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH MINIMUM LAPS OF 8".
4. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. ALL LAPS SHALL BE A MINIMUM OF 30 BAR DIAMETERS.
5. PROVIDE DOWELS BETWEEN ALL FOOTINGS, WALLS AND PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.
6. ANCHOR BOLTS SHALL BE ASTM A307.
7. ALL CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS (PROVIDE AIR ENTRAINED FOR ALL CONCRETE SUBJECT TO FREEZE-THAW):
   FOOTINGS, PIERS.....3000 PSI
   SLAB ON GRADE.....4000 PSI
8. CONCRETE SHALL CONFORM TO THE FOLLOWING:
   ACI 301: SPECIFICATIONS FOR STRUCTURAL CONCRETE
   ACI 305: HOT WEATHER CONCRETING
   ACI 306: COLD WEATHER CONCRETING
9. ALL SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL. REBAR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
10. NO FILL SHALL BE PLACED AGAINST CONCRETE WALLS UNTIL CONCRETE HAS REACHED 75% OF DESIGN STRENGTH OR UNTIL DIRECTED BY THE ENGINEER.
11. DRILLED IN CONCRETE ANCHORS (DCA) SHALL BE HILTI HEAVY DUTY "KWIK BOLTS" OR APPROVED EQUAL.
12. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".
13. ELECTRICAL CONDUITS, PIPES, DRAINS, ETC. SHALL BE IN PLACE BEFORE CONCRETE IS PLACED.
14. FIBER REINFORCING FOR SLAB ON GRADE SHALL BE TYPE D-15, BY THE FORTA CORPORATION, OR APPROVED EQUAL.

MASONRY NOTES

1. ALL CONCRETE MASONRY SHALL CONFORM TO ASTM C90, HOLLOW LOAD BEARING BLOCK UNITS; TYPE 1, MOISTURE CONTROLLED. LAY BLOCK IN RUNNING BOND.
2. ALL MORTAR FOR CONCRETE MASONRY SHALL CONFORM TO ASTM C270, TYPE 'S'. JOINTS SHALL BE TOOLED CONCAVE.
3. ALL GROUT SHALL CONFORM TO ASTM C476.
4. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE GALVANIZED FINISH COLD DRAWN STEEL WITH 9 GAUGE SIDE RODS AND CROSS TIES. INSTALL JOINT REINFORCEMENT AT 16" O.C. VERTICALLY.
5. VERTICAL REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. CORES CONTAINING BARS SHALL BE GROUTED SOLID. REBAR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
6. PROVIDE BOND BEAM MASONRY LINTELS OVER ALL WALL OPENINGS NOT SCHEDULED FOR STEEL LINTELS. BOND BEAM LINTELS SHALL BE 8" HIGH WITH TWO #5 BOTTOM BARS, U.N.O.
7. PROVIDE TWO #5 BARS ON ALL SIDES OF OPENINGS IN BLOCK WALLS. EXTEND BARS 2'-0" BEYOND EDGE OF OPENING IN ALL DIRECTIONS.

NOTE TO SPECIFIER: TAKE CARE IN THE USE OF NOTES 6 & 10. IF ALL JOINT LOCATIONS CAN BE SHOWN ON THE ARCHITECTURAL PLANS, THAT IS THE PREFERRED METHOD. THE USE OF NOTES 9 & 10 REQUIRE A MUCH HIGHER DEGREE OF ATTENTIVENESS ON THE CONTRACTOR'S PART, WHICH CANNOT ALWAYS BE COUNTED ON.

8. PROVIDE VERTICAL CONTROL JOINTS AT THE FOLLOWING LOCATIONS:
   AS SHOWN ON THE DRAWINGS.
   INTERSECTIONS OF PERPENDICULAR WALLS.
   CHANGES IN WALL HEIGHT.
   CHANGES IN WALL THICKNESS.
   TRANSITION BETWEEN SLAB-SUPPORTED WALLS AND CONTROL JOINTS SHALL BE SPACED NO MORE THAN 40 FEET OR TWICE THE WALL HEIGHT APART, WHICHEVER IS LESS.
9. DO NOT PLACE VERTICAL CONTROL JOINTS THROUGH BOND BEAM MASONRY LINTELS OR WITHIN 18" OF A BEAM OR JOIST BEARING POINT.
10. ANCHOR BOLTS SHALL CONFORM TO ASTM A307.
11. DRILLED IN CONCRETE ANCHORS (DCA'S) FOR MASONRY SHALL BE HILTI "SLEEVE ANCHORS", OR APPROVED EQUAL.
12. ALL MASONRY TO RECEIVE ANCHOR BOLTS SHALL BE GROUTED SOLID FOR 16" IN ALL DIRECTIONS FROM THE ANCHOR LOCATION.
13. ALL COLD WEATHER MASONRY WORK SHALL BE DONE IN ACCORDANCE WITH BRAMC RECOMMENDED PRACTICES AND GUIDE SPECIFICATION FOR COLD WEATHER MASONRY CONSTRUCTION.

WOOD NOTES

1. DESIGN LOADS-IN ACCORDANCE WITH 1990 BOCA.
2. PRETENSIONED WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING CRITERIA:
   DEAD LOADS-
   TOP CHORD.....5 PSF
   BOTTOM CHORD.....5 PSF
   LIVE LOADS-
   TOP CHORD.....42 PSF (SNOW)
   DEFLECTION-
   LIVE LOAD.....SPAN/240
3. WOOD TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BEAR THE STAMP OF AN ENGINEER LICENSED IN THE STATE OF MICHIGAN.
4. LUMBER FOR FRAMING SHALL BE SPRUCE-PINE-FIR, #2 OR BETTER, OR APPROVED EQUAL (UNLESS NOTED OTHERWISE).
5. LUMBER FOR POSTS SHALL BE KILN-DRIED SOUTHERN PINE, #1 OR BETTER.
6. MEMBERS DESIGNATED AS "GANG-LAM" SHALL BE GANG-LAM LAMINATED VENEER LUMBER AS MANUFACTURED BY LOUISIANA-PACIFIC, OR APPROVED EQUAL.
7. MEMBERS MADE UP OF MULTIPLE PLYS OF NOMINAL 2" LUMBER OR "GANG-LAM" SHALL BE GLUED AND NAILED. ALL NOMINAL PIECES OF NOMINAL 2" MEMBERS SHALL BE FULL LENGTH. SPLICES OF PLYS ARE NOT PERMITTED.
8. BOLTS FOR WOOD TO WOOD AND WOOD TO STEEL CONNECTIONS SHALL BE ASTM A307.
9. ROOF AND WALL SHEATHING SHALL BE APA PERFORMANCE-RATED STRUCTURAL-USE PANELS, EITHER PLYWOOD OR NON-VENEER PANELS, EXTERIOR OR EXPOSURE 1 CLASSIFICATION, AS INDICATED ON THE DRAWINGS.
10. ALL LUMBER AND SHEATHING SHALL HAVE A GRADE STAMP RECOGNIZED BY THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION OR THE AMERICAN PLYWOOD ASSOCIATION.
11. TREATED LUMBER SHALL BE IN ACCORDANCE WITH AWPA STANDARDS C2 & C9. WATERBORNE PRESERVATIVE SHALL HAVE A RETENTION OF 0.25 LB./CU.FT. FOR WOOD ABOVE GROUND EXPOSED TO THE WEATHER, 0.40 LB./CU.FT. FOR WOOD IN CONTACT WITH THE GROUND, AND 0.60 LB./CU.FT. FOR PERMANENT WOOD FOUNDATIONS.
12. FIELD CUT OR DRILLED TREATED LUMBER SHALL BE FIELD TREATED BY LIBERALLY BRUSHING ON A SOLUTION OF COPPER NAPHTHENATE CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION IN ACCORDANCE WITH AWPA STANDARD M4.
13. GLUED LAMINATED TIMBER BEAMS SHALL CONFORM TO ATC COMBINATION SYMBOL 24F-V3 SP/SP, OR APPROVED EQUAL.

RELOCATION OF SAWHILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

REV	DATE	BY	ISSUED
C	08/17/94	JRL	ISSUED FOR BID
B	07/26/94	JRL	ISSUED FOR STATE REVIEW
A	05/27/94	JRL	ISSUED FOR REVIEW

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
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ACCOUNT NO. 431-25-89

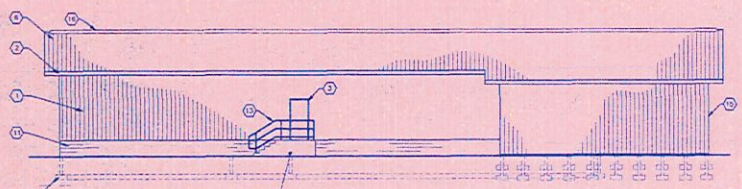
	INITIALS	DATE
DESIGN	JRL	8/17/94
DRAWN	S.P.	8/17/94
CHECKED	JRL	10/13/94
APPROVED		/ /

DIMENSION PLANT FLOOR PLAN

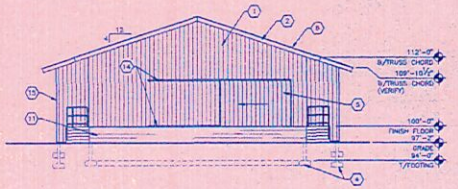
PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. DP01

A2.0



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



WEST ELEVATION
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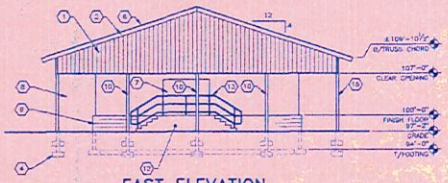

EAST ELEVATION
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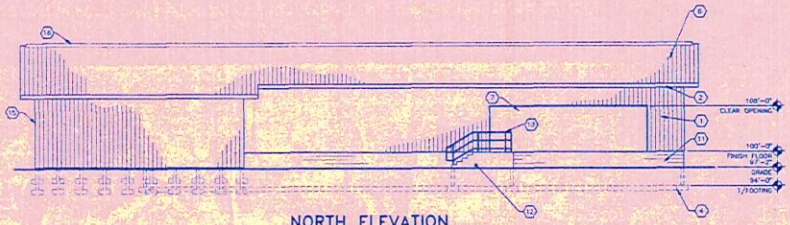

NORTH ELEVATION
SCALE: 1/8" = 1'-0"

KEYNOTES

1. PREFINISHED METAL SIDING
2. PREFINISHED METAL SOFFIT AND FASCIA
3. HOLLOW METAL DOOR AND FRAME
4. CONCRETE FOOTINGS
5. 8'x12' SLIDING DOOR
6. PREFINISHED METAL ROOF
7. OPEN TO SAWMILL
8. OPEN TO SHIPPING BEYOND, TYP.
9. CMU WALL AT PLATFORM
10. TREATED WOOD POST
11. CMU FOUNDATION WALL
12. CONCRETE STEPS AND LANDING
13. STEEL PIPE GUARDRAIL
14. SLIDING DOOR TRACK ASSEMBLY
15. CORNER TRIM
16. CONTINUOUS RIDGE VENT

GENERAL NOTES

0	ISSUED FOR BID
A	ISSUED FOR 90% REVIEW

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
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IRON RIVER, MICHIGAN

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ACCOUNT NO. 431-25-89

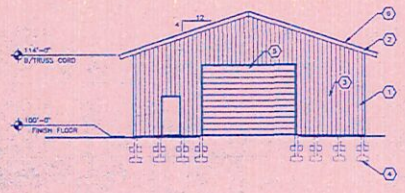
	INITIALS	DATE
DESIGN	JB	8/15/94
DRAWN	JP	10/14/94
CHECKED		/ /
APPROVED		/ /

SAWMILL
EXTERIOR ELEVATIONS

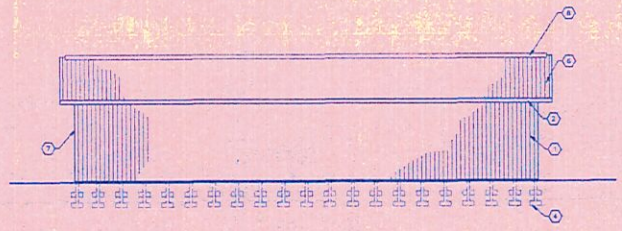
PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. CD001

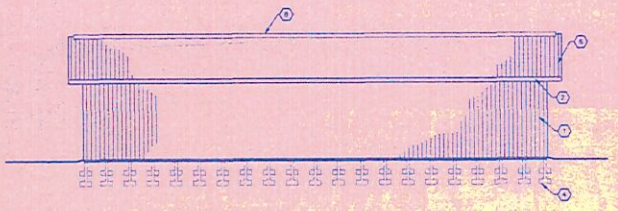
A3.0



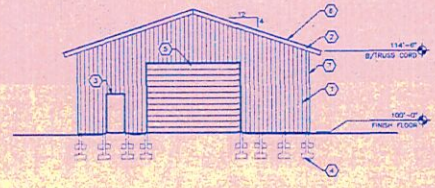
NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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



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



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

KEYNOTES

1. PREFINISHED METAL SIDING
2. PREFINISHED METAL SOFFIT AND FASCIA
3. HOLLOW METAL DOOR AND FRAME
4. CONCRETE FOOTINGS
5. 16'x12' OVERHEAD DOOR
6. PREFINISHED METAL ROOF
7. CORNER TRIM
8. CONTINUOUS RIDGE VENT

GENERAL NOTES

0	ISSUED FOR BIDS
A	ISSUED FOR BIDS REVIEW

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
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ACCOUNT NO. 431-25-89

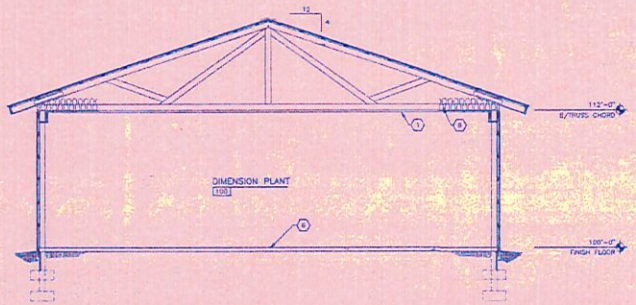
	INITIALS	DATE
DESIGN	JA	8/19/94
DRAWN	TKP	10/4/94
CHECKED		/ /
APPROVED		/ /

DIMENSION PLANT EXTERIOR ELEVATIONS

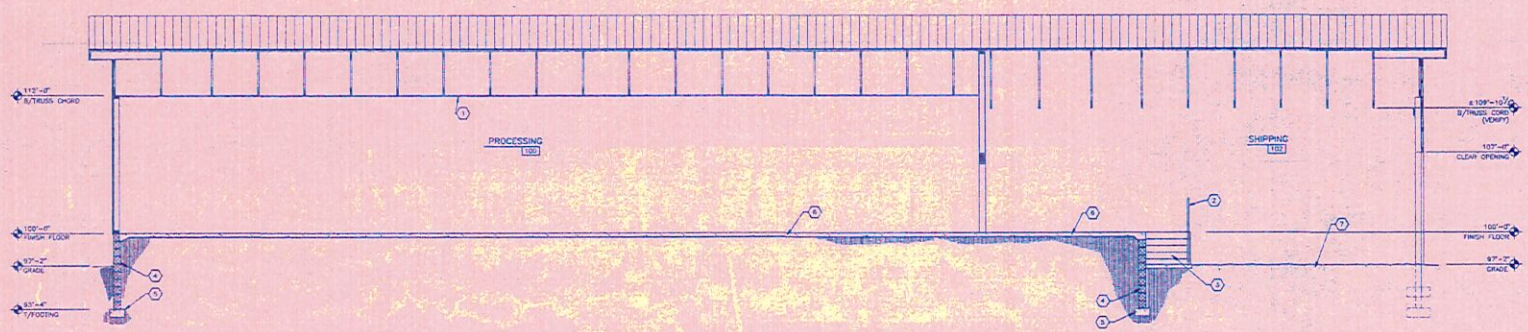
PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO.
0010

A4.0



BUILDING SECTION
SCALE: 1/4" = 1'-0"
1 / A2.0



BUILDING SECTION
SCALE: 1/4" = 1'-0"
1 / A7.0

KEYNOTES

1. METAL CEILING
2. STEEL PIPE GUARD RAIL
3. CONCRETE STAIR
4. 8" CMU FOUNDATION WALL
5. CONCRETE FOOTING
6. CONCRETE FLOOR SLAB
7. GRAVEL

GENERAL NOTES

1. REFER TO WALL SECTIONS, SHEET A7.0 FOR MORE DETAILED INFORMATION.

0	ISSUED FOR BID	JDL	7/7/97
1	ISSUED FOR REVIEW	JDL	7/7/97
2	ISSUED FOR BIDS	JDL	7/7/97
	ISSUED	BY	DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN
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ACCOUNT NO. 431-25-89

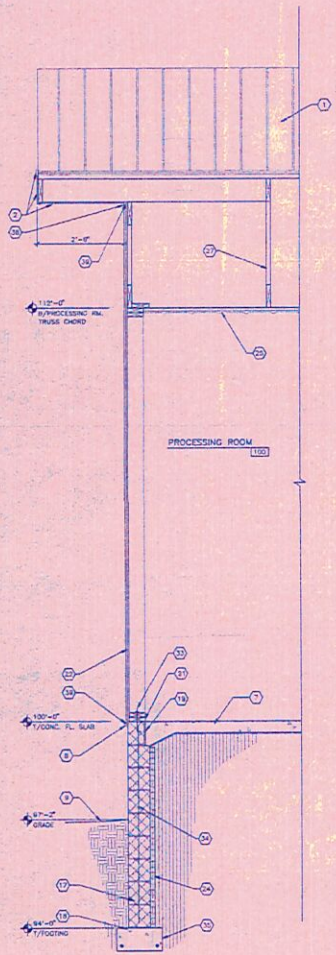
	INITIALS	DATE
DESIGN	JDL	9/15/94
DRAWN	DLD	9/15/94
CHECKED	JDL	10/15/94
APPROVED		/ /

BUILDING SECTIONS

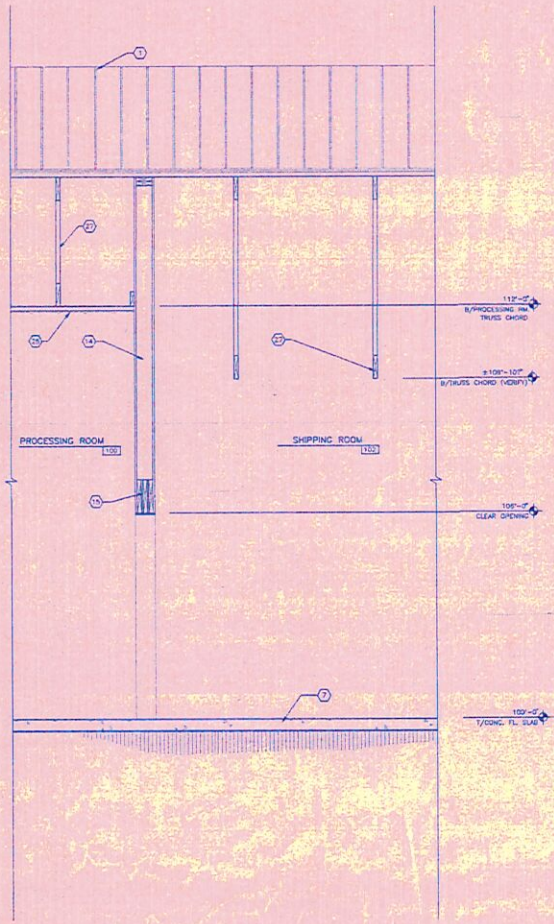
PROJ. NO. 94-283 REV. NO. 0

CAD DRAWING NO. CR6

A6.0



WALL SECTION "A"
SCALE: 3/4" = 1'-0"
A
A7.0



WALL SECTION "B"
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B
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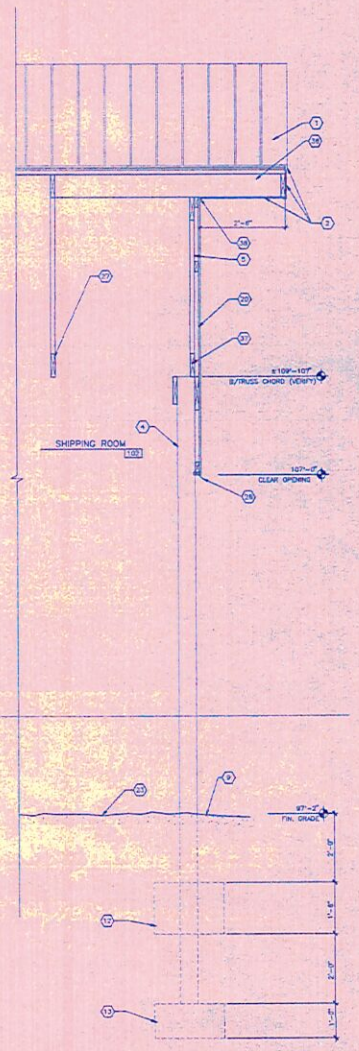


WALL SECTION "C"
SCALE: 3/4" = 1'-0"
C
A7.0

KEYNOTES

1. BASE: IND ROOFING: METAL SALES MANUF. CORP. SEAM-LOC 24, ROOFING OVER THERMO-PLY CONDENSATION BARRIER OVER 2X4 STANDING SEAM ROOF SYSTEM, 26 GAUGE.

   ALTERNATE NO. 1: METAL SALES MANUF. CORP. "PRO-PANEL II" ROOFING OVER THERMO-PLY CONDENSATION BARRIER OVER 2X4 NAILERS 24" O.C. OVER WOOD TRUSSES AT 4'-0" O.C. (TYP.).
2. PRE-FORMED METAL D-EDGE, FASCIA AND CONTINUOUS VENTED SOFFIT (TYP.).
3. 2X10 LEDGERS (CONTINUOUS)- THRU BOLT TO 6X6 POSTS W/ (2) 3/4" BOLTS W/(2) WASHERS EACH SIDE (TYP.).
4. TREATED 6X8 POSTS 4'-0" O.C. UNLESS NOTED OTHERWISE (TYP.).
5. PRO-PANEL II SIDING OVER 2X4 GIRTS (BETWEEN 6X8 POSTS) EXTEND PLYWOOD TO TOP OF GABLE ENDS WHERE REQUIRED.
6. "PRO-PANEL II" SIDING OVER 1" "THERMAX" OVER 2X4 GIRTS @ 24" O.C.
7. 4" CONCRETE SLAB W/WWF 6X6-W1.4XW1.4 OVER 6 MIL. VAPOR BARRIER OVER 6"(MIN.) CLEAN COMPACTED GRANULAR FILL.
8. CONTINUOUS BASE MOLDING FLASHING (TYP.)
9. SLOPE GRADE AWAY FROM BUILDING (TYP.).
10. TREATED 2X12 GRADE BOARD CONT. (TYP.).
11. 1 1/2" RIGID INSUL. (2'-0" DEEP) AROUND PERIMETER OF BUILDING (TYP.).
12. 18" THICK X 36" DIA. CONC. UPLIFT PAD W/ 1/2" REBAR (THRU 6X6 POST) OVER 12" CLEAN COMPACTED FILL (TYP. @ EXTERIOR WALLS).
13. 12" THICK X 36" DIA. CONC. PAD OVER 6" (MIN.) CLEAN COMPACTED GRANULAR FILL (TYP. @ EXTERIOR WALLS).
14. 2X6 STUD WALL @ 16" O.C. WITH 5/8" PLYWOOD EACH SIDE.
15. (3) 2X12 WOOD HEADER.
16. 12" (R-38) FIBERGLASS FACED INSULATION.
17. 8" CMU FOUNDATION WALL.
18. CONCRETE FOOTING.
19. 1/2" BITUMINOUS EXPANSION BOARD.
20. "PRO-PANEL II" SIDING OVER WOOD GIRTS.
21. 2X6 TREATED PLATE OVER SILL SEAL ANCHORED TO CMU @ 4'-0" O.C.
22. "PRO-PANEL II" SIDING OVER 5/8" PLYWOOD SHEATHING OVER 2X6 STUD WALL @ 24" O.C.
23. GRAVEL FINISH GRADE (BY CONTRACTOR)
24. 1 1/2" RIGID INSUL. (4'-0" DEEP) @ CMU PERIMETER.
25. "PRO-PANEL II" CEILING OVER 2X4 NAILERS @ 2'-0" O.C.
26. DRIP CAP.
27. ENGINEERED WOOD TRUSSES @ 4'-0" O.C.
28. 5/8" PLYWOOD CLOSURE PANEL - CONTINUOUS
29. EAVE BAFFEL AT EACH TRUSS SPACE.
30. "PRO-PANEL II" OVER 2X4 GIRTS @ 24" O.C.
31. SIMPSON H1 TRUSS CONNECTOR OR EQUAL.
32. 6" CONCRETE SLAB W/ WWF 6X6 - W2.0 X W2.0 OVER 6 MIL VAPOR BARRIER OVER 6" MIN. CLEAN COMPACTED GRANULAR FILL.
33. 1/2" DIA. ANCHOR BOLTS @ 8' O.C. MAX.
34. GROUT CORES @ 8" O.C. MAX W/ (1) #4 BAR
35. 12"X18" FOTING W/ (3) #4 BARS
36. LOOKOUTS BY TRUSS SUPPLIER
37. ATTACH TRUSS TO POST W/ (2) 3/4" DIA. X 6" LAG BOLTS AT TOP AND BOTTOM OF CHORDS.
38. J-CHANNEL
39. INSIDE CLOSURE

GENERAL NOTES

1. KEYNOTES LISTED ABOVE ARE TYPICAL TO DRAWINGS A/7.0. AND A/7.1. SOME KEYNOTES MAY NOT BE REFERENCED TO THIS DRAWING.

C	ISSUED FOR BIDS	JB	9/7/94
B	ISSUED FOR SITE REVIEW	JB	7/7/94
A	ISSUED FOR SITE REVIEW	JB	6/17/94
	95520	BY	DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Planning • Engineering • Land Surveying • Landscape Architecture

ACCOUNT NO. 431-25-80

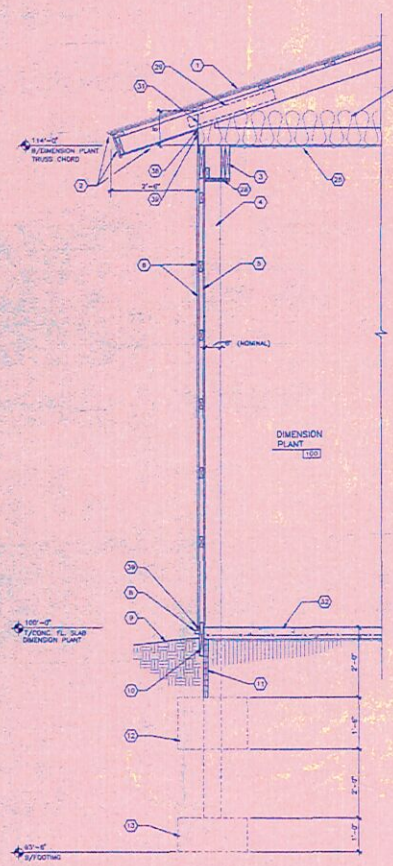
	INITIALS	DATE
DESIGN	JB	6/15/94
DRAWN	TJP	6/15/94
CHECKED		/ /
APPROVED		/ /

WALL SECTIONS

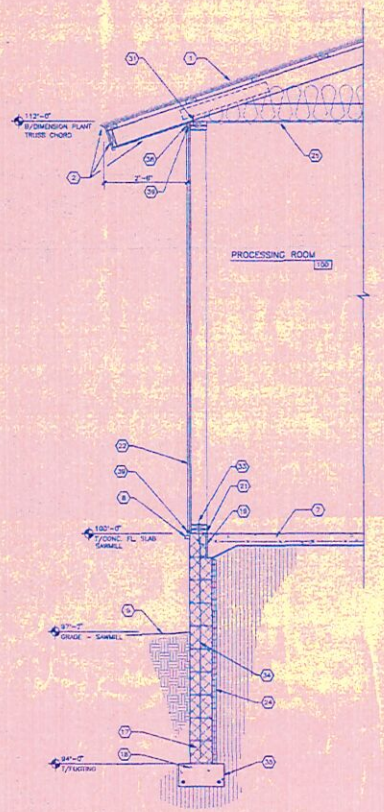
PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. CP51

A7.0



WALL SECTION "D"
SCALE: 3/4" = 1'-0"



WALL SECTION "E"
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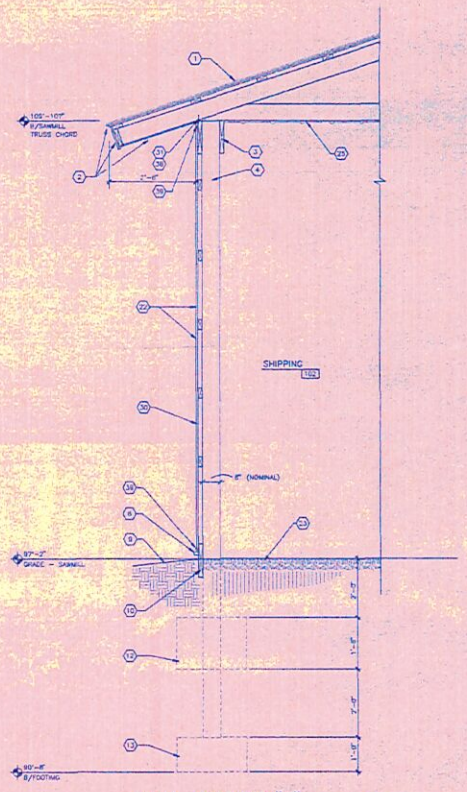


WALL SECTION "F"
SCALE: 3/4" = 1'-0"

KEYNOTES

1. BASE: IBD ROOFING: METAL SALES MANUF. CORP. SEAM-LOC 24, ROOFING OVER THERMO-PLY CONDENSATION BARRIER OVER 2X4 STANDING SEAM ROOF SYSTEM, 26 GAUGE.

   ALTERNATE NO. 1 METAL SALES MANUF. CORP. "PRO-PANEL II" ROOFING OVER THERMO-PLY CONDENSATION BARRIER OVER 2X4 NAILERS 24" O.C. OVER WOOD TRUSSES AT 4'-0" O.C. (TYP.).
2. PRE-FORMED METAL D-EDGE, FASCIA AND CONTINUOUS VENTED SOFFIT (TYP.).
3. 2X10 LEDGERS (CONTINUOUS)- THRU BOLT TO 6X6 POSTS W/ (2) 3/4" BOLTS W/(2) WASHERS EACH SIDE (TYP.).
4. TREATED 6X6 POSTS 4'-0" O.C. UNLESS NOTED OTHERWISE (TYP.).
5. PRO-PANEL II SIDING OVER 2X4 GIRTS (BETWEEN 6X6 POSTS) EXTEND PLYWOOD TO TOP OF GABLE ENDS WHERE REQUIRED.
6. "PRO-PANEL II" SIDING OVER 1" "THERMAX" OVER 2X4 GIRTS @ 24" O.C.
7. 4" CONCRETE SLAB W/WWF 6X6-W1.4XW1.4 OVER 6 MIL. VAPOR BARRIER OVER 6"(MIN.) CLEAN COMPACTED GRANULAR FILL.
8. CONTINUOUS BASE MOLDING FLASHING (TYP.)
9. SLOPE GRADE AWAY FROM BUILDING (TYP.).
10. TREATED 2X12 GRADE BOARD CONT. (TYP.).
11. 1 1/2" RIGID INSUL. (2'-0" DEEP) AROUND PERIMETER OF BUILDING (TYP.).
12. 18" THICK X 36" DIA. CONC. UPLIFT PAD W/ 1/2" REBAR (THRU 6X6 POST) OVER 12" CLEAN COMPACTED FILL (TYP. @ EXTERIOR WALLS).
13. 12" THICK X 36" DIA. CONC. PAD OVER 6" (MIN.) CLEAN COMPACTED GRANULAR FILL (TYP. @ EXTERIOR WALLS).
14. 2X6 STUD WALL @ 16" O.C. WITH 5/8" PLYWOOD EACH SIDE.
15. (3) 2X12 WOOD HEADER.
16. 12" (R-38) FIBERGLASS FACED INSULATION.
17. 8" CMU FOUNDATION WALL.
18. CONCRETE FOOTING
19. 1/2" BITUMINOUS EXPANSION BOARD
20. "PRO-PANEL II" SIDING OVER WOOD GIRTS.
21. 2X6 TREATED PLATE OVER SILL SEAL ANCHORED TO CMU @ 4'-0" O.C.
22. "PRO-PANEL II" SIDING OVER 5/8" PLYWOOD SHEATHING OVER 2X6 STUD WALL @ 24" O.C.
23. GRAVEL FINISH GRADE (BY CONTRACTOR)
24. 1 1/2" RIGID INSUL. (4'-0" DEEP) @ CMU PERIMETER.
25. "PRO-PANEL II" CEILING OVER 2X4 NAILERS @ 2'-0" O.C.
26. DRIP CAP.
27. ENGINEERED WOOD TRUSSES @ 4'-0" O.C.
28. 5/8" PLYWOOD CLOSURE PANEL - CONTINUOUS
29. EAVE BAFFEL AT EACH TRUSS SPACE.
30. "PRO-PANEL II" OVER 2X4 GIRTS @ 24" O.C.
31. SIMPSON H1 TRUSS CONNECTOR OR EQUAL.
32. 6" CONCRETE SLAB W/ WWF 6X6 - W2.0 X W2.0 OVER 6 MIL VAPOR BARRIER OVER 6" MIN. CLEAN COMPACTED GRANULAR FILL.
33. 1/2" DIA. ANCHOR BOLTS @ 8' O.C. MAX.
34. GROUT CORES @ 8' O.C. MAX W/ (1) #4 BAR
35. 12"X18" FOTING W/ (2) #4 BARS
36. LOOKOUTS BY TRUSS SUPPLIER
37. ATTACH TRUSS TO POST W/ (2) 3/4" DIA. X 6" LAG BOLTS AT TOP AND BOTTOM OF CHORDS.
38. J-CHANNEL
39. INSIDE CLOSURE

GENERAL NOTES

1. KEYNOTES LISTED ABOVE ARE TYPICAL TO DRAWINGS A7.0, AND A7.1. SOME KEYNOTES MAY NOT BE REFERENCED TO THIS DRAWING.

D	ISSUED FOR BID SET	JRL 10/7/94
C	ISSUED FOR STATE REVIEW	JRL 9/7/94
B	ISSUED FOR STATE REVIEW	JRL 8/17/94
A	ISSUED FOR STATE REVIEW	JRL 7/7/94
	ISSUED	BY DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Planners • Engineers • Land Surveyors • Planners

ACCOUNT NO. 431-25-89

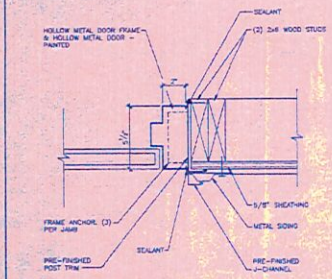
	INITIALS	DATE
DESIGN	JRL	8/15/94
DRAWN	JC	8/15/94
CHECKED		/ /
APPROVED		/ /

WALL SECTIONS

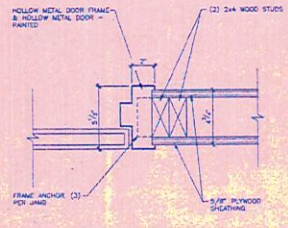
PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. CW63

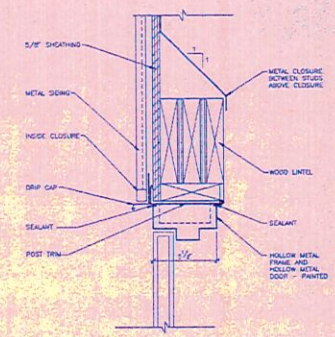
A7.1



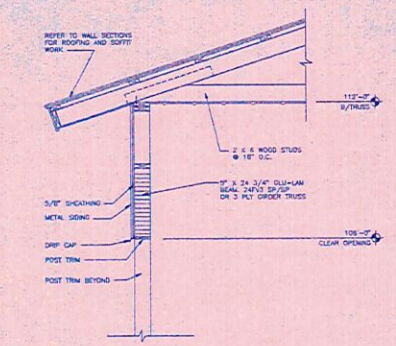
DOOR JAMB (1/A1.0)
SCALE: 3" = 1'-0"



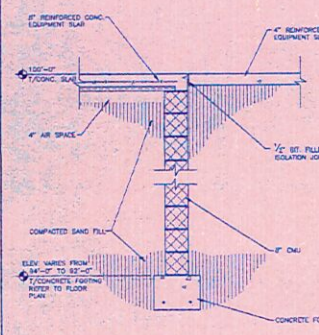
DOOR JAMB & HEAD (2/A1.0)
SCALE: 3" = 1'-0"



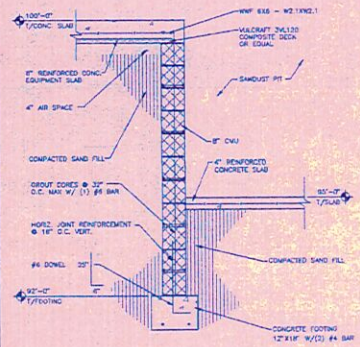
DOOR HEAD (3/A1.0)
SCALE: 3" = 1'-0"



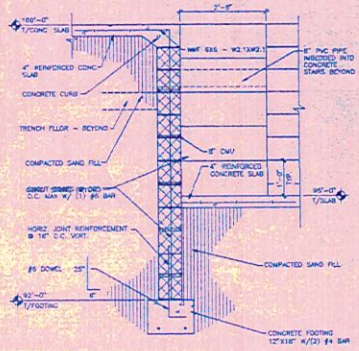
LOG OPENING BEAM (4/A1.0)
SCALE: 3/4" = 1'-0"



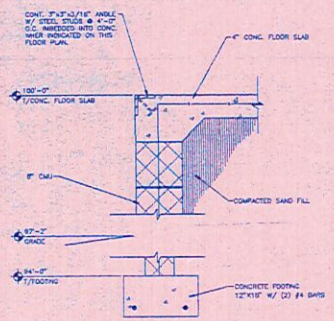
EQUIPMENT SLAB (5/A1.0)
SCALE: 3/4" = 1'-0"



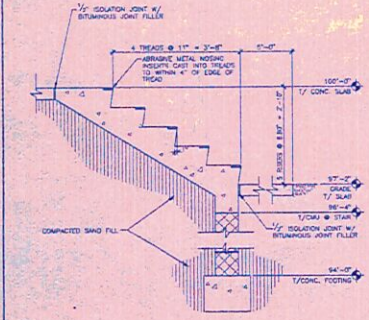
SAWDUST PIT SECTION (6/A1.0)
SCALE: 3/4" = 1'-0"



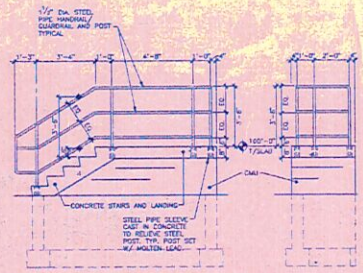
SAWDUST PIT SECTION (7/A1.0)
SCALE: 3/4" = 1'-0"



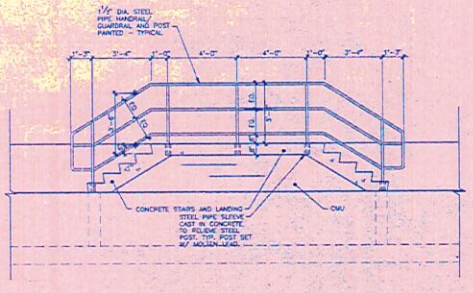
CONCRETE CURB DETAIL (8/A1.0)
SCALE: 1 1/2" = 1'-0"



CONCRETE STAIR (9/A1.0)
SCALE: 3/4" = 1'-0"



GUARDRAIL ELEVATION (10/A1.0)
SCALE: 3/8" = 1'-0"



GUARD RAIL ELEVATION (11/A1.0)
SCALE: 3/8" = 1'-0"

D	ISSUED FOR BID	JBS	10/4/94
C	ISSUED FOR SITE WORK	JBS	9/7/94
B	ISSUED FOR REVIEW	JBS	8/17/94
A	ISSUED FOR PRICING	BY	DATE

RELOCATION OF SAWHILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Architects • Engineers • Land Surveyors • Planners

ACCOUNT NO. 411-25-89

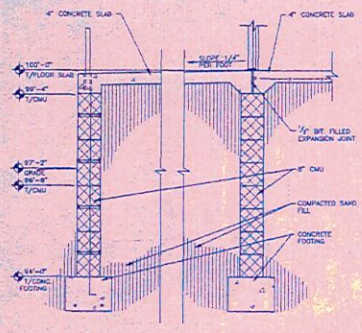
	INITIALS	DATE
DESIGN	JB	8/17/94
DRAWN	TJP	8/17/94
CHECKED		/ /
APPROVED		/ /

DETAILS (1-11)

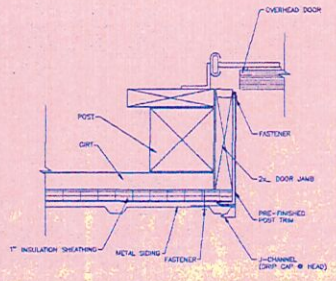
PROJ. NO. 94-203 REV. NO. 0

CAD DRAWING NO. DA1ET1

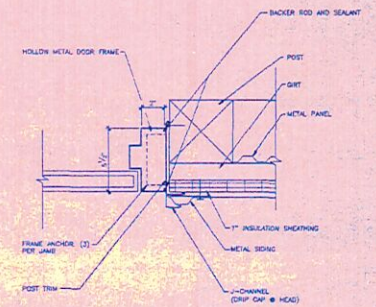
A8.0



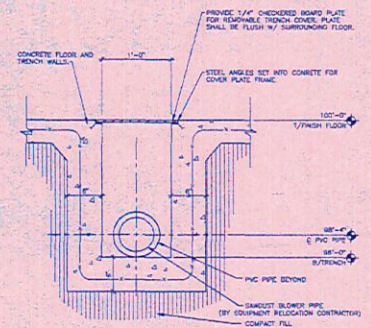
STAIR LANDING (12 / A1.0)
SCALE: 3/4" = 1'-0"



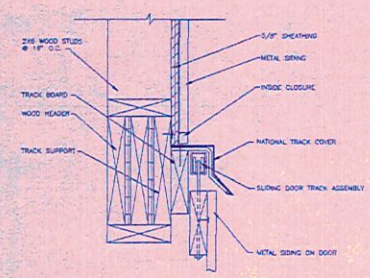
OVERHEAD DOOR JAMB (HEAD SIM.) (13 / A2.0)
SCALE: 3" = 1'-0"



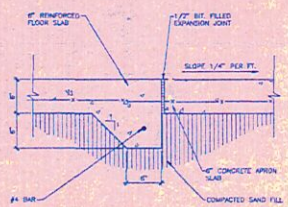
DOOR JAMB (HEAD SIM.) (14 / A2.0)
SCALE: 3" = 1'-0"



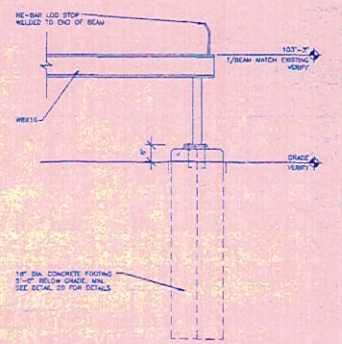
TRENCH AND FLOOR COVER (15 / A1.0)
SCALE: 1 1/2" = 1'-0"



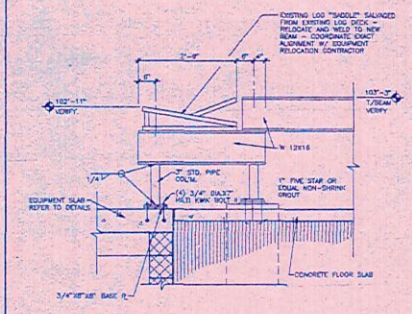
SLIDING DOOR TRACK (16 / A1.0)
SCALE: 3" = 1'-0"



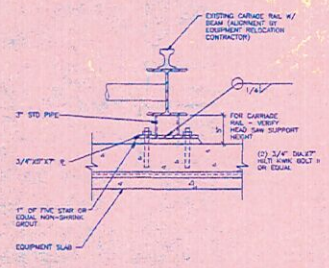
THICKENED SLAB (17 / A2.0)
SCALE: 1 1/2" = 1'-0"



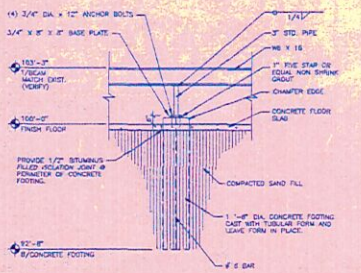
LOG DECK BEAM AND POST (18 / A2.0)
SCALE: 3/4" = 1'-0"



LOG DECK BEAM (20 / A2.0)
SCALE:3/4" = 1'-0"



CARRIAGE & HEAD SAW FRAME SUPPORT (21 / A2.0)
SCALE: 1 1/2" = 1'-0"



INTERIOR POST & LOG DECK BEAM (22 / A2.0)
SCALE: 3/8" = 1'-0"

3	ISSUED FOR SITE REVIEW	JB 6/14
2	ISSUED FOR SITE REVIEW	JB 5/14
1	ISSUED FOR SITE REVIEW	JB 4/14
REVISIONS		BY DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Architects • Engineers • Land Surveyors • Planners

ACCOUNT NO. 431-25-89

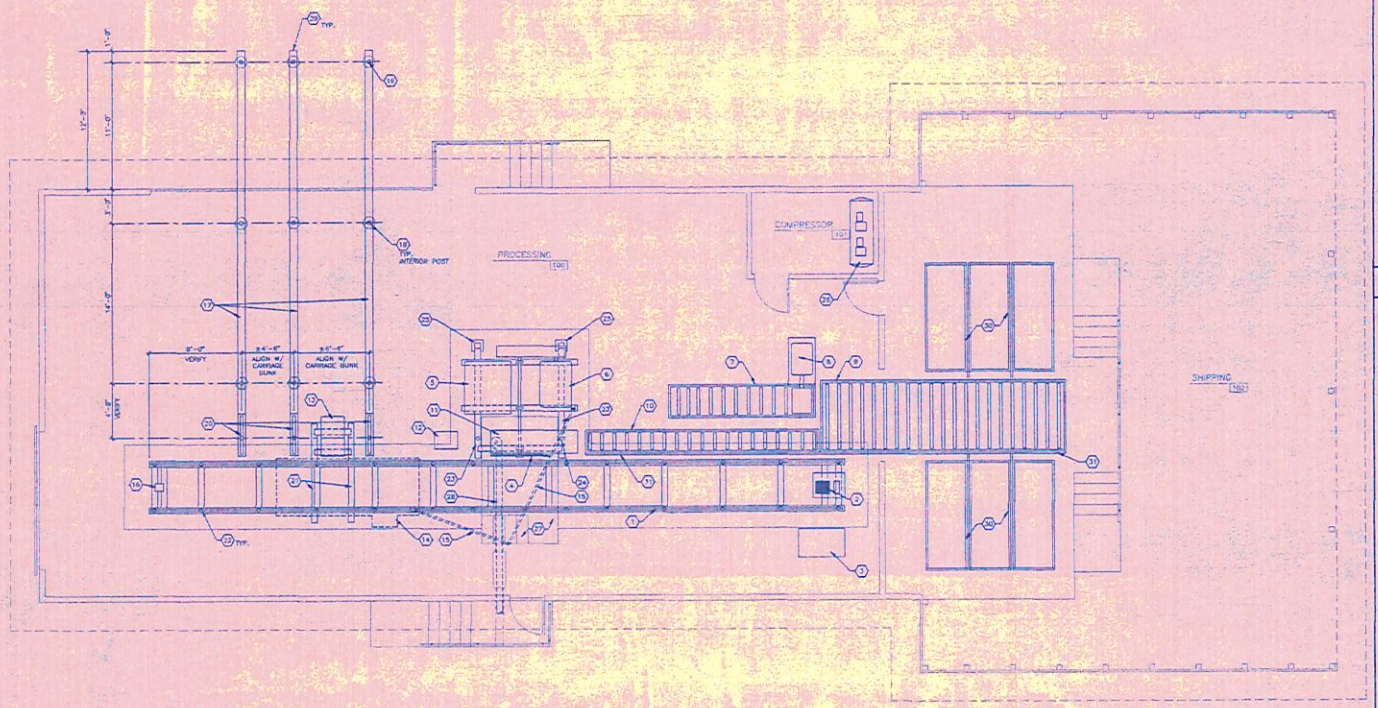
	INITIALS	DATE
DESIGN	JB	8/17/94
DRAWN	SP	8/17/94
CHECKED		/ /
APPROVED		/ /

DETAILS (12 - ?)

PROJ. NO. 94-263 REV. NO. B

CAD DRAWING NO. (ON-LINE)

A8.1



EQUIPMENT RELOCATION PLAN

SCALE: 1/4" = 1'-0"

ASSUMED NORTH

KEYNOTES

1. CARRIAGE TRACK
2. CARRIAGE DRIVE
3. CARRIAGE DRIVE GEAR PUMP
4. HEAD SAW
5. SAWYERS BOOTH
6. HEAD SAW MOTOR
7. EDGER – BOLT TO FLOOR SLAB, ATTACH FRAME TO ROLLER CONVEYORS.
8. EDGER MOTOR
9. ROLLER CONVEYOR No. 1
10. ROLLER CONVEYOR No. 2
11. OFF-BEARER BELT CONVEYOR.
12. LOG TURNER PUMP
13. LOG TURNER
14. CARRIAGE
15. CARRIAGE BOOM
16. CARRIAGE STOP
17. LOG DECK BEAMS, SUPPORT POST AND FOUNDATIONS (BY GENERAL CONTRACTOR).
18. LOG DECK BEAM SUPPORT POST RE: DETAIL 22/A6.1
19. LOG DECK BEAM SUPPORT POST RE: DETAIL 19/A6.1
20. LOG SADDLE. RE: DETAIL 20/A6.1
21. LOG TURNER FRAME – BOLT TO FLOOR SLAB
22. CARRIAGE RAIL SUPPORT POST-(24) TOTAL RE: DETAIL 21/A6.1
23. HEAD SAW FRAME ATTACHED TO CARRIAGE RAILS AND FLOOR.
24. HEAD SAW FRAME POST – REFER TO DETAIL 21/A6.1, SIMILAR (2) TOTAL
25. EXISTING HEAD SAW FRAME POST AND BASE PLATE TO BE REUSED. SHIM WITH GROUT AS REQUIRED.
26. COMPRESSOR FOR CARRIAGE – BOLTED TO FLOOR
27. SAWDUST PIT.
28. SAWDUST BLOWER AND NEW FLEXIBLE HOSE
29. RE-BAR LOG STOP WELDED TO LOG DECK BEAMS, TYP.
30. RELOCATE BOARD RACKS.
31. ROLLER CONVEYOR CHAIN DRIVE AND MOTER.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, EQUIPMENT RELOCATION CONTRACTOR SHALL DISMANTLE, DISCONNECT, SHIP, REASSEMBLE AND RECONNECT ALL OF THE EXISTING EQUIPMENT, IN ITS ENTIRETY, NOTED ON DRAWING A9.0, INCLUDING HYDRAULIC UNCL, AIR LINES, MOUNTING BOLTS, BULTS, ETC.
2. UNLESS NOTED AS NEW, EQUIPMENT LISTED ON DRAWING A9.0, IS EXISTING AND LOCATED AT THE STATE OF MICHIGAN DEPARTMENT OF CORRECTIONS CAMP BARAGA. EQUIPMENT SHALL BE RELOCATED TO NEW SAWMILL BUILDING, DESCRIBED IN THIS DRAWING SET TO BE LOCATED AT THE STATE OF MICHIGAN DEPARTMENT OF CORRECTIONS CAMP OTTAWA.
3. EQUIPMENT RELOCATION CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER ALIGNMENT AND INSTALLATION OF ALL EQUIPMENT AT NEW LOCATION IN ACCORDANCE TO EQUIPMENT MANUFACTURERS SPECIFICATIONS.
4. EQUIPMENT RELOCATION CONTRACTOR IS RESPONSIBLE FOR DISMANTLING AND REINSTALLING EQUIPMENT IN A MANNER AS TO MAINTAIN EXISTING RELATIONSHIPS BETWEEN EQUIPMENT.
5. EQUIPMENT RELOCATION CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT CONNECTIONS TO OTHER EQUIPMENT AND TO THE BUILDING STRUCTURE.
6. EQUIPMENT RELOCATION CONTRACTOR SHALL REUSE EXISTING FASTENERS AND PROVIDE NEW FASTENERS AS REQUIRED TO ASSEMBLE EQUIPMENT AT THE NEW LOCATION. WELDED CONNECTIONS SHALL BE RE-FABRICATED ON SITE AND REPAIRED AS REQUIRED.
7. EQUIPMENT RELOCATION CONTRACTOR SHALL REPLACE AR REPAIR ANY COMPONENT DAMAGED DURING THIS RELOCATION WORK.
8. SAWMILL MUST BE ALIGNED AND COMPLETELY OPERATIONABLE PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE STATE OF MICHIGAN.
9. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT RELOCATION BID PACKAGE.
10. EQUIPMENT RELOCATION CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK WITH THE GENERAL CONTRACTOR.
11. EQUIPMENT RELOCATION CONTRACTOR IS RESPONSIBLE FOR LAY-OUT OF ALL EQUIPMENT. NORTH-SOUTH RELATIONSHIP OF HEAD SAW AND CARRIAGE RAILS TO NEW SAWDUST PIT SHALL MATCH EXISTING RELATIONSHIP.
12. EQUIPMENT RELOCATION CONTRACTOR SHALL HAVE 5+ YEARS EXPERIENCE INSTALLATION OF SIMILAR SAWMILL EQUIPMENT. CONTRACTOR SHALL PROVIDE REFERENCES LIST OF PAST PROJECTS WITH THE BID. REFERENCES SHALL INCLUDE PROJECT NAME AND LOCATION, CONTACT NAME AND PHONE NUMBER.
13. EXISTING SAWMILL HEAD SAW, AUTOMATIC CARRIAGE, AND CARRIAGE DRIVE MANUFACTURED BY CLEERMAN INDUSTRIES INC., RT. 2, BOX 881, NEENAH, WI 54311.
14. EQUIPMENT RELOCATION CONTRACTOR RESPONSIBLE FOR LAYOUT AND ALIGNMENT OF LOG DECK, BEAMS, AND LOG SADDLE.

D	ISSUED FOR BIDS	JB	10/14/94
C	ISSUED FOR REVIEW	JB	9/14/94
B	ISSUED FOR 100% REVIEW	JB	8/17/94
A	ISSUED FOR 50% REVIEW	JB	8/17/94
	REVISED	BY	DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Planners • Engineers • Land Surveyors • Previsors

ACCOUNT NO. 431-25-89

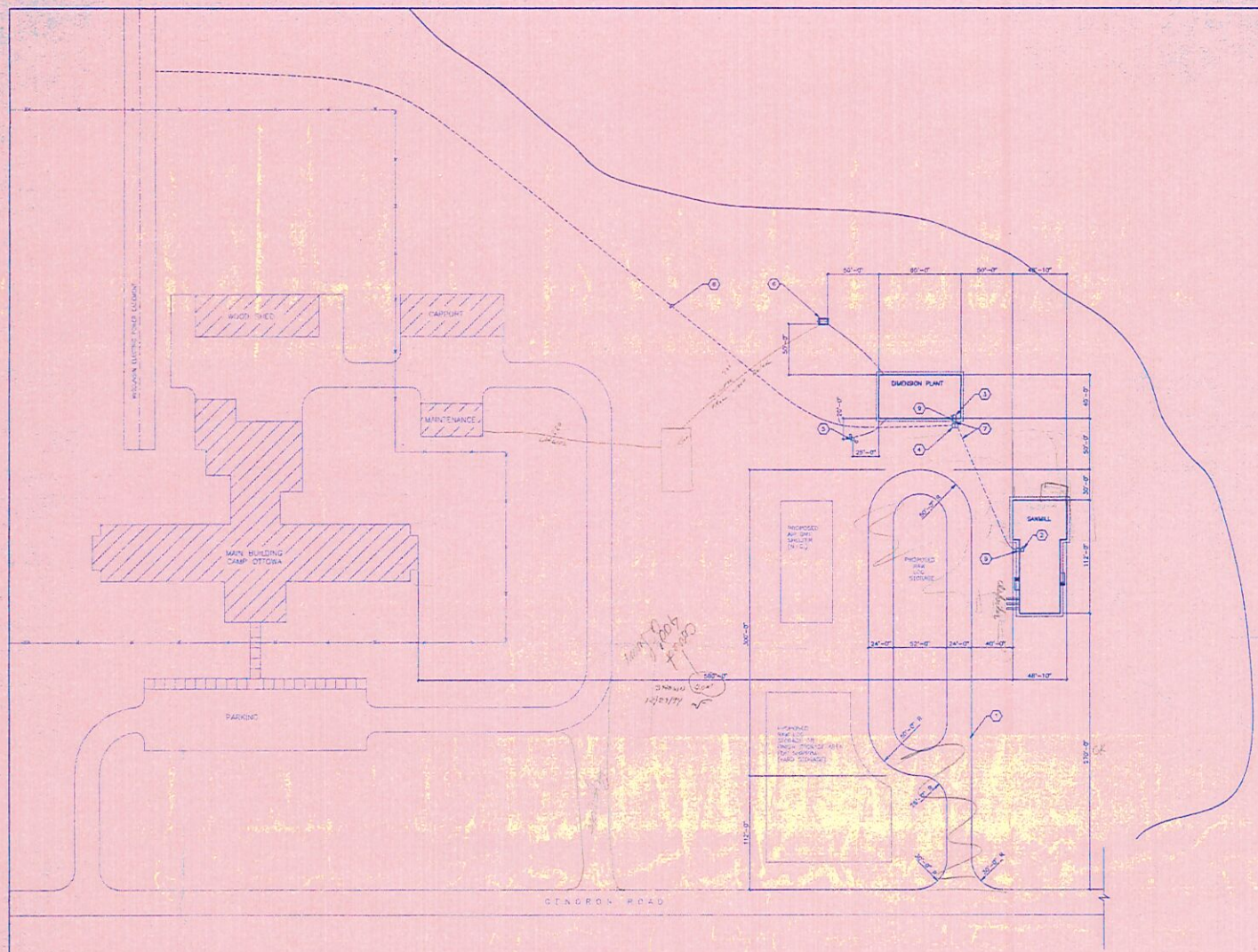
	INITIALS	DATE
DESIGN	JB	8/17/94
DRAWN	BP	10/14/94
CHECKED	JB	10/15/94
APPROVED	JHC	10/14/94

EQUIPMENT RELOCATION PLAN

PROJ. NO. 94-263 REV. NO. B

CAD DRAWING NO. CEQUIP

A9.0



SITE PLAN

ASSUMED NORTH

SCALE: 1" = 40'

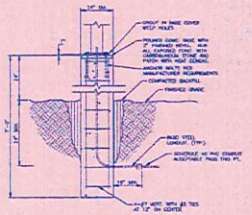
TRUE NORTH

KEYNOTES

1. SERVICE ROAD – BY OWNER
2. SAWMILL ELECTRICAL SERVICE MAIN DISCONNECT. SEE SHEET E2.0.
3. DIMENSIONING PLANT ELECTRICAL SERVICE MAIN DISCONNECT. SEE SHEET E3.0
4. NEW 300 KVA TRANSFORMER BY UTILITY COMPANY.
5. NEW SITE LIGHTING POLE. SEE FOUNDATION DETAIL ON THIS SHEET.
6. OUTDOOR WOOD FIRED BOILER. REFER TO MECH. AND ELEC. DWGS.
7. UNDERGROUND ELECTRICAL SERVICE SECONDARY, 24" BELOW GRADE, DIRECT BURY, BY UTILITY COMPANY.
8. UNDERGROUND ELECTRICAL SERVICE PRIMARY, BY UTILITY COMPANY.
9. ELECTRIC METER BY UTILITY COMPANY, TRANSDUCER BY ELECTRICAL CONTRACTOR.
10. UNDERGROUND MECHANICAL AND ELECTRICAL. SEE KEYNOTE #6.

GENERAL NOTES

1. ALL SITEWORK, EXCLUDING EXCAVATION, REQUIRED FOR CONSTRUCTION OF THE BUILDING AND MECHANICAL AND ELECTRICAL UNDERGROUND LINES, IS BY THE STATE OF MICHIGAN.
2. CONTRACTOR SHALL RESTORE SITE DISTURBED BY CONSTRUCTION. RESTORED SITEWORK SHALL MATCH EXISTING.
3. BUILDING ELEVATIONS FOR FINISH FLOOR (100'-0" ON BUILDING SECTIONS) SHALL BE DETERMINED BY THE STATE OF MICHIGAN.



LIGHTING POLE FOUNDATION DETAIL

N.T.S.

D	ISSUED FOR BIDS REVISE	JPL	9/7/94
C	ISSUED FOR BIDS REVISE	JPL	8/19/94
A	ISSUED FOR BIDS REVIEW	JPL	8/12/94
		BY	DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Architects • Engineers • Land Surveyors • Planners

ACCOUNT NO. 431-25-89

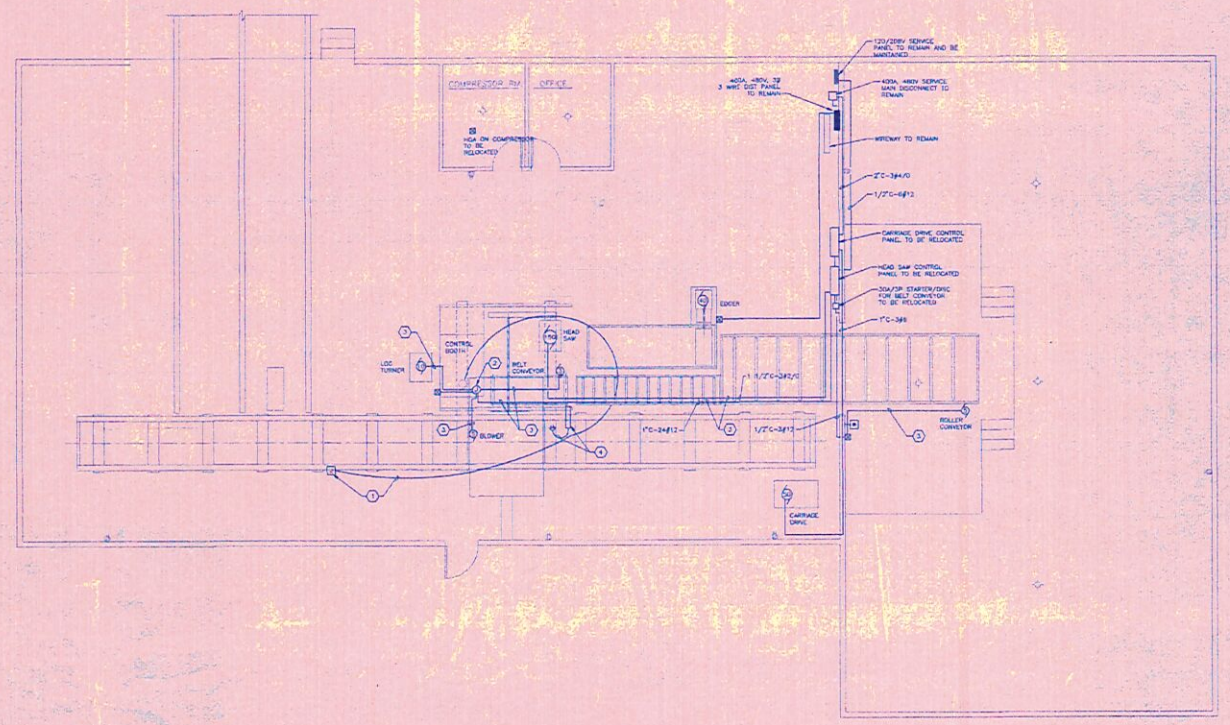
	INITIALS	DATE
DESIGN	JPL	8/22/94
DRAWN	SP	8/22/94
CHECKED		/ /
APPROVED		/ /

SITE PLAN

PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. 5157

C1.0



SAWMILL ELECTRICAL REMOVAL PLAN
SCALE: 1/4" = 1'-0"

ASSUMED NORTH

KEYNOTES

1. DISCONNECT EXISTING CONTROL CABLES: ONE 14/3 AND ONE 16/24 FROM CARRIAGE-MOUNTED JUNCTION BOX, BACK TO CONTROL BOOTH AND PREPARE FOR REINSTALLATION IN THE NEW LOCATION.
2. DISCONNECT ALL CIRCUITRY TO CONTROL BOOTH-MOUNTED J-BOX AND PREPARE CONTROL BOOTH CONNECTIONS FOR REINSTALLATION IN THE NEW LOCATION.
3. REMOVE EXISTING CONDUIT FROM MILL EQUIPMENT.
4. REMOVE EXISTING LASER UNIT AND RELOCATE TO NEW FACILITY.

GENERAL NOTES

1. CONTRACTOR SHALL DISCONNECT POWER AND CONTROL CIRCUITRY TO ALL ELECTRICAL EQUIPMENT INDICATED ON REMOVAL PLAN AND PREPARE FOR REINSTALLATION IN THE NEW LOCATION. SEE SHEET C2.0. ALL CIRCUITRY PLIN WITHIN CONTROL BOOTH AND CONTROL PANELS MAY BE RELOCATED INTACT. CONTRACTOR SHALL MARK ENDS OF ALL CIRCUITRY DISCONNECTED AND THEN RECONNECT IN SUCH A MANNER AS TO PROVIDE A COMPLETE INSTALLATION.
2. DISCONNECT EXISTING FEEDER TO 5 HP COMPRESSOR IN DIMENSION PLANT. COMPRESSOR SHALL BE RELOCATED. SEE SHEET E3.0.
3. ALL WORK ON THIS SHEET IS INCLUDED IN BID PACKAGE #1.

C	ISSUED FOR BIDS	7/15/94
B	ISSUED FOR REVIEW	6/30/94
A	ISSUED FOR SITE WORK	6/30/94
	ISSUED	BY DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Architects • Engineers • Land Surveyors • Planners

ACCOUNT NO. 431-25-98

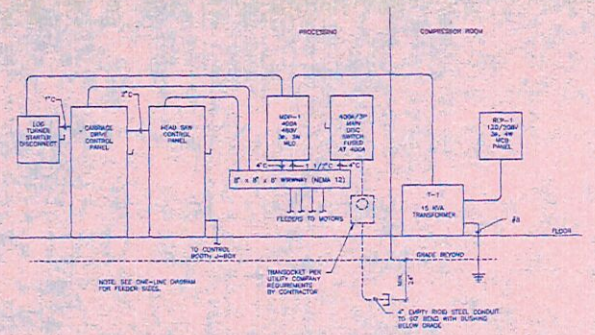
	INITIALS	DATE
DESIGN	KS	6/17/94
DRAWN	KS	6/17/94
CHECKED		/ /
APPROVED		/ /

SAWMILL ELECTRICAL REMOVAL PLAN

PROJ. NO. 94-263 REV. NO. A

CAD DRAWING NO. E1

E1.0



SAWMILL POWER RISER DIAGRAM

NOT TO SCALE

PANELBOARD SCHEDULE
PANEL "RLP-1"

100A, 120/208V, 3Ø, 4W, 30 HOLE, SURFACE MOUNTED, 40A MAIN CIRCUIT BREAKER

DESCRIPTION	CONN. KVA	CCT. BRKR. AMPS/POLES	CCT. NO.	CCT. NO.	CCT. BRKR. AMPS/POLES	CONN. KVA	DESCRIPTION
LTG - PROCESSING	1.28	20/1	1A	2A	20/1	0.54	RECEPT - SAWMILL, NORTH
LTG - SHIPPING	0.52	20/1	3B	4B	20/1	0.36	RECEPT - SAWMILL, S. - W
RECEPT - SHIPPING PLATFORM	0.18	20/1	5C	6C	20/1	0.18	CARRIAGE DRIVE FAN
RECEPT - SAWMILL	0.36	20/1	7A	8A	20/2		MANIFOLD HEATER
ELEC. MAKEUPAIR CONTROL BOOTH	1.20	20/1	9B	10B			MANIFOLD HEATER
			11C	12C	20/1		SPARE
			13A	14A	20/1		SPARE
			15B	16B	20/1		SPARE
			17C	18C			
			19A	20A			

LIGHTING FIXTURE SCHEDULE

TYPE	SURFACE	PENDANT	RECESSED	DESCRIPTION	LAMP NO./TYPE	MANUFACTURER	VOLTS	NOTES
A	X			SURFACE MTD DUST-TIGHT	2-F40T12/CW/RW	GLOW (AC32782/120/HL/2'	120	1
B			X	WALL MOUNTED	1-100W HPS	LUMINIR (PPPS-100-120-TW-PE/WT	120	
C			X	POLE MOUNTED	1-1000W HPS	MUSMM (CSON #TL3201-FAS'-2-HS-FA)	208	2,3

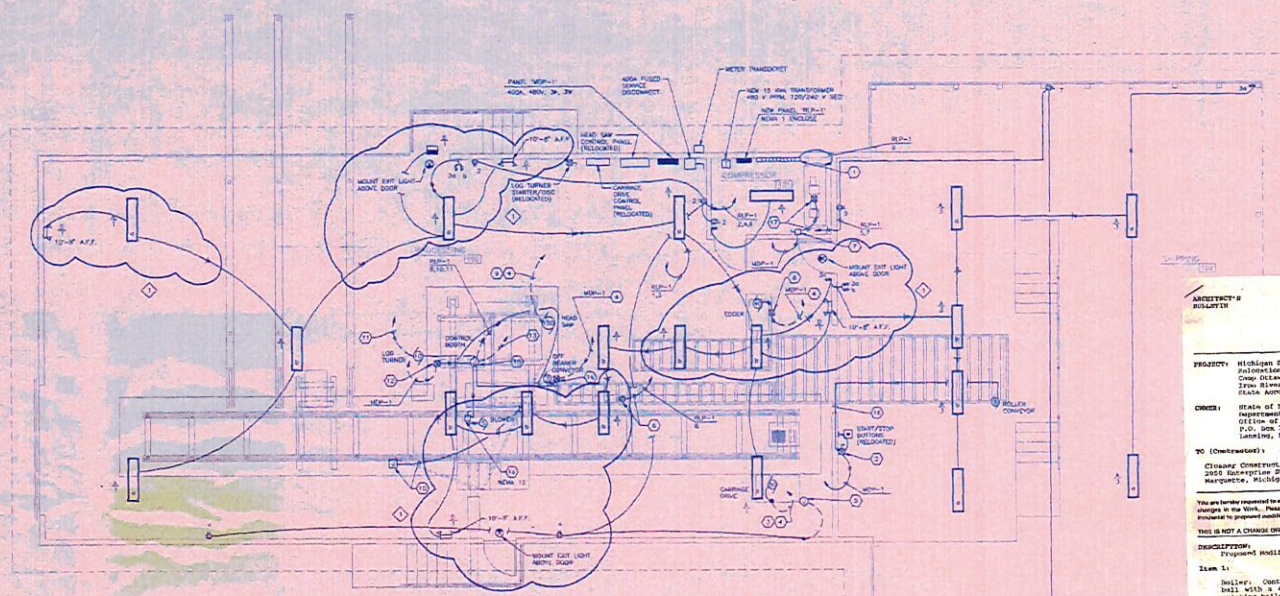
NOTES:
1. MOUNT FIXTURE ON CEILING WITH 1" STANDOFFS.
2. PROVIDE PROPER MOUNTING HARDWARE FOR COMPLETE INSTALLATION.
3. MOUNT FIXTURES ON 30' POLE. UNITED LIGHTING STANDARDS (BRPM30-5).

KEYNOTES

1. VULCAN MODEL NO. 1TRSDP-4-120CC, OR EQUAL, ELECTRIC BASEBOARD HEATER (4 FEET) 500 W/4' FLEXIBLE WARMING, 120 VOLT WITH SINGLE POLE DPDT SWITCH, ADJUSTABLE THERMOSTAT WITH TWO-STAGE OFF AND THERMAL CUT-OUT SWITCH. WALL MOUNT UNIT 2" MINIMUM OFF FLOOR.
2. NEW 30A/3P NON-FUSED COMBINATION MOTOR STARTER/DISCONNECT, NEMA 12, SIZE 0, FOR ROLLER CONVEYOR MOTOR. (BID PACKAGE #1).
3. UNDERGROUND TO CARRIAGE DRIVE CONTROL PANEL.
4. AT MOTOR, STUB RIGID STEEL CONDUIT UP THROUGH FLOOR. (BID PACKAGE #1). THEN PROVIDE LIQUID-TIGHT FLEX CONNECTION TO MOTOR. (BID PACKAGE #2).
5. J-BOX FOR ELECTRICAL CONNECTION TO OIL COOLER FAN. (BID PACKAGE #2).
6. RECEPTACLE IN DUST TIGHT ENCLOSURE ON CEILING (BID PACKAGE #1). PROVIDE OPENING FOR LAZER CORD. SIZE ORIGINAL GROUND CORD. COORDINATE EXAC. LOCATION WITH OWNER. (BID PACKAGE #2).
7. NEW 30A/3P NON-FUSED DISCONNECT (BID PACKAGE #1).
8. PROVIDE NEW NEMA 12 ENCLOSURE FOR RELOCATED STARTER. (BID PACKAGE #2)
9. UNDERGROUND TO HEAD SAW CONTROL PANEL.
10. RECONNECT EXISTING CONTROL CABLES FROM CONTROL BOOTH TO EXISTING JUNCTION BOX ON CARRIAGE. SEE SHEET E1.0, KEYNOTE #1.
11. UNDERGROUND TO LOG TURNER STARTER/DISCONNECT.
12. EXISTING RELOCATED STARTER FOR SAWDUST BLOWER IN DUST-TIGHT ENCLOSURE, MOUNTED ON CONTROL BOOTH.
13. 1" UNDERGROUND CONDUIT TO HEAD SAW CONTROL PANEL. ROUTE APPROX. 10#12 THWN FROM CONTROL BOOTH J-BOX TO CONTROL PANEL. RECONNECT CIRCUITRY TO EXISTING STARTERS IN HEAD SAW, CARRIAGE DRIVE AND LOG TURNER PANELS.
14. NEW 30A/3P COMBINATION NEMA SIZE 0 STARTER/NON-FUSED DISCONNECT SWITCH. NEMA 12. (BID PACKAGE #2).
15. RECONNECT CONTROL WIRING FROM CONTROL BOOTH TO MOTOR STARTER: VIA BOOTH-MOUNTED J-BOX.
16. RUN FEEDER CONDUIT IN WALL AND STUB OUT OF END OF WALL BELOW ROLLER CONVEYOR. (BID PACKAGE #1) EXTEND FEEDER ALONG BOTTOM OF CONVEYOR TO MOTOR AS SHOWN. (BID PACKAGE #2).
17. RELOCATED COMPRESSOR HGA. PROVIDE FLEXIBLE CONNECTION TO DISCONNECT SWITCH. (BID PACKAGE #2).

GENERAL NOTES

1. IN PROCESSING ROOM, ALL CIRCUITRY SHALL BE RUN CONCEALED UNDERGROUND OR ABOVE THE CEILING AND EXPOSED UP OR DOWN WALLS TO DEVICES AND PANELS. DASHED LINES INDICATE UNDERGROUND CIRCUITRY. COORDINATE EXACT LOCATIONS OF UNDERGROUND FEEDER LOCATIONS WITH EQUIPMENT.
2. ALL WIRING METHODS AND EQUIPMENT INSTALLED IN PROCESSING AREA BELOW CEILING SHALL BE SUITABLE FOR CLASS II, DIVISION 1.
3. SEAL ALL UNUSED OPENINGS IN RELOCATED EQUIPMENT.
4. BID PACKAGE #2 INCLUDES ELECTRICAL DEMOLITION AND DISCONNECTION AT CARRIAGE DRIVE, INSTALLATION OF RELOCATED EQUIPMENT, CARRIAGE DRIVE, RECONNECTION AND CORRECTION OF INSTALLATION OF ALL POWER CONDUCTORS TO SAWMILL EQUIPMENT, INSTALLATION OF RELOCATED CONTROL EQUIPMENT AND CONDUCTORS FOR ALL EQUIPMENT.
5. BID PACKAGE #1 INCLUDES ELECTRICAL SERVICE, MAIN DISCONNECT, MAIN AND BRANCH CIRCUIT PANELS, T-1, BUILDING ELECTRICAL SYSTEMS (LIGHTING, HEATING, RECEPTACLES) AND UNDERGROUND EMPTY CONDUIT FOR MOTOR FEEDERS AND CONTROL WIRING.
6. ANY WORK NOT LISTED IN NOTES #4 AND #5 OR NOTED ON PLANS MUST BE COORDINATED TO PROVIDE COMPLETE INSTALLATION.



SAWMILL ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

ARCHITECT'S BULLETIN

Owner [X] John Olsen
Architect [X] JSL
Contractor [X] Cleaner Construction
Field [ ]
Other [X] File 94-263

PROJECT: Michigan State Industries
Relocation of Sawmill Operation
Camp Ottawa
Iron River, Michigan 49935
State Account No. 431-24-89-Index No. 10218

BULLETIN NO: Four (4)

OWNER: State of Michigan
Department of Management and Budget
Office of Facilities
P.O. Box 30026
Lansing, Michigan 48909

DATE: March 15, 1995

ARCHITECT'S PROJECT NO: 94-263

TO (Contractor):
Cleaner Construction and Sales, Inc.
2050 Enterprise Street
Marquette, Michigan 49855

CONTRACT FOR: General Construction

You are hereby requested to execute promptly this Bulletin which interprets the Contract Documents or orders changes in the Work. Please submit no limited quotation for changes in the contract sum and/or time included to proposed modifications to the Contract Documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

DESCRIPTION:
Proposed Modifications:

Item 1:

Boiler: Contractor shall replace existing lead weighted relief ball with a 4 lb. weighted ball. Coordinate installation with existing boiler manufacturer.

Done

Sheets E2.0 & E3.0:
Contractor shall provide and install (5) exit and (8) emergency lights in locations shown on revised drawings E2.0 & E3.0. Circuit emergency lights as shown. Exit light shall be Lumalexit model D-100-R10, self-luminous exit sign, as approved, or equal. Emergency light shall be Sure-Lites model IMM-1-RS-7, sealed lead calcium battery, with wire guard, or equal. Mount at heights indicated on revised drawings E2.0 and E3.0.

ARCHITECT: SUNDBERG, CARLSON AND ASSOCIATES, INC.

BY: Daniel Thomasmann

Page 1 of 1

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.

PROJECT NO. 431-25-89

INITIALS	DATE
DESIGN LRS	6/17/94
DRAWN JJS	6/17/94
CHECKED	/ /
APPROVED	/ /

SAWMILL ELECTRICAL PLAN

PROJ. NO. 94-263 REV. NO. 1

CAD DRAWING NO. 12

E2.0

ABBREVIATIONS

CIVIL

ARCHITECTURAL

MECHANICAL

ELECTRICAL

STRUCTURAL

MECH SYMBOL LEGEND

ELEC SYMBOL LEGEND

GRAPHIC SYMBOLS

BUILDING SECTION/WALL SECTION

DETAIL

INTERIOR ELEVATION

INTERIOR PARTITION

OTHER

STAIR

INDEX OF DRAWINGS

COVER SHEET
I1.0 INDEX/LEGEND
C1.0 SITE PLAN
A1.0 SAWMILL FLOOR PLAN
A2.0 DIMENSION PLANT FLOOR PLAN
A3.0 SAWMILL EXTERIOR ELEVATIONS
A4.0 DIMENSION PLANT EXTERIOR ELEVATIONS
A5.0 NOT USED
A6.0 BUILDING SECTIONS
A7.0 WALL SECTIONS
A7.1 WALL SECTIONS
A8.0 DETAILS (1-12)
A8.1 DETAILS (13-22)
A9.0 EQUIPMENT REMOVAL PLAN – CAMP BARAGA SAWMILL

M1.0 SAWMILL MECHANICAL FLOOR PLAN
M2.0 DIMENSION PLANT MECHANICAL FLOOR PLAN

E1.0 CAMP BARAGA SAWMILL ELECTRICAL REMOVAL PLAN
E2.0 SAWMILL ELECTRICAL PLAN
E3.0 DIMENSION PLANT ELECTRICAL PLAN

PROJECT LOCATION MAP

MICHIGAN'S UPPER PENINSULA

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. IF DIMENSIONS ARE IN DISCREPAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. FIELD MEASURE ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK.
3. FINISHED PLANS MAYBE SALVAGED OR PARTIAL PLANS ARE APPROVED FOR CONSTRUCTION. SPECIFIC DETAILS OF FINISH REQUIREMENTS ARE NOTED ON THE FINISHED PLANS AND DIMETED ON THE SMALLER SCALE OR GENERAL PLANS.
4. CONSULT MECHANICAL DRAWINGS AND FIELD SPECIAL ALL NEEDS TO PROVIDE WORKS AND HEAT.
5. THE ARCHITECTURAL FOR FIRE PROTECTION REQUIREMENTS OF STRUCTURAL PLANS AND MECHANICALS THE U.L. ACCEPTABLE METHOD DESCRIPTION THAT MEET OR DETAILS REFERENCED IN PLANS.
6. FLOOR DIMENSIONS: INTERMEDIATE DIMENSIONS OF DOOR OPENINGS IS REMEASURED BY THE CONTRACTOR. FLOOR DIMENSIONS ARE TO THE FACE OF THE FINISHED WALL. THE FLOOR DIMENSIONS ARE SHOWN TO THE FACE OF THE FINISHED WALL. DOOR OPENINGS IN A WALL THAT HAVE DOOR OPENING IN A WALL THAT HAVE DIFFERENT WIDTHS WILL BE FOLLOWED BY A HORIZONTAL DIMENSION NUMBER.
7. WINDOW DIMENSIONS: INTERMEDIATE DIMENSIONS OF WINDOW OPENINGS IS DIMENSIONED BY LOWER CASE LETTERS. DIMENSIONS REFERENCE ARE SCHEDULED BY THE SAME LETTER.
8. PARTITION DIMENSIONS: IT IS INTENDED THAT THE FACE OF EXISTING CONTRACTOR INSPECTION OF FLOOR WITHOUT DIFFICULTY. THERE IS AN INTERMEDIATE CHANGE IN PARTITION THICKNESS. CHANGES OCCUR AT THE FACE OF THE FINISHED WALL. THE FACE OF THE FINISHED WALL IS THE FACE OF THE FINISHED WALL. THE FACE OF THE FINISHED WALL IS THE FACE OF THE FINISHED WALL. THE FACE OF THE FINISHED WALL IS THE FACE OF THE FINISHED WALL. THE FACE OF THE FINISHED WALL IS THE FACE OF THE FINISHED WALL. THE FACE OF THE FINISHED WALL IS THE FACE OF THE FINISHED WALL. THE FACE OF THE FINISHED WALL IS THE FACE OF THE FINISHED WALL.
9. ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC. LOCATED IN RELATED PARTITIONS SHALL BE INSTALLED WITH LOTTOM BOXES AS REQUIRED TO REPAIR PARTITION DETAIL.
10. ALL PARTITIONS HOUSEHOLD LOAD LEVELS, ALL WALL PENETRATIONS SHALL BE SEALED AND PROTECTED WITH LOAD DIVISIONS TO MAINTAIN INTEGRITY FIRE.
11. INTERIOR DIMENSIONS ARE CENTERLINE TO FACE OF CONTROL BOARD AND TO CENTER LINE OF WOOD UNLESS OTHERWISE NOTED. ALL PUBLIC CORRIDOR DIMENSIONS ARE MADE IN CLEAR DIMENSIONS.
12. EXTERIOR ALL THE WALLS PARTITIONS SLOPE TO DECK ABOVE AND FILL ALL VOID WITH SAFING MATERIAL OR EXTERIOR BLANKET INSULATION (SAFING).
13. WHEN CONTRACTORS OCCUR BETWEEN PLANS AND SPECIFICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
14. SOME GENERAL NOTES ABOVE ARE NOT BE APPLICABLE TO PROJECT NOTES.

CODE SUMMARY

CODES

- BUILDING (STATEWIDE OR TRIBE ADMINISTRATIVE) (MTCA)
- FIRE (NATIONAL FIRE)
- STATE OF MICHIGAN BARRIER FREE HOUSING DESIGN (MBF)
- MICHIGAN DEPARTMENT OF LABOR CONSTRUCTION FIRE CONNECTION (MDOHA, MFAC)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- HVAC/PLUMBING MECHANICAL (CM)
- MECHANICAL/PLUMBING CODE
- HEALTH, EDUCATION & WELFARE (HEW)
- NATIONAL ELECTRICAL SAFETY (NEC)
- NATIONAL ELECTRICAL CODE (NEC)
- AUTHORITY WITH JURISDICTION ACT (AJA)
- CODES APPLICABLE TO PROJECT

CODES FIRE RESISTIVE ANALYSIS

1. DIMENSIONS
   - STORIES: 1
   - OCCUPANCY TYPE: F-1
   - CONSTRUCTION TYPE: 2B
2. CONSTRUCTION PROTECTION
   - INTERIOR NON-BEARING PARTITIONS: 0
   - STRUCTURAL FRAME: 0
   - EXTERIOR NON-BEARING WALLS: 0
   - ROOF: 0

0	ISSUED FOR BIDS	
B	ISSUED FOR PERMIT REVIEW	
A	ISSUED FOR REVIEW	
	ISSUED	BY DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
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MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Architects • Engineers • Land Surveyors • Planners

ACCOUNT NO. 451-25-89

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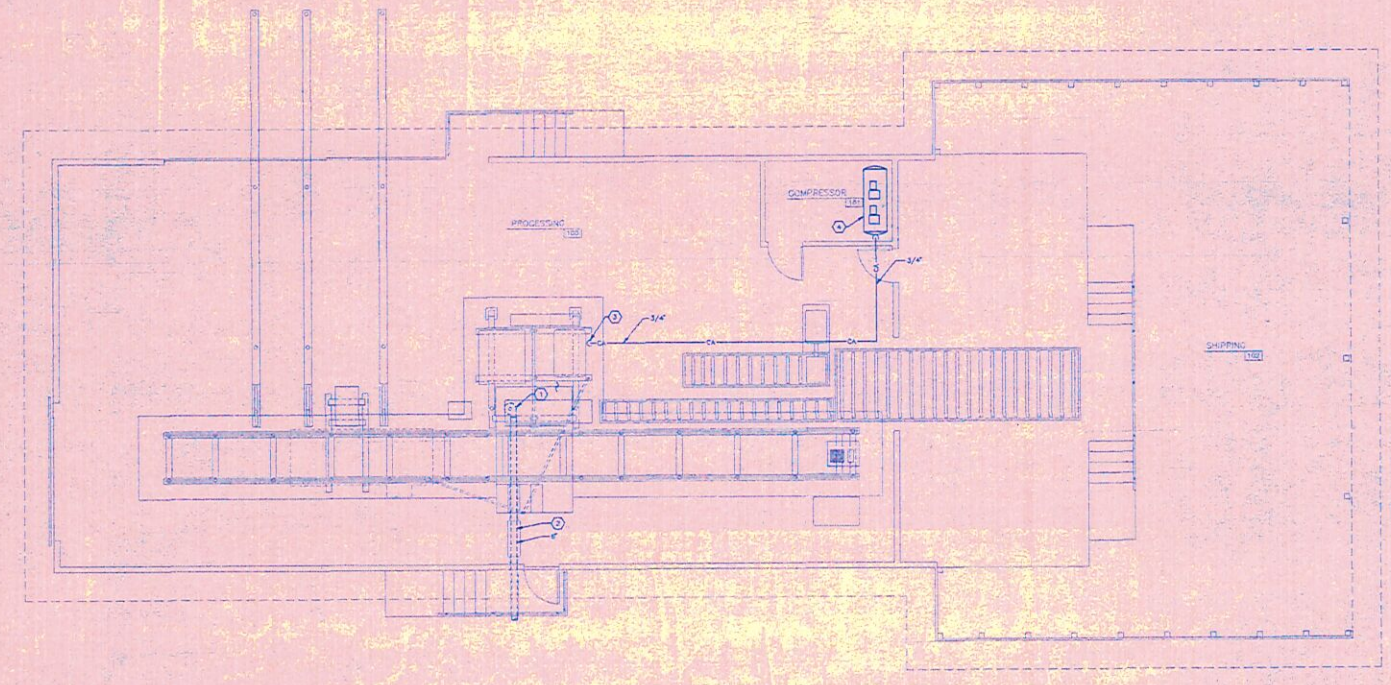
DESIGN	JR	8/17/94
DRAWN	TJP	8/17/94
CHECKED		/ /
APPROVED		/ /

INDEX/LEGEND

PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. DIN

I1.0



SAWMILL MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

N ASSUMED NORTH

KEYNOTES

1. RELOCATE EXISTING SAW DUST BLOWER FROM BARACA TO OTTAWA.
2. ROUTE 8" PVC PIPE WITHIN FLOOR TRENCH TO OUTDOORS.
3. CONNECT NEW 3/4" COMPRESSED AIR LINE TO SAWMILL CONTROL CENTER.
4. HORIZONTAL AIR COMPRESSOR RELOCATED FROM THE BARACA SAWMILL.

GENERAL NOTES

1. HOLD ALL PIPING TIGHT TO BOTTOM OF TRUSSES.

C	ISSUED FOR BIDS	JPS 5/5/94
B	ISSUED FOR SITE REVIEW	JPS 5/3/94
A	ISSUED FOR SITE REVIEW	JPS 4/21/94

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
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STATE OF MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET
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ACCOUNT NO. 431-25-89

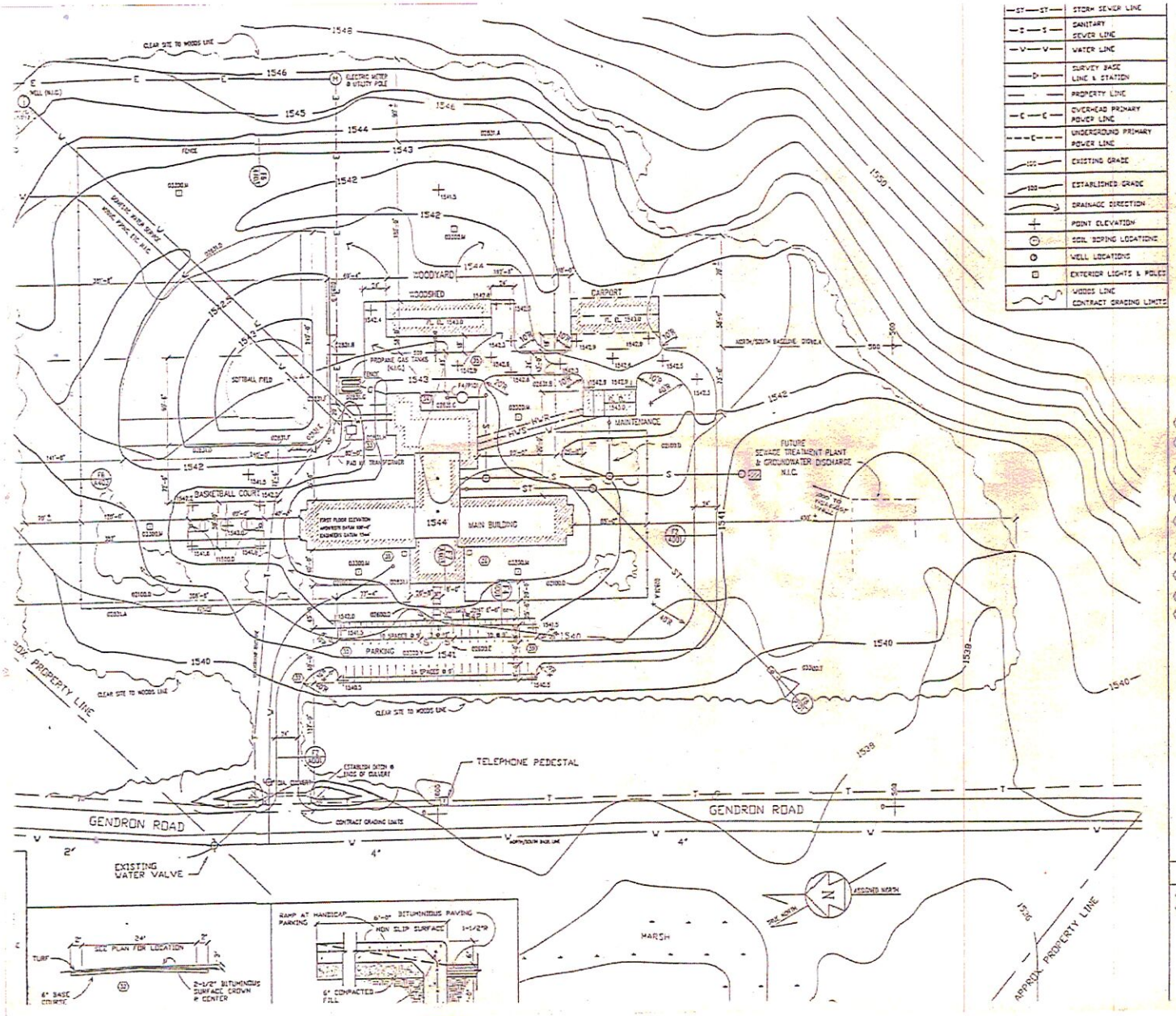
	INITIALS	DATE
DESIGN	JPS	8/15/94
DRAWN	DRS	8/15/94
CHECKED	JPS	10/13/94
APPROVED		/ /

SAWMILL MECHANICAL FLOOR PLAN

PROJ. NO. 94-283 REV. NO. 0

CAD DRAWING NO. CM8TM3

M1.0



—ST—ST—	STORM SEWER LINE
—S—S—	SANITARY SEWER LINE
—W—W—	WATER LINE
—D—	SURVEY BASE LINE & STATION
— —	PROPERTY LINE
—E—E—	OVERHEAD PRIMARY POWER LINE
—E—E—	UNDERGROUND PRIMARY POWER LINE
100	EXISTING GRADE
100	ESTABLISHED GRADE
	DRAINAGE DIRECTION
+	POINT ELEVATION
	SOIL BORING LOCATIONS
	WELL LOCATIONS
	EXTERIOR LIGHTS & POLES
	WOODS LINE CONTRACT GRADING LIMITS

01010.A RE-ESTABLISH BASE LINE TO FACILITATE LAYOUT IF NECESSARY

02100.D GRUBB OF TREES TO REMAIN, VERIFY LOCATION
02120.E CLEAR 30' ELEC R.O.W. VERIFY LENGTH & LOCATION W/UTILITY
02800.E HANDICAPPED PARKING
02800.F SIGN PER D.B.L. STATE OF MICHIGAN
02820.A MINIMUM SECURITY FENCE
02820.B DOUBLE 5'-0" (W-0") SWING GATE
02820.C 5'-0" HIGH FENCE AROUND F.S.E. CONDENSING UNITS
02820.D CHAIN LINK FENCE AROUND SOFTBALL FIELD
02820.E SOFTBALL BACKSTOP
02820.F SINGLE 4'-0" SWING GATE
02820.G FENCE AROUND PROPANE TANKS
02820.H FENCE AROUND TRANSFORMER
02820.J CONCERTINA WIRE AT ROOF LINE
03300.M LIGHT POLE BASE, SEE SHEET E-1.101 FOR SIZE & LOCATION
03300.T 3'-0"X12'-0"X8" SPLASH BLOCK
03300.V HANDICAPPED SIDEWALK RAMP PER D.B.L. STATE OF MICHIGAN

GENERAL NOTES

(22) PARKING SPACE - PAINT LINES, 4" WIDE, YELLOW ON PAVEMENT. STANDARD SPACE 9'X18', HANDICAPPED SPACE 12'X18'

(7) GRADING - IF THE ESTABLISHED GRADES DO NOT BALANCE, CUT & FILL A BERMED OR DISPERSAL AREA FOR GRADING DIRT WILL BE PROVIDED WITHIN SIDE OF GRADING LIMITS.

(12) BITUMINOUS PAVING W/BASE COURSE OF GRAVEL EXTENDING 2'-0" BEYOND EDGE OF PAVING. TOPSOIL & SEEDING TO EXTEND TO EDGE OF PAVING

(13) PROVIDE CONCRETE TRANSFORMER PAD AS REQUIRED BY UTILITY COMPANY.

(14) PROVIDE A 12'-0"X 8'-0"X 8" THICK CONCRETE PAD REINFORCED W/2 LAYERS W6X6/10 W.W.F. FOR FOOD SERVICE EQUIPMENT (F.S.E.) CONDENSING UNITS. CAST IN 4"-0"X2 1/2" DIA. SLEEVES AT CORNERS.

(15) PROVIDE POSITIVE SLOPE ON ALL BITUMINOUS SURFACES FOR DRAINAGE.

(16) 4'-0"X4'-0"X8" CONCRETE PAD W/EAS 10/10 WWF FOR CONDENSING UNIT

(17) PROVIDE A 12'-0"X 12'-0"X 5" THICK CONCRETE PAD REINFORCED W/W6X6/10 W.W.F.

(23) COMPLY W/SOIL EROSION & SEDIMENTATION CONTROL ACT WITHIN CONTRACT GRADING LIMITS OR OTHER AREAS OF THE SITE DISTURBED DURING CONSTRUCTION

REVISIONS:

4/15/96 TWO WELL LOCATIONS
REPEAT OF REVISION #1 & #2

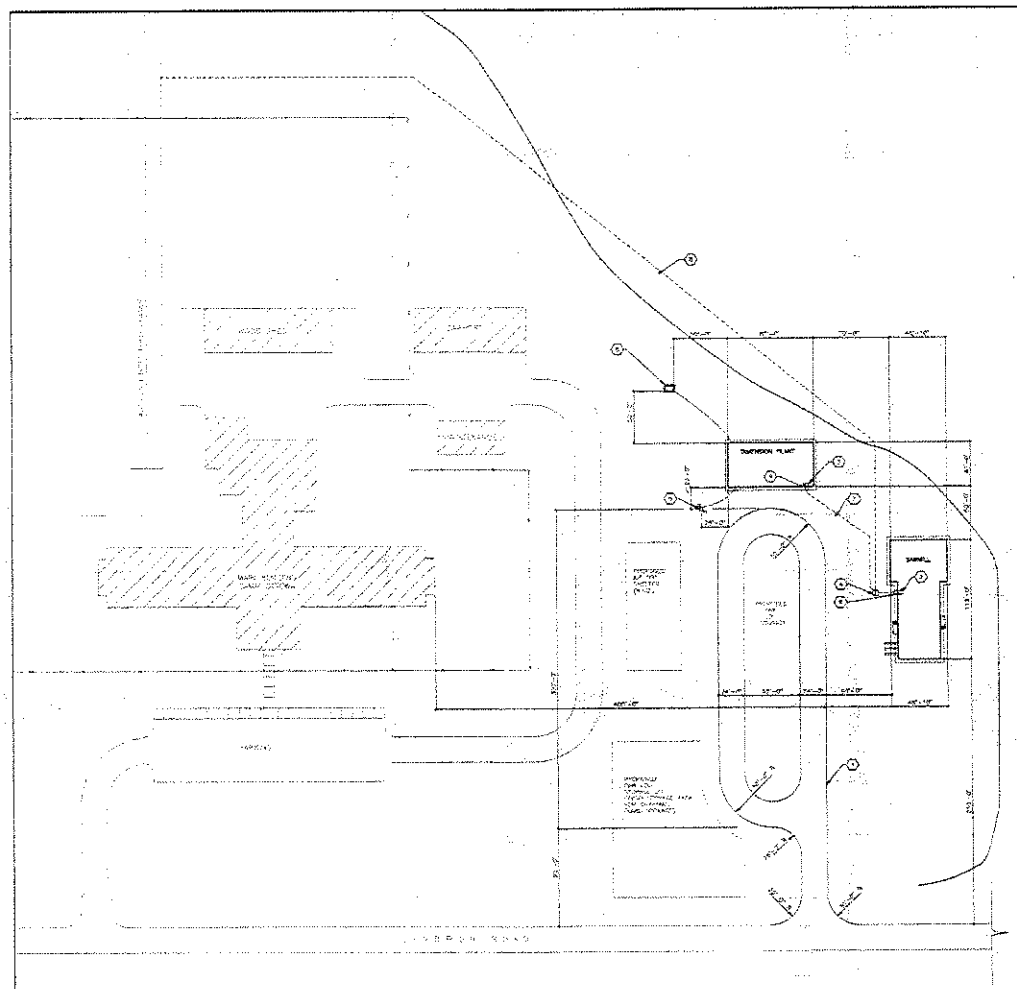
STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

BLOMQUIST, NELSON & ASSOCIATES
ARCHITECTS
200 S. STAMBAUGH AVE., IRON MOUNTAIN, MICHIGAN 49801 906-774-3300 FAX

project: A LOW SECURITY CORRECTIONAL FACILITY
for: MICHIGAN DEPARTMENT OF CORRECTIONS
location: IRON COUNTY, MICHIGAN

DESIGNED:	MN	DATE	ISSUED FOR
DRAWN:	JB	7/14/95	PRELIMINARY ☐
CHECKED:	JB		CONSTRUCTION ☒
APPROVED:	JB		FINAL RECORD ☐

IDENTIFICATION NO.
PROJECT 54102
STATE ACCOUNT 110-47-5199-047



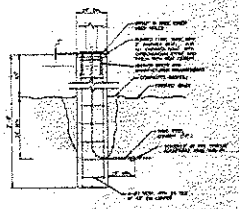
SITE PLAN

KEYNOTES

1. SERVICE ROAD — BY OWNER.
2. SANWILL ELECTRICAL SERVICE MAIN DISCONNECT — SEE SHEET C2.0.
3. DISINFECTING PLANT ELECTRICAL SERVICE MAIN DISCONNECT — SEE SHEET E1.0.
4. NEW 300 KVA TRANSFORMER BY UTILITY COMPANY.
5. NEW SITE LIGHTING POLE, SEE FOUNDATION DETAIL ON THIS SHEET.
6. OUTDOOR WOOD FIRED BOILER, METER TO MECH. AND ELEC. DWGS.
7. UNDERGROUND ELECTRICAL SERVICE SECONDARY, BY BIDDING OWNER, SHEET DUPT. BY UTILITY COMPANY.
8. UNDERGROUND ELECTRICAL SERVICE PRIMARY, BY UTILITY COMPANY.
9. TRENCHING, INSTALL BY UTILITY COMPANY, PROVIDED BY ELECTRICAL CONTRACTOR.
10. UNDERGROUND MECHANICAL AND ELECTRICAL, SEE KEYNOTE #9.

GENERAL NOTES

1. ALL EXISTING, EXCLUDING EXCAVATION, REQUIRED FOR CONSTRUCTION OF THE BUILDING AND MECHANICAL AND ELECTRICAL UNDERGROUND SHALL BE BY THE STATE OF MICHIGAN.
2. CONTRACTOR SHALL REPAIR ANY DISTURBED BY CONSTRUCTION RESTORED SIDEWALK SHALL MATCH EXISTING.
3. BUILDING ELEVATIONS FOR FINISH FLOOR (FFE) OF ON BUILDING SECTIONS SHALL BE DETERMINED BY THE STATE OF MICHIGAN.



LIGHTING POLE FOUNDATION DETAIL

SITE PLAN ASSUMED NORTH
SCALE: 1" = 40'
TRUE NORTH

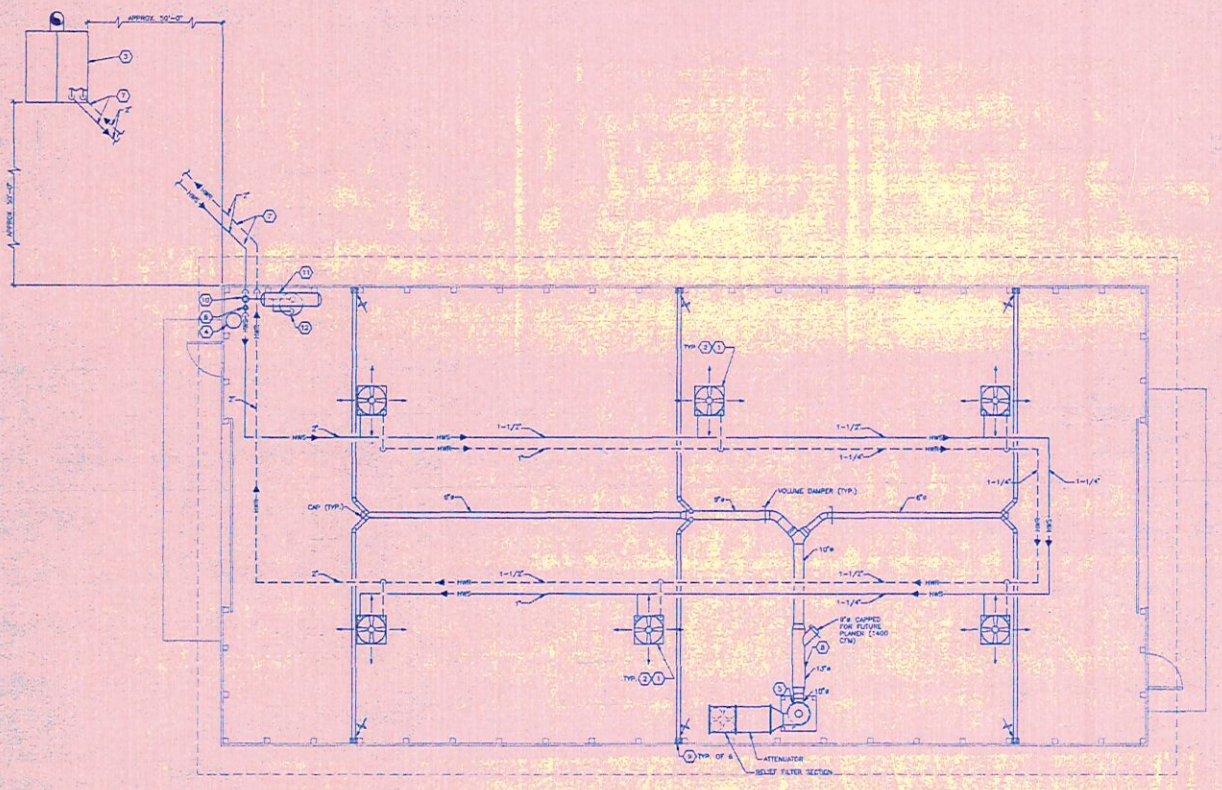
RELOCATION OF SANWILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

Office of Facilities

SITE PLAN

PROJ. NO. 84-263 REV. NO. 2

C1.0

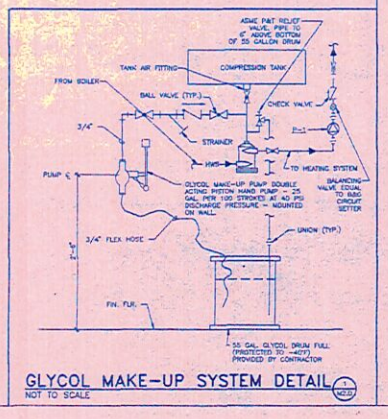


DIMENSIONING PLANT MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

N

ASSUMED NORTH



GLYCOL MAKE-UP SYSTEM DETAIL

NOT TO SCALE

KEYNOTES

1. PROVIDE VERTICAL UNIT HEATERS EQUAL TO STERLING MODEL VE77L, 39,500 BTUH OUTPUT, 22°F WTD, 1/20 HP, 1670 CFM (TYPICAL OF 6). PROVIDE RADIAL LOUVER DIFFUSER SET @ 45° (ADJUSTABLE), 35 FEET DIA. SPREAD @12'-0" MOUNTING HEIGHT.
2. MOUNT UNIT HEATERS AT BOTTOM OF CEILING (TYPICAL).
3. OUTDOOR WOOD-FIRED BOILER EQUAL TO "HEATWOR" MODEL 400CSS 400 MBH OUTPUT, STAINLESS STEEL FIRE BOX AND JACKET. PROVIDE 4" CONCRETE PAD FOR BOILER.
4. VERTICAL AIR COMPRESSOR RELOCATED FROM THE BARAGA DIMENSION PLANT.
5. PROVIDE SAWDUST COLLECTION SYSTEM EQUAL TO "TORNIT" CYCLONE MODEL 24FB05, 7-1/2 HP, 208V/3ø MOTOR, 2100 CFM @ 11" W.G. S.P., 3500 FPM. PROVIDE 55 GALLON DRUM AND 7"ø X 12' LONG FLEXIBLE TUBE. PROVIDE FILTER ASSEMBLY FOR RELIEF BACK TO AREA BEING SERVED. PROVIDE OPTIONAL ATTENUATOR AND SUPPORTS. ROTATE INLET 90° FROM POSITION AS INSALLED IN FACTORY TO DIRECTION INDICATED. SEE GENERAL NOTE 2.
6. PROVIDE INLINE PUMP EQUAL TO "B&G" SERIES 60, 2"ø, 3/4 HP, 208V/1ø, 1750 RPM, 42.3% EFF., 26.3 GPM @ 42.9 FT. HD.
7. ROUTE PIPING 6'-0" BELOW FINISH GRADE TO OUTDOOR BOILER. SEE SHT. C1.0 FOR LOCATION IN RELATION TO SITE.
8. ROUTE MAIN DUCTS TIGHT TO CEILING. COORDINATE DROP LOCATIONS WITH EQUIPMENT LOCATIONS.
9. PROVIDE 4" DUCT DROPS WITH BLAST GATES & LOCK BOLTS TO BALANCE EACH DROP TO 350 CFM. COORDINATE LOCATIONS WITH USER.
10. PROVIDE AIR SEPERATOR EQUAL TO "B&G" MODEL A-2, ASME CODE WITH STRAINER.
11. PROVIDE COMPRESSION TANK EQUAL TO "B&G" MODEL 30, 30 GALLON WITH "B&G" AIRFLOL TANK AIR FITTING MODEL AFF-12.
12. PROVIDE 55 GALLON DRUM OF GLYCOL SOLUTION MIXED AT 50%, PROTECTED TO -40°F. AFTER FILLING ENTIRE HEATING SYSTEM WITH SAME MIXTURE. FULL DRUM TO REMAIN AT SITE.

GENERAL NOTES

1. HEATING WATER SHALL BE PROTECTED FROM FREEZE WITH A GLYCOL SOLUTION. CONTRACTOR SHALL PROVIDE SUFFICIENT GLYCOL TO PROTECT TO -40°F.
2. DUST COLLECTOR IS DESIGNED TO HANDLE THREE CHOP SAWS, THREE TABLE SAWS (RIP SAWS) AND A FUTURE PLANER. CONTRACTOR SHALL COORDINATE LOCATIONS WITH OWNER. CONTRACTOR SHALL PROVIDE ADDITIONAL SHEARES TO BALANCE DUST COLLECTOR TO 3500 CFM FOR FUTURE PLANER INSTALLATION OF PLANER. INSTALLATION OF FUTURE SHEARES NOT IN THIS CONTRACT.
3. ALL FUTURE DUCTWORK SHALL BE SIZED FOR 3500 FPM.

3	ISSUED FOR BIDS	JCK 11/15/94
2	ISSUED FOR SHOP REVIEW	JCK 11/15/94
1	ISSUED FOR SHOP REVIEW	JCK 10/14/94
A	ISSUED FOR REVIEW	JCK DATE

RELOCATION OF SAWMILL OPERATION, CAMP OTTAWA
MICHIGAN DEPARTMENT OF CORRECTIONS
MICHIGAN STATE INDUSTRIES
IRON RIVER, MICHIGAN

STATE OF MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

Sundberg, Carlson and Associates, Inc.
Architects • Engineers • Planners

ACCOUNT NO. 131-25-89

	INITIALS	DATE
DESIGN	JCK	6/15/94
DRAWN	DKL	6/6/94
CHECKED	JCK	10/15/94
APPROVED		/ /

DIMENSION PLANT MECHANICAL PLAN

PROJ. NO. 94-263 REV. NO. 0

CAD DRAWING NO. 7263CHOP

M2.0