RAWLINS OUTDOOR SHOOTING COMPLEX
CITY OF RAWLINS, WYOMING
MASTER PLAN AND SCHEMATIC DESIGN

PREPARED THROUGH
PMPC
118 E. BRIDGE AVENUE
SARATOGA, WY 82331
pmpc@pmpc-eng.com

PREPARED FOR
CITY OF RAWLINS
521 W. CEDAR STREET
RAWLINS, WY 82301

PREPARED BY
C. VARGAS & ASSOCIATES, LTD.
CONSULTING ENGINEERS
5121 BOOGIE ROAD, SUITE 103
JACKSONVILLE, FLORIDA 32207
Engineers@CVA.com
MARCH 2006
EROSION AND SEDIMENT
CONTROL GENERAL NOTES:

1. The Contractor is responsible for removing all silt by using any practicable on-site and
  off-site methods to minimize erosion and sediment control devices after
  completion of construction and only when areas have been stabilized.

2. Additional protection - In addition to the above, must be provided that will not permit silt
  to leave the project complex due to excavation operations or accidents.

3. Contractor notes shall be taken of all drainage structures, pipes, etc. and checked out and
  working properly at time of acceptance.

4. Bulk shall be placed well down the embankment or slope, with the bottom oriented toward
  the sides rather than over the slope.

5. The filter blanket shall be installed and covered with a layer of topsoil or soil. The blanket shall
  be extended to a minimum depth of 3 inches.

6. Any excavations shall be backfilled and compacted against the fill toe.

7. Each area shall be securely fenced and covered by at least two layers or retreat areas through the
   slope.

8. Local drain should be removed between ditches to prevent water from entering between pipes.

9. Steel plates barriers shall be inspected immediately after each rainfall and at least once daily during prolonged rainfall.

10. Close attention shall be paid to the repair of damaged areas, any holes and undermining beneath bases.

11. Necessary repairs to barrows or replacement of ditches shall be accomplished promptly.

12. Any sediment remains shall be placed after ditches are backfilled or placed in the existing gravel trench and treated.

13. Silt fences shall be removed immediately after each rainfall and at least once daily during prolonged
   rainfall. Any required silt fences shall be maintained.

14. Where the fencing or silt fencing on pipe barrier is damaged or removed prior to the end of the expected stable
   time, the barrier shall be discontinued, the pipes shall be replaced promptly.

15. Sediment basins shall be removed after each storm. When the basins are removed, they must be
   cleaned and shall be closed in the same manner than before.

16. Any sediment remains shall be placed after the gravel or filter barrier is removed. Required sediment shall be
   closed under the existing gravel trench and treated.

17. The structure shall be inspected after each rain and visage made an inspection.

18. Sediment basins shall be equipped and the trap installed to prevent the sediment from entering the
    drainage area to the extent the design permits and to allow removal of sediment from the basin.

19. Sediment basins shall be closed under the existing gravel trench and treated.

20. Sediment basins shall be closed under the existing gravel trench and treated.

21. Sediment basins shall be closed under the existing gravel trench and treated.

22. Silt fences shall be removed and any silt collected in the dam shall be disposed of in a manner which
    prevents erosion and transport of silt fission in the drainage area.

23. Silt fences shall be removed and any silt collected in the dam shall be disposed of in a manner which
    prevents erosion and transport of silt fission in the drainage area.

24. Silt fences shall be removed and any silt collected in the dam shall be disposed of in a manner which
    prevents erosion and transport of silt fission in the drainage area.

25. The plan indicates the required erosion and sediment control devices for the project. The contractor is responsible for
    ensuring that all applicable rules, regulations, and water quality guidelines and any other applicable local, state, or
    federal regulations are observed.

26. The contractor shall be required to respond to all county or state agencies relative to compliance with erosion and
    sediment control. The cost of any compliance shall be part of the contract.

Typical Silt Barrier Ditch Layout

Note: The above is not to scale. This drawing is not to scale or 1/25 scale.
NOTES

1. ALL TIMBER POSTS, EXCEPT CORNER AND Pull Posts ARE TO BE MINIMUM 4 INCH DIAMETER. TIMBER CORNER AND Pull POSTS ARE TO BE MINIMUM 5 INCH DIAMETER. BRACES ARE TO BE 4 INCH MINIMUM DIAMETER. LENGTHS OF TIMBER POSTS TO BE AS INDICATED.

A. STAPLES FOR LINE POSTS TO BE 1 3/4 MINIMUM LENGTH FOR APPROXIMATELY 24 INCH SPACING BETWEEN CORNER AND Pull POSTS 1 3/8 MINIMUM LENGTH AT APPROXIMATELY 24 INCH SPACING. STAPLE EVERY LINE WIRE AT LINE POSTS. STAPLE EVERY LINE WIRE IN TOP HALF AND ALTERNATE LINE WIRE IN BOTTOM HALF.

B. ADEQUATE CONNECTIONS BETWEEN TIMBER POSTS AND BRACES TO BE PROVIDED.

C. WIRE TO BE WRAPPED AROUND END POSTS AND CORNER POSTS (INSTALLED AS LINE POSTS) AT VERTICAL BREAKS OF 15 OR MORE.

2. 5' GATE TO BE TWO (2) 12', 50' S-PANEL GALVANIZED GATE

3. 10' GATE TO BE 20' S-PANEL GALVANIZED
SPACE 7.2 MOVING TARGET RANGE PLAN

SPACE 7.3 BULLS EYE TARGET RANGE PLAN

NOTES:
1. TARGET CARRIER MECHANISM SHALL BE DEEP ENOUGH TO PROVIDE A SAFE LOCATION FOR THE TRUCK.
2. BORING POINT SHALL BE COVERED WITH DIRT OR A CONCRETE BASE.
DOUBLE STORAGE ROOM PLAN
SCALE: 3/4" = 1'-0"

SINGLE STORAGE ROOM PLAN
SCALE: 3/4" = 1'-0"

NOTES:
1. CONTRACTOR TO CONSTRUCT STORAGE ROOM WITH 2 X 4 WOOD FRAME.
2. DOORS TO BE 3/4" EXTERIOR 1-1/2" GRADE DOORS.
3. TRIM TO BE BROWN AT FJRE.
4. DOOR TO BE SOLID WOOD 6'-8" X 2'-0" WOOD FRAME.

STORAGE ROOM ELEVATION
SCALE: 3/4" = 1'-0"
1. REFERENCE POINT IS THE INTERSECTION OF BASELINE 'X' AND THE EQ.
   OF THE RANGE AND TRAP HOUSE.
2. BASELINE 'X' IS LOCATED 2'-6" BACK FROM THE FRONT EDGE OF
   THE TRAP HOUSE.
3. PURSUANT TO A.T.A. RULES, TOP OF THE TRAP HOUSE SHALL NOT
   BE LESS THAN 2'-2" BUT MORE THAN 2'-10" ABOVE ELEVATION
   OF NO. 3 SHOOTING STATION.
1. LUMBER SHALL BE 6 IN GRADE. THE LUMBER SHALL BE\nHOE CUT. HERRINGBONE TO A MINIMUM OF 3:12. LUMBER\nSHALL BE TREATED TO WD-1 END OF ELM WITH THE GRADE\nSHALL BE REFLECTED TO 80 FT. END OF ELM.

2. THE ELEVATED WOODEN WALKWAY SHALL MEET ALL THE\nREQUIREMENTS FOR HANDICAP ACCESS.

3. DRAWINGS ARE GENERIC TO NATURAL AND ACTUAL DIMENSIONS\nAND SHOOTING PLATFORMS. USE MUST BE MADEvette\nFOR THE LOCATION OF WHICH IT IS TO BE CONSTRUCTED AND\nFOR THE SPECIFIC SITE TOPOGRAPHY.

4. CONTRACTOR SHALL MAINTAIN THE SITE IN ITS NATURAL STATE\nas much as possible.

5. ARCHERY RANGE SHOOTING LINES ARE AS LOCATED IN THE FIELD\nBY THE OWNER.

6. PROVIDE FIELD FENCE STAKED TO BACK SIDE OF BOARDWALK\nAND PLATFORM.

NOTE: IF THIS DRAWING IS PRINTED AT 0.25", THIS DRAWING IS NOT TO SCALE OR 1/2 SCALE.
AT GRADE ARCHERY RANGE PLAN
SCALE 1/8"=1'

FIELD FENCE DETAIL
SCALE 3/32"=1'
NOTES:
1. CONTRACTOR TO CONSTRUCT STORAGE ROOM WITH 2X4 WOOD FRAME.
2. SIDING TO BE 3/4" EXTERIOR T-1-11 GROOVED.
3. TRIM TO BE WOOD #1 PINE.
4. DOOR TO BE SOLID WOOD 6'-8" X 2'-6" X 1 3/4" WITH WOOD FRAME.
TRAP FIELD LIGHTING

FIELD CONTROL BOX

UNDERGROUND CONDUIT
1/4" R.V.C.

(2) 2000 WATT METAL-HALIDE LAMPS (No. 6 NEMA SEAM)

100 AMP ELECTRIC SUPPLY (MOUNTED ON LIGHT POLE)

LIGHT POLE (20'-6" HIGH)

SCALE: NOT TO SCALE
SKEET FIELD LIGHTING
SCALE: NOT TO SCALE
NOTES:

1. INSTALL UNDERGROUND WIRING IN 1-1/4 INCH PVC PIPE.
2. INSTALL 4 #12 WIRE 60' ELECTRICAL SUPPLY FROM WP RECEPTACLE TO LOW AND HIGH HOUSES.
3. USE WATER PROOF JUNCTION BOX, SET AT 3' ABOVE GROUND.
4. INSTALL 4 #12 WIRE 60' ELECTRICAL SUPPLY FROM PANEL TO RECEPTACLE.
5. INSTALL PVC PIPE A MINIMUM OF 18 INCHES BELOW GRADE OR ACCORDING TO LOCAL CODE.
6. USE 500 WATT METAL HALIDE LAMPS.
7. INSTALL 30° 6" SQUARE PARAFLEX MIXED POLES.
8. HOUSE WIRING TO BE ACCORDING TO CODE.
9. MOUNT LIGHTING FIXTURES ON TENON TYPE BRACKETS; 2 TENONS AT 180 DEGREES.

DETAIL "A" – WIRING DIAGRAM

SKEET FIELD WIRING DIAGRAM
SCALE: NOT TO SCALE

NOTE: IF DRAWING IS PRINTED 1/8"=1', THIS DRAWING IS NOT TO SCALE OR 1/8 SCALE.
NOTES:
1. ALL WIRING TO BE 2 X 2.5 WIRE INSTALLED IN P.V.C.
2. P.V.C. TO BE BURIED A MINIMUM OF 1'-0".
3. POWER SUPPLY LOCATED ON LIGHT POLE SHALL BE 1/3 AMP MINIMUM.
4. INSTALL 100 WATT LIGHT FIXTURES IN ALL HOUSES WITH TOUDGE SWITCHES.
5. ALL LIGHT FIXTURES TO BE WALL MOUNTED.
6. LOCATE CONTROL BOX FOR COMBINATION FIELD BEHIND THE WALL AT STATION #0.
7. APPEXIMATELY 300 FEET OF WIRE IS REQUIRED.

COMBINATION SKEET AND TRAP FIELD POWER SUPPLY
SCALE: 1/2 IN. = 1'-0"
**Legend**

1. Metal halide spotligher type D1000 beam 5/1000 watt lamps.  
   Note: For police ranges use incandescent lighting fixtures.

2. Recessed uplight fixtures 5/500 watt quartz lamps.

**Plan**

50 Yard Range Lighting Plan

Scale: Not to Scale