Appendices for District Alignment Proposal for Class A Boys and Girls Golf November 2011

Submitted to the NSAA District Meetings

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with the signed support of all 32 of 32 Class A boys golf coaches and all 32 of 32 girls golf coaches

Statement of Purpose: Pilot Proposal for Class A Boys and Girls Golf Districts

Currently, golf districts are based on school classification numbers; unfortunately, this does not accurately predict a school's strength in golf. As a result, the four golf districts in Class A tend to be poorly balanced. Each year several good teams and individuals tend to be in one "loaded" district while other districts tend to be weaker. The consequence is that each year a few teams with outstanding season records are omitted from the field of the Nebraska School Activities Association (NSAA) Championship. Additionally, some excellent individuals who shoot good scores in districts are squeezed out of State, even though their score would have easily placed them in the top ten scores in other districts. The proposal below rectifies that unacceptable situation. By comparing team scores in 18-hole tournaments to the course rating (multiplied by four), this proposal allows for teams to be rated from the strongest to the weakest. The teams are then assigned by the serpentine method into the four districts. This pilot proposal, which would be implemented in the spring of 2012, provides all schools and individual golfers a fair, equitable chance to qualify for the NSAA Golf Championship.

Appendix I: Detailed View of Steps in the Pilot Proposal for Spring 2012

1.The district sites in the spring of 2012 would be awarded in the same manner as they are currently: teams would apply to host at a particular site. Next, the NSAA would then select the four host teams before the boys and girls seasons begin.
Note: Schools would not be allowed to host a district in consecutive years unless asked by the NSAA due to a lack of teams applying to host.

2. Each tournament director of ANY 18-HOLE Class A VARSITY tournament would be responsible for reporting scores and the course rating to the NSAA office. The report would list all of the golfers' scores and the final team scores. The team scores will be the total of the low four players. In addition, the tournament directors would report the course ratings based on the tees used in the tournaments. (See Appendix II.) For any varsity meet a team plays in that is not in Nebraska or not a Class A tournament, the participating coach or athletic director would be responsible for submitting scores and course ratings to the NSAA website.
Note: Some teams that play junior varsity (JV) teams in varsity events will likely lower their placement as far as district ranking if those teams are listed as varsity teams. To avoid this problem, coaches should list their teams as JV teams when entering a varsity tournament. More JV tournaments may need to be created in areas where JV teams are sometimes entered in varsity tournaments.

3. For boys' and girls' golf teams, the final competition that would affect district placement and require reporting would occur three Fridays before the district tournament. In order to be seeded, teams have to play a minimum number of 18-hole stroke play competitions, 3 for girls and 4 for boys. *(Note: The girls season is one week shorter than the boys season.)* Teams not reaching the competition minimum will be placed at the end of the seeding list in the order of their AVERAGE DIFFERENTIALS. (See Appendix III for more detail.) The NSAA would then calculate the final rankings of the Class A teams, employing the Formula for Computing District Team Rankings.

4. Based on their Average Differentials, all teams would be assigned to districts using the serpentine method.
(Note: It is likely some host schools will not fall into their own districts using the serpentine method. This will require the adjustments described in number 5 below.)

Serpentine Method Example

District 1	District 2	District 3	District 4
1	2	3	4
8	7	6	5
9	10	11	12
16	15	14	13
17	18	19	20
24	23	22	21
25	26	27	28
32	31	30	29

5. At this point, the NSAA golf director will resolve any conflicts so that hosts are located in their own districts by making simple, one-team trade of teams with the closest AVERAGE DIFFERENTIALS.

6. This proposal will be piloted in Class A boys districts in the spring of 2012 and evaluated.

APPENDIX II: *Example of Report Submitted by Tournament Director to NSAA*

The report submitted electronically to the NSAA office will closely resemble the tournament results currently e-mailed by tournament directors to the coaches of teams that compete in their tournaments. The only information added would be (1) the golf course, (2) the Course Rating of the golf course from the tee box used in the competition, and (3) the Tournament Rating, which is the Course Rating multiplied by four.

Tournament Title:	Lady Titan Invitational
Date:	September 1, 2011
Course:	Eagle Hills Golf Course
Course Rating:	67.8
Tournament Rating:	271.2 (course rating x 4)

Tournament Results:

Team	Team Score	Tournament Rating	Differential
Omaha Westside	353	271.2	81.8
PL South	362	271.2	90.8
Brownell-Talbot	368	271.2	96.8
Omaha Burke	402	271.2	130.8
Bellevue East	405	271.2	133.8
Millard South	410	271.2	138.8
Papillion-La Vista	440	271.2	168.8
Bellevue West	476	271.2	204.8

Individual Results will be included since they are part of the report normally sent out to all competing team.

Appendix III: *Formula for Computing District Team Rankings*

Step 1: Multiply the course rating by 4 (the number of players' scores counted in the tournament). This total would be called the TOURNAMENT RATING for the team.

Step 2: The TOURNAMENT RATING is subtracted from each team's final score (low 4 players) to determine the DIFFERENTIAL.

Example of computation of DIFFERENTIAL from one tournament:

Team A Score	=	315	(total of low 4 scores for Team A)
Tournament Rating	=	292	(Benson course rating of 73.0 x 4)
		+23	DIFFERENTIAL

Below illustrates a season's information for one team—Papillion-La Vista South Girls:

Example: Team A Season Report and Team Differential

Course	Team Score	Tournament Rating	Differential
Wilderness Ridge	385	301.6	83.4
Eagle Hills GC	362	271.2	90.8
Holmes GC	365	288.4	76.6
Stone Creek GC	359	262	97
Mahoney GC	381	282	99
		Differential Total	446.8

Step 3: The team's Differential Total 446.8 would be divided by 5 to determine an AVERAGE DIFFERENTIAL of 89.36.

Step 4: The AVERAGE DIFFERENTIALS for all 32 teams in Class A would be listed lowest to highest. For the purpose of visualizing the proposal, the hypothetical AVERAGE DIFFERENTIALS have been set at 1 to 32.

Hypothetical Seeding Scenario

We used the 2011 Boys Golf District Results as a hypothetical "Average Differential" as if it were the season average. So assume the totals used below are season totals for each team.

Omaha Benson and Omaha South did not field teams at 2011 districts, so they were placed at the end of the serpentine based on another meet during the season, in which Benson defeated South.

**In the case of an identical Average Differential," such as is seen several times below, a tie breaker could be the most recent head-to-head competition between the two schools. The winner of the tie breaker would be seeded higher.

Creighton Prep	1.4
Millard North	11
Grand Island	15
Papillion-La Vista South	17.4
Lincoln Southeast	21
Lincoln Pius X	26*
Lincoln Southwest	26*
Bellevue West	33
Norfolk	34
Fremont	35
Millard West	36
Omaha Burke	38
Omaha Westside	39
South Sioux City	39.4
North Platte	41
Lincoln East	44.4
Lincoln North Star	46*
Papillion-La Vista	46*
Kearney	48
Hastings	50
Columbus	52
Bellevue East	65
Lincoln High	73*
Lincoln Northeast	73*
Omaha Central	74.4
Millard South	80
Ralston	84
Omaha North	119
Omaha Northwest	182.4
Omaha Bryan	197.4
Omaha Benson	DNP*
Omaha South	DNP*

Step 5: Using the serpentine method, the districts would be determined by using the AVERAGE DIFFERENTIAL. (Note: The four district hosts would be set before the season begins. In this hypothetical example, Grand Island, Lincoln Southeast, Bellevue East, and Ralston were selected as district hosts.)

District 1—Host—Grand Island

Creighton Prep	1.4
Bellevue West	33
Norfolk	34
Lincoln East	44.4
Lincoln North Star	46
Lincoln Northeast	73
Omaha Central	74.4
Omaha South	197.4
Total Av. Differentials	503.6/8=63

District 2—Host—Lincoln Southeast

Millard North	11
Lincoln Southwest	26
Fremont	35
North Platte	41
Papillion-La Vista	46
Lincoln High	73
Millard South	80
Omaha Benson	197.4
Total Av. Differentials	509.4/8=63.7

District 3—Host—Bellevue East

Grand Island	15
Lincoln Pius X	26
Millard West	36
South Sioux City	39.4
Kearney	48
Bellevue East	65
Ralston	84
Omaha Bryan	197.4
Total Av. Differentials	510.8/8=63.9

District 4—Host—Ralston

Papillion-La Vista South	17.4
Lincoln Southeast	21
Omaha Burke	38
Omaha Westside	39
Hastings	50
Columbus	52
Omaha North	119
Omaha Northwest	182.
Total Av. Differentials	518.8/8=64.9

Step 6: At this point, the NSAA golf director will resolve any conflicts so that hosts are located in their own districts. Three of the four districts hosts (Grand Island, Lincoln Southeast, and Ralston) must be moved to the correct districts.

In order to locate host teams in their own districts, the NSAA Golf Director would make the **simplest, one-team trades** between districts so that teams with **closest average differentials** would be moved.

For example, Grand Island, the District 1 Host, has been seeded in District 4. A simple, one-team trade is Grand Island switching places with Creighton Prep. Lincoln Southeast, the District 2 host, would trade spots with Lincoln Southwest of District 4, to get into the right district.

The average differentials will likely have a wide range. It is possible that the third-ranked team in one district might have an average differential closer to a second-ranked or fourth ranked team in another district.

For example, Ralston, the District 4 Host, has been seeded in District 3 so a trade needs to occur with a District 4 team to move Ralston to the correct district. Ralston is the seventh-seeded team in District 2. However, the average differential of Columbus, the sixth-seeded team is the closest average differential so Ralston would trade places with Columbus.

An example of the resolution of the host-site conflict is located in Appendix IV.

Appendix IV: *Example of Conflict Resolution and Equity Rating*

Notes:

1) Host schools included in serpentine assignment to districts, then adjusted if conflicts arise.
2) 1=Lowest Average Differential 32=Highest Average Differential
3) Changes (trades) are signified by school abbreviations with new average differentials in parentheses.

District 1—Host—Grand Island

Creighton Prep	(GI—15)	1.4
Bellevue West		33
Norfolk		34
Lincoln East		44.4
Lincoln North Star		46
Lincoln Northeast		73
Omaha Central		74.4
Omaha South		197.4
Adj. Total Av. Differential		516.6/8=64.8

District 2—Host—Lincoln Southeast

Millard North		11
Lincoln Southwest	(LSE—21)	26
Fremont		35
North Platte		41
Papillion-La Vista		46
Lincoln High		73
Millard South		80
Omaha Benson		197.4
Adj. Total Av. Differential		504.4/8=63.1

District 3—Host—Bellevue East

Grand Island	(Prep—1.4)	15
Lincoln Pius X		26
Millard West		36
South Sioux City		39.4
Kearney		48
Bellevue East		65
Ralston	(Col. 52)	84
Omaha Bryan		197.4
Adj. Total Av. Differential		492.4/8=61.6

District 4—Host—Ralston

Papillion-La Vista South		17.4
Lincoln Southeast	(LSW—26)	21
Omaha Burke		38
Omaha Westside		39
Hastings		50
Columbus	Ral—84)	52
Omaha North		119
Omaha Northwest		182.4
Adj. Total Av. Differential		555.8=69.8

Conflicts, Resolutions, and Rationales:

1. Conflict: Ralston needs to be moved from District 3 to District 4 to host a district.
   Resolution: Trade Ralston with Columbus.
   Rationale: A one-team trade, although Ralston traded with Columbus rather than Omaha North because of their closer average differentials.

2. Conflict: Grand Island needs to be moved from District 3 to District 1 to host a district.
   Resolution: Trade Grand Island with Omaha Creighton Prep.
   Rationale:. A simple, one-team trade.

3. Conflict: Lincoln Southeast needs to be moved from District 4 to District 2.
   Resolution: Trade Lincoln Southeast with Lincoln Southwest.
   Rationale: A simple, one-team trade. .

Conclusions:

1. The range of total adjusted total average differentials is small—eight strokes at most. While making all districts perfect equal is impossible, this is a great improvement over previous district alignments. By balancing out the districts based on actual season performance, the top teams have an equal chance of making the state tournament if they play well at the district. **NOTICE THE DIFFERENCE BELOW!**

   Hypothetical Districts: 8 strokes difference between highest and lowest total average differentials.
   Girls 2011 Districts: 34 strokes difference between highest and lowest total average differentials.
   Boys 2009 Districts: 52 strokes difference between highest and lowest total average differentials.

2. Because of the greater equality between districts, all individuals should have equal opportunity to succeed. There will no longer be "stacked" districts.