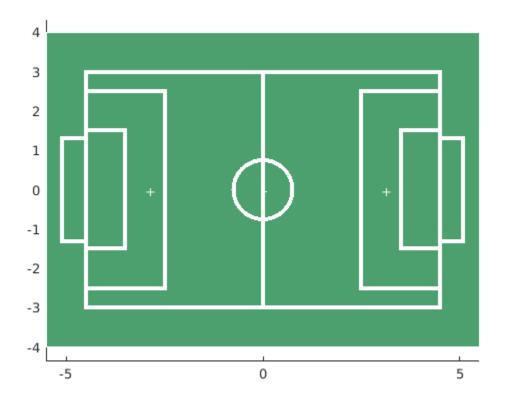
```
figure('Name','TDP_Team_11','NumberTitle','off');
main = axes;
hold on
% In this convention, 1 => left , and 2 => right
% We define the measurements of the fields. All measurements are in
% metres.
outer length = 11.0;
outer_width = 8.0;
field_length = 9.0;
field width = 6.0;
goal_width = 3;
goal length = 1;
goal_post_width = 2.6;
goal_post_length = 0.6;
penalty length = 2;
penalty_width = 5;
center_circle_radius = 0.75;
% Create the field boundaries
outer bound = rectangle('Position',[-outer length/2 -outer width/2
 outer_length outer_width], EdgeColor="w",Parent=main);
field = rectangle('Position',[-field_length/2 -field_width/2 field_length
 field_width],'EdgeColor',"w",Linewidth=3,Parent=main);
% % Create the goals
qoal 1 = rectangle('Position',[-field length/2 -goal width/2 goal length
 goal_width], 'EdgeColor', "w", LineWidth=3, Parent=main);
goal_2 = rectangle('Position',[field_length/2-goal_length -goal_width/2
goal_length goal_width], 'EdgeColor', "w", LineWidth=3, Parent=main);
% % Create the penalty areas
penalty_1 = rectangle('Position',[-field_length/2+penalty_length/2-
goal_length -penalty_width/2 penalty_length penalty_width],EdgeColor="w",
LineWidth=3,Parent=main);
penalty_2 = rectangle('Position',[field_length/2-
penalty_length/2-goal_length -penalty_width/2 penalty_length
penalty_width], 'EdgeColor', "w", LineWidth=3, Parent=main);
half_line = line([0 0],[0 3],Linewidth=3);
half_line1 = line([0 0],[0 -3],Linewidth=3);
% Create the center circle and goal posts
goal post 1 = rectangle('Position',[-field length/2-
goal_post_length -goal_width/2+0.2 goal_post_length
goal_post_width], EdgeColor="w", LineWidth=3, Parent=main);
goal_post_2 = rectangle('Position',[field_length/2 -goal_width/2+0.2
 goal_post_length goal_post_width], EdgeColor="w", LineWidth=3, Parent=main);
center_circle = rectangle('Position',[-center_circle_radius
 -center circle radius 2*center circle radius
 2*center_circle_radius], 'Curvature',
[1,1],LineWidth=3,EdgeColor="w",Parent=main);
```

```
% Set the field color
outer_bound.FaceColor = [0.3  0.642 0.447];
half_line1.Color = "w";
half_line.Color = "w";
% field.FaceColor = 'green';
centre_point = text(0,0,"-",Color="w",Parent=main);
penalty_point_1 = text(-3,-0.05,"+",Color="w",Parent=main);
penalty_point_2 = text(3,-0.05,"+",Color="w",Parent=main);
% To prevent the image from stretching, we equalize the axis.
axis equal;
```



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