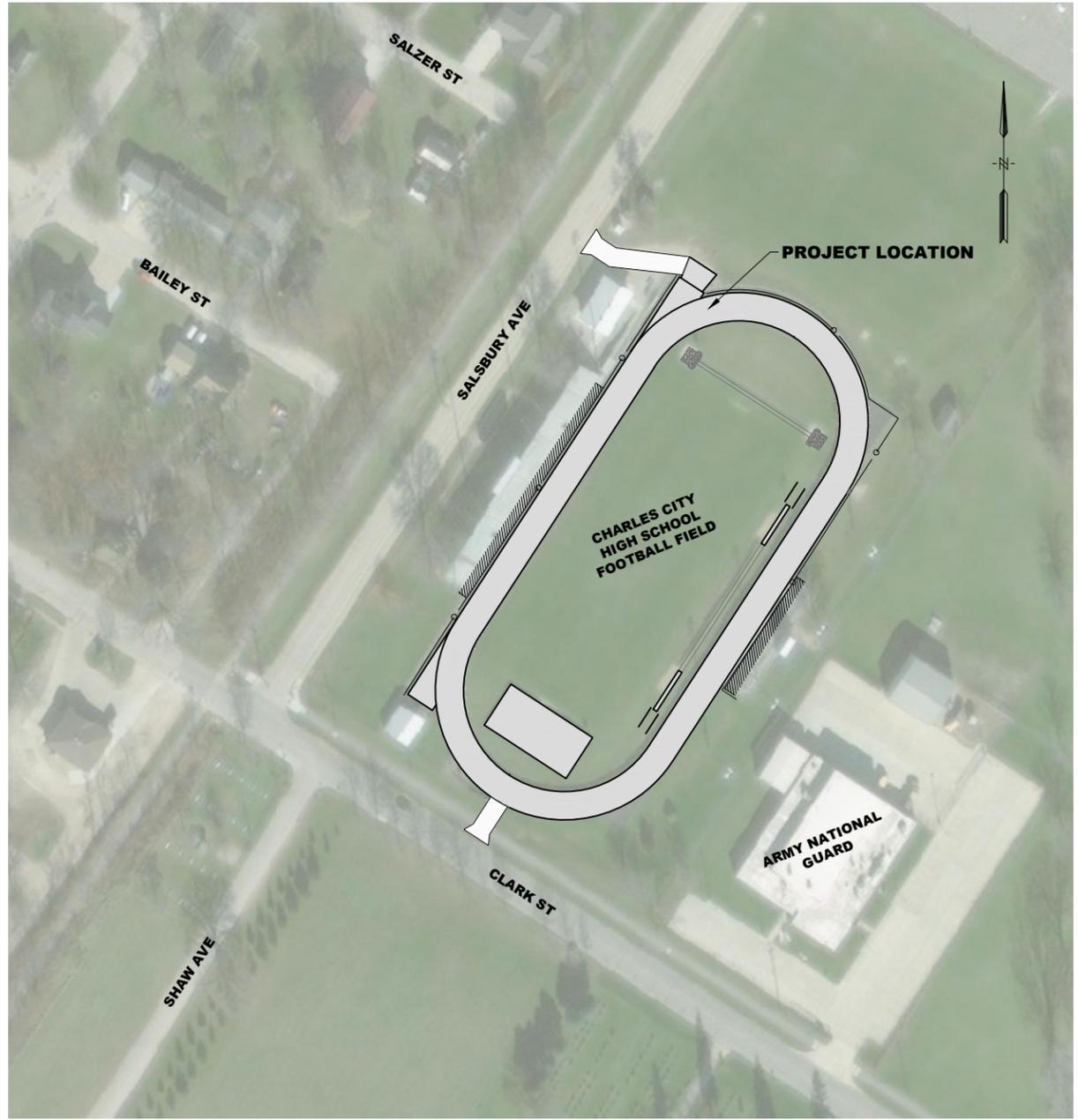


# PLANS FOR HIGH SCHOOL TRACK IMPROVEMENT PROJECT CITY OF CHARLES CITY, IOWA

PLOTTED: Thursday, April 22, 2021 9:38:13 AM

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VICINITY MAP  
NOT TO SCALE

DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
A.01	TITLE DRAWING
A.02	LEGEND
B.01	ACCESS ROUTE
C.01	EXISTING DRAINAGE PLAN
C.02	TRACK IMPROVEMENTS
D.01	TYPICAL CROSS SECTIONS
E.01	TRACK MARKINGS
E.02	TRACK MARKING DETAILS
F.01	TURF RESTORATION
G.01	TYPICAL DETAILS

- BOARD MEMBERS**  
 JOSH MACK-PRESIDENT  
 PAT ROTTINGHAUS-VICE PRESIDENT  
 JANEICE BERGLAND  
 SCOTT DIGHT  
 MISSY FREUND
- SCHOOL STAFF**  
 MIKE FISHER-SUPERINTENDENT  
 TERRI O'BRIEN-BOARD SECRETARY  
 JERRY MITCHELL-MAINTENANCE SUPERINTENDENT



THE VEENSTRA & KIMM PROJECT SPECIFIC CONSTRUCTION SPECIFICATIONS MANUAL SHALL APPLY TO THIS PROJECT.

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE: Andrew R. Sweers  
 NAME: ANDREW R. SWEERS  
 DATE: 04/26/21  
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021  
 PAGES COVERED BY THIS SEAL: ALL DRAWINGS IN INDEX



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		CHECKED	DRS
		APPROVED	DRS
		DATE	---
		ISSUED FOR	---

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HIGH SCHOOL TRACK IMPROVEMENT PROJECT  
 CHARLES CITY, IOWA

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TITLE DRAWING

DWG. NO.
A.01
PROJECT 588-4

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### GENERAL LEGEND

	SURVEY LINE & STATION INDICATOR		12" CMP CULVERT, SIZE AND TYPE
	EXISTING CONCRETE SURFACE		FLARED END SECTION
	EXISTING ASPHALT SURFACE		RAILROAD
	EXISTING AGGREGATE SURFACING		MAILBOX
	NEW CONCRETE SURFACE		FENCE (ALL OTHER)
	NEW ASPHALT SURFACE		SILT FENCE
	NEW AGGREGATE SURFACING		PROPERTY LINE
	NEW SEWER/MANHOLE		PROPERTY PIN
	EXISTING SEWER/MANHOLE		SECTION CORNER
	NEW SEWER/INTAKE		PLAT BOUNDARY
	EXISTING SEWER/INTAKE		BUILDING
	NEW WATER MAIN		ELEVATION MARKER
	NEW FORCE MAIN		CENTERLINE
	NEW HYDRANT		DIA.
	NEW WATER VALVE		ELEV.
	EXISTING SANITARY SEWER AND SIZE		PVC POLYVINYLCHLORIDE PIPE
	EXISTING STORM SEWER AND SIZE		CI CAST IRON PIPE
	EXISTING WATER MAIN AND SIZE		DI DUCTILE IRON PIPE
	EXISTING FORCE MAIN AND SIZE		CMP CORRUGATED METAL PIPE
	EXISTING GAS MAIN AND SIZE		VCP VITRIFIED CLAY PIPE
	UNDERGROUND POWER LINE		RCP REINFORCED CONCRETE PIPE
	OVERHEAD POWER LINE		RCAP REINFORCED CONCRETE ARCH PIPE
	UNDERGROUND TELEPHONE LINE		LRCP LINED REINFORCED CONCRETE PIPE
	FIBER OPTICS		LCPP LINED CONCRETE PRESSURE PIPE
	TOP OF EMBANKMENT		STA. STATION
	TOE OF EMBANKMENT		LA LINE AHEAD
	EXISTING MANHOLE		LB LINE BACK
	AREA OR BEEHIVE INTAKE		BM-2 BENCH MARK AND NUMBER
	EXISTING HYDRANT		ROW RIGHT-OF-WAY
	EXISTING WATER VALVE		PI POINT OF INTERSECTION
	POWER POLE		POT POINT ON TANGENT
	TELEPHONE POLE		LF LINEAR FEET
	STREET LIGHT		TH TACKED HUB
	GUY ANCHOR		SB-2 SOIL BORING AND NUMBER
	SIGN		PVC POINT OF VERTICAL CURVATURE
	RAILROAD CONTROL LIGHT		PVT POINT OF VERTICAL TANGENCY
	RAILROAD SIGN		VC VERTICAL CURVE
	UTILITY ACCESS COVER		PC POINT OF CURVATURE
	TREE AND SIZE		PT POINT OF TANGENCY
	EVERGREEN AND SIZE		MO MIDDLE ORDINATE
	STUMP AND SIZE		DWG. DRAWING
	BUSH, SHRUB OR HEDGE		CP-1 CONTROL POINT AND NUMBER
	CURB STOP AND BOX		(TYP.) TYPICAL
	SHAPE TO DRAIN		HPG HIGH PRESSURE GAS
	TRAFFIC SIGNAL		IPG INTERMEDIATE PRESSURE GAS
	TELEPHONE JUNCTION BOX		INV. INVERT
	NEW GROUND CONTOURS		E.W.,E.F. EACH WAY, EACH FACE
	EXISTING GROUND CONTOURS		E.W. EACH WAY
	EASEMENT LINE		@ AT
	EXISTING LIGHT		(BI#) BID ITEM NUMBER
			BOP BEGINNING OF PROJECT
			EOP END OF PROJECT
			BOC BACK OF CURB
			PCC PORTLAND CEMENT CONCRETE
			HMA HOT MIX ASPHALT

NOTE: THIS IS A GENERAL LEGEND. ITEMS MAY OR MAY NOT APPEAR ON DRAWINGS.

### GENERAL NOTES:

1. ALL FEATURES ARE SHOWN IN NAD 83 (2011) IOWA NORTH ZONE (1401) AND VERTICAL DATUM NAVD 1988 (GEOID 12A).
2. CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REQUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES WHERE CONFLICTS OCCUR
3. DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER/OWNER.
4. PROTECT UTILITY POLES, LINES, EXISTING RETAINING WALLS AND APPURTENANCES NOT SHOWN FOR RELOCATION.
5. PROTECT ALL SURFACING, NOT INDICATED BY SHADING FOR REMOVAL AND REPLACEMENT, FROM DAMAGE DURING CONSTRUCTION.
6. TOPSOIL / SEEDING - PLAN QUANTITY AREAS FOR TOPSOIL HAVE BEEN ESTIMATED BY THE AREAS SHOWN ON G.01 THAT WILL BE DISTURBED BY THE TRACK RECONSTRUCTION.

### CONSTRUCTION NOTES:

1. VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. FIELD VERIFY EXISTING STORM/SEWER ELEVATIONS.

### PROTECTION OF VEGETATION NOTES:

1. TREES AND OTHER VEGETATION WHICH ARE TO BE REMOVED ARE MARKED WITH AN "X" OVER THE APPROPRIATE SYMBOL. FOR EXAMPLE X12" INDICATES THE REMOVAL OF A 12" TREE. REPLACEMENT, BY CONTRACTOR, OF THESE ITEMS IS NOT REQUIRED.
2. TUNNEL, INSTALL TIGHT SHEETING, HAND EXCAVATE OR EMPLOY OTHER MEANS APPROVED BY ENGINEER TO PROTECT EXPOSED PORTIONS AND ROOT SYSTEMS OF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL. IF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL ARE DAMAGED DURING CONSTRUCTION, REPLACE IN KIND AND SIZE AT NO COST TO CITY OR PROPERTY OWNER.

DATE	REVISIONS	SCALE	AS NOTED
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		CHECKED	DRS
		APPROVED	DRS
		DATE	---
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HIGH SCHOOL TRACK IMPROVEMENT PROJECT  
CHARLES CITY, IOWA

DWG. NO.
A.02
PROJECT 588-4

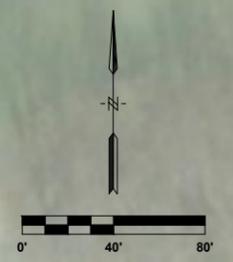
### LEGEND

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- NOTES:
1. ANY DAMAGE DONE TO EXISTING HMA TRAIL DUE TO CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL, AND PAID FOR BY CONTRACTOR.
  2. ANY DAMAGE DONE TO PCC CURB AND GUTTER ON CLARK ST SHALL BE CONSIDERED INCIDENTAL, AND PAID FOR BY CONTRACTOR.
  3. ALL AGGREGATE PLACED TO PROVIDE TEMPORARY ACCESS SHALL BE REMOVED BY CONTRACTOR UPON COMPLETION OF THE PROJECT (INC.)



THE LOCATION OF UNDERGROUND FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND ARE SHOWN FOR THE CONTRACTORS GENERAL INFORMATION. THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR SHOWING ALL UTILITIES IN THE PLANS. OTHER UTILITIES MAY EXIST AND THEIR LOCATION MAY NOT BE PRESENTLY KNOWN OR IDENTIFIED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITIES OF HIS WORK SCHEDULE AND USE SUITABLE PRECAUTIONS TO PREVENT DAMAGE TO PIPES, CONDUITS, AND OTHER UNDERGROUND STRUCTURES. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES LOCATED WITHIN THE CONSTRUCTION AREA TO AVOID DAMAGE IN ACCORDANCE WITH IOWA CODE 480.4. THE CONTRACTOR SHALL NOTIFY IOWA ONE-CALL AT 1.800.292.8989 TO IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA.

DATE	REVISIONS	SCALE	AS NOTED
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		CHECKED	DRS
		APPROVED	DRS
		DATE	---
		ISSUED FOR	---

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**HIGH SCHOOL TRACK IMPROVEMENT PROJECT**  
 CHARLES CITY, IOWA

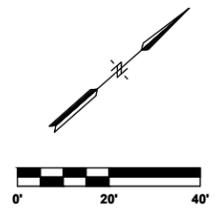
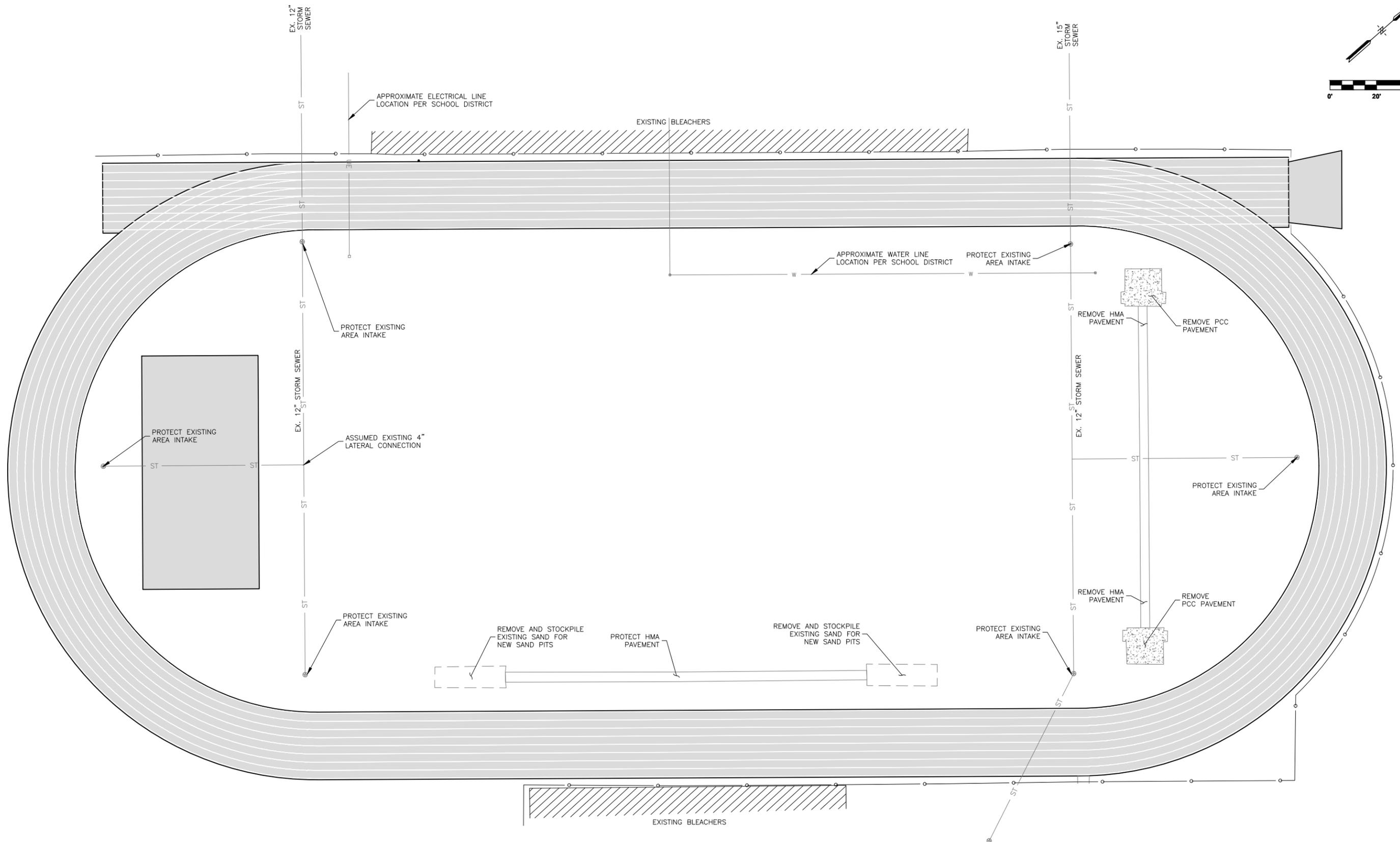
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**ACCESS ROUTE**

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B.01
PROJECT 588-4

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		DATE	---
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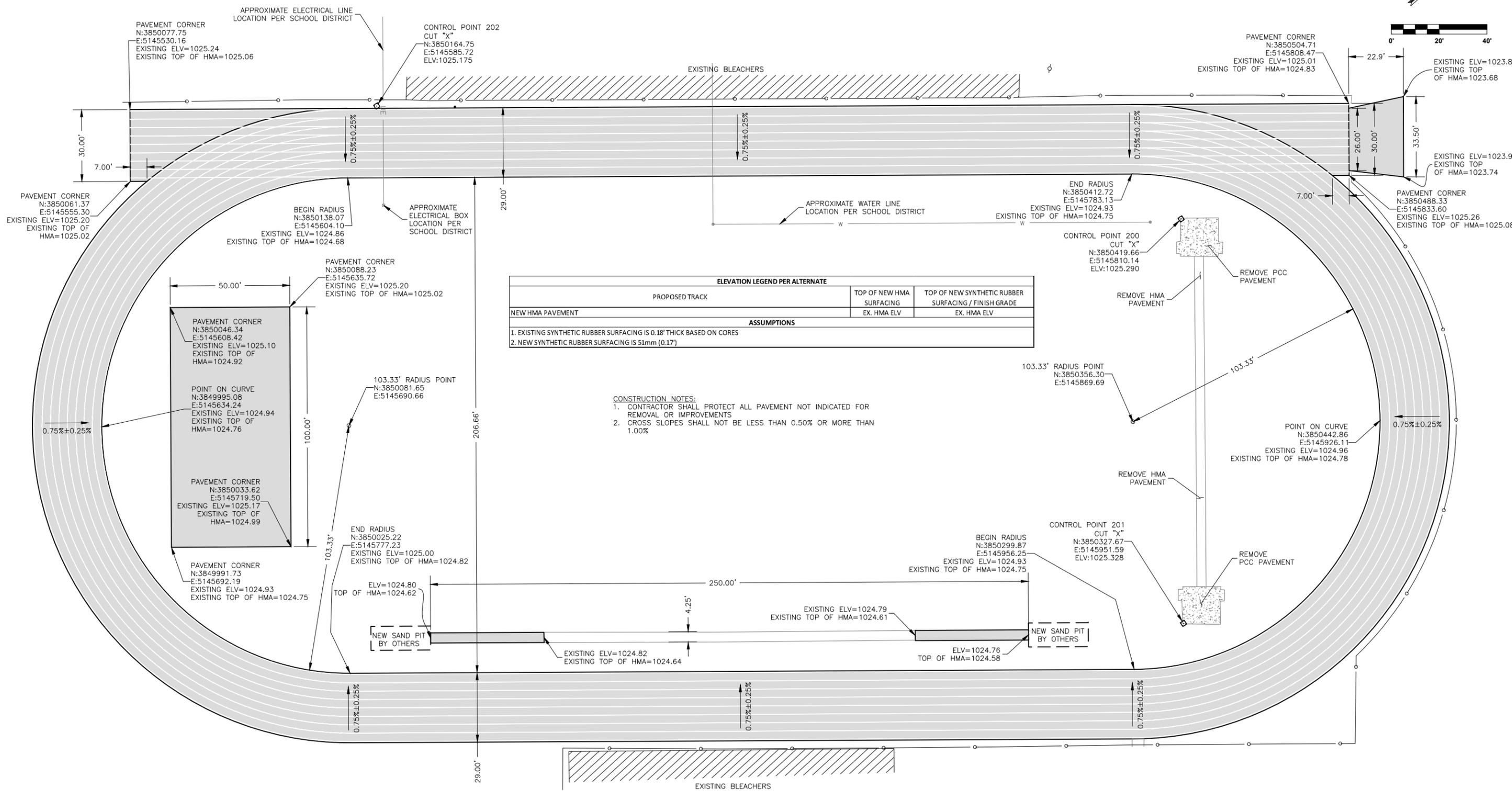
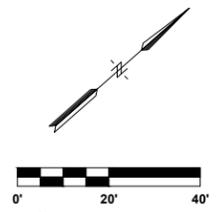
HIGH SCHOOL TRACK IMPROVEMENT PROJECT  
 CHARLES CITY, IOWA  
  
**EXISTING DRAINAGE PLAN**

DWG. NO.
C.01
PROJECT 588-4

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NOTE:  
1. EXISTING FENCE TO BE REMOVED BY OTHERS



ELEVATION LEGEND PER ALTERNATE		
PROPOSED TRACK	TOP OF NEW HMA SURFACING	TOP OF NEW SYNTHETIC RUBBER SURFACING / FINISH GRADE
NEW HMA PAVEMENT	EX. HMA ELV	EX. HMA ELV
ASSUMPTIONS		
1. EXISTING SYNTHETIC RUBBER SURFACING IS 0.18" THICK BASED ON CORES		
2. NEW SYNTHETIC RUBBER SURFACING IS 51mm (0.17')		

CONSTRUCTION NOTES:  
1. CONTRACTOR SHALL PROTECT ALL PAVEMENT NOT INDICATED FOR REMOVAL OR IMPROVEMENTS  
2. CROSS SLOPES SHALL NOT BE LESS THAN 0.50% OR MORE THAN 1.00%

LEGEND	
	AREA TO RECEIVE NEW HMA IMPROVEMENTS AND NEW SYNTHETIC RUBBER SURFACING

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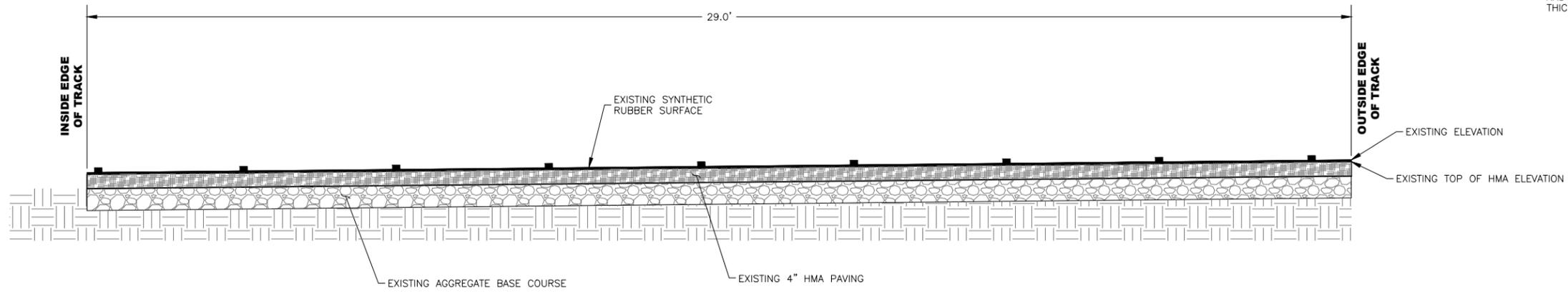
TRACK IMPROVEMENTS

DWG. NO.
C.02
PROJECT 588-4

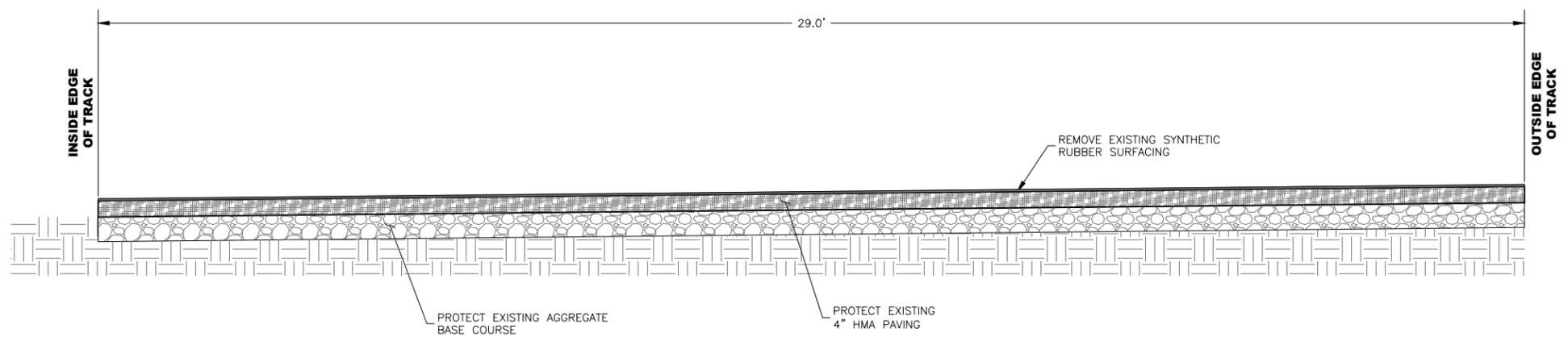
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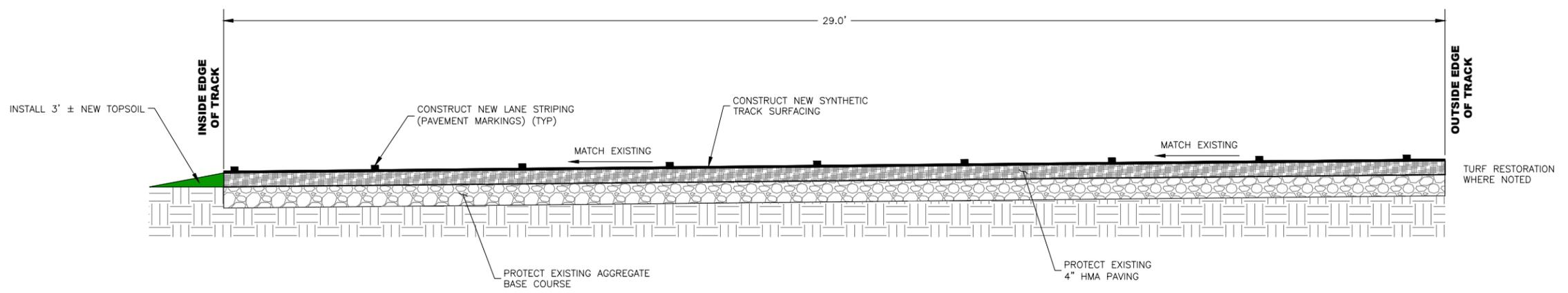
NOTE:  
EXISTING SYNTHETIC RUBBER SURFACE  
HAS BEEN DETERMINED TO BE 0.18'  
THICK FOR CORE SAMPLE DATA



**EXISTING TRACK SECTION**



**IMPROVEMENTS SECTION**



**PROPOSED TRACK SECTION**

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		CHECKED	DRS
		APPROVED	DRS
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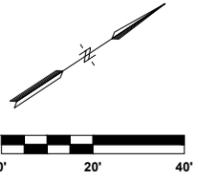
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TYPICAL CROSS SECTIONS

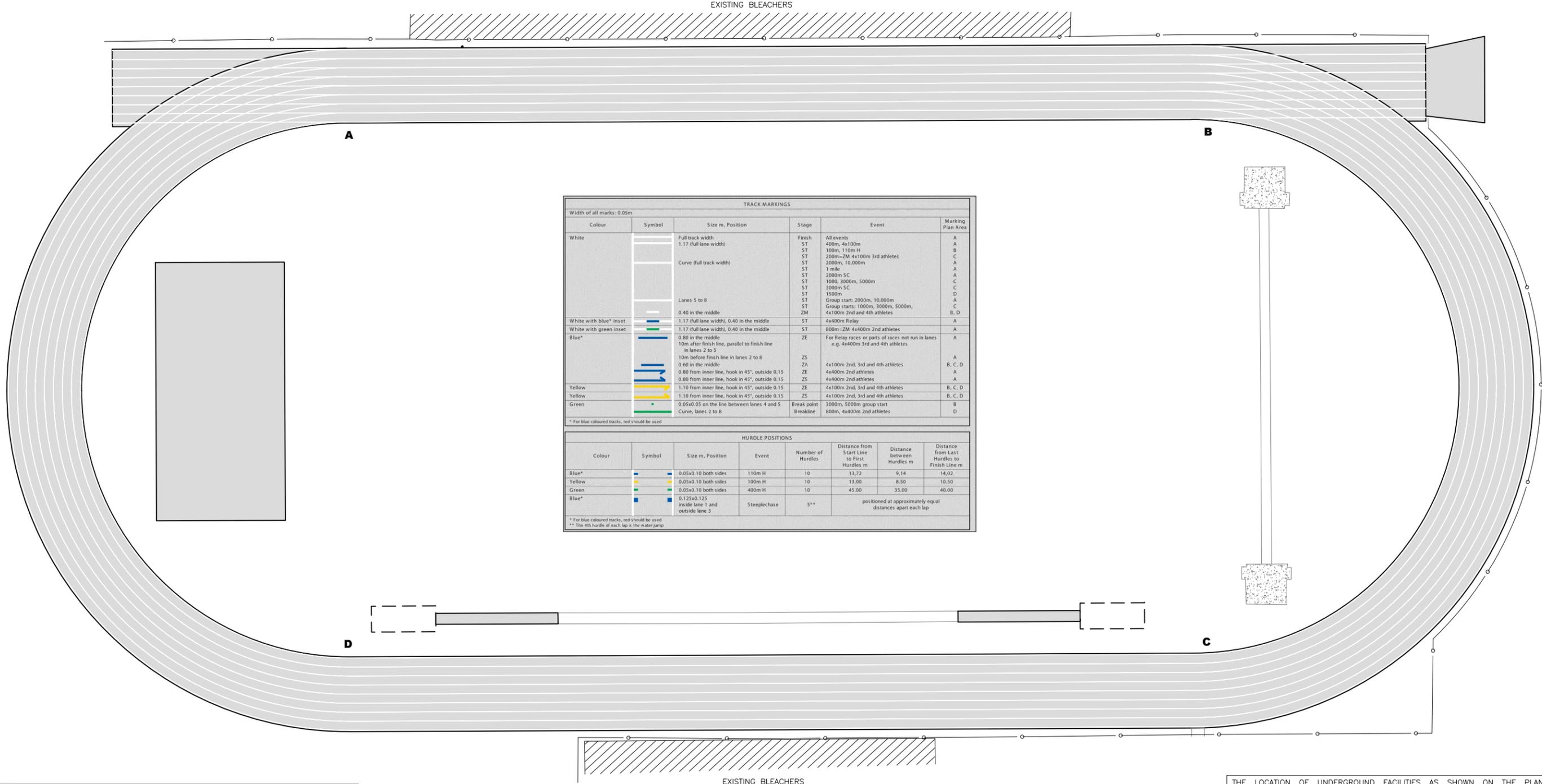
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PROJECT 588-4

NOTES:  
 1. CONTRACTOR SHALL CONSTRUCT ALL TRACK MARKINGS IN ACCORDANCE WITH THE MOST CURRENT VERSION OF IAAF STANDARDS.



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TRACK MARKINGS							
Colour	Symbol	Size m, Position	Stage	Event	Marking Plan Area		
White	[Symbol]	Full track width	Finish	All events	A		
		1.17 (full lane width)	ST	400m, 4x100m	A		
	[Symbol]	Curve (full track width)	ST	100m, 110m H	B		
			ST	200m=2M 4x100m 3rd athletes	C		
	[Symbol]	Lanes 5 to 8	ST	2000m, 10,000m	A		
			ST	1 mile	A		
	[Symbol]	0.40 in the middle	ST	2000m SC	A		
			ST	1000, 3000m, 5000m	C		
	White with blue* inset	[Symbol]	1.17 (full lane width), 0.40 in the middle	ST	3000m SC	C	
			ST	1500m	D		
White with green inset	[Symbol]	1.17 (full lane width), 0.40 in the middle	ST	Group start: 2000m, 10,000m	A		
		ST	Group starts: 1000m, 3000m, 5000m, 4x100m 2nd and 4th athletes	C, B, D			
Blue*	[Symbol]	0.80 in the middle	ZE	4x400m Relay	A		
		10m after finish line, parallel to finish line in lanes 2 to 5		800m=2M 4x400m 2nd athletes	A		
Blue*	[Symbol]	10m before finish line in lanes 2 to 8	ZS	For Relay races or parts of races not run in lanes e.g. 4x400m 3rd and 4th athletes	A		
		0.60 in the middle	ZA	4x100m 2nd, 3rd and 4th athletes	B, C, D		
Yellow	[Symbol]	0.80 from inner line, hook in 45°, outside 0.15	ZE	4x400m 2nd athletes	A		
		0.80 from inner line, hook in 45°, outside 0.15	ZS	4x400m 2nd athletes	A		
Yellow	[Symbol]	1.10 from inner line, hook in 45°, outside 0.15	ZE	4x100m 2nd, 3rd and 4th athletes	B, C, D		
		1.10 from inner line, hook in 45°, outside 0.15	ZS	4x100m 2nd, 3rd and 4th athletes	B, C, D		
Green	[Symbol]	0.05x0.05 on the line between lanes 4 and 5	Break point	3000m, 5000m group start	B		
		Curve, lanes 2 to 8	Breakline	800m, 4x400m 2nd athletes	D		

\* For blue coloured tracks, red should be used

HURDLE POSITIONS							
Colour	Symbol	Size m, Position	Event	Number of Hurdles	Distance from Start Line to First Hurdles m	Distance between Hurdles m	Distance from Last Hurdles to Finish Line m
Blue*	[Symbol]	0.05x0.10 both sides	110m H	10	13.72	9.14	14.02
Yellow	[Symbol]	0.05x0.10 both sides	100m H	10	13.00	8.50	10.50
Green	[Symbol]	0.05x0.10 both sides	400m H	10	45.00	35.00	40.00
Blue*	[Symbol]	0.125x0.125 inside lane 1 and outside lane 3	Steeplechase	5**	positioned at approximately equal distances apart each lap		

\* For blue coloured tracks, red should be used  
 \*\* The 4th hurdle of each lap is the water jump

Lane staggers in m, measurement line distance 0.20m from lane line (Width of lanes 1.22)									
Distance on Line of Running	Marking Plan Area	Bends Run in Lanes	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
200	C	1	3.519	7.352	11.185	15.017	18.850	22.683	26.516
400	A	2	7.038	14.704	22.370	30.034	37.700	45.366	53.032
800	A	1	3.526	7.384	11.260	15.151	19.061	22.989	26.933
4x400	A	3	10.564	22.088	33.630	45.185	56.761	68.355	79.965

400m STANDARD TRACK	
KEY	
ST	Start
ZE	End of take-over zone (10m after ZM)
ZM	Middle of take-over zone
ZS	Start of take-over zone (10m before ZM)
ZA	Start of acceleration zone (10m before ZS, 4x100m)

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DATE	REVISIONS	SCALE	AS NOTED
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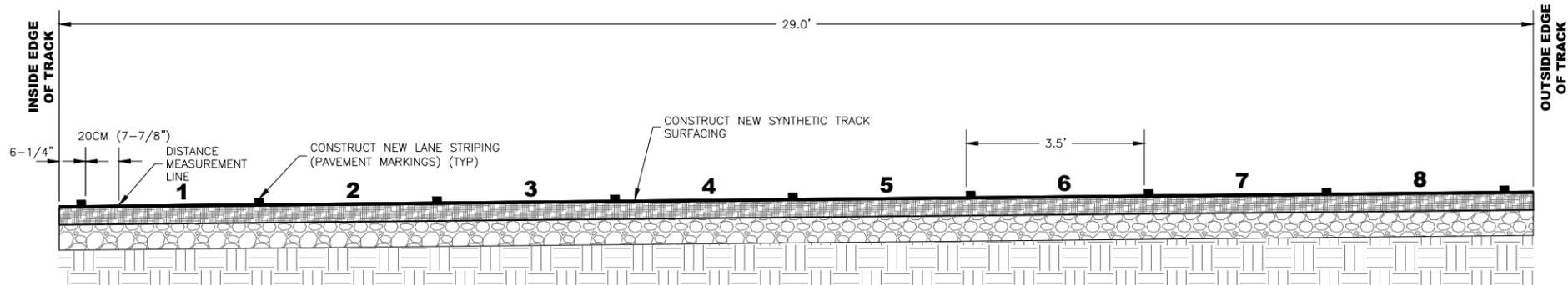
VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 [Symbol] 1"  
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TRACK MARKINGS

DWG. NO.
E.01
PROJECT 588-4



**TRACK MARKING  
 TYPICAL DETAILS**

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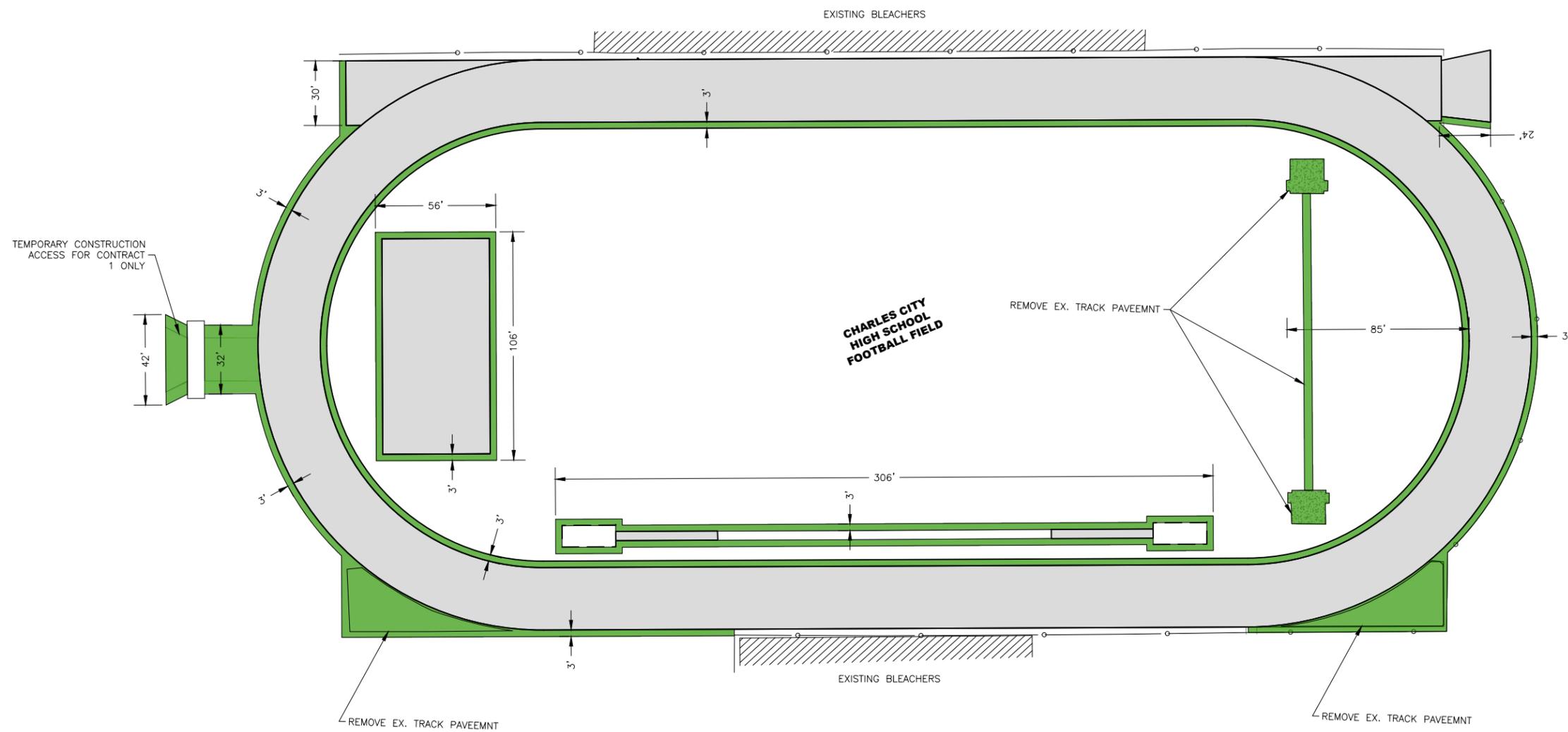
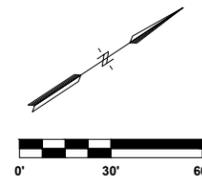


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TRACK MARKING DETAILS

DWG. NO.
E.02
PROJECT 588-4



TEMPORARY CONSTRUCTION ACCESS FOR CONTRACT 1 ONLY

CHARLES CITY HIGH SCHOOL FOOTBALL FIELD

REMOVE EX. TRACK PAVEEMNT

REMOVE EX. TRACK PAVEEMNT

REMOVE EX. TRACK PAVEEMNT

EXISTING BLEACHERS

EXISTING BLEACHERS

- NOTES:**
1. ALL AREAS DISTURBED BY CONSTRUCTION SHALL RECEIVE 6-8" THICK OF IMPORTED TOPSOIL
  2. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED, FERTILIZED, AND MULCHED

THE LOCATION OF UNDERGROUND FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND ARE SHOWN FOR THE CONTRACTORS GENERAL INFORMATION. THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR SHOWING ALL UTILITIES IN THE PLANS. OTHER UTILITIES MAY EXIST AND THEIR LOCATION MAY NOT BE PRESENTLY KNOWN OR IDENTIFIED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITIES OF HIS WORK SCHEDULE AND USE SUITABLE PRECAUTIONS TO PREVENT DAMAGE TO PIPES, CONDUITS, AND OTHER UNDERGROUND STRUCTURES. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES LOCATED WITHIN THE CONSTRUCTION AREA TO AVOID DAMAGE IN ACCORDANCE WITH IOWA CODE 480.4. THE CONTRACTOR SHALL NOTIFY IOWA ONE-CALL AT 1.800.292.6989 TO IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA.

**LEGEND**

AREA TO BE SEEDED, FERTILIZED, AND MULCHED

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	TLO
		CHECKED	DRS
		APPROVED	DRS
		DATE	---
		ISSUED FOR	---

**VERIFY SCALE**  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



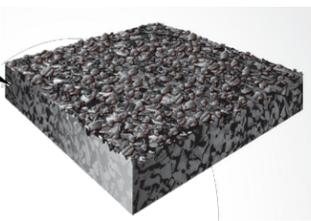
**HIGH SCHOOL TRACK IMPROVEMENT PROJECT  
 CHARLES CITY, IOWA**

2000 Fourth Street SW • Suite 9 • Mason City, Iowa 50401-1596  
 641-421-8000 • 641-380-0313(FAX) • 877-241-8000(VATS)

**TURF RESTORATION**

DWG. NO.
F.01
PROJECT 588-4

SYNTHETIC TRACK SURFACING - BASE MAT (Bl# XXXX)



**SINGLE LAYER TRACK SURFACING DETAIL**

NOT TO SCALE

SPRAYED ON SURFACE LAYER (WEARING COURSE) - (COLOR BLACK) (Bl# XXXX)

SYNTHETIC TRACK SURFACING - BASE MAT (Bl# XXXX)



**TWO LAYER TRACK SURFACING DETAIL**

NOT TO SCALE

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	TLO
		CHECKED	DRS
		APPROVED	DRS
		DATE	---
		ISSUED FOR	---

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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HIGH SCHOOL TRACK IMPROVEMENT PROJECT  
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TYPICAL DETAILS

DWG. NO.
G.01
PROJECT 588-4