Moon Township
Olson Park Conceptual Plan

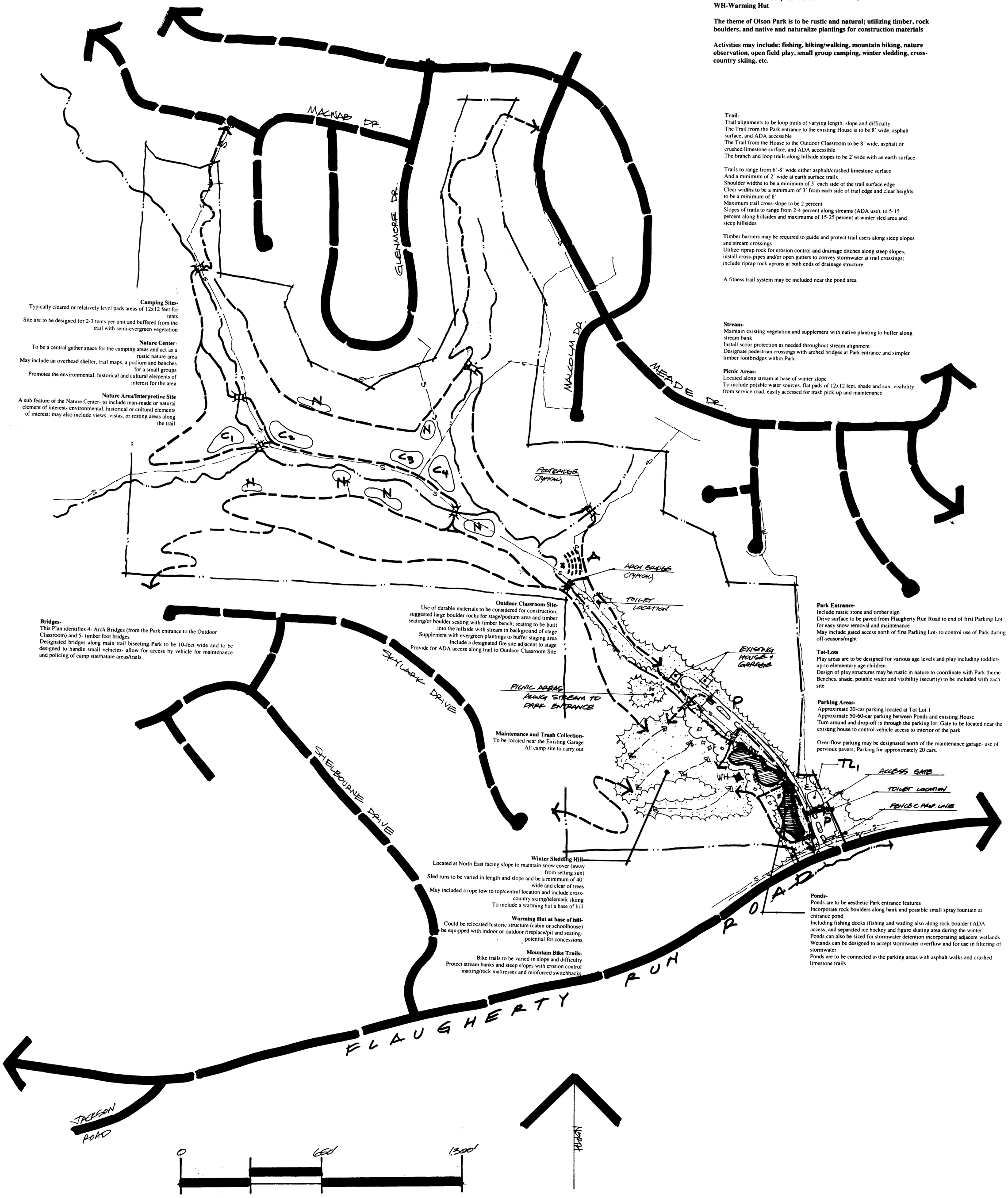
Mackin Engineering Company
Project No.#4397-001
October 1, 2004

Existing Features:
S- Sanitary Line
W-Water Service
Property Line

Proposed Features:
P- Parking
TL- Tot Lot Play Area
A- Outdoor Classroom Site
C- Primitive Camping Site
N- Nature Site or Interpretive Site
WH-Warming Hut

The theme of Olson Park is to be rustic and natural; utilizing timber, rock boulders, and native and naturalize plantings for construction materials

Activities may include: fishing, hiking/walking, mountain biking, nature observation, open field play, small group camping, winter sledding, cross-country skiing, etc.



Trail-
Trail alignments to be loop trails of varying length, slope and difficulty
The Trail from the Park entrance to the existing House is to be 8' wide, asphalt surface, and ADA accessible
The Trail from the House to the Outdoor Classroom to be 8' wide, asphalt or crushed limestone surface, and ADA accessible
The branch and loop trails along hillside slopes to be 2' wide with an earth surface

Trails to range from 6'-8' wide either asphalt/crushed limestone surface
And a minimum of 2' wide at earth surface trails
Shoulder widths to be a minimum of 3' each side of the trail surface edge
Clear widths to be a minimum of 3' from each side of trail edge and clear heights to be a minimum of 8'
Maximum trail cross-slope to be 2 percent
Slopes of trails to range from 2-4 percent along streams (ADA use), to 5-15 percent along hillsides and maximums of 15-25 percent at winter sled area and steep hillsides

Timber barriers may be required to guide and protect trail users along steep slopes and stream crossings
Utilize riprap rock for erosion control and drainage ditches along steep slopes; install cross-pipes and/or open gutters to convey stormwater at trail crossings; include riprap rock aprons at both ends of drainage structure

A fitness trail system may be included near the pond area

Stream-
Maintain existing vegetation and supplement with native planting to buffer along stream bank
Install scour protection as needed throughout stream alignment
Designate pedestrian crossings with arched bridges at Park entrance and simpler timber footbridges within Park

Picnic Areas-
Located along stream at base of winter slope
To include potable water sources, flat pads of 12x12 feet, shade and sun, visibility from service road, easily accessed for trash pick-up and maintenance

Camping Sites-
Typically cleared or relatively level pads areas of 12x12 feet for tents
Site are to be designed for 2-3 tents per unit and buffered from the trail with semi-evergreen vegetation

Nature Center-
To be a central gather space for the camping areas and act as a rustic nature area
May include an overhead shelter, trail maps, a podium and benches for a small groups
Promotes the environmental, historical and cultural elements of interest for the area

Nature Area/Interpretive Site
A sub feature of the Nature Center- to include man-made or natural element of interest- environmental, historical or cultural elements of interest; may also include views, vistas, or resting areas along the trail

Bridges-
This Plan identifies 4- Arch Bridges (from the Park entrance to the Outdoor Classroom) and 5- timber foot bridges
Designated bridges along main trail bisecting Park to be 10-feet wide and to be designed to handle small vehicles- allow for access by vehicle for maintenance and policing of camp site/nature areas/trails

Outdoor Classroom Site-
Use of durable materials to be considered for construction; suggested large boulder rocks for stage/podium area and timber seating/or boulder seating with timber bench; seating to be built into the hillside with stream in background of stage
Supplement with evergreen plantings to buffer staging area
Include a designated fire site adjacent to stage
Provide for ADA access along trail to Outdoor Classroom Site

Maintenance and Trash Collection-
To be located near the Existing Garage
All camp site to carry out

Winter Sledding Hill
Located at North East facing slope to maintain snow cover (away from setting sun)
Sled runs to be varied in length and slope and be a minimum of 40' wide and clear of trees
May included a rope tow to top/central location and include cross-country skiing/telemark skiing
To include a warming hut a base of hill

Warming Hut at base of hill-
Could be relocated historic structure (cabin or schoolhouse) be equipped with indoor or outdoor fireplace/pit and seating-potential for concessions

Mountain Bike Trails-
Bike trails to be varied in slope and difficulty
Protect stream banks and steep slopes with erosion control matting/rock mattresses and reinforced switchbacks

Park Entrance-
Include rustic stone and timber sign
Drive surface to be paved from Flaugherty Run Road to end of first Parking Lot for easy snow removal and maintenance
May include gated access north of first Parking Lot- to control use of Park during off-seasons/night

Tot-Lots
Play areas are to be designed for various age levels and play including toddlers up-to elementary age children
Design of play structures may be rustic in nature to coordinate with Park theme
Benches, shade, potable water and visibility (security) to be included with each site

Parking Areas-
Approximate 20-car parking located at Tot Lot 1
Approximate 50-60-car parking between Ponds and existing House
Turn around and drop-off is through the parking lot; Gate to be located near the existing house to control vehicle access to interior of the park

Over-flow parking may be designated north of the maintenance garage- use of pervious pavers; Parking for approximately 20 cars.

Ponds-
Ponds are to be aesthetic Park entrance features
Incorporate rock boulders along bank and possible small spray fountain at entrance pond
Including fishing docks (fishing and wading also along rock boulder) ADA access, and separated ice hockey and figure skating area during the winter
Ponds can also be sized for stormwater detention incorporating adjacent wetlands
Wetands can be designed to accept stormwater overflow and for use in filtering of stormwater
Ponds are to be connected to the parking areas with asphalt walks and crushed limestone trails