

# ATHLETIC UPGRADES ROOSEVELT HIGH SCHOOL

Main Contractor: **BYROM-DAVEY, INC.**



CPM Scheduling Consultant: HSE CONTRACTORS INC.

Baseline Narrative (Data Date: Dec-19-2022)

**NTP**

**Dec 19, 2022**

**Final Completion**

**Mar 6, 2026**

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## 1. Project Information

### 1.1. Project Description

This project's work scope is the upgrade of the athletics facilities at Roosevelt High School. The main components that are going to be upgraded in this project are the Football Stadium and the Baseball Stadium.

### 1.2. Project Location



*Project Location*

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### 1.3. Scope of Work

The project scope involves a series of activities aimed at constructing a sports facility. It includes tasks such as mobilizing the construction site, conducting site assessments, hazardous material mitigation, demolition, grading, excavation, wall installation, electrical work, drainage system installation, landscaping, and various structural and finishing tasks for bleachers, concession buildings, ticket booths, and other facilities. The project encompasses a comprehensive range of construction and infrastructure activities to create a fully functional sports venue, from initial site preparation to final finishing touches.

## 2. Project Phasing & Sequencing

### 2.1. Procurement

This phase of the project contains the activities for the procurement cycle for main project elements which is divided into Prepare and Submit, Review and Approve, Fabricate and Deliver. Procurement is a major stage for this project due to the long lead time for the arrival of the material delivery of the building which is driving the start of the construction phase as a consequence.

### 2.2. Construction

The construction project will commence with pot holing, initial site preparations, grading, retaining wall locations/installation and utility installations. The first phase will focus on the Football Stadium area which consist of home and visitor's bleachers, track & field, three (3) concession buildings, six (6) MUSCO pole sports lighting, site improvements, maintain existing fire lane access, ancillary infrastructure improvements and signage. After completing the first phase football stadium and district acceptance of the work, our team will start phase 2 the baseball stadium project. Mobilizing in that area the same intended scope as mentioned above; will begin with special attention to the existing wall at Mott & 6th street (which is currently yielding) with a plan to be approved by district to retrofit or replace. Additionally, the 60-foot-high netting poles and 70+ foot high MUSCO poles, and site drainage improvements will be coordinated with special attention to the existing wall at Mott & 6th streets.

### 3. Key Dates

Item	Start Date	Finish Date
MS01 - NOTICE TO PROCEED WITH PRECONSTRUCTION SERVICES (NTP-P)	Dec/19/2022	
MS04 - NOTICE TO PROCEED WITH DESIGN (NTP-D)	Dec/19/2022	
30 CALENDAR DAYS AFTER THE EFFECTIVE DATE OF THE NTP-P	Dec/19/2022	Jan/16/2023
149 CALENDAR DAYS FROM NTP-D	Dec/19/2022	May/15/2023
60 CALENDAR DAYS AFTER THE EFFECTIVE DATE OF THE NTP-P	Dec/19/2022	Feb/15/2023
MS02 - FIELD VERIFICATION OF SITE AND REFERENCE DOCUMENTS	Jan/17/2023	
MS06 - PRELIMINARY CONSTRUCTION SCHEDULE	Jan/17/2023	
7 CALENDAR DAYS OF COMPLETION OF MILESTONE 2-MS #02	Jan/17/2023	Jan/22/2023
MS05 - PRE-CONSTRUCTION SCHEDULING CONFERENCE WITH OAR	Jan/23/2023	
MS03 - PHASING PLAN & SITE USAGE / LOGISTICS PLAN	Feb/16/2023	
MS08 - DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS	May/16/2023	
30 CALENDAR DAYS AFTER DSA SUBMITTAL OF 100% DOCUMENTS-MS #08	May/16/2023	Jun/13/2023
180 CALENDAR DAYS AFTER DSA SUBMITTAL OF 100% DOCUMENTS-MS #08	May/16/2023	Nov/10/2023
MS07 - PROPOSED BASELINE SCHEDULE	Jun/14/2023	
30 CALENDAR DAYS AFTER THE PROPOSED SCHEDULE MS #07	Jun/14/2023	Jul/12/2023
MS10 - BASELINE CONSTRUCTION SCHEDULE COMPLETE	Jul/13/2023	
DESIGN BUILD CONTRACTOR REVISE & RESUBMIT 100% CD'S	Oct/13/2023	Nov/10/2023
MS09 - DSA REVIEW OF DOCUMENTS	Nov/11/2023	Nov/20/2023
DESIGN BUILD CONTRACTOR REVISE AND RESUBMIT 100% CD	Nov/21/2023	Nov/30/2023
30 CALENDAR DAYS FROM THE RELEASE OF BACK CHECK	Nov/21/2023	Dec/09/2023
MS11 - DSA APPROVAL OF PROJECT	Dec/10/2023	
14 CALENDAR DAYS AFTER DSA APPROVAL OF PLANS	Dec/10/2023	Dec/22/2023
MS12 - NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C)	Dec/23/2023	
MS13 - FULL COMMISSIONING OF INSIDE BUILDING SYSTEMS BY OWNER'S AGENT	Aug/30/2025	Sep/13/2025
MS13 - FULL COMMISSIONING OF OUTSIDE BUILDING SYSTEMS BY OWNER'S AGENT	Sep/14/2025	Sep/27/2025
MS14 - DISTRICT CONTROLLED SCHEDULE CONTINGENCY ALLOWANCE	Sep/28/2025	Oct/12/2025
MS15 - WEATHER RAIN IMPACT ALLOWANCE	Oct/13/2025	Dec/07/2025
MS16 - SUBSTANTIAL COMPLETION		Dec/07/2025
10 CALENDAR DAYS AFTER SUBSTANTIAL COMPLETION	Dec/08/2025	Dec/16/2025
30 CALENDAR DAYS AFTER SUBSTANTIAL COMPLETION	Dec/08/2025	Jan/05/2026
90 CALENDAR DAYS AFTER SUBSTANTIAL COMPLETION	Dec/08/2025	Mar/06/2026
MS17 - OWNERS MOVE-IN		Dec/16/2025
MS18 - CONSTRUCTION CLOSEOUT		Jan/05/2026
MS19 - FINAL CONSTRUCTION COMPLETION OF PROJECT		Jan/05/2026
MS20 - FINAL DESIGN CLOSEOUT		Jan/05/2026
MS21 - DSA CERTIFICATION BY PHASE		Mar/06/2026

## 4. WBS

The below figure is extracted from the baseline schedule of the project on the P6 software and shows all WBS levels. The table reflects how the contractor can manage all project components and monitor their progress separately and/ or collectively. The Milestones section includes all important milestones for the project. The Preconstruction & Procurement section includes major submittals required by the contract and specifications. The Procurement section includes the procurement cycle for important materials arranged by stage. And the Construction Section is divided into Football stadium which is broken down into Bleachers home and Visitors side, Home Concession and Toilet Building, Home Ticket booth, Visitor Ticket Booth and Concession & Toilet and finally the Baseball Stadium.

		ROOSEVELT HIGH SCHOOL FOOTBALL STADIUM WBS			BYROM-DAVEY, INC.	
Activity ID	Activity Name	Original Dura	Start	Finish	Budgeted Total	
	<b>ROOSEVELT HIGH SCHOOL FOOTBALL STADIUM</b>	84	Dec/19/22	Mar/06/26	\$27,260,501	
	<b>MILESTONES</b>	117	Dec/19/22	Mar/06/26	\$0.0	
	DESIGN PACKAGE 1	108	Dec/19/22	Dec/07/25	\$1,905,211	
	SUBMITTALS / PROCUREMENT	95	Dec/26/23	Mar/30/24	\$0.0	
	GENERAL CONDITIONS	73	Dec/19/22	Dec/05/25	\$1,290,290	
	SWPPP	48	Dec/26/23	Dec/05/25	\$115,000	
	<b>CONSTRUCTION</b>	45	Dec/27/23	Sep/17/25	\$23,950,000	
	<b>FOOTBALL STADIUM</b>	29	Dec/27/23	Feb/06/25	\$16,509,500	
	BLEACHERS (HOME SIDE)	22	Feb/16/24	Jan/06/25	\$2,210,000	
	BLEACHERS (VISITOR SIDE)	22	Feb/16/24	Jan/09/25	\$1,113,000	
	HOME CONCESSION & TOILET BUILDING	10	Aug/12/24	Jan/21/25	\$1,804,000	
	HOME TICKET BOOTH	8	Jun/26/24	Oct/18/24	\$704,000	
	VISITOR TICKET BOOTH, CONCESSION & TOILET	11	Jun/28/24	Dec/11/24	\$1,744,000	
	<b>BASEBALL STADIUM</b>	15	Feb/07/25	Sep/17/25	\$7,440,500	

*Project WBS*

## 5. Calendars

This section contains details on the calendars which are assigned on all activities. The calendar usage and assignment demonstrate that the builder has taken into account all official Weekends specified by the contract, and has scheduled the project activities efficiently to minimize any risk on project completion. The Calendars used in this project are Default Calendar, PROJECT CALENDAR 7X8 and PROJECT CALENDAR 5 DAYS / WK 8 HRS / DAY.

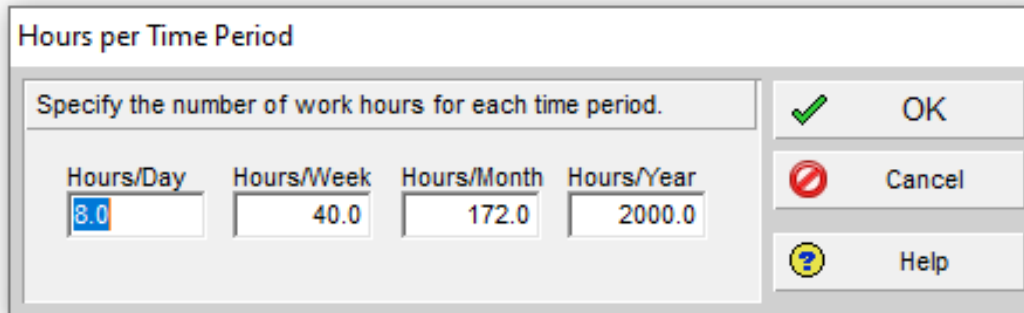
PROJECT CALENDAR 5 DAYS / WK 8 HRS / DAY: the calendar is based on a 5-day week and recognizes weekends as non-working days and is assigned to construction activities. District recognized holidays and weather days are as follows:

- New Year's Day
- Martin Luther King Day
- Presidents' Day (San Diego Only)
- ½ day on Good Friday
- Memorial Day
- Juneteenth
- Independence Day
- Labor Day
- Veterans Day
- Thanksgiving Day
- Friday after Thanksgiving
- Christmas Eve
- Christmas Day
- New Year's Eve (1/2 day)

PROJECT CALENDAR 7X8: the calendar is based on a 7-day week work 8 hours a day and it's assigned to milestones and design package activities.

## 6. Working hours

The working hours are 8 hours per day, totalling 40 hours per week and 172 hours per month. These work durations have been used throughout all scheduled construction activities to calculate durations and remaining time to complete.




Hours/Day	Hours/Week	Hours/Month	Hours/Year
8.0	40.0	172.0	2000.0



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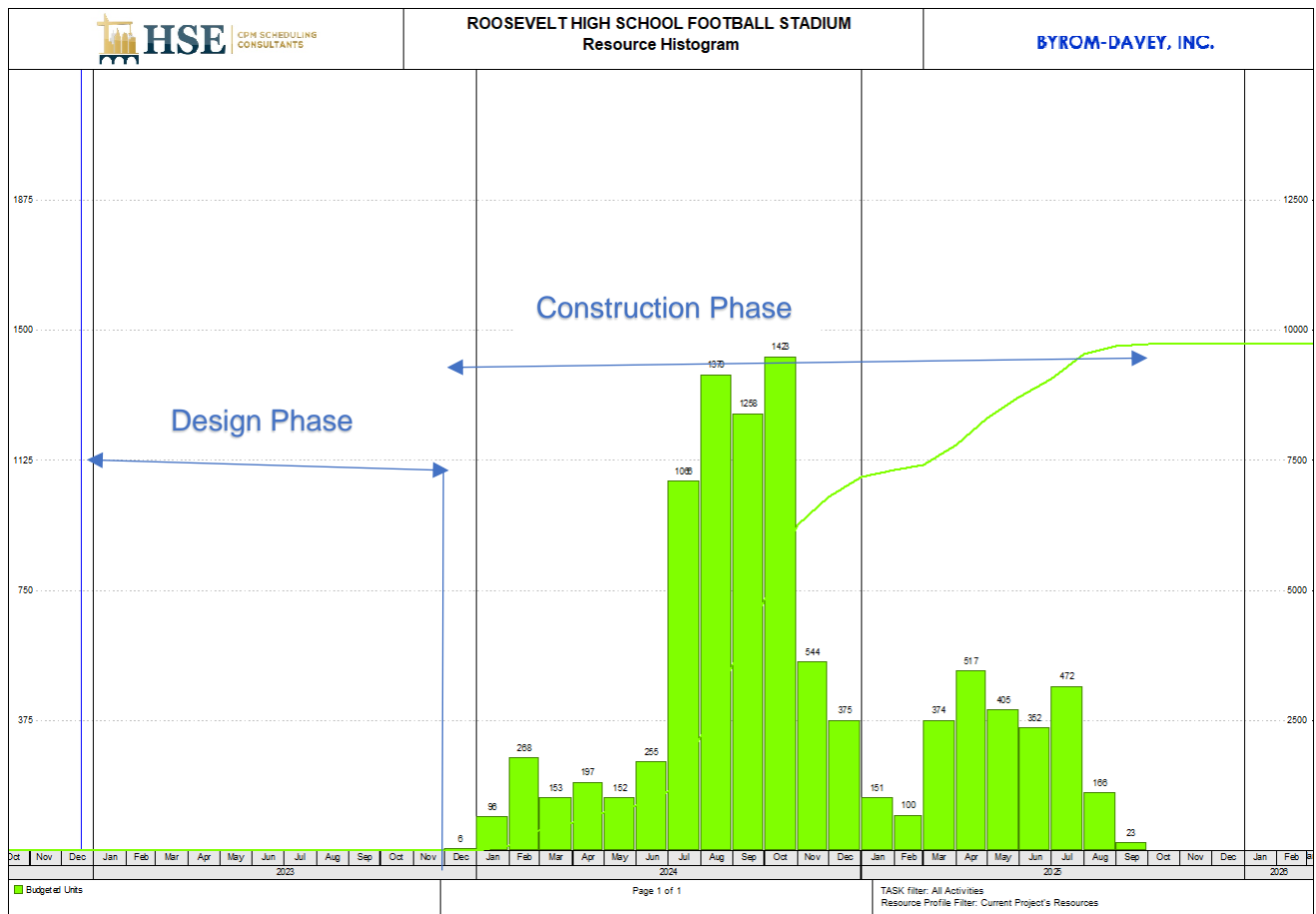
## 7. Critical path

The critical path for the Roosevelt High School Football Stadium project encompasses several key milestones. It all initiates with the issuance of the "Notice to Proceed with Preconstruction Services (NTP-P)" and the "Notice to Proceed with Design (NTP-D)" on December 19, 2022. Following closely is the "149 Calendar Days from NTP-D" period, spanning from December 19, 2022, to May 15, 2023. Subsequently, "MS08 - DSA Submittal of 100% Construction Documents" commences, marking another pivotal point. This is followed by "180 Calendar Days after DSA Submittal of 100% Documents-MS #08," ranging from May 16, 2023, to November 10, 2023. The path continues with "Design Build Contractor Revise & Resubmit 100% CD's" from October 13, 2023, to November 10, 2023. "MS09 - DSA Review of Documents" and "Design Build Contractor Revise and Resubmit 100% CD" occupy the subsequent slots, leading up to the "30 Calendar Days from the Release of Back Check" phase, running from November 21, 2023, to December 09, 2023. The critical path then culminates with "MS11 - DSA Approval of Project" and the "14 Calendar Days After DSA Approval of Plans" period, from December 10, 2023, to December 22, 2023. Finally, the critical path extends further, ultimately reaching "MS16 - Substantial Completion" on December 07, 2025, with an additional "90 Calendar Days After Substantial Completion" stage extending from December 08, 2025, to March 06, 2026. Then moving to construction phase for the Roosevelt High School Football Stadium is a meticulously planned and time-sensitive process that spans from December 27, 2023, to February 06, 2025. It commences with the crucial task of site mobilization, setting the stage for all subsequent construction activities. Following this, a series of activities such as potholing, hazardous material mitigation, and site demolition are undertaken to ensure the site's readiness. Grading work, soil testing, and the construction of retaining walls at the basketball courts follow suit. Various steps in the process, including asphalt patching, drainage system installation, and sewer and water connections, ensure the comprehensive development of the football field. This extensive undertaking culminates with the establishment of lush greenery through sod installation and final clean-up of the entire site, all of which are vital for the stadium's functionality and aesthetic appeal.

 <b>HSE</b> CPM SCHEDULING CONSULTANTS		ROOSEVELT HIGH SCHOOL FOOTBALL STADIUM Critical Path			<b>BYROM-DAVEY, INC.</b>
Activity ID	Activity Name	Original Duration	Start	Finish	Budgeted Total Cost
<b>ROOSEVELT HIGH SCHOOL FOOTBALL STADIUM</b>		640	Dec/19/22	Mar/06/26	\$7,848,211.38
<b>MILESTONES</b>		1174	Dec/19/22	Mar/06/26	\$0.00
MS-01	MS01 - NOTICE TO PROCEED WITH RECONSTRUCTION SERVICES (NTP-P)	0	Dec/19/22		\$0.00
MS-04	MS04 - NOTICE TO PROCEED WITH DESIGN (NTP-D)	0	Dec/19/22		\$0.00
MS-04.1	140 CALENDAR DAYS FROM NTP-D	140	Dec/19/22	May/15/23	\$0.00
MS-08	MS08 - DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS	0	May/16/23		\$0.00
MS-08.2	180 CALENDAR DAYS AFTER DSA SUBMITTAL OF 100% DOCUMENTS MS#08	179	May/16/23	Nov/10/23	\$0.00
MS-08.3	DESIGN BUILD CONTRACTOR REVISE & RESUBMIT 100% CD'S	29	Oct/13/23	Nov/10/23	\$0.00
MS-09	MS09 - DSA REVIEW OF DOCUMENTS	10	Nov/11/23	Nov/20/23	\$0.00
MS-09.1	DESIGN BUILD CONTRACTOR REVISE AND RESUBMIT 100% CD	10	Nov/21/23	Nov/30/23	\$0.00
MS-09.2	30 CALENDAR DAYS FROM THE RELEASE OF BACK CHECK	19	Nov/21/23	Dec/09/23	\$0.00
MS-11	MS11 - DSA APPROVAL OF PROJECT	0	Dec/10/23		\$0.00
MS-11.1	14 CALENDAR DAYS AFTER DSA APPROVAL OF PLANS	13	Dec/10/23	Dec/22/23	\$0.00
MS-12	MS12 - NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C)	0	Dec/23/23		\$0.00
MS-13	MS13 - FULL COMMISSIONING OF INSIDE BUILDING SYSTEMS BY OWNER'S AGENT	15	Aug/30/25	Sep/13/25	\$0.00
MS-13.1	MS13 - FULL COMMISSIONING OF OUTSIDE BUILDING SYSTEMS BY OWNER'S AGENT	14	Sep/14/25	Sep/27/25	\$0.00
MS-14	MS14 - DISTRICT CONTROLLED SCHEDULE CONTINGENCY ALLOWANCE	15	Sep/28/25	Oct/12/25	\$0.00
MS-15	MS15 - WEATHER RAIN IMPACT ALLOWANCE	56	Oct/13/25	Dec/07/25	\$0.00
MS-16	MS16 - SUBSTANTIAL COMPLETION	0	Dec/07/25		\$0.00
MS-16.3	90 CALENDAR DAYS AFTER SUBSTANTIAL COMPLETION	89	Dec/06/25	Mar/06/26	\$0.00
MS-21	MS21 - DSA CERTIFICATION BY PHASE	0	Mar/06/26		\$0.00
<b>DESIGN PACKAGE 1</b>		1685	Dec/19/22	Dec/07/25	\$1,905,211.08
DS-1000	SCHEMATIC DESIGN	48	Dec/19/22	Feb/04/23	\$184,015.00
DS-1010	DESIGN DEVELOPMENT	8	Feb/05/23	Feb/12/23	\$382,132.00
DS-1020	DISTRICT REVIEW & APPROVAL (DESIGN DEVELOPMENT)	5	Feb/13/23	Feb/17/23	\$0.00
DS-1030	DO BLUE BEAM / DSA PRE SUBMITTAL	2	Feb/18/23	Feb/19/23	\$0.00
DS-1040	CD PRODUCTION 50%	69	Feb/20/23	Apr/29/23	\$331,734.00
DS-1060	CD PRODUCTION 100%	24	Apr/30/23	May/23/23	\$327,269.00
DS-1070	DSA AGENCY	194	May/24/23	Dec/03/23	\$113,316.00
DS-1080	A/E CONSTRUCTION ADMIN	647	Dec/04/23	Sep/10/25	\$526,033.00
DS-1090	DESIGN PACKAGE 1 - CLOSE OUT	88	Sep/11/25	Dec/07/25	\$40,799.00
<b>GENERAL CONDITIONS</b>		529	Dec/19/22	Feb/06/25	\$613,000.36
GC-1070	SURVEYING FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$42,000.00
GC-1080	DUST CONTROL FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$14,000.00
GC-1090	PROJECT MANAGER FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$55,000.00
GC-1100	PROJECT SUPERINTENDENT FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$165,000.00
GC-1110	SITE SECURITY FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$75,000.00
GC-1140	PROJECT ENGINEER FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$30,000.00
GC-1150	LAND DEMOLITION FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$80,000.00
GC-1160	FINAL RUNDLIST FOR STADIUM PHASE I WORK	529	Dec/19/22	Feb/06/25	\$12,000.00
GC-1000	PLAN/CONTRACTOR TRADE ASSIGNMENT PERIOD	1	Dec/26/23	Dec/26/23	\$0.00
GC-1040	PRE-CONSTRUCTION MEETING	1	Dec/26/23	Dec/26/23	\$0.36
GC-1020	BOND FOR STADIUM PHASE I WORK	1	Dec/26/23	Dec/26/23	\$135,000.00
<b>SWPPP</b>		272	Jan/04/24	Feb/06/25	\$36,000.00
SW-1030	MONTHLY MONITORING FOR STADIUM PHASE I WORK	272	Jan/04/24	Feb/06/25	\$30,000.00
SW-1040	WEEKLY CHECK (WET SEASON) FOR STADIUM PHASE I WORK	262	Jan/04/24	Jan/23/25	\$6,000.00
<b>CONSTRUCTION</b>		418	Dec/27/23	Aug/29/25	\$5,294,000.00
<b>FOOTBALL STADIUM</b>		277	Dec/27/23	Feb/06/25	\$2,119,000.00
FF-1000	MOBILIZE SITE TO BEGIN CONSTRUCTION	5	Dec/27/23	Jan/03/24	\$80,000.00
FF-1010	POTHOLING (PHASE I)	5	Jan/04/24	Jan/10/24	\$10,000.00
FF-1020	HAZARDOUS MATERIAL MITIGATION (FOOTBALL FIELD)	5	Jan/04/24	Jan/10/24	\$20,000.00
FF-1012	POTHOLING (PHASE II)	10	Jan/11/24	Jan/25/24	\$25,000.00
FF-1030	SITE DEMOLITION FOR FOOTBALL (PHASE I)	8	Jan/26/24	Feb/06/24	\$150,000.00
FF-1032	SITE DEMOLITION FOR FOOTBALL (PHASE II)	7	Feb/07/24	Feb/15/24	\$130,000.00
FF-1050	INITIAL GRADING FOR FOOTBALL (PHASE I)	8	Feb/16/24	Feb/28/24	\$410,000.00
FF-1040	SOIL TESTING (FOOTBALL FIELD)	8	Feb/16/24	Feb/28/24	\$20,000.00
FF-1052	INITIAL GRADING FOR FOOTBALL (PHASE II)	7	Feb/29/24	Mar/06/24	\$270,000.00
FF-1060	EXCAVATE FOR RETAINING WALL AT BASKETBALL COURTS	10	Mar/11/24	Mar/22/24	\$12,000.00
FF-1070	FORM FOOTINGS FOR RETAINING WALL AT BASKETBALL COURTS	6	Mar/25/24	Apr/01/24	\$20,000.00
FF-1072	POUR FOOTINGS FOR RETAINING WALL AT BASKETBALL COURTS	10	Apr/02/24	Apr/15/24	\$40,000.00
FF-1080	INSTALL MASONRY WALL AT BASKETBALL COURTS (1ST LIFT)	8	Apr/16/24	Apr/25/24	\$40,000.00
FF-1082	INSTALL MASONRY WALL AT BASKETBALL COURTS (2ND LIFT)	7	Apr/26/24	May/06/24	\$30,000.00
FF-1100	WATERPROOF WALL AT BASKETBALL COURTS	5	May/07/24	May/13/24	\$15,000.00
FF-1110	BACKFILL WALL/WALL DRAINAGE AT BASKETBALL COURT	9	May/14/24	May/24/24	\$18,000.00
FF-1120	INSTALL GUARDRAIL AT TOP OF WALL	3	May/25/24	May/31/24	\$80,000.00
FF-1140	ASPHALT PATCH BACK AT BASKETBALL COURT/NEW MASONRY WALL	2	May/31/24	Jun/03/24	\$15,000.00
FF-1130	COMPLETE GRADING FOR FIELD AND TRACK (PHASE I)	8	Jun/04/24	Jun/13/24	\$150,000.00
FF-1132	COMPLETE GRADING FOR FIELD AND TRACK (PHASE II)	7	Jun/14/24	Jun/25/24	\$130,000.00
FF-1180	INSTALL DRAINAGE SYSTEM FOR SITE AND FIELD (FOOTBALL FIELD) AREA 1	9	Jun/26/24	Jul/09/24	\$90,000.00
FF-1182	INSTALL DRAINAGE SYSTEM FOR SITE AND FIELD (FOOTBALL FIELD) AREA 2	9	Jul/10/24	Jul/22/24	\$90,000.00
FF-1184	INSTALL DRAINAGE SYSTEM FOR SITE AND FIELD (FOOTBALL FIELD) AREA 3	8	Jul/23/24	Aug/01/24	\$90,000.00
FF-1186	INSTALL DRAINAGE SYSTEM FOR SITE AND FIELD (FOOTBALL FIELD) AREA 4	6	Aug/02/24	Aug/09/24	\$90,000.00
FF-1330	SITE SEWER TO HOME AND VISITOR RESTROOMS	10	Aug/13/24	Aug/24/24	\$50,000.00
FF-1332	WATER TO HOME AND VISITOR RESTROOMS	4	Aug/26/24	Aug/29/24	\$50,000.00
FF-1400	PORTIONS OF SITE CONCRETE RAMPS AND STAIRS HOME ENTRY (PHASE I)	10	Aug/30/24	Sep/13/24	\$83,333.00
FF-1402	PORTIONS OF SITE CONCRETE RAMPS AND STAIRS HOME ENTRY (PHASE II)	10	Sep/16/24	Sep/27/24	\$83,333.00
FF-1404	PORTIONS OF SITE CONCRETE RAMPS AND STAIRS HOME ENTRY (PHASE III)	10	Sep/30/24	Oct/11/24	\$83,334.00
FF-1560	FINISH IRRIGATION FOR FOOTBALL FIELD	10	Oct/14/24	Oct/25/24	\$18,000.00
FF-1620	AMEND TOPSOIL (FOOTBALL FIELD)	4	Oct/28/24	Oct/31/24	\$20,000.00
FF-1630	COVERAGE TEST FOR FOOTBALL FIELD	2	Nov/01/24	Nov/04/24	\$5,000.00
FF-1650	INSTALL BIG ROLL SOD OVERSEED FOR FOOTBALL	10	Nov/05/24	Nov/19/24	\$170,000.00
FF-1660	SOD ESTABLISHMENT (FOOTBALL FIELD)	40	Nov/20/24	Jan/23/25	\$12,000.00
FF-1750	FINAL CLEANUP/ENTIRE SITE (FOOTBALL FIELD)	10	Jan/24/25	Feb/06/25	\$15,000.00
<b>BASEBALL STADIUM</b>		142	Feb/07/25	Aug/29/25	\$2,679,000.00
BB-1000	MOBILIZE FOR BASEBALL FIELD CONSTRUCTION	3	Feb/07/25	Feb/11/25	\$70,000.00
BB-1010	HAZARDOUS MATERIAL MITIGATION (BASEBALL FIELD)	3	Feb/12/25	Feb/14/25	\$12,000.00
BB-1020	SITE DEMOLITION FOR BASEBALL FIELD	4	Feb/15/25	Feb/21/25	\$170,000.00
BB-1030	ROUGH GRADING FOR BASEBALL	10	Feb/24/25	Mar/07/25	\$288,000.00
BB-1032	FINE GRADE / COMPACT FOR BASEBALL	3	Mar/10/25	Mar/11/25	\$40,000.00
BB-1050	INSTALL DRAINAGE PIPE SYSTEM FOR SITE AND FIELD INTERIOR (BASEBALL FIELD)	10	Mar/13/25	Mar/26/25	\$310,000.00
BB-1052	INSTALL DRAINAGE PIPE SYSTEM FOR SITE AND FIELD EXTERIOR (BASEBALL FIELD)	3	Mar/27/25	Mar/31/25	\$200,000.00
BB-1100	SITE SEWER AND WATER FOR BASEBALL	10	Apr/01/25	Apr/14/25	\$85,000.00
BB-1140	INSTALL GAS LINE	4	Apr/15/25	Apr/18/25	\$40,000.00
BB-1150	FIELD IRRIGATION	10	Apr/21/25	May/02/25	\$80,000.00
BB-1220	INSTALL FIELD IMPORTED PEA GRAVEL SECTION (BASEBALL FIELD)	4	May/05/25	May/08/25	\$114,000.00
BB-1240	INSTALL FIELD IMPORTED TOPSOIL (BASEBALL FIELD)	4	May/09/25	May/14/25	\$220,000.00
BB-1260	AMEND TOPSOIL (BASEBALL FIELD)	3	May/15/25	May/16/25	\$15,000.00
BB-1280	COVERAGE TEST FOR BASEBALL FIELD	3	May/20/25	May/22/25	\$2,000.00
BB-1300	INSTALL BIG ROLL SOD OVERSEED FOR BASEBALL	4	May/23/25	May/29/25	\$90,000.00
BB-1340	INSTALL FENCING FOR BASEBALL	10	May/30/25	Jun/12/25	\$180,000.00
BB-1400	INSTALL BATTING CAGES	3	Jun/13/25	Jun/17/25	\$70,000.00
BB-1410	INSTALL BULLPENS	3	Jun/18/25	Jun/23/25	\$60,000.00
BB-1420	INSTALL DUGOUTS/BENCHES/ACCESSORIES AT BASEBALL	4	Jun/24/25	Jun/27/25	\$18,000.00
BB-1440	PORTIONS OF SITE CONCRETE/CONCRETE AT BLEACHERS	10	Jun/30/25	Jul/14/25	\$90,000.00
BB-1490	REINFORCING CONCRETE PLATFORMS/RAMPS (BASEBALL FIELD)	10	Jul/15/25	Jul/28/25	\$240,000.00
BB-1500	COMPLETE FENCING AND FENCE FABRIC (BASEBALL FIELD)	10	Jul/29/25	Aug/11/25	\$120,000.00
BB-1510	FINISH IRRIGATION FOR BASEBALL FIELD	10	Aug/12/25	Aug/25/25	\$35,000.00
BB-1550	FINISH LANDSCAPE / PLANTING (BASEBALL FIELD)	4	Aug/26/25	Aug/29/25	\$30,000.00

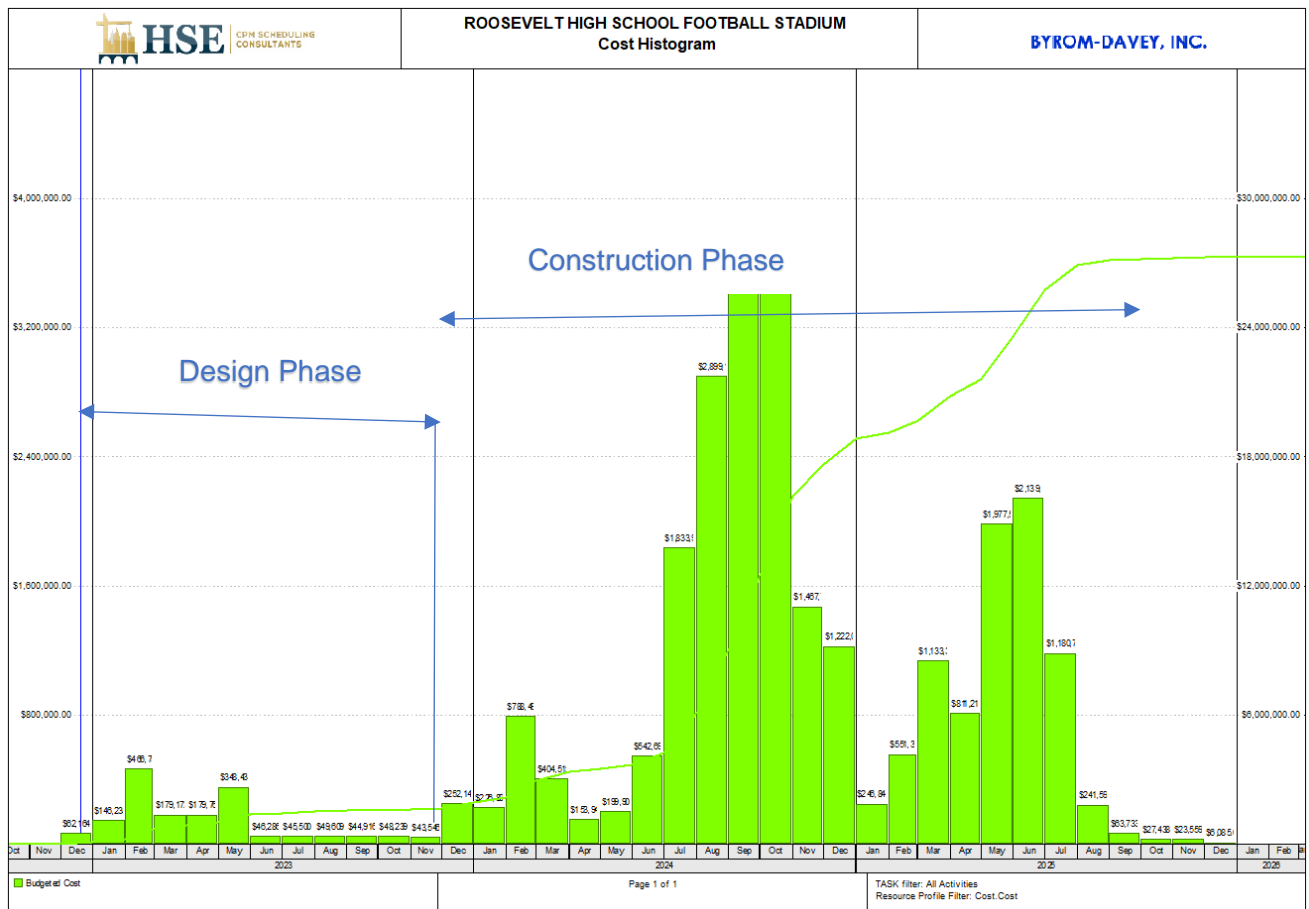
*Critical Path*

## 8. Resource Histogram



The resource histogram attached above illustrates the monthly resource requirements throughout the project, with the design phase extending from NTP until November 2023. Resource demand will reach its highest points in October & August 2024, with a sudden decrease in for the following months. Finally, December 2023 & September 2023 will experience the lowest resource utilization, as those represent the start and end of the construction phase.

## 9. Cost Histogram



The provided histogram illustrates the cost distribution across the project's timeline. The cumulative cost for the entire project is \$27,260,501.36. Costs are relatively low during the Design phase. However, once the Construction phase commences, costs notably escalate, reaching their highest in October 2024 at \$3,693,556.32 and hitting their lowest point for the construction phase in September 2025 at \$63,733.49.

## 10. Activity Coding

The activities on this project were coded according to the specifications by Area, Division, Division, Responsibility, Stage, SPEC, SBST, and Type as the screenshots attached below:

### By Area:

Activity ID	Activity Name	Original Duration	Start	Finish
▣ MILESTONES		1174	19-Dec-22	06-Mar-26
▣ DESIGN PACKAGE 1		1085	19-Dec-22	07-Dec-25
▣ GENERAL CONDITIONS		737	19-Dec-22	05-Dec-25
▣ SUBMITTAL / PROCUREMENT		95	26-Dec-23	30-Mar-24
▣ SWPPP		485	26-Dec-23	05-Dec-25
▣ FOOTBALL		292	27-Dec-23	06-Feb-25
▣ BASEBALL		159	07-Feb-25	17-Sep-25
▣ No AREA-LAUD		14	14-Sep-25	27-Sep-25

### By Division:

Activity ID	Activity Name	Original Duration	Start	Finish
▣ GENERAL REQUIREMENTS		840	19-Dec-22	06-Mar-26
▣ EXISTING CONDITIONS		298	26-Dec-23	14-Feb-25
▣ CONCRETE		361	26-Dec-23	14-May-25
▣ MASONRY		346	26-Dec-23	23-Apr-25
▣ METALS		424	26-Dec-23	11-Aug-25
▣ WOOD, PLASTICS AND COMPOSITES		233	26-Dec-23	15-Nov-24
▣ THERMAL AND MOISTURE PROTECTION		349	26-Dec-23	28-Apr-25
▣ OPENINGS		272	26-Dec-23	09-Jan-25
▣ FINISHES		277	26-Dec-23	16-Jan-25
▣ SPECIALITIES		278	26-Dec-23	17-Jan-25
▣ EQUIPMENT		433	26-Dec-23	22-Aug-25
▣ FURNISHINGS		34	26-Dec-23	29-Jan-24
▣ SPECIAL CONSTRUCTION		411	26-Dec-23	23-Jul-25
▣ PLUMBING		343	26-Dec-23	18-Apr-25
▣ HVAC		255	26-Dec-23	17-Dec-24
▣ ELECTRICAL		399	26-Dec-23	07-Jul-25
▣ COMMUNICATIONS		34	26-Dec-23	29-Jan-24
▣ ELECTRONIC SAFETY AND SECURITY		34	26-Dec-23	29-Jan-24
▣ EARTHWORK		357	26-Dec-23	08-May-25
▣ EXTERIOR IMPROVEMENTS		438	26-Dec-23	29-Aug-25
▣ UTILITIES		353	26-Dec-23	02-May-25
▣ No DIVISION		14	14-Sep-25	27-Sep-25

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### By Responsibility:

Activity ID	Activity Name	Original Duration	Start	Finish
▣ DESIGN		1085	19-Dec-22	07-Dec-25
▣ BDI		840	19-Dec-22	06-Mar-26
▣ SUBCONTRACTOR		438	26-Dec-23	29-Aug-25
▣ No RESP		14	14-Sep-25	27-Sep-25



# By Spec:

Activity ID	Activity Name	Original Duration	Start	Finish
	ASPHALT PAVEMENT REPAIR	34	28-Dec-23	29-Jan-24
	STRUCTURAL STEEL FRAMING	55	28-Dec-23	19-Feb-24
	METAL DECKING	55	28-Dec-23	19-Feb-24
	STRUCTURAL METAL STUD FRAMING	55	28-Dec-23	19-Feb-24
	FIRE DETECTION AND ALARM	34	28-Dec-23	29-Jan-24
	VIDEO MONITORING AND SURVEILLANCE SYSTEMS	34	28-Dec-23	29-Jan-24
	INTRUSION DETECTION SYSTEM	34	28-Dec-23	29-Jan-24
	CLOCK AND PROGRAM SYSTEMS	34	28-Dec-23	29-Jan-24
	PUBLIC ADDRESS SYSTEMS	34	28-Dec-23	29-Jan-24
	PARKING LOT AND SITE LED LIGHTING	65	28-Dec-23	20-Feb-24
	EMERGENCY POWER SYSTEMS	60	28-Dec-23	15-Mar-24
	ROOF AND DECK INSULATION	34	28-Dec-23	29-Jan-24
	POLYMYL-CHLORIDE ROOFING	34	28-Dec-23	29-Jan-24
	COILING COUNTER DOORS	269	28-Dec-23	08-Jan-25
	ACCESS PANELS AND FRAMES	34	28-Dec-23	29-Jan-24
	DOOR HARDWARE	75	28-Dec-23	10-Mar-24
	ANTI-GRAFFITI AND IMPACT CONTROL FILMS	34	28-Dec-23	29-Jan-24
	CEMENT PLASTER AND METAL LATH	34	28-Dec-23	29-Jan-24
	ACOUSTICAL PANEL CEILING	34	28-Dec-23	29-Jan-24
	RUBBER BASE	34	28-Dec-23	29-Jan-24
	HAND AND HAIR DRYERS	75	28-Dec-23	10-Mar-24
	FIRE EXTINGUISHERS AND CABINETS	34	28-Dec-23	29-Jan-24
	STEEL STORAGE ASSEMBLIES	34	28-Dec-23	29-Jan-24
	FLAGPOLES	34	28-Dec-23	29-Jan-24
	BIRD CONTROL DEVICES	34	28-Dec-23	29-Jan-24
	WINDOW BLINDS	34	28-Dec-23	29-Jan-24
	BASIC PLUMBING MATERIALS AND METHODS	34	28-Dec-23	29-Jan-24
	PLUMBING IDENTIFICATION	34	28-Dec-23	29-Jan-24
	PLUMBING INSULATION	34	28-Dec-23	29-Jan-24
	PLUMBING	34	28-Dec-23	29-Jan-24
	COMMON WORK RESULTS FOR HVAC	34	28-Dec-23	29-Jan-24
	BASIC HVAC MATERIALS AND METHODS	34	28-Dec-23	29-Jan-24
	HVAC SOUND, VIBRATION AND SEISMIC CONTROL	34	28-Dec-23	29-Jan-24
	HVAC IDENTIFICATION	34	28-Dec-23	29-Jan-24
	HVAC INSULATION	34	28-Dec-23	29-Jan-24
	ENVIRONMENTAL CONTROLS AND ENERGY MANAGEMENT	34	28-Dec-23	29-Jan-24
	AIR DISTRIBUTION	34	28-Dec-23	29-Jan-24
	HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT	34	28-Dec-23	29-Jan-24
	LIGHTING CONTROL SYSTEMS	34	28-Dec-23	29-Jan-24
	LOW VOLTAGE TRANSFORMERS	34	28-Dec-23	29-Jan-24
	PANELBOARDS AND SIGNAL TERMINAL CABINETS	65	28-Dec-23	30-Mar-24
	MOTOR CONTROL CENTER AND MOTOR CONTROL DEVICES	60	28-Dec-23	15-Mar-24
	FINISH CARPENTRY	34	28-Dec-23	29-Jan-24
	TEST AND ACCEPTANCE REQUIREMENTS	34	28-Dec-23	29-Jan-24
	COMMON WORK RESULTS FOR PLUMBING	171	28-Dec-23	21-Aug-24
	HOT DIP GALVANIZING	404	28-Dec-23	11-Aug-25
	BASIC HVAC MATERIALS AND METHODS	65	15-Aug-24	17-Dec-24
	BASIC ELECTRICAL MATERIALS AND METHODS	204	28-Jan-24	23-Apr-25
	BASIC PLUMBING MATERIALS AND METHODS	29	14-Aug-24	24-Sep-24
	LOW-VOLTAGE WIRES (600 VOLT AC)	34	28-Dec-23	29-Jan-24
	GROUNDING AND BONDING	34	28-Dec-23	29-Jan-24
	RACEWAYS AND BOXES FITTING AND SUPPORTS	350	28-Dec-23	29-Apr-25
	ELECTRICAL SYSTEMS COMMISSIONING	34	28-Dec-23	29-Jan-24
	SITE CLEARING	267	28-Jan-24	21-Feb-25
	PLUMBING	119	23-Oct-24	18-Apr-25
	CONCRETE FORMING AND ACCESSORIES	34	28-Dec-23	29-Jan-24
	PREMISES WIRING FOR CONVERGENCE OF COMMUNICATIONS	34	28-Dec-23	29-Jan-24
	SITE WATER DISTRIBUTION SYSTEMS	339	28-Dec-23	14-Apr-25
	HOLLOW METAL DOORS AND FRAMES	245	28-Dec-23	03-Dec-24
	ASPHALT PAVING	188	28-Dec-23	11-Sep-24
	PHASING OF WORK - MILESTONES	118	19-Dec-22	08-Mar-26
	SEAL FOR BITUMINOUS SURFACING	34	28-Dec-23	29-Jan-24

Activity ID	Activity Name	Original Duration	Start	Finish
	SITE CONCRETE WORK	414	28-Dec-23	28-Jan-25
	SIGNAGE	278	28-Dec-23	17-Jan-25
	DETECTABLE WARNING SURFACING	34	28-Dec-23	29-Jan-24
	EXTERIOR ATHLETIC SURFACE COATING	263	28-Dec-23	27-Dec-24
	SYNTHETIC FIELD SPORT SURFACING	348	28-Dec-23	23-Apr-25
	CONCRETE REINFORCING	55	28-Dec-23	19-Feb-24
	THERMAL INSULATION	349	28-Dec-23	28-Apr-25
	PHENOLIC TOILET COMPARTMENTS	249	28-Dec-23	09-Dec-24
	CONCRETE UNIT MASONRY	346	28-Dec-23	23-Apr-25
	GRADING	372	18-Feb-24	14-Aug-25
	NON-STRUCTURAL METAL FRAMING	228	28-Dec-23	08-Nov-24
	BASE COURSE	357	28-Dec-23	08-May-25
	ABATEMENT OF HAZARDOUS MATERIALS	288	28-Dec-23	14-Feb-25
	TOILET ACCESSORIES	65	28-Dec-23	29-Feb-24
	GYP SUM	185	28-Dec-23	10-Sep-24
	SITE SANITARY SEWER UTILITIES	34	28-Dec-23	29-Jan-24
	CAST IN PLACE CONCRETE	381	28-Dec-23	14-May-25
	CERAMIC TILING	241	28-Dec-23	27-Nov-24
	PROJECT COORDINATION	775	19-Dec-22	07-Dec-25
	PROJECT MEETINGS	1	28-Dec-23	28-Dec-23
	GRANDSTANDS	411	28-Dec-23	23-Jan-25
	ARCHITECTURAL WOODWORK	233	28-Dec-23	15-Nov-24
	STORM DRAINAGE UTILITIES	349	28-Dec-23	28-Apr-25
	ALUMINUM ENTRANCES AND STOREFRONTS	263	28-Dec-23	27-Dec-24
	DEMOLITION	22	28-Dec-23	25-Jan-24
	ULTRA CROSS NETTING	352	28-Dec-23	12-Jan-25
	CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS	737	19-Dec-22	08-Oct-25
	METAL FABRICATIONS	352	28-Dec-23	12-Jan-25
	SOLID STATE (LED) LIGHTING	198	28-Dec-23	27-Sep-24
	CONVERGED IP PUBLIC ADDRESS AND INTERCOMMUNICATIONS	34	28-Dec-23	29-Jan-24
	POLYMYL-CHLORIDE ROOFING	186	28-Dec-23	14-Aug-24
	SECURITY WINDOW SCREENS	77	18-Sep-24	09-Jan-25
	ATHLETIC FIELD LIGHTING	359	28-Dec-23	07-Jul-25
	PASS-THRU WINDOWS	267	28-Dec-23	02-Jan-25
	FLASHING AND SHEET METAL	248	28-Dec-23	08-Dec-24
	PLAY FIELD EQUIPMENT AND STRUCTURES	433	28-Dec-23	22-Aug-25
	POLYVAULT LANDING SYSTEM	151	28-Dec-23	24-Jul-24
	FIELD ENGINEERING	653	19-Dec-22	17-Sep-25
	STORM WATER POLLUTION PREVENTION PLAN	485	28-Dec-23	05-Dec-25
	CONTRACT CLOSEOUT	203	09-Dec-24	17-Sep-25
	GLAZING	270	28-Dec-23	07-Jan-25
	ASBESTOS ABATEMENT AND ASBESTOS RELATED DUST	4	28-Dec-23	30-Dec-23
	FIBERGLASS REINFORCED PANELS	231	28-Dec-23	13-Nov-24
	LEAD ABATEMENT AND LEAD RELATED CONSTRUCTION	4	28-Dec-23	30-Dec-23
	POTABLE WATER IRRIGATION	434	28-Dec-23	25-Aug-25
	IRRIGATION CONTROLS	218	28-Dec-23	25-Oct-24
	PAINTING AND COATING	276	28-Dec-23	15-Jan-25
	PLANTING	34	28-Dec-23	29-Jan-24
	PLANTING	255	21-Aug-24	29-Aug-25
	JOINT SEALANTS	34	28-Dec-23	29-Jan-24
	GRAFFITI-RESISTANT COATINGS	277	28-Dec-23	18-Jan-25
	No SPEC	14	14-Sep-25	27-Sep-25

By Stage:

Activity ID	Activity Name	Original Duration	Start	Finish
+	<b>MILESTONES</b>	1174	19-Dec-22	06-Mar-26
+	<b>DESIGN PACKAGE 1</b>	1085	19-Dec-22	07-Dec-25
+	<b>SUBMITTAL / PROCUREMENT</b>	95	26-Dec-23	30-Mar-24
+	<b>GENERAL CONDITIONS</b>	737	19-Dec-22	05-Dec-25
+	<b>SWPPP</b>	485	26-Dec-23	05-Dec-25
+	<b>FIELD</b>	451	27-Dec-23	17-Sep-25
+	<b>BLEACHERS (HOME SIDE)</b>	220	16-Feb-24	06-Jan-25
+	<b>BLEACHER (VISITOR SIDE)</b>	223	16-Feb-24	09-Jan-25
+	<b>HOME CONCESSION &amp; TOILET BUILDING</b>	108	12-Aug-24	21-Jan-25
+	<b>HOME TICKET BOOTH</b>	81	26-Jun-24	18-Oct-24
+	<b>VISITOR TICKET BOOTH, CONCESSION &amp; TOILET</b>	114	28-Jun-24	11-Dec-24
+	<b>No STAGE</b>	14	14-Sep-25	27-Sep-25

By Substage:

Activity ID	Activity Name	Original Duration	Start	Finish
+	<b>MILESTONES</b>	1174	19-Dec-22	06-Mar-26
+	<b>DESIGN PACKAGE 1</b>	1085	19-Dec-22	07-Dec-25
+	<b>SUBMITTALS / PROCUREMENT</b>	95	26-Dec-23	30-Mar-24
+	<b>GENERAL CONDITIONS</b>	737	19-Dec-22	05-Dec-25
+	<b>SWPPP</b>	485	26-Dec-23	05-Dec-25
+	<b>ELECTRICAL UTILITIES</b>	108	26-Jun-24	27-Nov-24
+	<b>No SUBSTAGE</b>	775	19-Dec-22	05-Dec-25

By Type-LAUDS:

Activity ID	Activity Name	Original Duration	Start	Finish
+	<b>MILESTONES</b>	1174	19-Dec-22	06-Mar-26
+	<b>DESIGN PACKAGE 1</b>	1085	19-Dec-22	07-Dec-25
+	<b>SUBMITTALS / PROCUREMENT</b>	95	26-Dec-23	30-Mar-24
+	<b>GENERAL CONDITIONS</b>	737	19-Dec-22	05-Dec-25
+	<b>SWPPP</b>	485	26-Dec-23	05-Dec-25
+	<b>CONSTRUCTION</b>	451	27-Dec-23	17-Sep-25
+	<b>No TYPE-LAUDS</b>	14	14-Sep-25	27-Sep-25

## 11. Conclusion

### Scope of Work:

The project scope involves a series of activities aimed at constructing a sports facility. It includes tasks such as mobilizing the construction site, conducting site assessments, hazardous material mitigation, demolition, grading, excavation, wall installation, electrical work, drainage system installation, landscaping, and various structural and finishing tasks for bleachers, concession buildings, ticket booths, and other facilities. The project encompasses a comprehensive range of construction and infrastructure activities to create a fully functional sports venue, from initial site preparation to final finishing touches.

### Key Dates:

<u>Item</u>	<u>Start Date</u>	<u>Finish Date</u>
MS01 - NOTICE TO PROCEED WITH PRECONSTRUCTION SERVICES (NTP-P)	Dec/19/2022	
MS04 - NOTICE TO PROCEED WITH DESIGN (NTP-D)	Dec/19/2022	
MS02 - FIELD VERIFICATION OF SITE AND REFERENCE DOCUMENTS	Jan/17/2023	
MS06 - PRELIMINARY CONSTRUCTION SCHEDULE	Jan/17/2023	
MS05 - PRE-CONSTRUCTION SCHEDULING CONFERENCE WITH OAR	Jan/23/2023	
MS03 - PHASING PLAN & SITE USAGE / LOGISTICS PLAN	Feb/16/2023	
MS08 - DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS	May/16/2023	
MS07 - PROPOSED BASELINE SCHEDULE	Jun/14/2023	
MS10 - BASELINE CONSTRUCTION SCHEDULE COMPLETE	Jul/13/2023	
MS09 - DSA REVIEW OF DOCUMENTS	Nov/11/2023	Nov/20/2023
MS11 - DSA APPROVAL OF PROJECT	Dec/10/2023	
MS12 - NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C)	Dec/23/2023	
MS13 - FULL COMMISSIONING OF INSIDE BUILDING SYSTEMS BY OWNER'S AGENT	Aug/30/2025	Sep/13/2025
MS13 - FULL COMMISSIONING OF OUTSIDE BUILDING SYSTEMS BY OWNER'S AGENT	Sep/14/2025	Sep/27/2025
MS14 - DISTRICT CONTROLLED SCHEDULE CONTINGENCY ALLOWANCE	Sep/28/2025	Oct/12/2025
MS15 - WEATHER RAIN IMPACT ALLOWANCE	Oct/13/2025	Dec/07/2025
MS16 - SUBSTANTIAL COMPLETION		Dec/07/2025
MS17 - OWNERS MOVE-IN		Dec/16/2025
MS18 - CONSTRUCTION CLOSEOUT		Jan/05/2026
MS19 - FINAL CONSTRUCTION COMPLETION OF PROJECT		Jan/05/2026
MS20 - FINAL DESIGN CLOSEOUT		Jan/05/2026
MS21 - DSA CERTIFICATION BY PHASE		Mar/06/2026



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**Calendars:**

This section contains details on the calendars which are assigned on all activities. The calendar usage and assignment demonstrate that the builder has taken into account all official Weekends specified by the contract, and has scheduled the project activities efficiently to minimize any risk on project completion. The Calendars used in this project are Default Calendar, PROJECT CALENDAR 7X8 and PROJECT CALENDAR 5 DAYS / WK 8 HRS / DAY.

**Critical path:**

The critical path for the Roosevelt High School Football Stadium project encompasses several key milestones. It all initiates with the issuance of the "Notice to Proceed with Preconstruction Services (NTP-P)" and the "Notice to Proceed with Design (NTP-D)" on December 19, 2022. Following closely is the "149 Calendar Days from NTP-D" period, spanning from December 19, 2022, to May 15, 2023. Subsequently, "MS08 - DSA Submittal of 100% Construction Documents" commences, marking another pivotal point. This is followed by "180 Calendar Days after DSA Submittal of 100% Documents-MS #08," ranging from May 16, 2023, to November 10, 2023. The path continues with "Design Build Contractor Revise & Resubmit 100% CD's" from October 13, 2023, to November 10, 2023. "MS09 - DSA Review of Documents" and "Design Build Contractor Revise and Resubmit 100% CD" occupy the subsequent slots, leading up to the "30 Calendar Days from the Release of Back Check" phase, running from November 21, 2023, to December 09, 2023. The critical path then culminates with "MS11 - DSA Approval of Project" and the "14 Calendar Days After DSA Approval of Plans" period, from December 10, 2023, to December 22, 2023. Finally, the critical path extends further, ultimately reaching "MS16 - Substantial Completion" on December 07, 2025, with an additional "90 Calendar Days After Substantial Completion" stage extending from December 08, 2025, to March 06, 2026. Then moving to construction phase for the Roosevelt High School Football Stadium is a meticulously planned and time-sensitive process that spans from December 27, 2023, to February 06, 2025. It commences with the crucial task of site mobilization, setting the stage for all subsequent construction activities. Following this, a series of activities such as potholing, hazardous material mitigation, and site demolition are undertaken to ensure the site's readiness. Grading work, soil testing, and the construction of retaining walls at the basketball courts follow suit. Various steps in the process, including asphalt patching, drainage system installation, and sewer and water connections, ensure the comprehensive development of the football field. This extensive undertaking culminates with the establishment of lush greenery through sod installation and final clean-up of the entire site, all of which are vital for the stadium's functionality and aesthetic appeal.

**Activity Coding:**

The activities on this project were coded according to the specifications by Area, Division, Division, Responsibility, Stage, SPEC, SBST, and Type.

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**Resource Histogram:**

The resource histogram attached above illustrates the monthly resource requirements throughout the project, with the design phase extending from NTP until November 2023. Resource demand will reach its highest points in October & August 2024, with a sudden decrease in for the following months. Finally, December 2023 & September 2023 will experience the lowest resource utilization, as those represent the start and end of the construction phase.

**Cost Histogram:**

The provided histogram illustrates the cost distribution across the project's timeline. The cumulative cost for the entire project is \$27,260,501.36. Costs are relatively low during the Design phase. However, once the Construction phase commences, costs notably escalate, reaching their highest in October 2024 at \$3,693,556.32 and hitting their lowest point for the construction phase in September 2025 at \$63,733.49.