



Bristol Warren Regional School District

RIDE Necessity of School Construction



PMA Consultants

**PERKINS
EASTMAN**

TRAVERSE
landscape architects



BRISTOL PLANNING BOARD | 02.13.2025

SCHEDULE

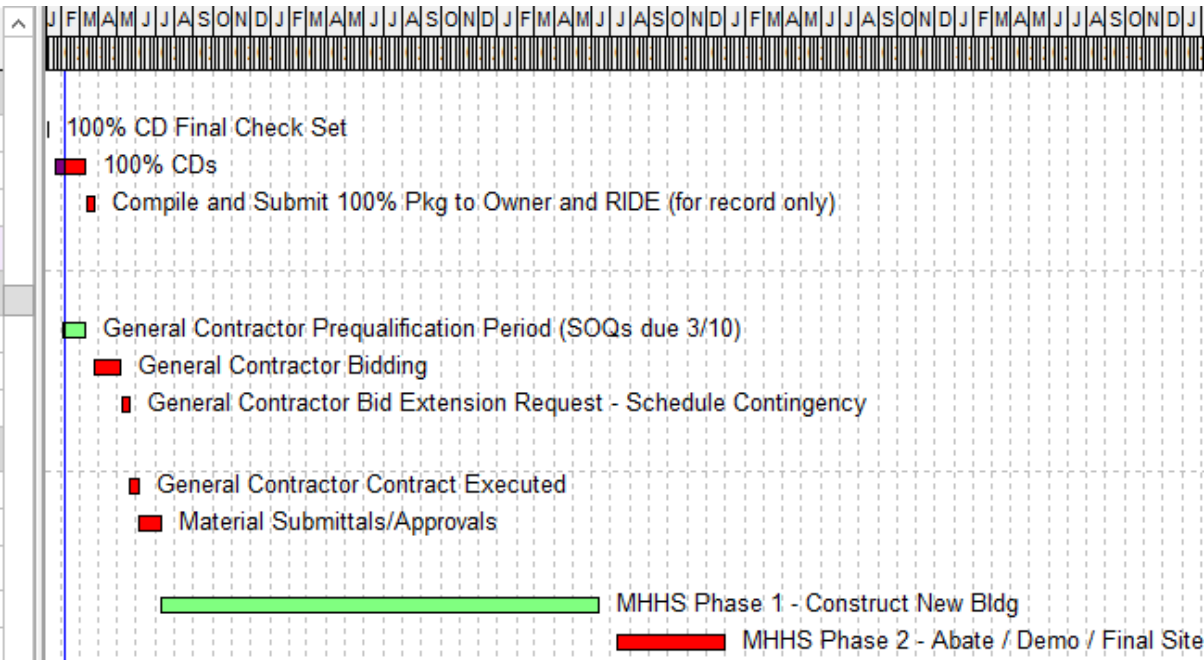


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SCHEDULE UPDATE

Activity ID	Activity Name	Original Duration	Start	Finish
100% CD				
A3430	100% CD Final Check Set	1	10-Jan-25 A	10-Jan-25 A
A3420	100% CDs	36	22-Jan-25 A	12-Mar-25
A3480	Compile and Submit 100% Pkg to Owner and RIDE (for record only)	10	13-Mar-25	26-Mar-25
CONSTRUCTION				
Bidding				
A3510	General Contractor Prequalification Period (SOQs due 3/10)	30	04-Feb-25 A	10-Mar-25
A3530	General Contractor Bidding	30	27-Mar-25	07-May-25
A3570	General Contractor Bid Extension Request - Schedule Contingency	10	08-May-25	21-May-25
Construction				
A4300	General Contractor Contract Executed	10	22-May-25	04-Jun-25
A4470	Material Submittals/Approvals	25	05-Jun-25	09-Jul-25
MHHS				
A3540	MHHS Phase 1 - Construct New Bldg	502	10-Jul-25	11-Jun-27
A3630	MHHS Phase 2 - Abate / Demo / Final Site Improvements	124	12-Jul-27	30-Dec-27*



SITE DESIGN



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EST. 1971

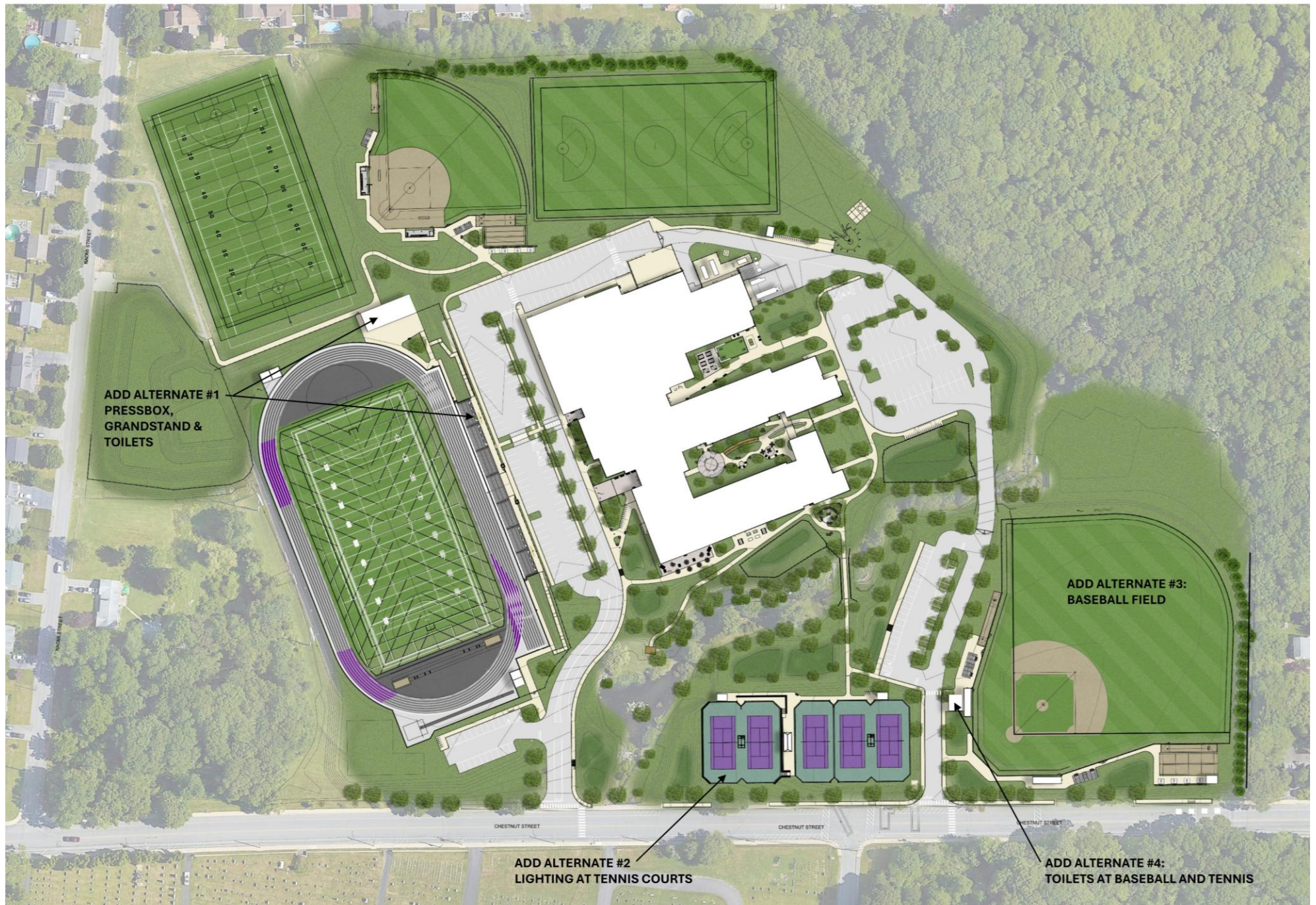
**PERKINS —
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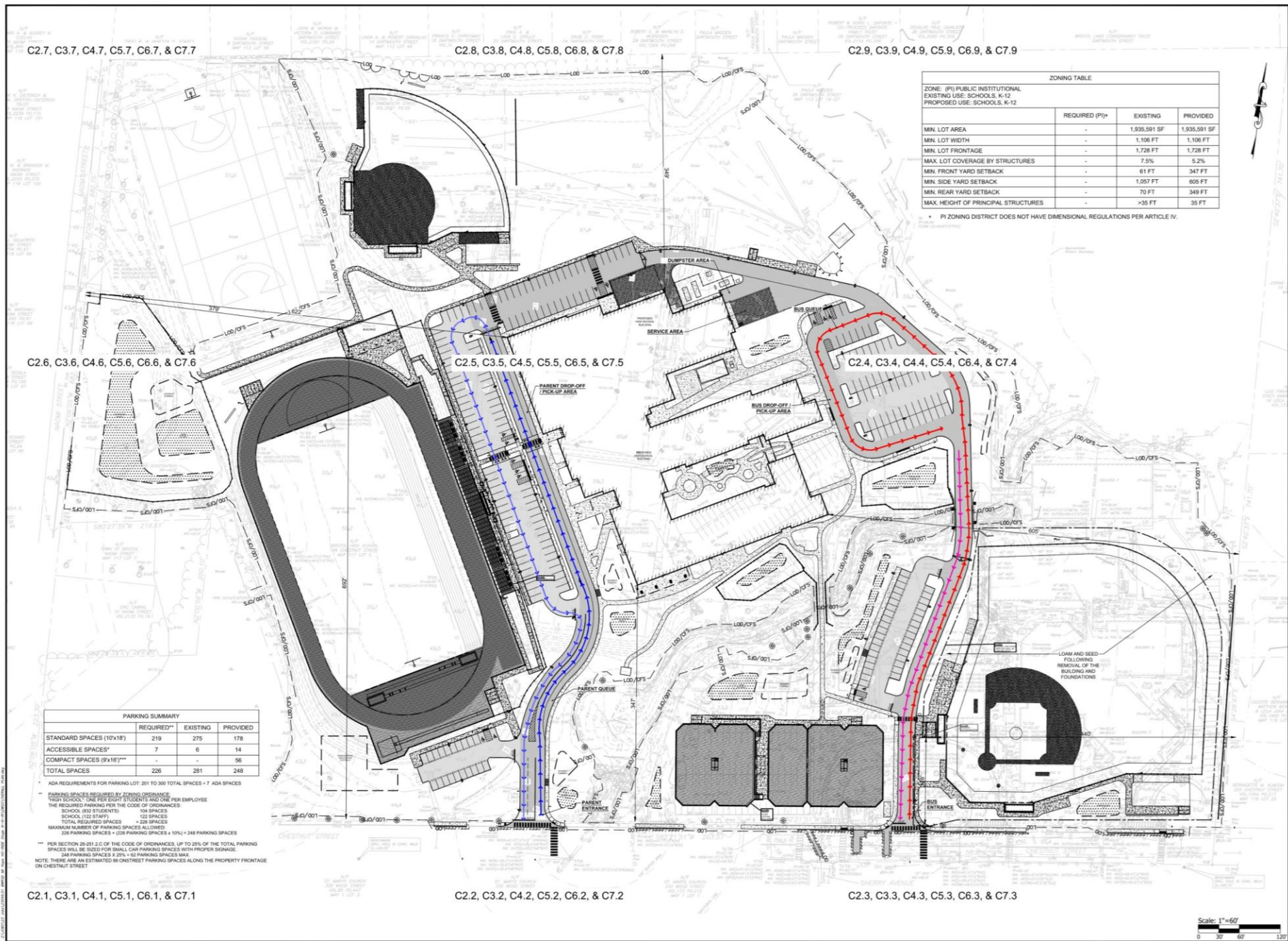


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ZONING TABLE

	REQUIRED (PI)*	EXISTING	PROVIDED
MIN. LOT AREA	-	1,935,591 SF	1,935,591 SF
MIN. LOT WIDTH	-	1,106 FT	1,106 FT
MIN. LOT FRONTAGE	-	1,728 FT	1,728 FT
MAX. LOT COVERAGE BY STRUCTURES	-	7.5%	5.2%
MIN. FRONT YARD SETBACK	-	81 FT	347 FT
MIN. SIDE YARD SETBACK	-	1,057 FT	605 FT
MIN. REAR YARD SETBACK	-	70 FT	349 FT
MAX. HEIGHT OF PRINCIPAL STRUCTURES	-	>35 FT	35 FT

* PI ZONING DISTRICT DOES NOT HAVE DIMENSIONAL REGULATIONS PER ARTICLE IV.

PARKING SUMMARY

	REQUIRED**	EXISTING	PROVIDED
STANDARD SPACES (10'x18')	219	275	178
ACCESSIBLE SPACES*	7	6	14
COMPACT SPACES (9'x16')***	-	-	56
TOTAL SPACES	226	281	248

ADA REQUIREMENTS FOR PARKING LOT: 291 TO 300 TOTAL SPACES = 7 ADA SPACES

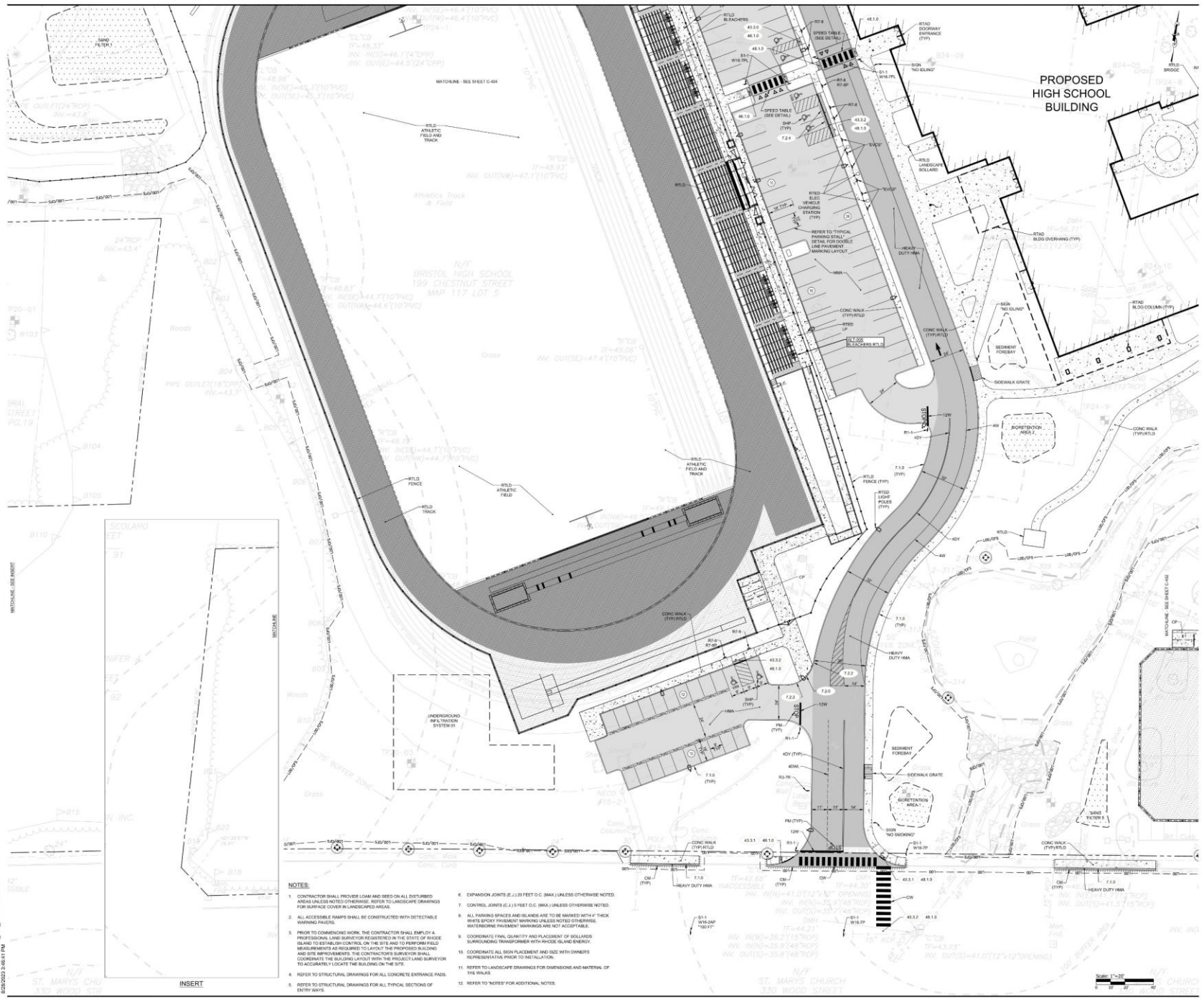
PARKING SPACES REQUIRED BY ZONING ORDINANCE
 "HIGH SCHOOL": ONE PER EIGHT STUDENTS AND ONE PER EMPLOYEE
 THE REQUIRED PARKING PER THE CODE OF ORDINANCES
 SCHOOL (832 STUDENTS) 104 SPACES
 SCHOOL (123 STAFF) 123 SPACES
 TOTAL REQUIRED SPACES = 228 SPACES
 MAXIMUM NUMBER OF PARKING SPACES ALLOWED
 228 PARKING SPACES + (228 PARKING SPACES x 10%) = 248 PARKING SPACES

** PER SECTION 20-211.2(C) OF THE CODE OF ORDINANCES, UP TO 25% OF THE TOTAL PARKING SPACES WILL BE SIZED FOR SMALL CAR PARKING SPACES WITH PROPER DRAGGING.
 248 PARKING SPACES x 25% = 62 PARKING SPACES MAX.
 NOTE: THERE ARE AN ESTIMATED 80 ON-STREET PARKING SPACES ALONG THE PROPERTY FRONTAGE ON CHESTNUT STREET

C2.1, C3.1, C4.1, C5.1, C6.1, & C7.1

C2.2, C3.2, C4.2, C5.2, C6.2, & C7.2

C2.3, C3.3, C4.3, C5.3, C6.3, & C7.3

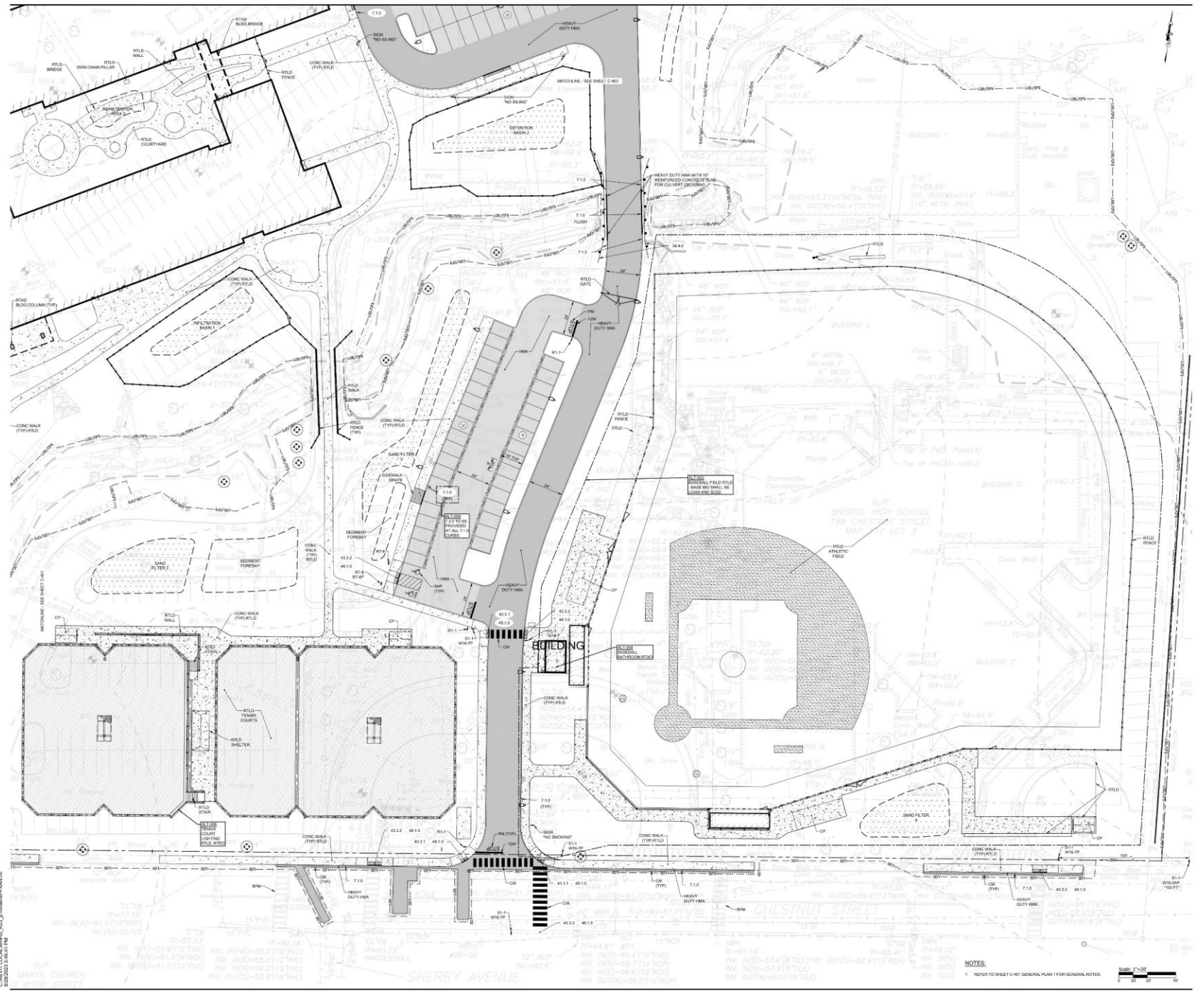


- NOTES**
1. CONTRACTOR SHALL PROVIDE LOAD AND BEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE. REFER TO LANDSCAPE DRAWINGS FOR SURFACE COVER IN LANDSCAPED AREAS.
 2. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
 3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR (REGISTERED IN THE STATE OF MICHIGAN) TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LOCATE THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
 4. REFER TO STRUCTURAL DRAWINGS FOR ALL CONCRETE ENTRANCE PADS.
 5. REFER TO STRUCTURAL DRAWINGS FOR ALL TYPICAL SECTIONS OF ENTRY AVES.
 6. EXPANSION JOINTS @ 20 FEET O.C. (MAX) UNLESS OTHERWISE NOTED.
 7. CONTROL JOINTS @ 3 FEET O.C. (MAX) UNLESS OTHERWISE NOTED.
 8. ALL FINISH PRICES AND SEE AWG ARE TO BE BARRIED WITH 1" THICK WHITE EPOXY FINISHMENT MARKING UNLESS NOTED OTHERWISE. INTERLOCKING FINISHMENT MARKINGS ARE NOT ACCEPTABLE.
 9. COORDINATE PAINT QUANTITY AND PLACEMENT OF ISOLATED SURROUNDING TRANSFORMER WITH PHOENIX ISLAND ENERGY.
 10. COORDINATE ALL SIGN PLACEMENT AND SIZE WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
 11. REFER TO LANDSCAPE DRAWINGS FOR DIMENSIONS AND MATERIAL OF THE TREES.
 12. REFER TO NOTES FOR ADDITIONAL NOTES.

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INSERT





CONVERT LOCAL MAPS - R23_1.dwg - 10/24/2020
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11/27 MARY'S CHURCH
182000 STREET

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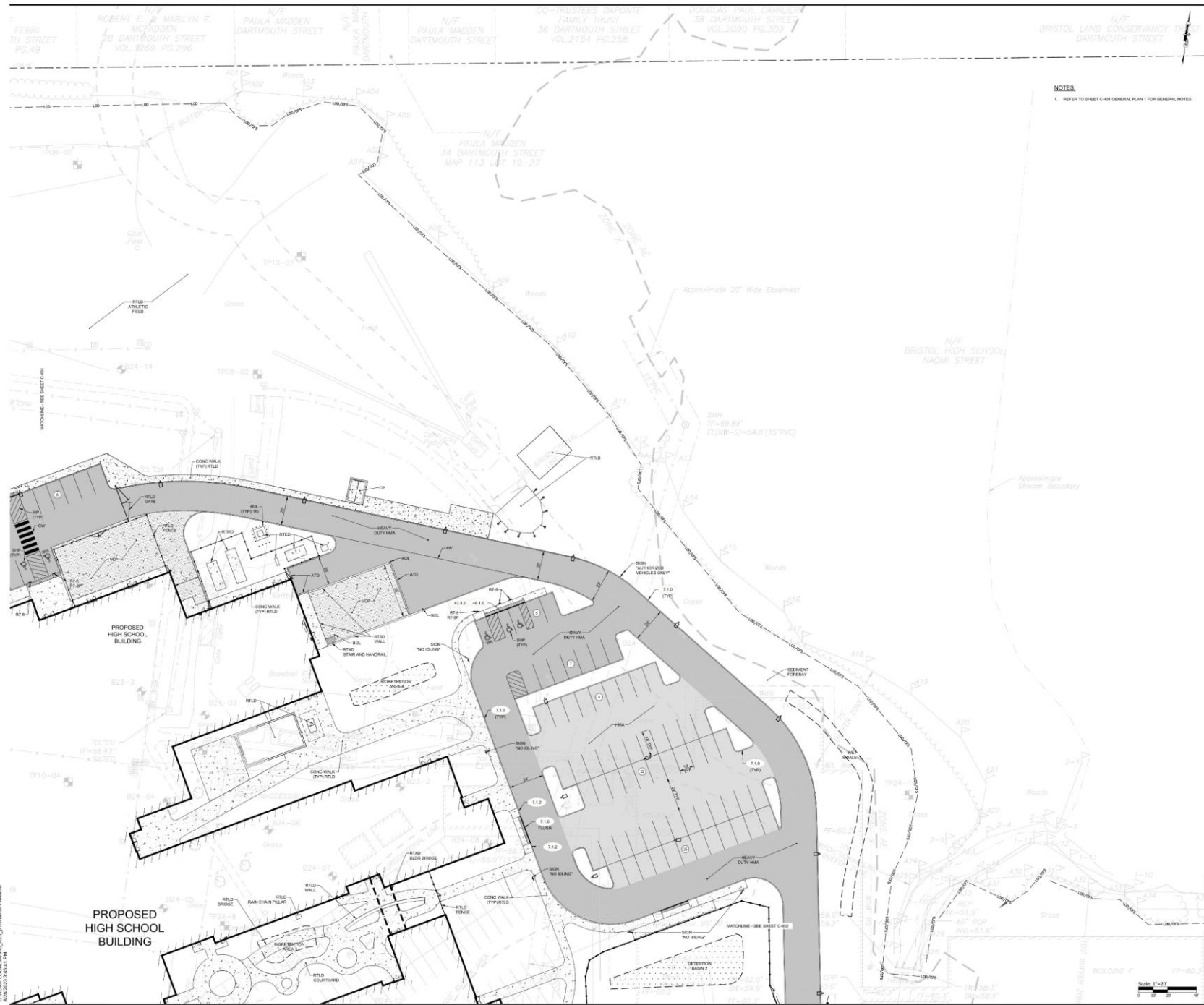
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NOTES:
1. REFER TO SHEET C-401 GENERAL PLAN 1 FOR GENERAL NOTES.





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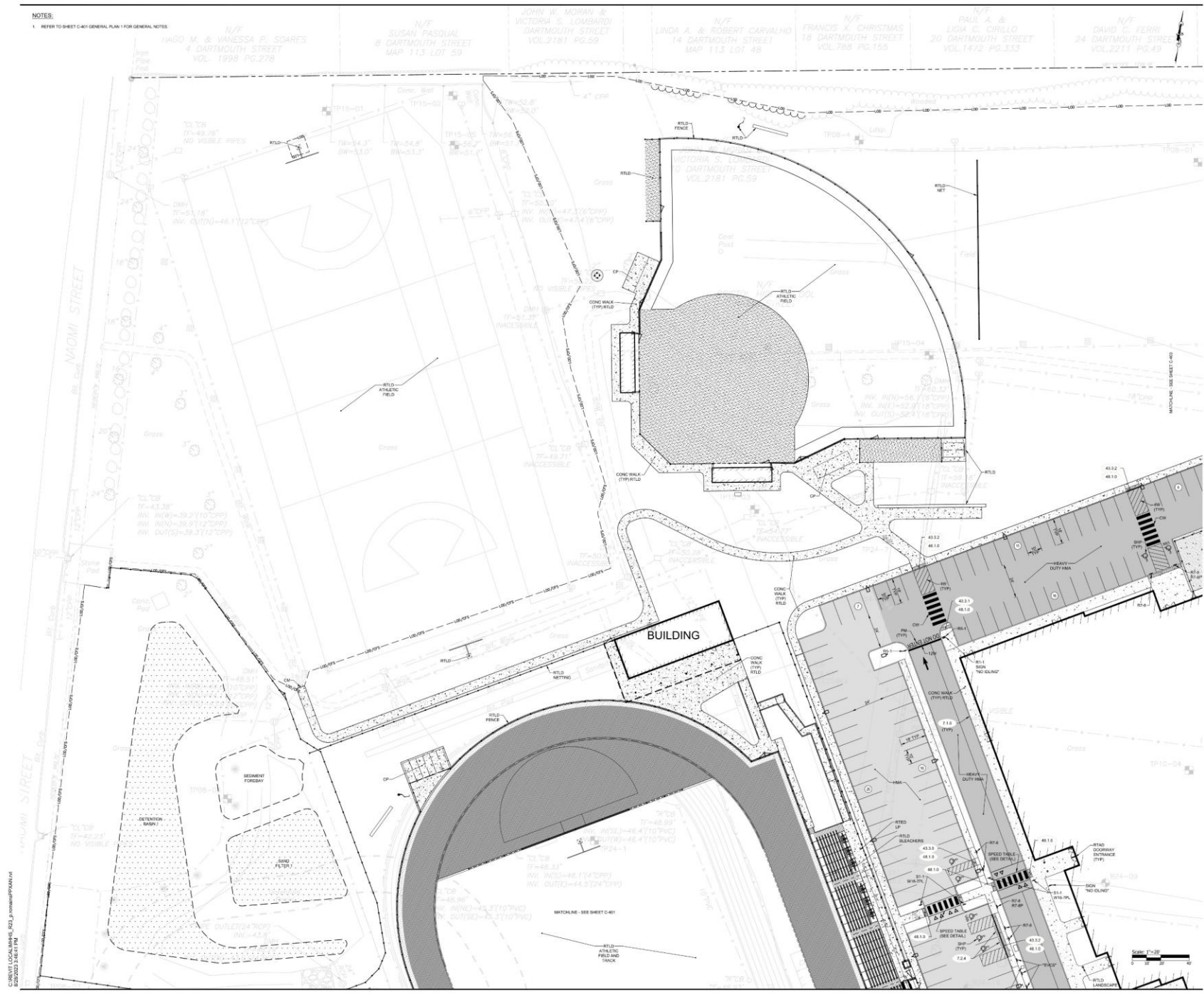
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SCALE: 1"=20'



NOTES:

1. REFER TO SHEET C-401 GENERAL PLAN 1 FOR GENERAL NOTES.



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Scale: 1"=20'



STORMWATER MANAGEMENT



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Stormwater Management Design – Improvements to Silver Creek

RUNOFF VOLUME REDUCED

1-YEAR 10%
10-YEAR 2%

Water Quality Treatment

- Twelve stormwater BMPS provided: Bioretention Areas, Sand Filters, a Wet Swale, an Infiltration Basin and an Underground Infiltration System.
- Treating 11.90 acres of impervious surface. Existing site previously had 10.50 acres of untreated impervious surface discharging to Silver Creek

Peak Flow Rate Reduction

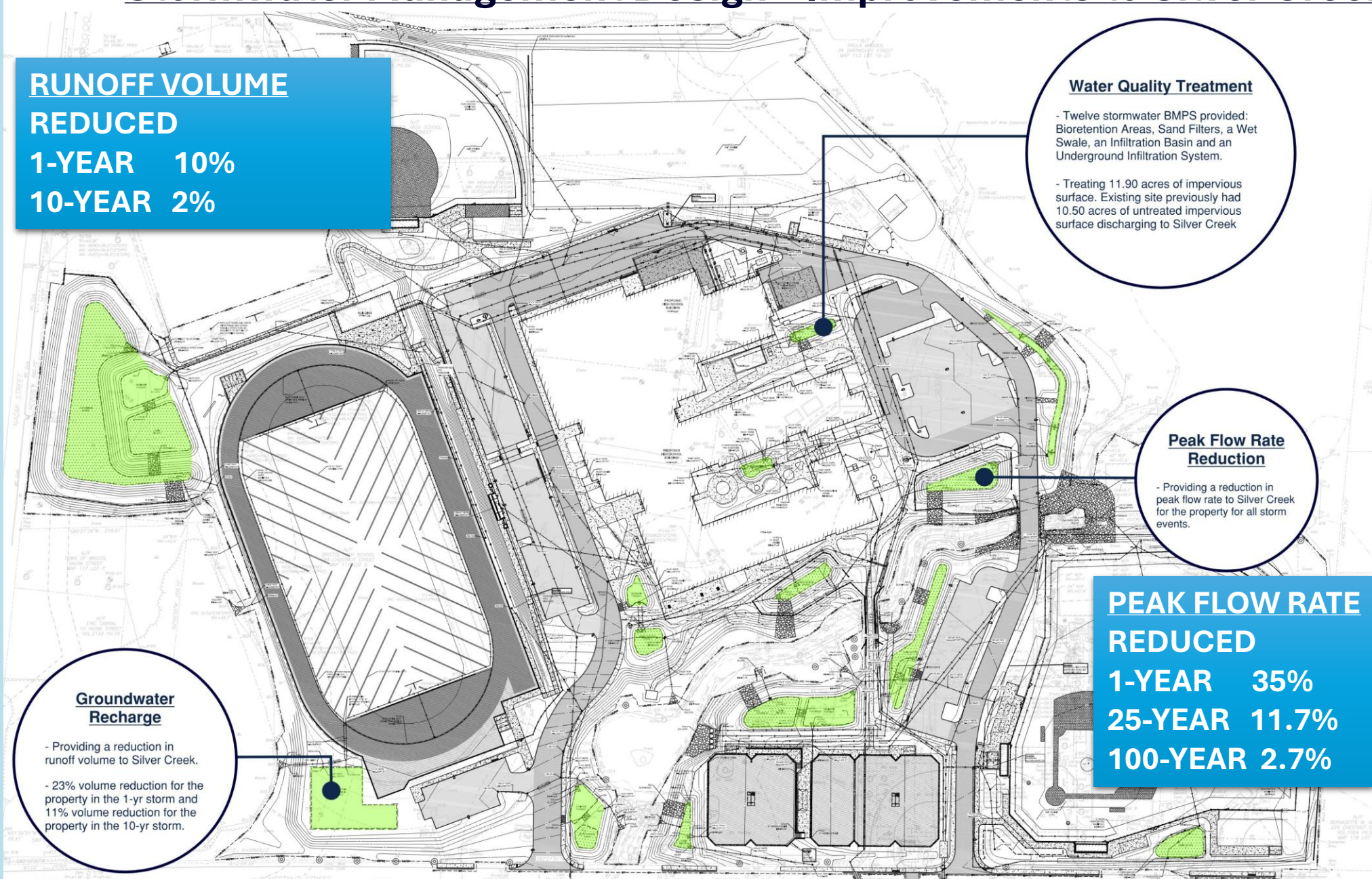
- Providing a reduction in peak flow rate to Silver Creek for the property for all storm events.

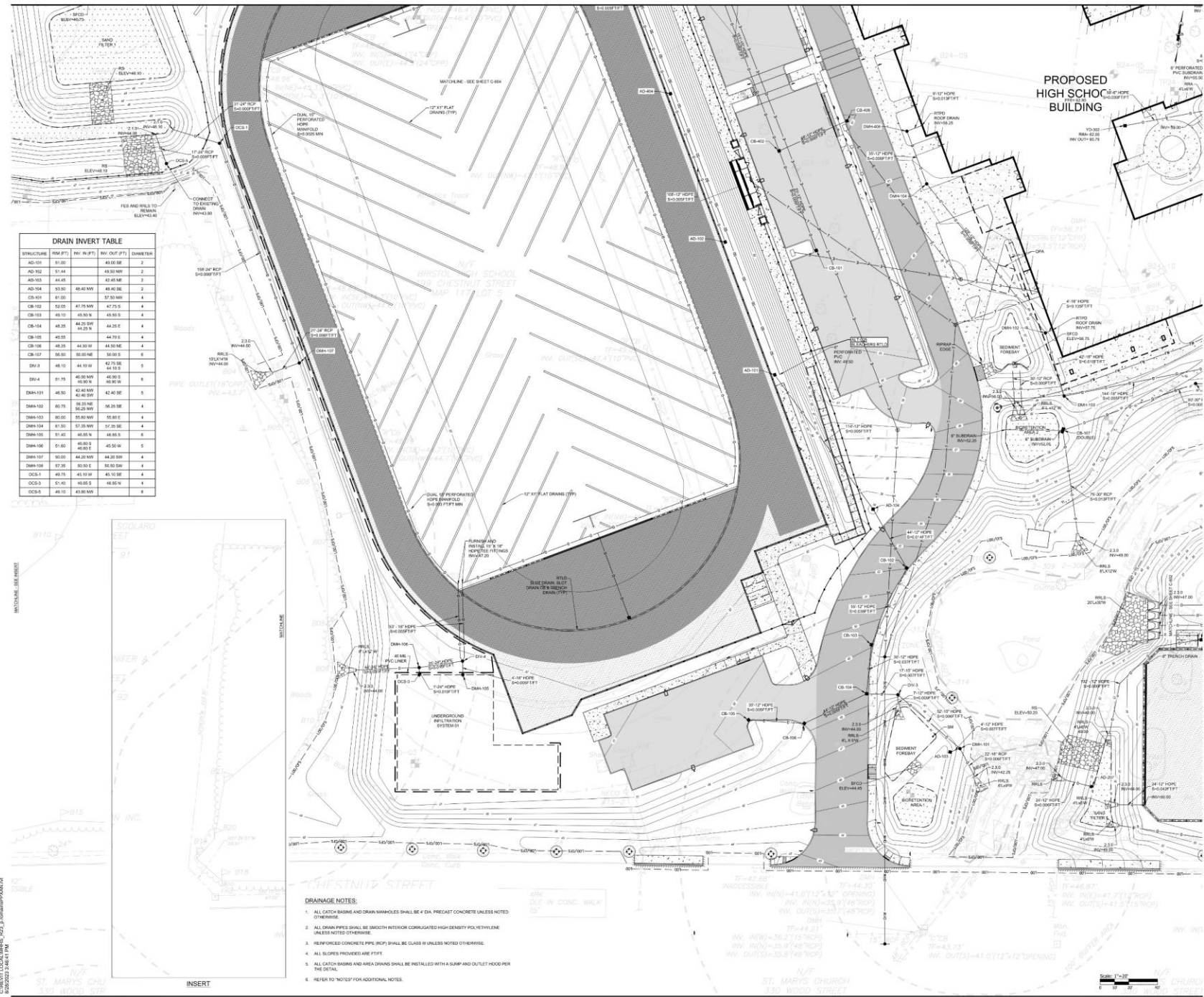
PEAK FLOW RATE REDUCED

1-YEAR 35%
25-YEAR 11.7%
100-YEAR 2.7%

Groundwater Recharge

- Providing a reduction in runoff volume to Silver Creek.
- 23% volume reduction for the property in the 1-yr storm and 11% volume reduction for the property in the 10-yr storm.



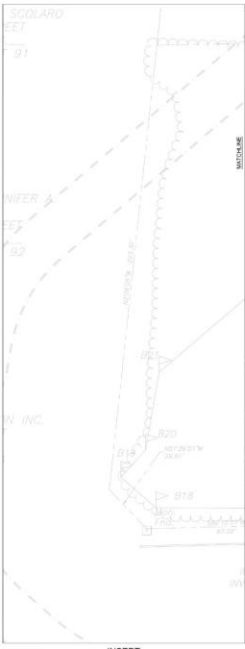


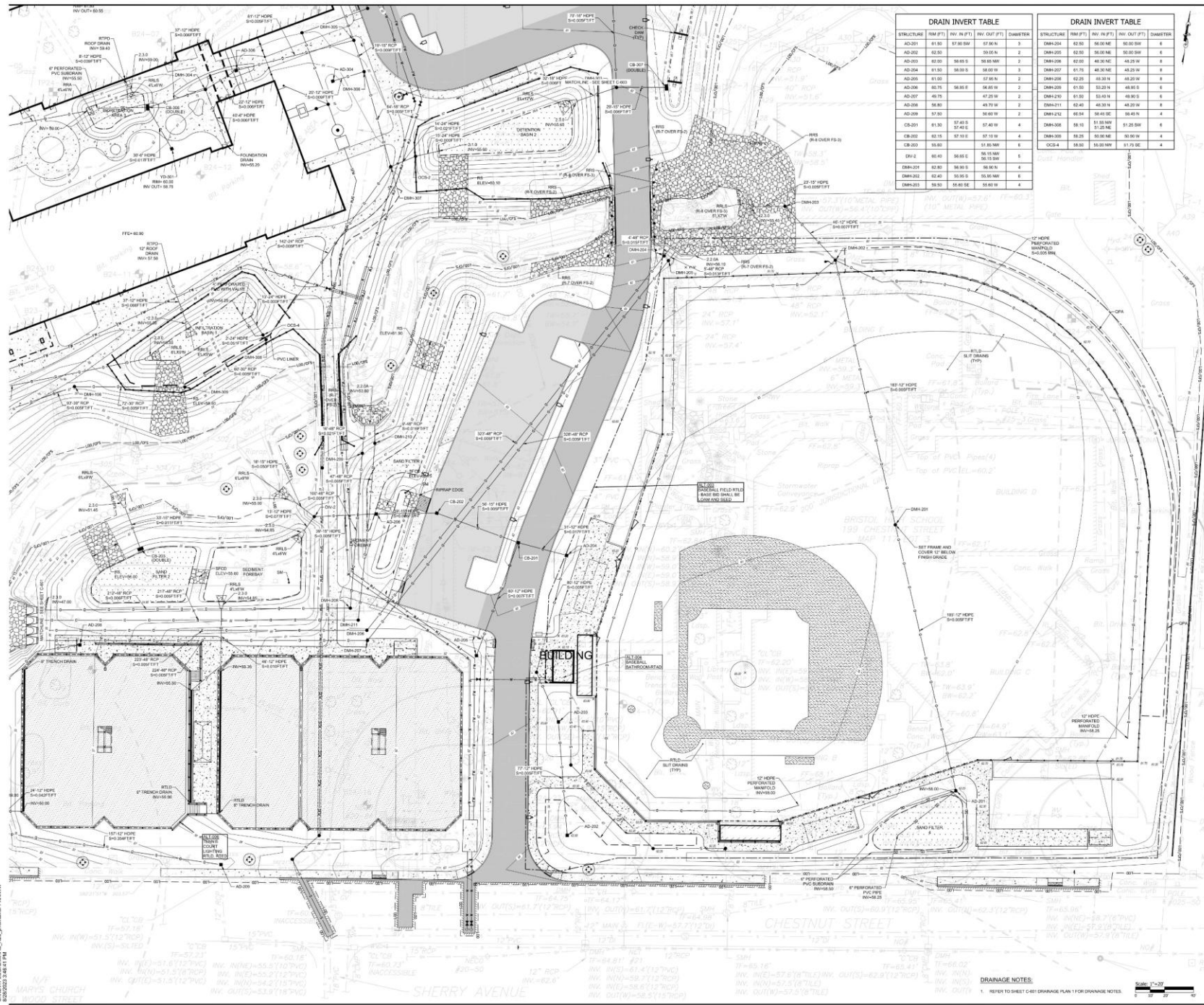
PROPOSED HIGH SCHOOL BUILDING

STRUCTURE	RM (FT)	INV. IN (FT)	INV. OUT (FT)	DIAMETER
AD-01	51.00	44.00 SW	44.00 SW	2
AD-02	51.44	44.50 NW	44.50 NW	2
AD-03	44.45	43.45 NE	43.45 NE	2
AD-04	53.50	45.45 NW	45.45 SW	2
CB-01	51.00	47.50 NW	47.50 NW	4
CB-02	52.00	47.50 NW	47.50 S	4
CB-03	49.10	45.10 W	45.10 S	4
CB-04	48.35	44.25 SW	44.25 E	4
CB-05	45.55	44.75 E	44.75 E	4
CB-06	48.35	44.30 W	44.30 NE	4
CB-07	56.50	50.50 NW	50.50 S	6
DM-3	48.10	44.10 W	44.10 NE	5
DM-4	51.75	46.50 NW	46.50 S	6
DM-131	45.50	42.40 NW	42.40 SE	5
DM-132	45.75	42.25 NW	42.25 SE	4
DM-133	45.00	42.00 NW	42.00 SE	4
DM-134	45.50	41.75 NW	41.75 SE	4
DM-135	45.40	41.65 NW	41.65 S	6
DM-136	45.40	41.65 E	41.65 W	5
DM-137	45.50	41.25 NW	41.25 SW	4
DM-138	47.25	43.50 E	43.50 NW	4
DCS-1	49.75	45.10 W	45.10 SE	4
DCS-2	51.40	46.85 S	46.85 N	4
DCS-3	49.10	43.85 NW	43.85 S	6

CURRENT LOCAL MAPS: 303_1_000000.PAN.WVT
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- DRAINAGE NOTES:**
1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4" DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
 2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
 3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS II UNLESS NOTED OTHERWISE.
 4. ALL SLOPES PROVIDED ARE FEET.
 5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SLUMP AND OUTLET HOOD PER THE DETAIL.
 6. REFER TO "NOTED" FOR ADDITIONAL NOTES.





DRAIN INVERT TABLE			
STRUCTURE	RM (FT)	INV. IN (FT)	INV. OUT (FT)
AD-201	41.00	47.00 NW	47.00 NW
AD-202	42.00	50.00 N	50.00 N
AD-203	43.00	56.65 S	56.65 NW
AD-204	41.50	58.00 S	58.00 W
AD-205	41.00	57.00 N	57.00 N
AD-206	42.75	56.00 E	56.00 E
AD-207	49.75	47.25 W	47.25 W
AD-208	58.00	49.75 W	49.75 W
AD-209	57.50	56.00 W	56.00 W
CB-201	41.25	57.40 E	57.40 W
CB-202	48.75	57.75 W	57.75 W
CB-203	59.00	51.00 NW	51.00 NW
DR-2	40.40	56.00 E	56.15 NW
DM-201	42.00	56.00 S	56.00 N
DM-202	42.40	55.00 S	55.00 W
DM-203	58.50	56.00 SE	55.00 W

DRAIN INVERT TABLE			
STRUCTURE	RM (FT)	INV. IN (FT)	INV. OUT (FT)
DM-204	42.00	56.00 NE	56.00 NW
DM-205	42.00	56.00 NE	56.00 NW
DM-206	42.00	48.25 NE	48.25 W
DM-207	41.75	48.25 NE	48.25 W
DM-208	42.25	48.25 NE	48.25 W
DM-209	41.50	53.25 N	48.25 W
DM-210	41.50	53.40 N	48.25 W
DM-211	42.40	48.25 N	48.25 W
DM-212	46.50	56.40 NE	56.40 N
DM-208	42.25	48.25 NE	51.25 NW
DM-209	42.25	48.25 NE	56.50 NW
OC-4	58.00	54.00 NW	51.75 SE

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DRAINAGE NOTES:
 1. REFER TO SHEET C-601 DRAINAGE PLAN 1 FOR DRAINAGE NOTES.





DRAINAGE NOTES:
 1. REFER TO SHEET C-601 DRAINAGE PLAN 1 FOR DRAINAGE NOTES.

DRAIN INVERT TABLE				
STRUCTURE	INV. (FT)	INV. (M)	INV. OUT (FT)	DIAMETER
AD-301	88.25	26.07	84.89 W	2
AD-302	88.20	26.93	83.85 E	2
AD-303	85.30	25.89	85.85 SE	2
AD-304	89.75	27.59	83.24 NE	2
AD-305	85.30	25.89	83.85 SE	2
AD-306	85.42	26.00	84.89 NE	2
CB-301	89.20	27.13	86.00 W	4
CB-302	85.85	26.06	83.35 SW	4
CB-303	85.35	26.00	85.85 SE	4
CB-304	85.30	25.90	85.55 SE	4
CB-305	89.25	27.15	86.20 E	4
CB-306	89.75	27.60	85.24 NE	4
CB-307	89.75	27.60	86.00 W	4
DMA-301(CM95)	82.80	25.44	84.16 N	4
DMA-302	81.15	24.83	83.85 E	4
DMA-303	82.10	25.02	85.81 SW	4
DMA-304	85.80	26.15	84.54 NE	4
DMA-305	82.70	25.50	83.85 NE	4
DMA-306	81.85	25.05	82.46 NE	4
DMA-307	81.08	24.51	82.88 SW	4
OCS-2	81.00	24.38	84.36 SW	4

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FLOODPLAIN

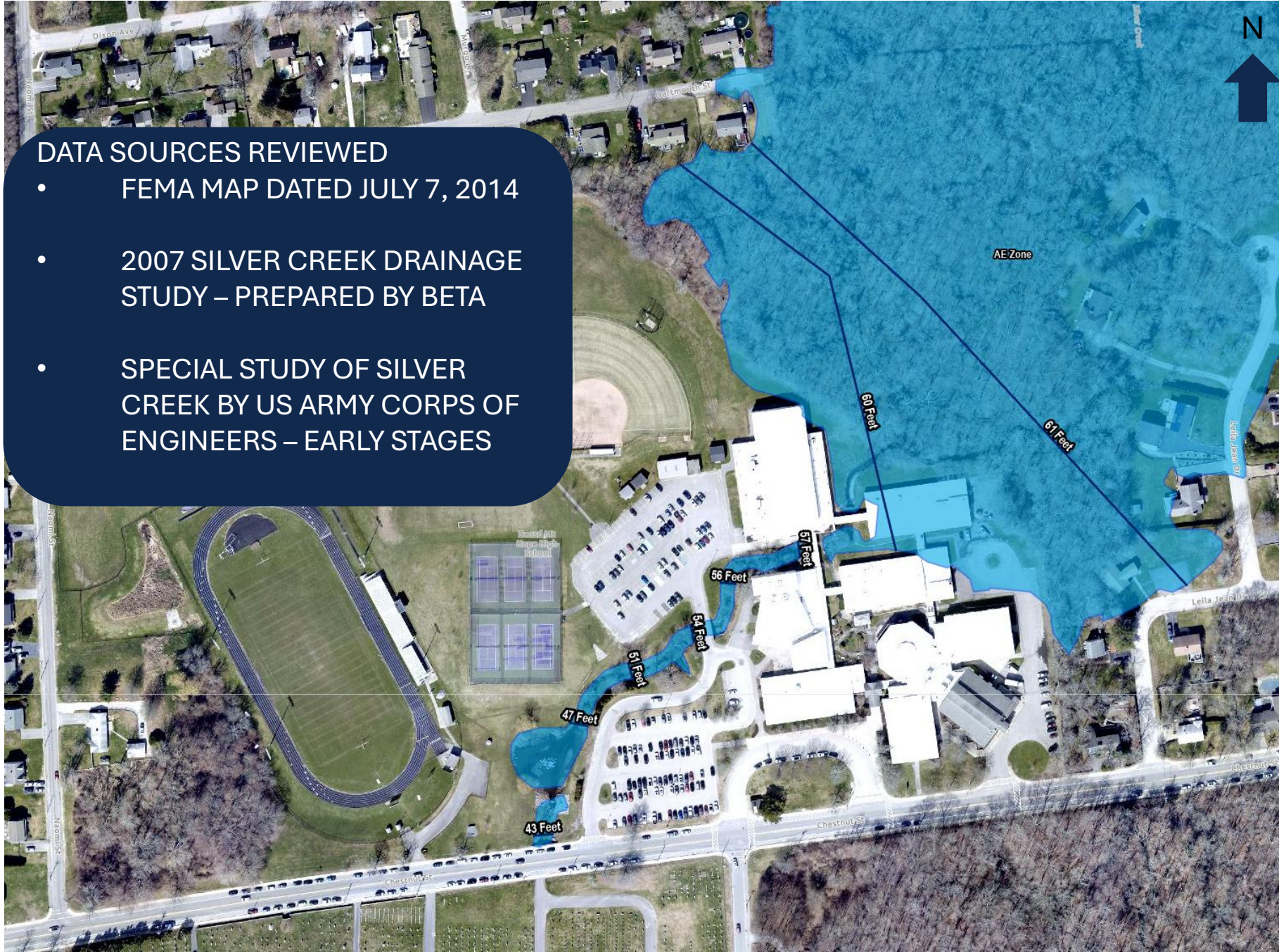


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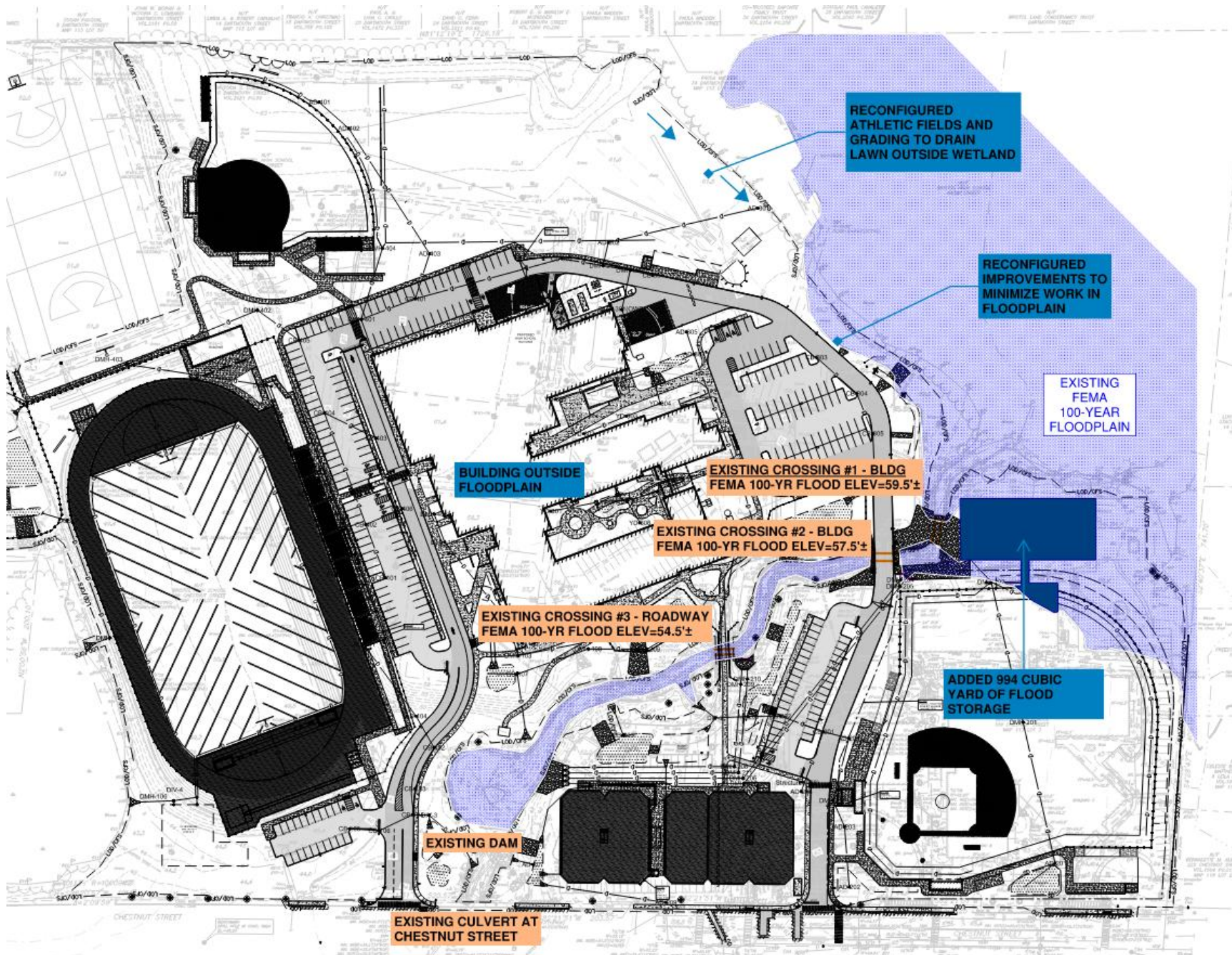
Floodplain- Existing Conditions



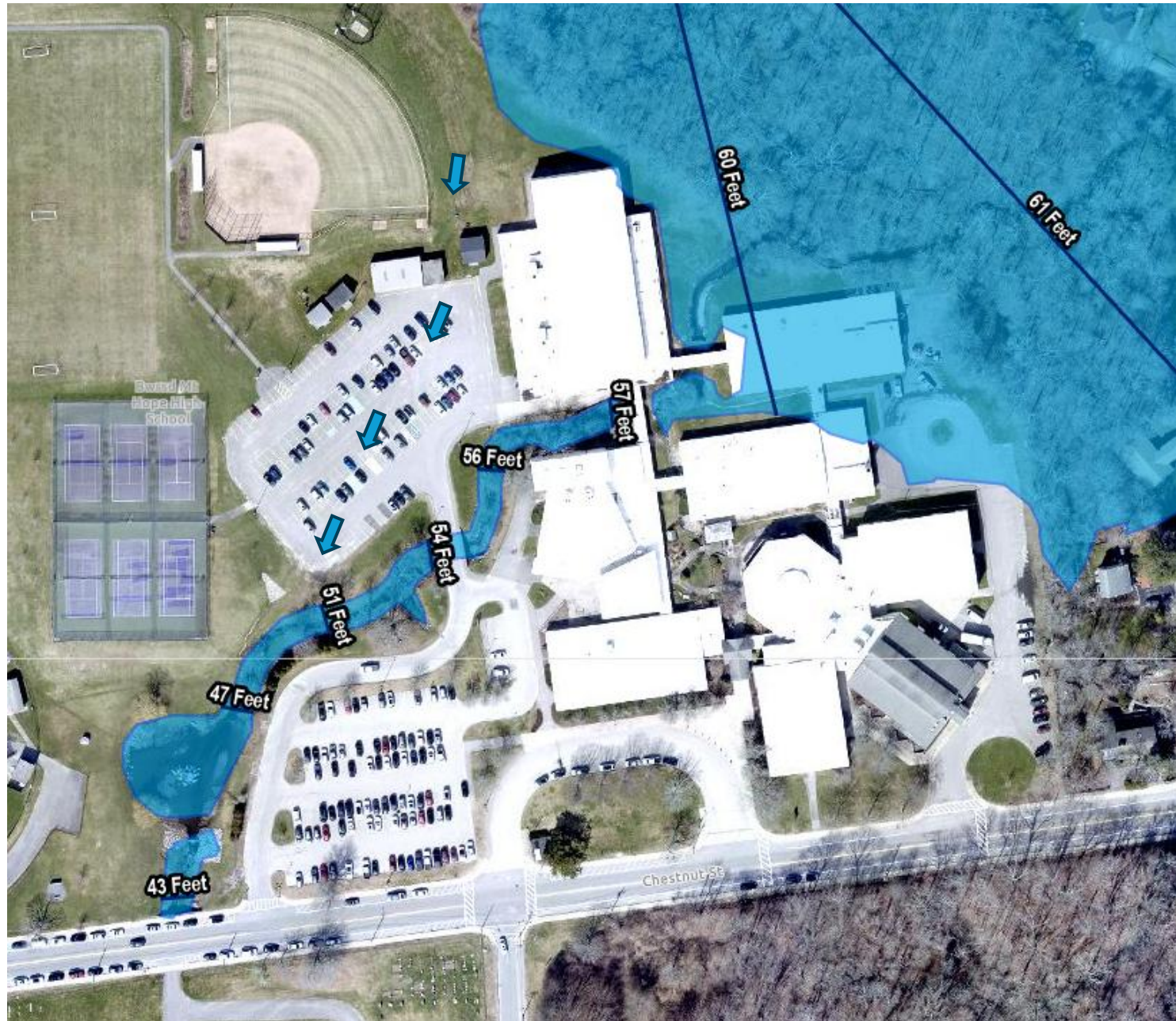
DATA SOURCES REVIEWED

- FEMA MAP DATED JULY 7, 2014
- 2007 SILVER CREEK DRAINAGE STUDY – PREPARED BY BETA
- SPECIAL STUDY OF SILVER CREEK BY US ARMY CORPS OF ENGINEERS – EARLY STAGES

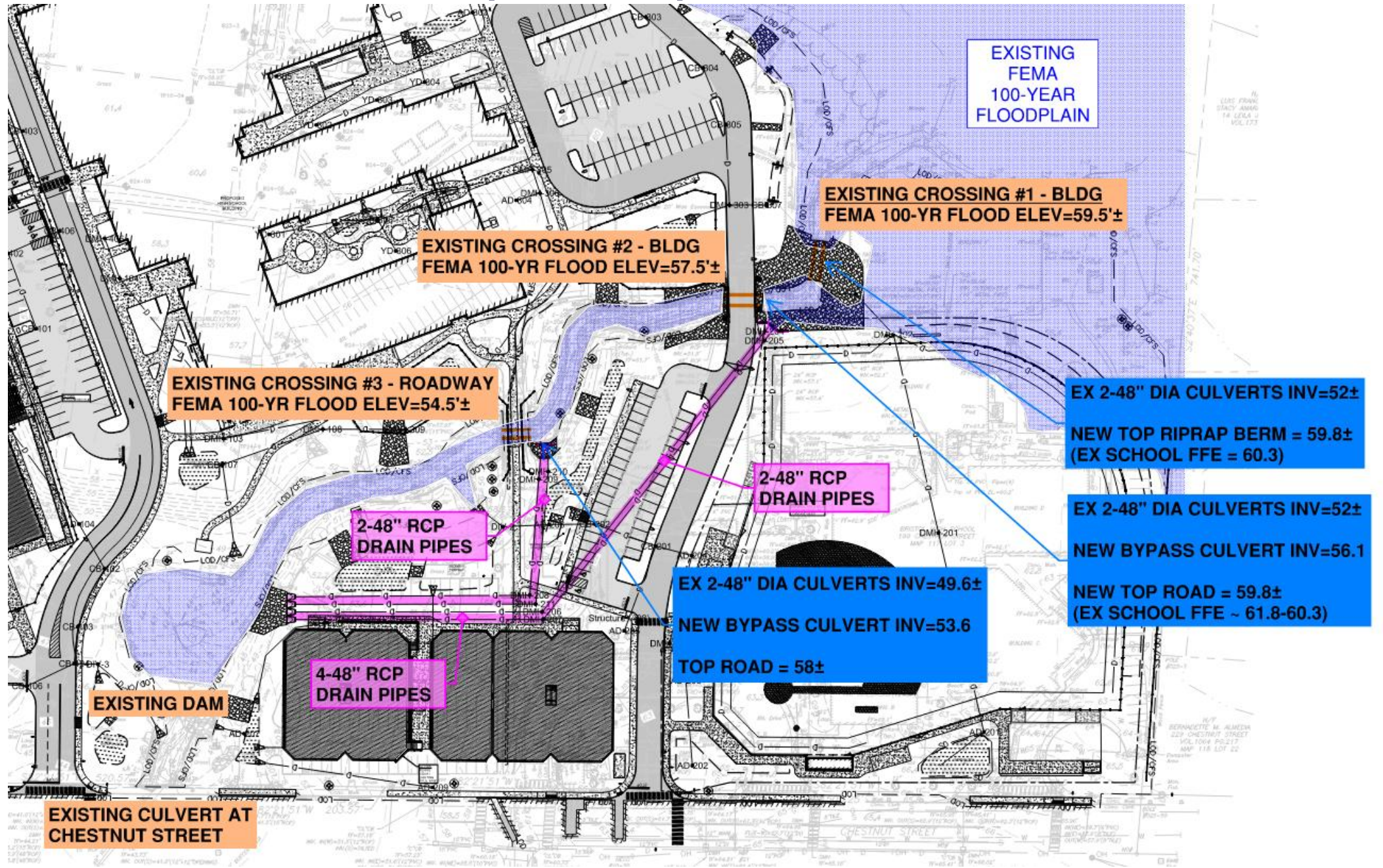
Floodplain- Proposed Conditions



Floodplain- Existing Conditions



Floodplain- Proposed Conditions



IRRIGATION



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MHHS IRRIGATION WELL UPDATE

- Aqueous: Irrigation and Water Resource Designer
 - Geosphere: Hydrogeologist (Well) Subconsultant to Aqueous
- Pare Corporation: Permitting Lead / Civil Engineer
 - Geotechnical Engineer, Coordinator of Geothermal Well Exploration
- Project Design Principals: Perkins Eastman, Traverse
- RIDEM: Water and Wetlands Department
 - *Pumping more than 10,000 gallons per day requires a Water Permit*

MHHS IRRIGATION WELL UPDATE



MHHS IRRIGATION WELL UPDATE

TEST BORE DETAILS

(AS PROVIDED BY T.J. OGDEN CO., INC.)

Site Name..... Mount Hope High School
Location..... Bristol, RI
Testing Firm T.J. Ogden Co., Inc.
Installed Date November 8, 2024
Borehole Diameter 8-3/4 inches, 0-50 ft
6 inches, 50-605 ft
Casing Permanent 6 inch steel casing from 0-50 ft
U-Bend Size 1-1/4 inch DR-9 HDPE U-Bend
U-Bend Depth Below Grade 605 ft
Grout Type GeoPro TG Select/PowerTEC
Grout Mixture 100 lb TG Select, 32 lb PowerTEC, 33 gal
water
Grouted Portion Entire bore

FORMATION LOG

FORMATION DESCRIPTION	DEPTH (FT)
Silty sand/clay/till	0'-50'
Dark grey shale	50'-500'
Shale	500'-605'

Note: Bore produced 3 gpm water at 175 ft; 4 gpm at 200 ft; 3 gpm at 300 ft; 2 gpm at 325 ft; 3 gpm at 415 ft.

IRRIGATION WELL

- HOW much does it cost?
 - If everything went perfectly, based on:
 - Getting at Least 80 gpm for Irrigation
 - Improving Iron Water Quality
 - Finding a Well that was Convenient Logistically (i.e., not in a road or building)
 - **Best Case: \$250,000** (Permitting, Drilling, Testing, Pumping, Filtration).

Mount Hope High School Project Annual BCWA Water Costs*			
Water Use (Average)	(from A1 ETHOS)	1,900,000	gallons per year
BCWA Meter Fees	(from A2 Rate Sheet)	\$ 2,100	per year (7 Months)
Average Water Cost	(see Monthly Tiered Rates)	\$ 21,196	per year (7 Months)
Total Average Water Cost	(paid to BCWA)	\$ 23,296	per 100 cubic feet
Annual Increase	(Escalator)	4.5%	BCWA Trend Data

Year	Annual Cost with Escalator	Cumulative Cost	Payback
0	\$ 23,296		Well and Pump Design, Hydrology, Permitting, Drilling, Hydrofracking, Testing, and Pump Station Installation Costs in the Range of Good ROI/Payback
1	\$ 24,345	\$ 47,641	
2	\$ 25,440	\$ 73,081	
3	\$ 26,585	\$ 99,666	
4	\$ 27,781	\$ 127,447	
5	\$ 29,032	\$ 156,479	
6	\$ 30,338	\$ 186,817	
7	\$ 31,703	\$ 218,521	Borderline ROI/Payback
8	\$ 33,130	\$ 251,650	
9	\$ 34,621	\$ 286,271	
10	\$ 36,179	\$ 322,450	
11	\$ 37,807	\$ 360,256	Ulterior Motives for Implementation: Regulation (No Access to Municipal Water), Desire for Greater Degree of Water Autonomy
12	\$ 39,508	\$ 399,764	
13	\$ 41,286	\$ 441,050	
14	\$ 43,144	\$ 484,194	
15	\$ 45,085	\$ 529,279	
16	\$ 47,114	\$ 576,393	
17	\$ 49,234	\$ 625,627	
18	\$ 51,450	\$ 677,077	
19	\$ 53,765	\$ 730,841	
20	\$ 56,184	\$ 787,026	

*Subject to Drought Restrictions, Not a Fully Autonomous Water Source

IRRIGATION WELL

- **HOW** much does it cost?

- If all contingencies occur:

- Getting a Well that is 30 gpm (Only 15 gpm found so far)
- Install a 50,000-gallon tank to harvest 30 gpm during day to pump out 80 gpm overnight

- **Worst Case: \$800,000 - \$1,000,000**

Water Use (Average)	(from A1 ETHOS)	1,900,000	gallons per year
BCWA Meter Fees	(from A2 Rate Sheet)	\$ 2,100	per year (7 Months)
Average Water Cost	(see Monthly Tiered Rates)	\$ 21,196	per year (7 Months)
Total Average Water Cost	(paid to BCWA)	\$ 23,296	per 100 cubic feet
Annual Increase	(Escalator)	4.5%	BCWA Trend Data

Year	Annual Cost with Escalator	Cumulative Cost	Payback
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1	\$ 24,345	\$ 47,641	
2	\$ 25,440	\$ 73,081	
3	\$ 26,585	\$ 99,666	
4	\$ 27,781	\$ 127,448	
5	\$ 29,032	\$ 156,479	
6	\$ 30,338	\$ 186,817	
7	\$ 31,703	\$ 218,521	Borderline ROI/Payback
8	\$ 33,130	\$ 251,650	
9	\$ 34,621	\$ 286,271	
10	\$ 36,179	\$ 322,450	
11	\$ 37,807	\$ 360,256	
12	\$ 39,508	\$ 399,764	Ulterior Motives for Implementation: Regulation (No Access to Municipal Water), Desire for Greater Degree of Water Autonomy
13	\$ 41,286	\$ 441,050	
14	\$ 43,144	\$ 484,194	
15	\$ 45,085	\$ 529,279	
16	\$ 47,114	\$ 576,393	
17	\$ 49,234	\$ 625,627	
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*Subject to Drought Restrictions, Not a Fully Autonomous Water Source

MUNICIPAL WATER – ANNUAL INCREASE



Home How Do I? ▾ About Us ▾ Customer Service ▾ Your Drinking Water ▾ Projects ▾ Pawtucket Pipeline Project

FY 2023 Comprehensive Annual report

↑ ↓ Page 5 / 92
 – + Page Fit
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ITEM	FY2023	FY2022	FY2021	FY2020	FY2019	FY2018
# Customers:						
Residential	16,224	16,187	16,141	16,068	15,944	15,896
Commercial	1,060	1,056	1,057	1,052	1,058	1,051
Industrial	8	8	8	8	8	8
Municipal	89	103	85	85	101	81
Total:	17,381	17,354	17,291	17,213	17,111	17,036
# Employees (FTE's)*:	33	33	34	34	33.25	33.5
Consumption: (Thousands of Gallons)						
Residential	741,515	753,177	838,030	745,556	792,096	741,936
Commercial	195,180	190,196	187,366	209,581	208,028	215,776
Industrial	1,682	1,481	1,322	1,331	1,460	1,837
Municipal	18,362	20,397	20,845	22,443	17,056	18,451
Total:	956,739	965,251	1,047,563	978,911	1,018,640	978,000
Unaccounted for Water (%):	13%	9.97%	9.80%	10.0%	12.0%	11.0%
Rate Increases (%):	4%	3.5%	10.00%	4.50%	3.25%	3.25%

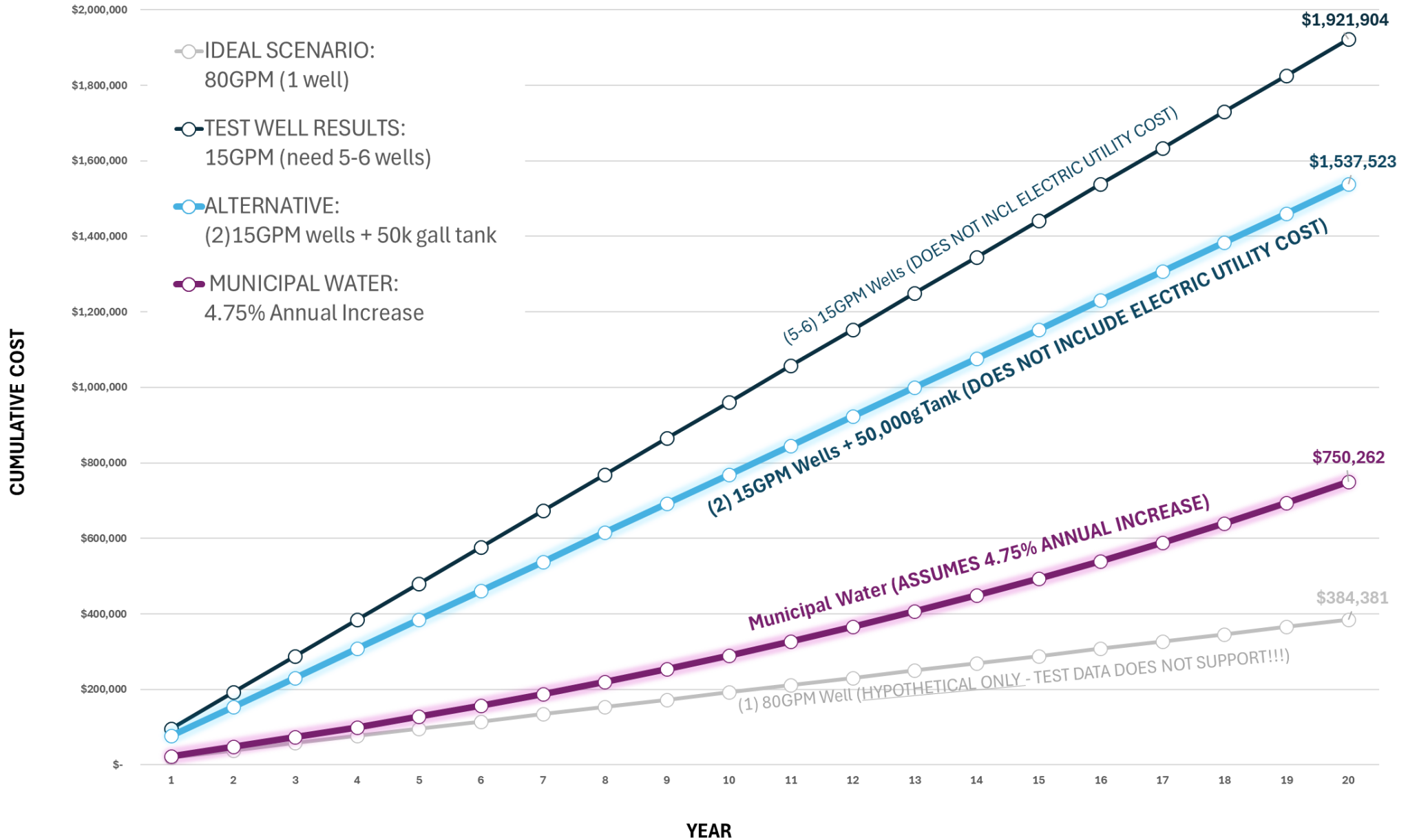
= 4.75% INCREASE

(PRIOR 6 YEARS AVG)

LIFE CYCLE COST ANALYSIS – SCENARIO #2 – FINANCED

	IRRIGATION WELL						MUNICIPAL WATER	
Year	IDEAL SCENARIO: 80GPM (1 well)		TEST WELL RESULTS: 15GPM (need 5-6 wells)		ALTERNATIVE: (2)15GPM wells + 50k gall tank		MUNICIPAL WATER: 4.75% Annual Increase	
	Annual	Cumulative	Annual	Cumulative	Annual	Cumulative	Annual	Cumulative
Principal	\$ 250,000		\$ 1,250,000		\$ 1,000,000			
1	\$ 19,219	\$ 19,219	\$ 96,095	\$ 96,095	\$ 76,876	\$ 76,876	\$ 23,296	\$ 23,296
2	\$ 19,219	\$ 38,438	\$ 96,095	\$ 192,190	\$ 76,876	\$ 153,752	\$ 24,403	\$ 47,699
3	\$ 19,219	\$ 57,657	\$ 96,095	\$ 288,286	\$ 76,876	\$ 230,628	\$ 25,562	\$ 73,260
4	\$ 19,219	\$ 76,876	\$ 96,095	\$ 384,381	\$ 76,876	\$ 307,505	\$ 26,776	\$ 100,036
5	\$ 19,219	\$ 96,095	\$ 96,095	\$ 480,476	\$ 76,876	\$ 384,381	\$ 28,048	\$ 128,084
6	\$ 19,219	\$ 115,314	\$ 96,095	\$ 576,571	\$ 76,876	\$ 461,257	\$ 29,380	\$ 157,464
7	\$ 19,219	\$ 134,533	\$ 96,095	\$ 672,666	\$ 76,876	\$ 538,133	\$ 30,776	\$ 188,239
8	\$ 19,219	\$ 153,752	\$ 96,095	\$ 768,761	\$ 76,876	\$ 615,009	\$ 32,237	\$ 220,477
9	\$ 19,219	\$ 172,971	\$ 96,095	\$ 864,857	\$ 76,876	\$ 691,885	\$ 33,769	\$ 254,245
10	\$ 19,219	\$ 192,190	\$ 96,095	\$ 960,952	\$ 76,876	\$ 768,761	\$ 35,373	\$ 289,618
11	\$ 19,219	\$ 211,409	\$ 96,095	\$ 1,057,047	\$ 76,876	\$ 845,638	\$ 37,053	\$ 326,671
12	\$ 19,219	\$ 230,628	\$ 96,095	\$ 1,153,142	\$ 76,876	\$ 922,514	\$ 38,813	\$ 365,484
13	\$ 19,219	\$ 249,847	\$ 96,095	\$ 1,249,237	\$ 76,876	\$ 999,390	\$ 40,656	\$ 406,140
14	\$ 19,219	\$ 269,067	\$ 96,095	\$ 1,345,333	\$ 76,876	\$ 1,076,266	\$ 42,588	\$ 448,728
15	\$ 19,219	\$ 288,286	\$ 96,095	\$ 1,441,428	\$ 76,876	\$ 1,153,142	\$ 44,611	\$ 493,338
16	\$ 19,219	\$ 307,505	\$ 96,095	\$ 1,537,523	\$ 76,876	\$ 1,230,018	\$ 46,730	\$ 540,068
17	\$ 19,219	\$ 326,724	\$ 96,095	\$ 1,633,618	\$ 76,876	\$ 1,306,894	\$ 48,949	\$ 589,017
18	\$ 19,219	\$ 345,943	\$ 96,095	\$ 1,729,713	\$ 76,876	\$ 1,383,771	\$ 51,274	\$ 640,292
19	\$ 19,219	\$ 365,162	\$ 96,095	\$ 1,825,808	\$ 76,876	\$ 1,460,647	\$ 53,710	\$ 694,001
20	\$ 19,219	\$ 384,381	\$ 96,095	\$ 1,921,904	\$ 76,876	\$ 1,537,523	\$ 56,261	\$ 750,262
	\$ 384,381		\$ 1,921,904		\$ 1,537,523		\$ 750,262	
	* WELL COSTS ANNUAL CALCULATION BASED ON BORROWED FUNDS - DATA ASSUMES 4.5% FOR 20 YEARS							
	** MUNICIPAL WATER COSTS ASSUME 4.75% ANNUAL INCREASE BASED UPON PRIOR 6 YEARS DATA FROM FY2023 BCWA REPORT							
	*** ELECTRIC UTILITY COSTS NOT CAPTURED IN EITHER SCENARIO (ELECTRIC FOR IRRIGATION WELL WILL BE HIGHER)							
	FY 2023 Comprehensive Annual report – Bristol County Water Authority							

LIFE CYCLE COST ANALYSIS – SCENARIO #2 – FINANCED



CONSTRUCTION LOGISTICS

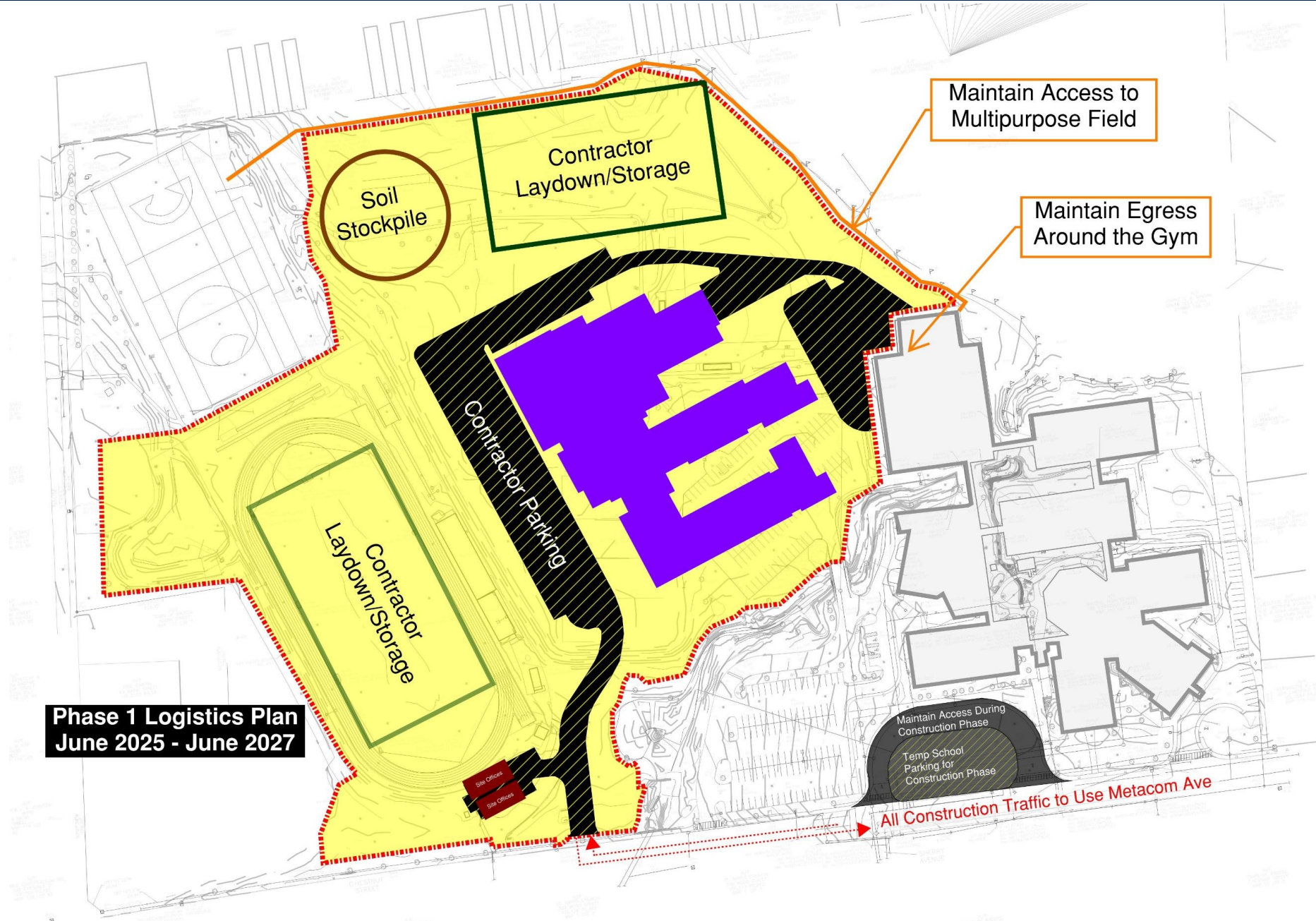


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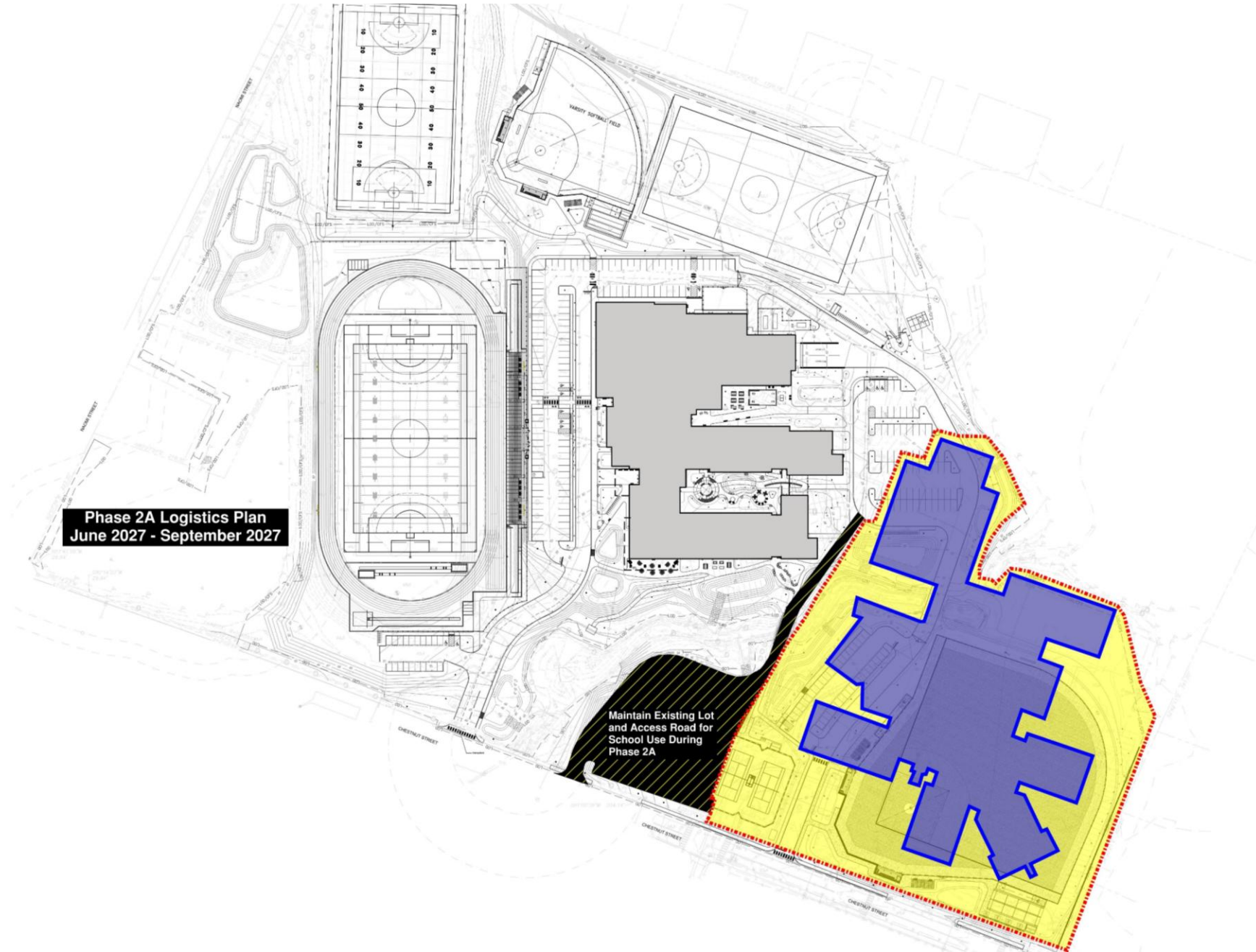
EST. 1971

PERKINS —
EASTMAN

MHHS CONSTRUCTION LOGISTICS



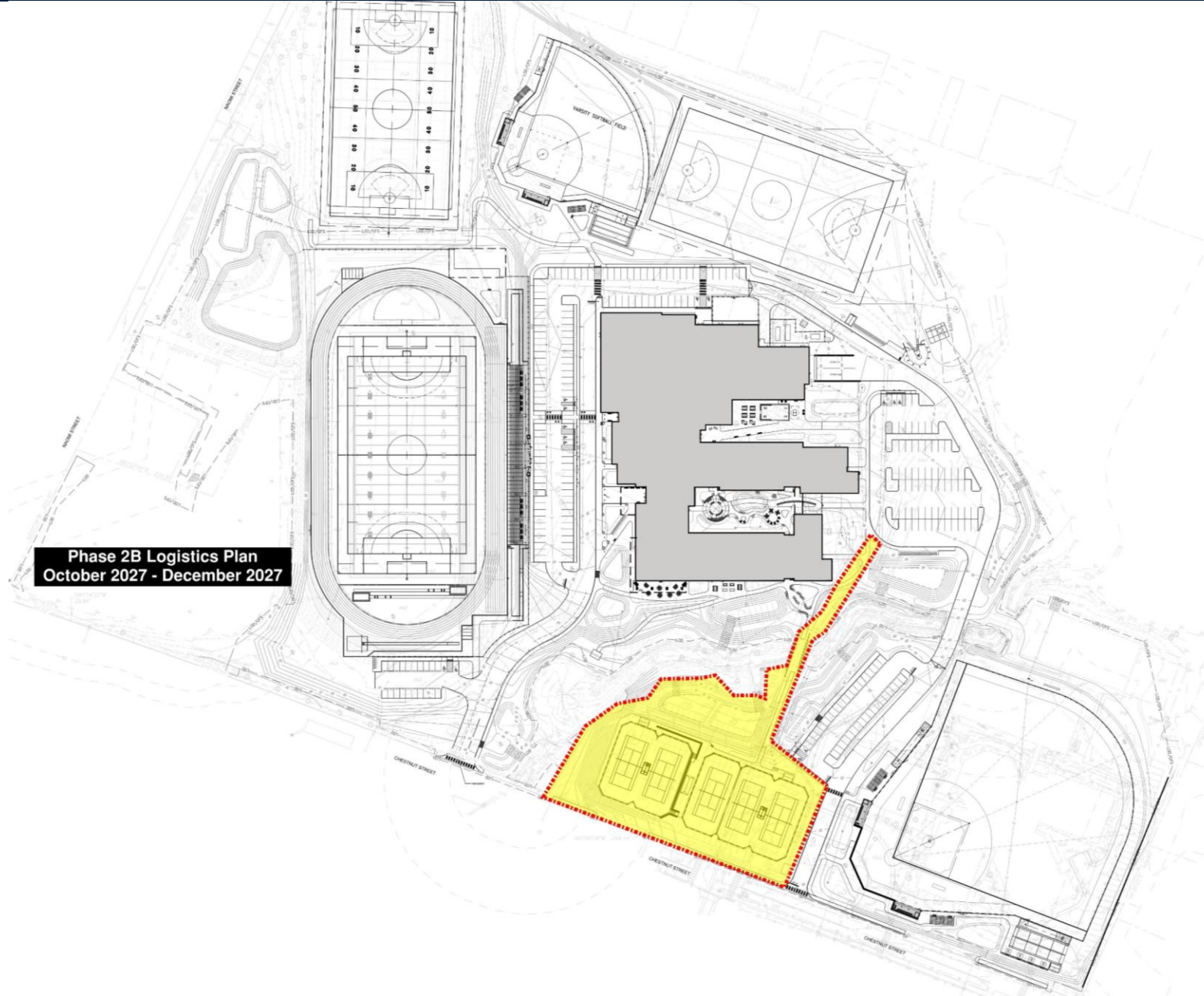
MHHS CONSTRUCTION LOGISTICS



Phase 2A Logistics Plan
June 2027 - September 2027

Maintain Existing Lot
and Access Road for
School Use During
Phase 2A

MHHS CONSTRUCTION LOGISTICS



CONSTRUCTION ALTERNATES



PMA Consultants

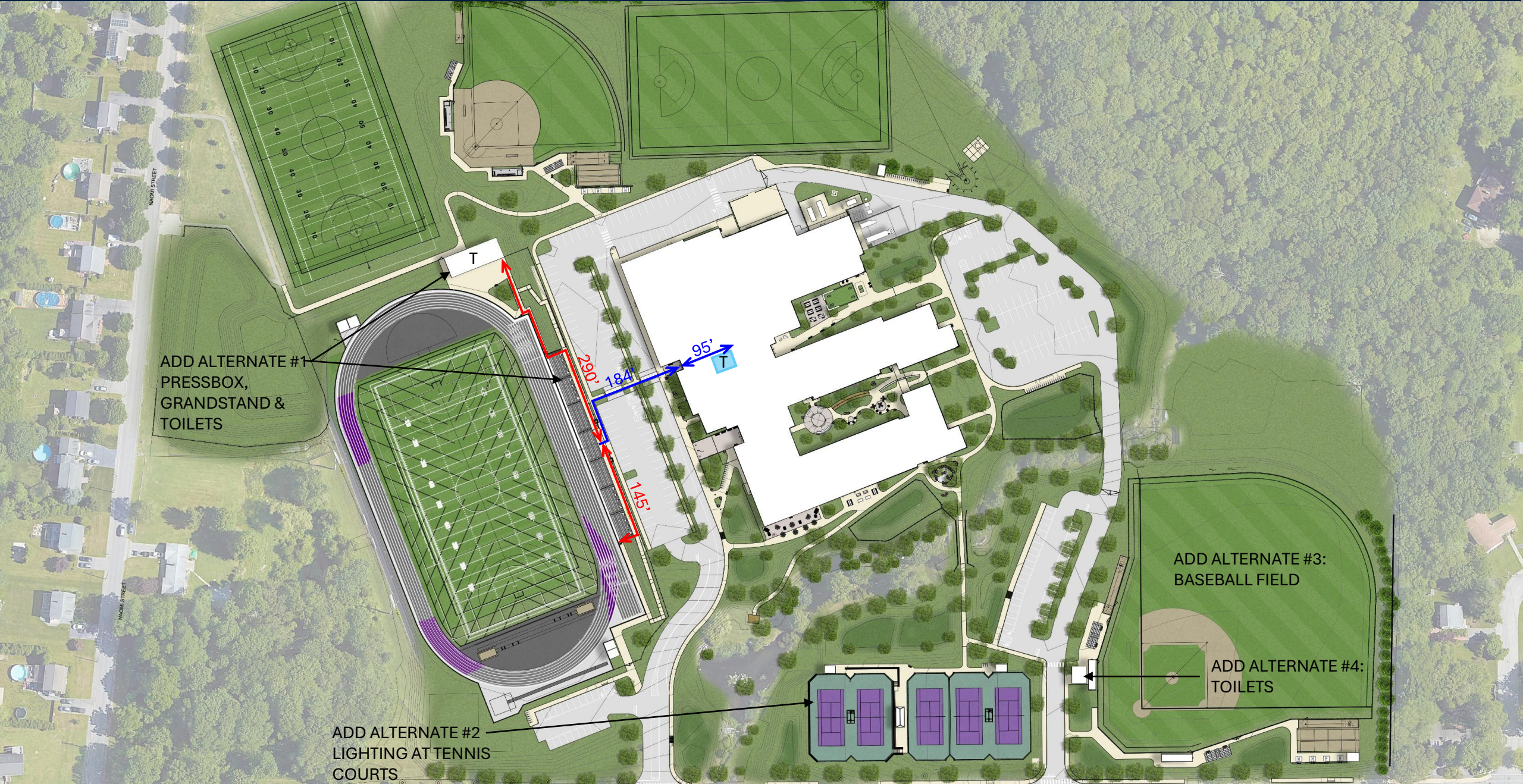
EST. 1971

PERKINS —
EASTMAN

ADD ALTERNATES

- ADD ALTERNATE #1 ADD PRESS BOX, GRANDSTAND AND TOILET FACILITY AT THE TRACK AND FIELD
(INFRASTRUCTURE IS BASE SCOPE FOR PRESS BOX AND TOILET BUILDING IS BASE SCOPE)
- ADD ALTERNATE #2 ADD LIGHTING AT THE TENNIS COURTS
(INFRASTRUCTURE IS BASE SCOPE)
- ADD ALTERNATE #3 ADD BASEBALL FIELD INCLUDING IRRIGATION, FIELD FENCING, BACKSTOPS, DUGOUTS,
BULLPEN AND SCOREBOARD (BASE DESIGN IS LOAM AND SEED)
- ADD ALTERNATE #4 ADD TOILET FACILITY BUILDING TO BASEBALL FIELD
(INFRASTRUCTURE IS BASE SCOPE)
- ADD ALTERNATE #5 UTILIZE FULL GEOTHERMAL SYSTEM – REPLACE 100% OF AIR SOURCE WITH GEOTHERMAL
WELLS. OMIT MECHANICAL MEZZANINE AND 2 SKYLIGHTS. ADD CURTAINWALL IN NORTH
FACADE @ ART STUDIOS.

SITE PLAN



ADD ALTERNATE #1
PRESSBOX,
GRANDSTAND &
TOILETS

ADD ALTERNATE #2
LIGHTING AT TENNIS
COURTS

ADD ALTERNATE #3:
BASEBALL FIELD

ADD ALTERNATE #4:
TOILETS

290'
184'
145'

95'

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NAOMI STREET

NAOMI STREET

ADD ALTERNATE #3:
BASEBALL FIELD

ADD ALTERNATE #4:
TOILETS

EXISTING SITE PLAN



A scenic view of a lake at dusk. The sky is a mix of deep blue and orange, with clouds catching the low light. Several sailboats are anchored in the water. In the foreground, a wooden picnic table and a bench sit on a grassy shore. A large tree is on the left side of the frame. The overall mood is peaceful and serene.

THANK YOU



PMA Consultants

**PERKINS —
EASTMAN**