# Safety and Drainage Assessment Billy Ryan High School Track and Field







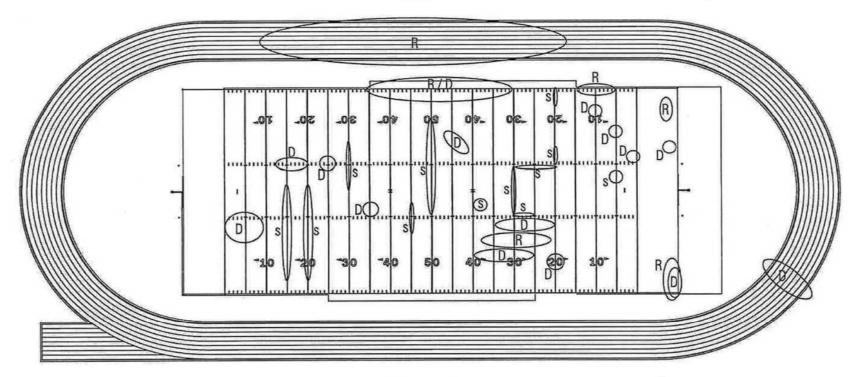
# Safety and Drainage Assessment Billy Ryan High School Assessment Progress

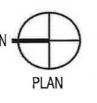
- District recently notified of safety concerns
- Walked site with Joey Florence to get firsthand understanding of conditions and concerns
- Site Assessment involved multiple representatives
  - Maintenance and Operations Staff
  - Civil & Geotechnical Consultants
  - Contractor
  - Track and Turf Vendor



#### Safety and Drainage Assessment Billy Ryan High School Current Conditions and Concerns

HILL SIDE

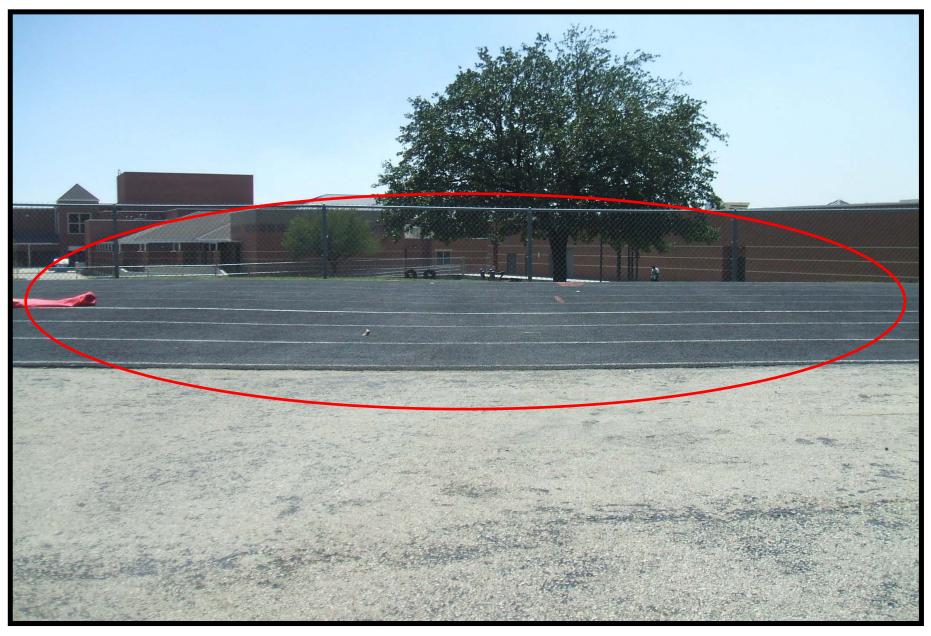




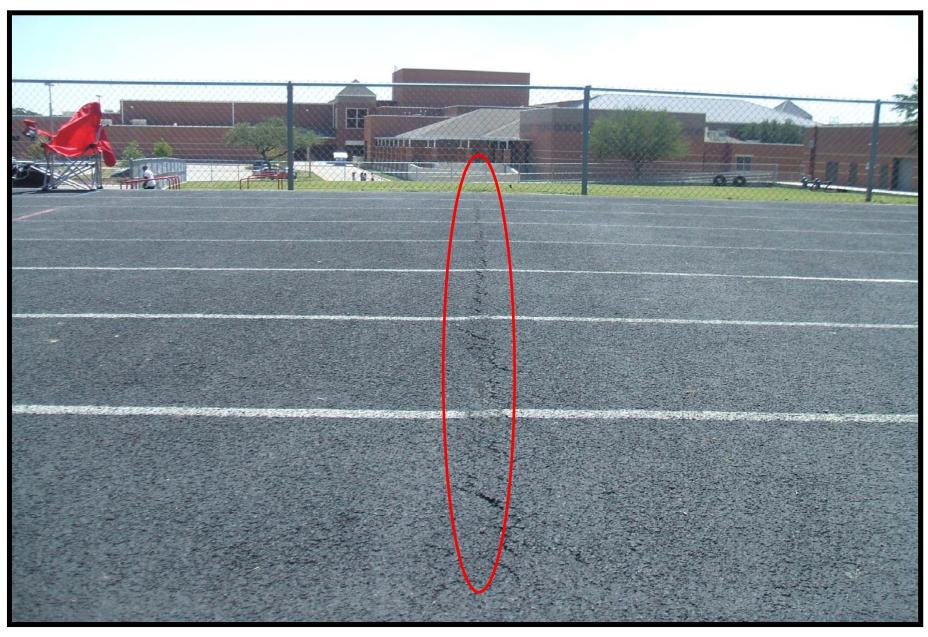
#### BLEACHER SIDE

R : RISE IN THE SURFACE OF THE TURF OR TRACK IN THIS AREA D : DEPRESSION IN THE SURFACE OF THE TURF OR TRACK IN THIS AREA S : SEAMS IN THE TURF ARE LOOSE OR APART IN THIS AREA B/D : ROLLING CONDITIONS IN THIS AREA WITH RISE AND DEPRESSIONS

TRUE



Recess resulting in uneven surface



Movement in base resulting in surface pushing upward



Uneven surface on track and field



East side of track and field has experienced movement



Weep holes in retaining wall drain across track



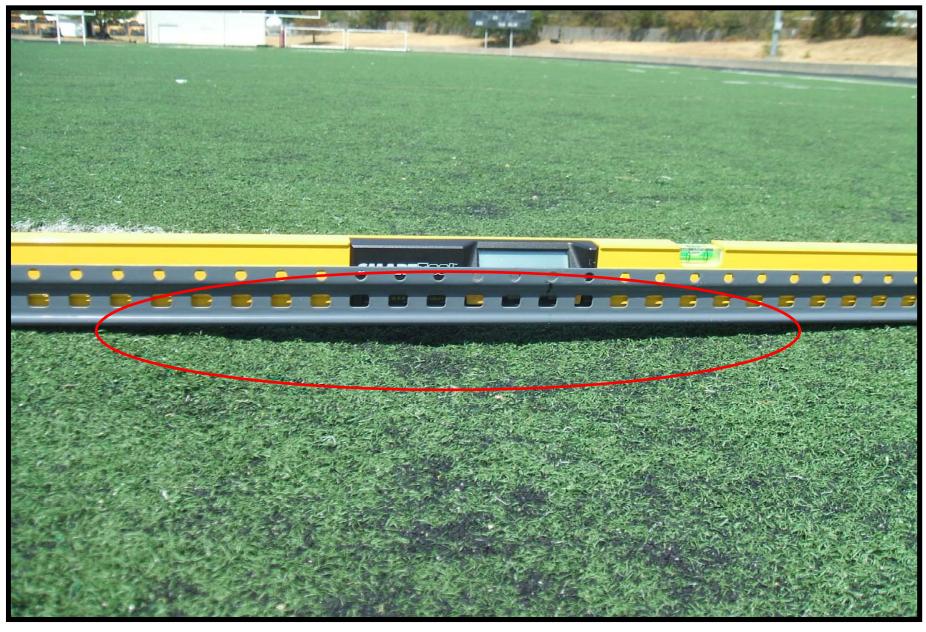
Subgrade has developed pockets. Cannot be seen due to turf spanning the depression.



Movement in subgrade



Movement in subgrade



Movement in subgrade



Subgrade movement resulting in uneven playing surface



Uneven playing surface



Uneven playing surface



Seam lines



Seam line

# Safety and Drainage Assessment Billy Ryan High School Opinion of Causes

- Drainage conditions introduced by adjacent hill and surrounding topography
- Inadequate surface and subsurface drainage systems
- Expansive clays
- Inadequate soil stabilization

#### Safety and Drainage Assessment Billy Ryan High School Recommended Corrective Measures

- Intercept subsurface groundwater before it reaches the retaining wall, track, and field, utilizing a subsurface french drain system
- Complete cross section removal of the existing track and field
- Proper stabilization of subgrade based on geotechnical analysis
- Create, safe, resilient and cost-effective surface option

# Safety and Drainage Assessment Billy Ryan High School Opinion of Probable Cost

•	Construction Subtotal:	\$1,409,500
•	Ryan High School French Drain at Retaining Wall:	\$30,000
•	Ryan High School Retaining Wall Rework:	\$79,750
•	Ryan High School Football Field and Track:	\$1,299,750

Total Project Cost: \$1,647,060

# Safety and Drainage Assessment Billy Ryan High School Facility Use Impact

- Campus has deferred 97 athletic competition events to C.H. Collins Athletic Complex
  - High school football programs, middle school football programs and boys /girls soccer programs
- Additional cost to transport sub-varisty football, boys soccer and girls soccer programs to C.H. Collins
- Additional cost of \$4,000 \$5,000 per season for concession personnel
- Loss of concession revenue at Ryan High School