NOTES:
1. DETERMINE IF WATER SUPPLY IS PURE AND SUFFICIENT.
2. CHECK WITH ELECTRIC UTILITY ABOUT EASEMENTS & SERVICE.
3. CHECK WITH LOCAL GOVERNMENTS ABOUT ZONING & BUILDING
   RESTRICTIONS OR REQUIRED PERMITS.
4. SUBMIT PLANS TO YOUR MILK INSPECTOR FOR APPROVAL AND
   MAKE ARRANGEMENTS TO SHIP MILK.
5. CHECK DIMENSIONS OF MANUFACTURED EQUIPMENT TO BE
   INSTALLED BEFORE STARTING CONSTRUCTION.
6. ALL LUMBER IN CONTACT WITH MANURE OR SOIL SHOULD BE
   PRESSURE PRESERVATIVE TREATED (PPT).
7. MILKLINE MUST BE SUPPORTED AT A UNIFORM SLOPE FOR DRAINAGE.
8. MILKROOM MUST BE HIGH ENOUGH FOR BULK TANK CALIBRATION
   AND MILK MEASUREMENT (WITH DIP STICK).
9. FLUORESCENT LIGHTS SHOULD BE MOISTURE RESISTANT, INDUSTRIAL
   GRADE FIXTURES.
10. APPROVED BY NORTHEAST DAIRY PRACTICES COUNCIL MAR. 1986.

OPTIONS AND CROSS SECTION

<table>
<thead>
<tr>
<th>ANIMAL SIZE</th>
<th>TIE STALLS</th>
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<tr>
<td></td>
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<tr>
<td>COW Girth</td>
<td>WEIGHT</td>
</tr>
<tr>
<td>SMALL</td>
<td>71&quot;</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>76&quot;</td>
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<tr>
<td>LARGE</td>
<td>86&quot;</td>
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</table>

PERSPECTIVE

GRAVITY FLOW GUTTERS, CROSS CHANNEL 2" DIA PIPE
TO STORAGE OR LOADING

GUTTER CLEANER & RAM PUMP TO STORAGE
OR LOADING

ALTERNATE MANURE HANDLING OPTIONS

SYSTEM LAYOUT W/ALTERNATES

10' 20' 30' 40'

COOPERATIVE EXTENSION SERVICE
AGRICULTURE AND HOME ECONOMICS

UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

SINGLE STORY SLOPING
TIE STALL DAIRY BARN

NY'86 6378 SHEET 1 OF 4
NOTE: CHECK SIZE OF BULK TANK AND CLEARANCE REQUIREMENTS
* N.Y. REQUIRES 36" ABOVE TANK

DORMER OVER ENTRANCE

HEADER 3'-2"X6'
6" DBL. SLIDING PATIO DOORS WITH SELF-CLOSING EXTERIOR DOORS
SLOPE 1/30
8"X48" CONC. FOUNDATION
8"X16" CONC. FOOTING BELOW FROST

BULK TANK

2'-0" CHECK DAMPER
4'-0" REINFORCED CONC. FLOOR
1/2" FON. PLYWOOD +
1/2" T&G. PLANKING 2'-0" ABOVE PEN FLOOR
4X6X18" POST, 4" C.C.
16" DIA. X 8" THK. CONC. FOOTING & COLLAR

14'-0"  38'-0"

SECTION A-A

7 1/4"X 24"X 3 3/4" PLYWOOD SPLICE
12"X 20"X 3 3/8" PLYWOOD
12"X 12"X 3 3/8" PLYWOOD SPLICE
2 X 8 X 16' + 6' TOP CHORD
4"X12"X 3/8" PLYWOOD
6'-0"  6'-0"  6'-0"  6'-0"
2X4X1'-10"
2X6 BOTTOM CHORD 16'+6'+16' LENGTHS.
12"X 12"X 3/8" PLYWOOD SPLICE
5 1/2"X 24"X 3" PLYWOOD SPLICE
6'-8"  12"  12"  12" CAMBER 6"-8"
5'-0"  9'-6"
4'-0"  4'-0"  4'-0"

TRUSS DETAIL - SPACED 4'-0"

2X10X16' L 4" C.C.
2X 4 KNEE BRACE
2X 6 JOIST

SEE TRUSS DETAIL BELOW

CHECK HEIGHT OF TRACTOR FENDERS & MANURE SPREADER
4X6 POST, 4" C.C.
1/2" T & G. PLANKING 2'-0" ABOVE PEN FLOOR
4X 6 RIBBED METAL
3/4" FON PLYWOOD, 4'-HIGH
2X6 + 2X 10 PFT FOOTER ON GRAVEL FILL

NOTES:
1. MANUFACTURED TRUSS MAY REPLACE TRUSS BUILT ON SITE.
2. TRUSS DESIGN ADAPTED FROM MWP5-9 PG. 44-45.
3. DESIGN ROOF LOADS & LUMBER STRESSES:
   FOR 37 PSF USE 1000 LUMBER
   FOR 29 PSF USE 1400 LUMBER
   FOR 21 PSF USE 1600 LUMBER
   FOR HEAVIER ROOF LOADS, DECREASE THE SPACING OF TRUSSES PROPORTIONALLY, EG. 42 PSF/21 PSF X 2,
   USE 2" C.C. SPACING.
4. SELECT CLEAN SMOOTH LUMBER NOT CUPPED OR TWISTED.
5. GLUE-NAIL EXTERIOR GRADE STRUCTURAL C-C PLYWOOD,
   GUSSETS ON BOTH SIDES OF JOINTS & SPLICES.
6. USE RESORCINOL RESIN GLUE FOLLOWING MFG'S DIRECTIONS.
7. SPACE ROWS OF 66 NAILS 2'-0" APART ACROSS GRAN 4'-0" APART WITH NAIL, NAIL AT LEAST 3/-4" FROM EDGE.
8. LAP CHORD SPLICES AT LEAST 12" ON EACH MEMBER.
9. ASSEMBLE TRUSS IN JIG, APPLY GUSSETS ON ONE SIDE,
   INVENT & APPLY GUSSETS ON OTHER SIDE, STORE TRUSS FLAT TO CURE AT LEAST 24 HOURS.