GARFIELD HIGH SCHOOL TRACK AND FIELD

BYROM-DAVEY, INC.

Main Contractor: BYROM-DAVEY, INC.

CPM Scheduling Consultant: HSE CONTRACTORS INC.

Baseline #1 Narrative (Data Date: December 19, 2022)

NTP	December 19, 2022
Final Completion	November 13, 2024

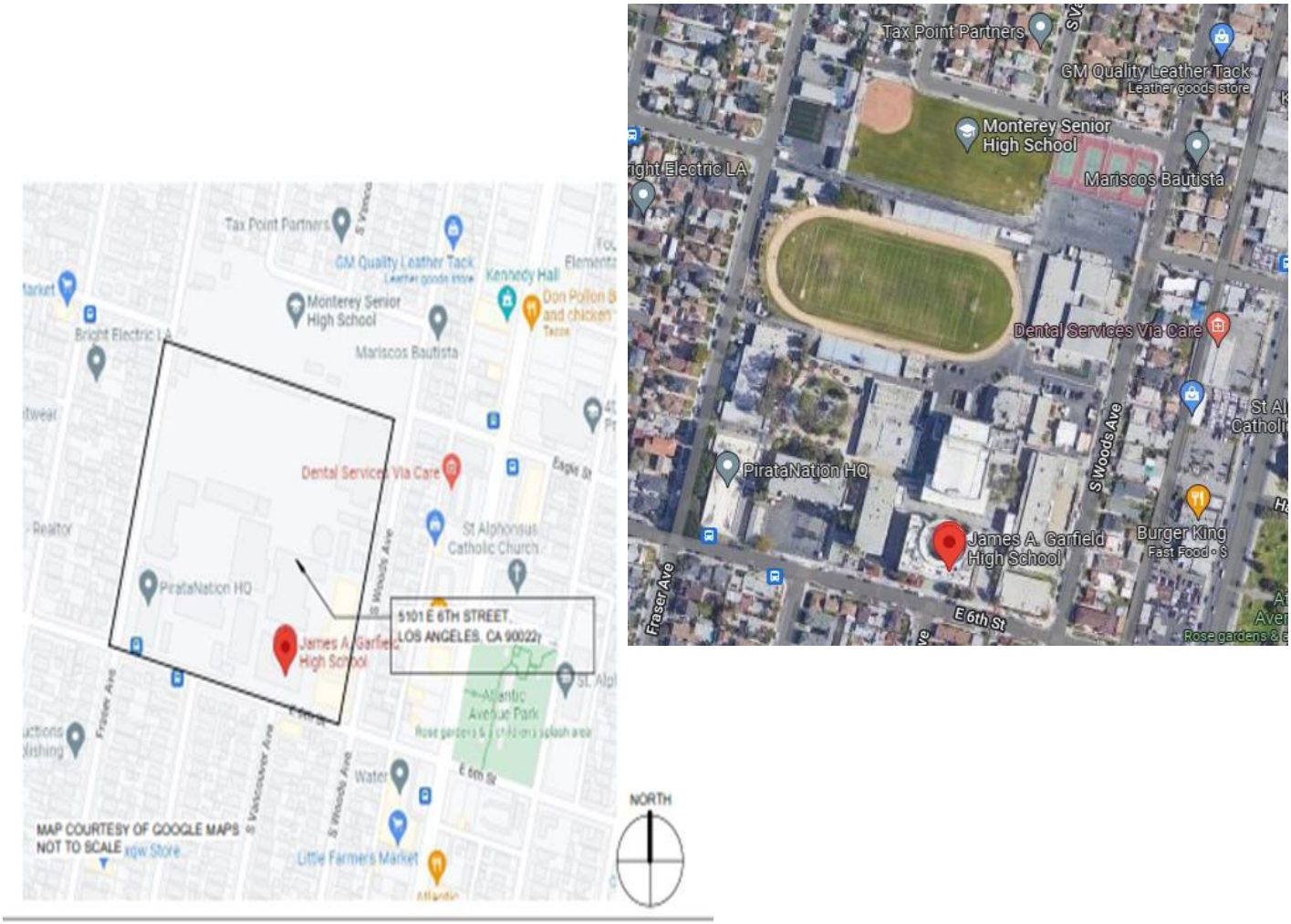
Contents

1. Project Information

1.1. Scope of Work

The scope of work of Garfield track and field project includes activities across different sections. These include site preparation, removal of existing structures, installation of new features such as curbing and drainage, as well as specialized installations like synthetic turf fields, track surfacing, and sports venue equipment. The project also involves upgrades for accessibility, landscaping, and infrastructure enhancements such as electrical work, irrigation, and signage installation. Overall, the scope aims to create functional and safe facilities for various sports and recreational activities.

1.2. Project Location



Project Location

2. Project Phasing & Sequencing

2.1. Procurement and submittals

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 driving the start of the construction phase as a consequence.

2.2. Construction

The construction project encompasses a variety of activities across different areas. The scope of work for the Track and Field section includes tasks like site preparation, removal of existing features such as grass, fencing, and concrete, as well as the installation of curbing, drainage systems, and goal post footings. There are also masonry and wall construction components, along with groundwork for bleachers and synthetic turf installation. The West Side Improvement with Stairs involves forming wall footings, installing handrails, and addressing accessibility aspects. The Synthetic Turf Field and Synthetic Track Surfacing phases focus on cooling system installation, geotextile placement, and surfacing layers.

For Site Work, activities encompass electrical work, fencing, irrigation, planting, and installing drinking fountains. Upgrades to the existing restroom building for ADA compliance are planned. Shot Put, Long Jump, and Pole Vault Venues require specialized installations, while the Parking Area involves grading, paving, striping, and installing various features like signage and wheel stops. The Scoreboard installation is part of enhancing event functionality, and the Concrete Visitor Bleachers involve grading, concrete pouring, and creating accessibility ramps.

Each segment aims to create a functional and safe environment for the specified activities, considering site preparation, structural elements, and amenities.

3. Key Dates

Item	Start	Finish
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
150 Calendar Days From NTP-D	Dec/19/2022	May/16/2023
60 Calendar Days After the Effective Date of the NTP-P	Dec/19/2022	Feb/15/2023
MS05 - PRE-CONSTRUCTION SCHEDULING CONFERENCE WITH OAR	Jan/10/2023	
7 Calendar Days of Completion of Milestone 2-Ms #02	Jan/10/2023	Jan/16/2023
MS02 - FIELD VERIFICATION OF SITE AND REFERENCE DOCUMENTS	Jan/17/2023	
MS06 - PRELIMINARY CONSTRUCTION SCHEDULE	Jan/17/2023	
MS03 - PHASING PLAN & SITE USAGE/LOGISTICS PLAN	Feb/16/2023	
MS08 - DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS	May/17/2023	
30 Calendar Days After DSA Submittal Of 100% Documents-MS #08	May/17/2023	Jun/14/2023
180 Calendar Days After DSA Submittal Of 100% Documents-MS #08	May/17/2023	Nov/12/2023
MS07 - PROPOSED BASELINE SCHEDULE	Jun/15/2023	
30 Calendar Days After the Proposed Schedule MS #07	Jun/15/2023	Jul/14/2023
MS10 - BASELINE CONSTRUCTION SCHEDULE COMPLETE		Jul/14/2023
MS09 - DSA REVIEW OF DOCUMENTS		Nov/12/2023
30 Calendar Days from The Release of Back Check	Nov/13/2023	Dec/11/2023
10 Calendar Days After the DSA REVIEW OF DOCUMENTS MS09	Nov/13/2023	Nov/21/2023
Design Build Contractor Revise & Resubmit 100% CD		Nov/21/2023
MS11 - DSA APPROVAL OF PROJECT	Dec/12/2023	
14 Calendar Days After DSA Approval of Plans	Dec/12/2023	Dec/24/2023
MS12 - NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C)	Dec/25/2023	
MS13 - DISTRICT CONTROLLED SCHEDULE CONTINGENCY ALLOWANCE	Jul/09/2024	Jul/23/2024
MS14 - WEATHER RAIN IMPACT ALLOWANCE	Jul/24/2024	Aug/16/2024
MS15 - SUBSTANTIAL COMPLETION		Aug/16/2024
10 Calendar Days After Substantial Completion	Aug/17/2024	Aug/25/2024
30 Calendar Days After Substantial Completion	Aug/17/2024	Sep/14/2024
90 Calendar Days After Substantial Completion	Aug/17/2024	Nov/12/2024
MS16 - OWNERS MOVE-IN		Aug/25/2024
MS17 - CONSTRUCTION CLOSEOUT		Sep/14/2024
MS18 - FINAL CONSTRUCTION COMPLETION OF PROJECT		Sep/14/2024
MS19 - FINAL DESIGN CLOSEOUT		Sep/14/2024
MS20 - DSA CERTIFICATION BY PHASE		Nov/13/24

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 every satiation and its levels.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
	GARFIELD HIGH SCHOOL TRACK AND FIELD	478.00	Dec/19 22	Nov/13 24	0.00
	MILESTONES	696.00	Dec/19 22	Nov/13 24	0.00
	DESIGN PACKAGE2	696.00	Dec/19 22	Nov/13 24	0.00
	PROCUREMENT / SUBMITTALS	75.00	Dec/29 23	Apr/11 24	154.00
	GENERAL CONDITIONS	183.00	Dec/26 23	Aug/16 24	0.00
	PROJECT CLOSE OUT	6.00	Jun/26 24	Jul/0 9 24	0.00
	SWPPP	183.00	Dec/26 23	Aug/16 24	0.00
	CONSTRUCTION	128.00	Dec/29 23	Jul/0 1 24	3.00
	TRACK AND FIELD	127.00	Dec/29 23	Jun/26 24	4.00
	WEST SIDE IMPROVEMENT WITH STAIRS	58.00	Feb/2 9 24	May/20 24	6.00
	SYNTHETIC TURF FIELD	39.00	Apr/0 4 24	May/29 24	0.00
	SYNTHETIC TRACK SURFACING	49.00	Apr/1 8 24	Jun/27 24	0.00
	SITE WORK (PAVING, FENCING AND GATES)	83.00	Mar/01 24	Jun/27 24	0.00
	ADA UPGRADE OF EXISTING RESTROOM BUILDING	5.00	May/14 24	May/20 24	6.00
	SHOT PUT VENUE	8.00	May/14 24	May/23 24	7.00
	PARKING AREA	21.00	Apr/30 24	May/29 24	23.00
	LONG JUMP VENUE	8.00	Apr/03 24	Apr/12 24	4.00
	POLE VAULT VENUE	80.00	Mar/28 24	Jul/0 1 24	3.00
	SCOREBOARD	18.00	Apr/24 24	May/17 24	30.00
	CONCRETE VISITOR BLEACHERS	66.00	Feb/1 9 24	May/20 24	13.00

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.

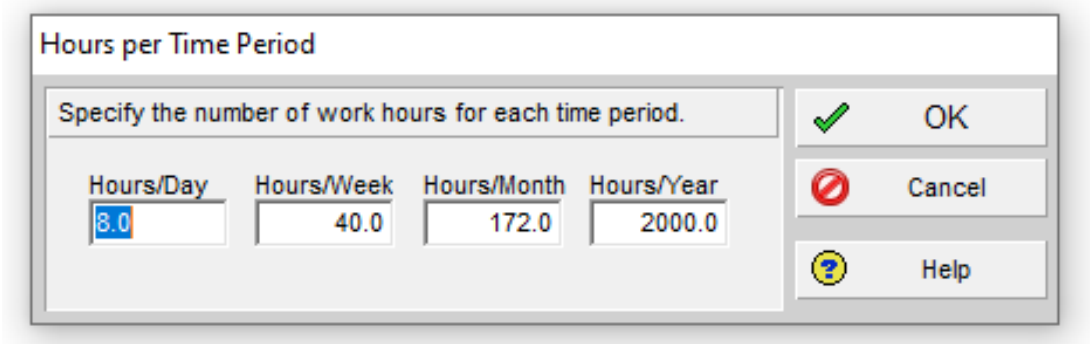
PROJECT CALENDAR 5 DAYS / WK 8 HRS / DAY: the calendar is based on a 5-day week and recognizes weekends as non-working days and is assigned to construction activities. District recognized holidays and weather days are as follows:

- 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 aday 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.



7. Critical path

The GARFIELD HIGH SCHOOL TRACK AND FIELD project is outlined to commence on December 19, 2022, and is projected to conclude by November 13, 2024. The project consists of various milestones and phases that are essential for its successful completion.

The initial milestones encompass the NOTICE TO PROCEED phases, with the PRECONSTRUCTION SERVICES (NTP-P) and DESIGN (NTP-D) initiated on December 19, 2022. The subsequent 150 CALENDAR DAYS period after NTP-D extends until May 16, 2023. This is followed by the DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS milestone on May 17, 2023, and a subsequent 180 CALENDAR DAYS phase until November 12, 2023.

Further key milestones include DSA REVIEW OF DOCUMENTS on November 13, 2023, with a 30 CALENDAR DAYS timeframe for this stage. The DSA APPROVAL OF PROJECT milestone is projected for December 12, 2023, with a 14 CALENDAR DAYS window afterward. Subsequently, the NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C) is scheduled for December 26, 2023.

General conditions encompassing PLA/CONTRACTOR TRADE ASSIGNMENT PERIOD, PRE-CONSTRUCTION MEETING, and MOBILIZE SITE TO BEGIN CONSTRUCTION are planned between December 26 and 28, 2023. The CONSTRUCTION phase starts on December 29, 2023, and spans until June 27, 2024.

Activities within the TRACK AND FIELD phase begin on December 29, 2023, and proceed through April 30, 2024. These include tasks like potholing, hazardous material mitigation, grass removal, electrical dismantling, tree removal, and the installation of various features like curbing and drainage systems.

The WEST SIDE IMPROVEMENT WITH STAIRS phase, from February 29 to March 27, 2024, involves activities such as forming wall footings, installing rebar, pouring and stripping wall footings, and backfilling.

The SYNTHETIC TURF FIELD phase, scheduled from April 4 to May 29, 2024, includes tasks like installing a field cooling system, geotextile fabric, Trex header, and synthetic turf in two phases.

The SYNTHETIC TRACK SURFACING phase, slated from May 30 to June 27, 2024, encompasses the application of track surfacing base mats, top layers, and striping.

Lastly, the SITE WORK (PAVING, FENCING AND GATES) phase, spanning from June 21 to June 27, 2024, involves tasks such as installing fence fabric, gates, and drinking fountains.

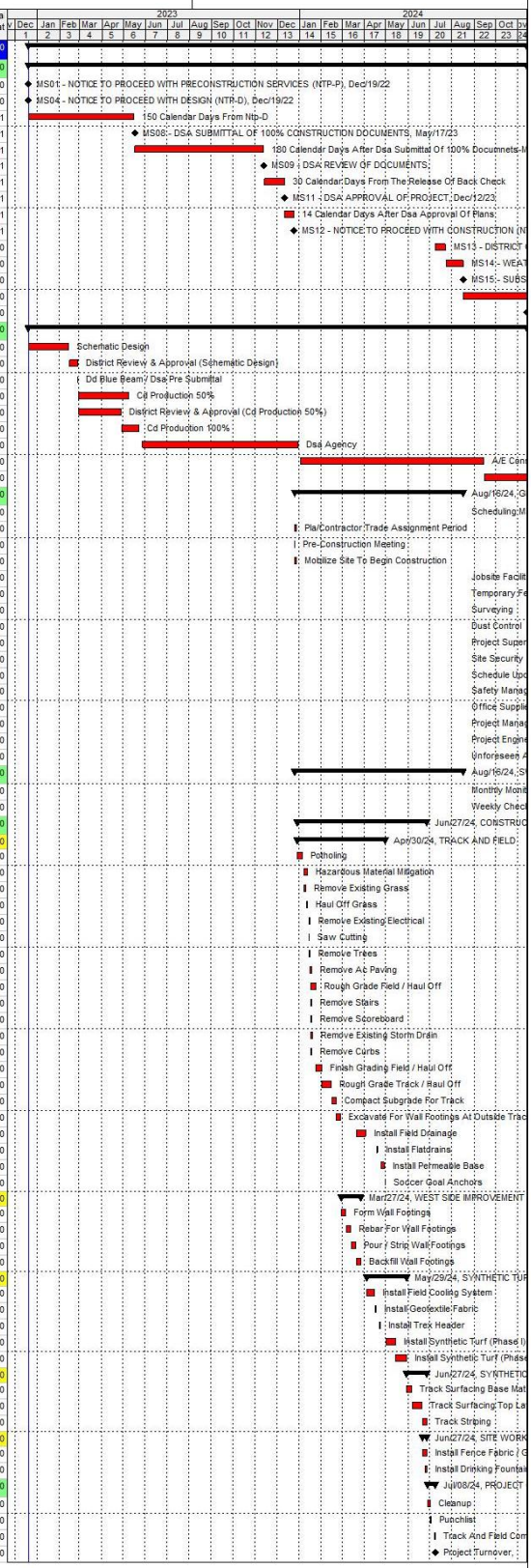
The project is designed to be efficiently executed with various timelines and milestones, aiming for completion within the projected timeframe.

HSE CPM SCHEDULING CONSULTANTS

GARFIELD HIGH SCHOOL TRACK AND FIELD
Longest Path

BYROM-DAVEY, INC.

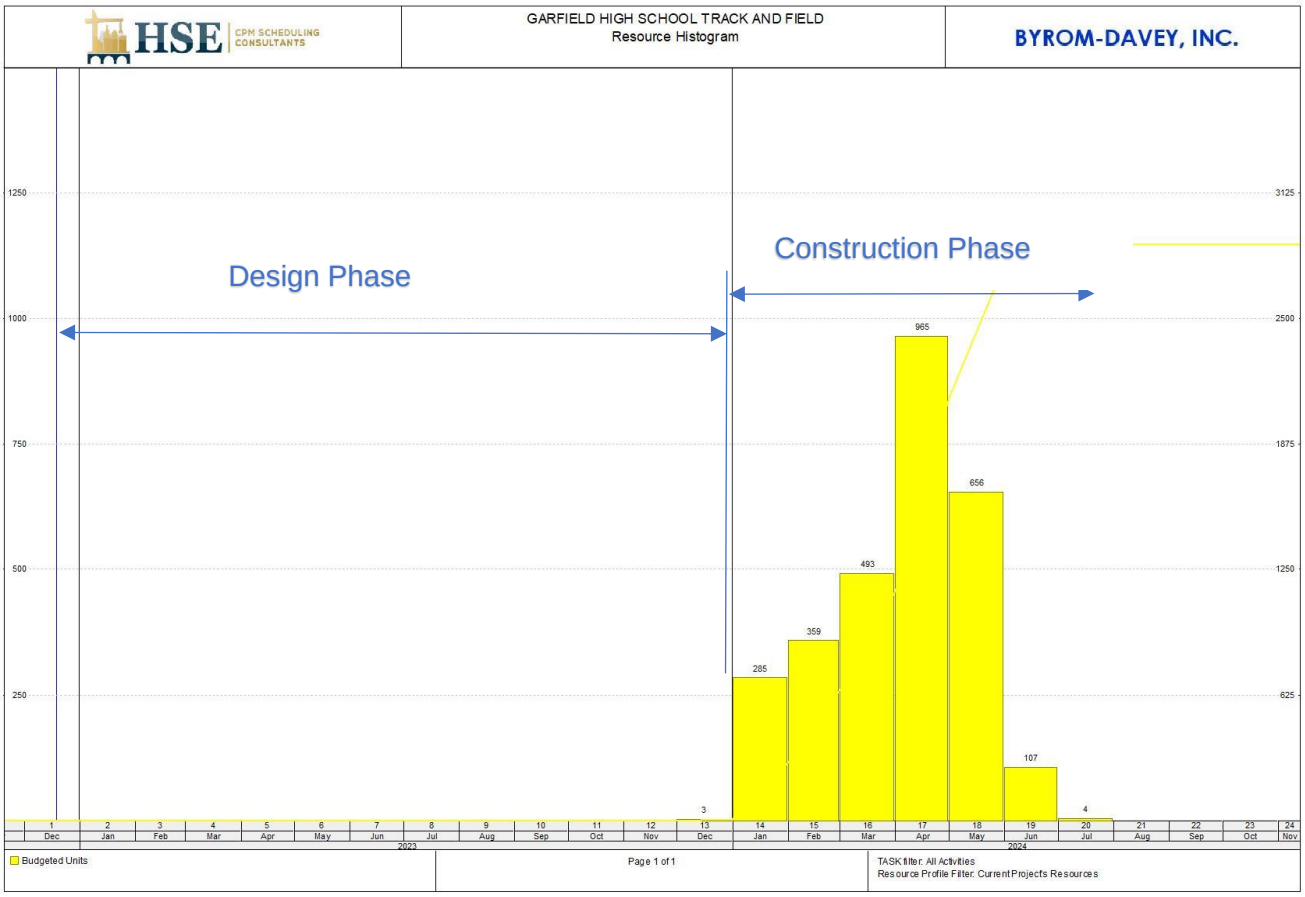
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
GARFIELD HIGH SCHOOL TRACK AND FIELD		476	Dec/19/22	Nov/13/24	0
MILESTONES		696	Dec/19/22	Nov/13/24	0
MS-01	MS01 - NOTICE TO PROCEED WITH PRECONSTRUCTION SERVICES (NTP-P)	0	Dec/19/22		0
MS-04	MS04 - NOTICE TO PROCEED WITH DESIGN (NTP-D)	0	Dec/19/22		0
MS-04.1	150 Calendar Days From Ntp-D	149	Dec/19/22	May/16/23	1
MS-08	MS08 - DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS	0	May/17/23		1
MS-08.2	180 Calendar Days After Dsa Submittal Of 100% Documnets-Ms #08	180	May/17/23	Nov/12/23	1
MS-09	MS09 - DSA REVIEW OF DOCUMENTS	0		Nov/12/23	1
MS-09.2	30 Calendar Days From The Release Of Back Check	29	Nov/13/23	Dec/11/23	1
MS-11	MS11 - DSA APPROVAL OF PROJECT	0	Dec/12/23		1
MS-11.1	14 Calendar Days After Dsa Approval Of Plans	13	Dec/12/23	Dec/24/23	1
MS-12	MS12 - NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C)	0	Dec/25/23		1
MS-13	MS13 - DISTRICT CONTROLLED SCHEDULE CONTINGENCY ALLOWANCE	15	Jul/09/24	Jul/23/24	0
MS-14	MS14 - WEATHER RAIN IMPACT ALLOWANCE	24	Jul/24/24	Aug/16/24	0
MS-15	MS15 - SUBSTANTIAL COMPLETION	0		Aug/16/24	0
MS-16.3	90 Calendar Days After Substantial Completion	89	Aug/17/24	Nov/13/24	0
MS-20	MS20 - DSA CERTIFICATION BY PHASE	0		Nov/13/24	0
DESIGN PACKAGE 2		696	Dec/19/22	Nov/13/24	0
DS-1000	Schematic Design	58	Dec/19/22	Feb/14/23	0
DS-1020	District Review & Approval (Schematic Design)	13	Feb/15/23	Feb/27/23	0
DS-1030	Dd Blue Beam / Dsa Pre Submittal	1	Feb/27/23	Feb/27/23	0
DS-1040	Cd Production 50%	70	Feb/28/23	May/08/23	0
DS-1050	District Review & Approval (Cd Production 50%)	60	Feb/28/23	Apr/28/23	0
DS-1060	Cd Production 100%	25	Apr/29/23	May/23/23	0
DS-1070	Dsa Agency	218	May/28/23	Dec/31/23	0
DS-1080	A/E Construction Admin	256	Jan/03/24	Sep/14/24	0
DS-1090	Design Package 2 - Close Out	60	Sep/15/24	Nov/13/24	0
GENERAL CONDITIONS		163	Dec/26/23	Aug/16/24	0
GC-1110	Scheduling Manager	163	Dec/26/23	Aug/16/24	0
GC-1010	Pla/Contractor Trade Assignment Period	3	Dec/26/23	Dec/28/23	0
GC-1100	Pre-Construction Meeting	1	Dec/26/23	Dec/26/23	0
GC-1030	Mobilize Site To Begin Construction	3	Dec/26/23	Dec/28/23	0
GC-1040	Jobsite Facilities	163	Dec/26/23	Aug/16/24	0
GC-1050	Temporary Fencing	163	Dec/26/23	Aug/16/24	0
GC-1060	Surveying	163	Dec/26/23	Aug/16/24	0
GC-1070	Dust Control	163	Dec/26/23	Aug/16/24	0
GC-1080	Project Superintndent	163	Dec/26/23	Aug/16/24	0
GC-1090	Site Security	163	Dec/26/23	Aug/16/24	0
GC-1130	Schedule Updates	163	Dec/26/23	Aug/16/24	0
GC-1140	Safety Manager	163	Dec/26/23	Aug/16/24	0
GC-1160	Office Supplies - District Contingency Per Section 01 2100	163	Dec/26/23	Aug/16/24	0
GC-1075	Project Manager	163	Dec/26/23	Aug/16/24	0
GC-1085	Project Engineer	163	Dec/26/23	Aug/16/24	0
GC-1170	Unforeseen Abatement For Soil -District Contingency Per Section 01 2100	163	Dec/26/23	Aug/16/24	0
SWPPP		163	Dec/26/23	Aug/16/24	0
SW-1000	Monthly Monitoring	163	Dec/26/23	Aug/16/24	0
SW-1010	Weekly Check (Wet Season)	163	Dec/26/23	Aug/16/24	0
CONSTRUCTION		126	Dec/29/23	Jun/27/24	0
TRACK AND FIELD		86	Dec/29/23	Apr/30/24	0
TF-1000	Potholing	5	Dec/29/23	Jan/05/24	0
TF-1010	Hazardous Material Mitigation	5	Jan/08/24	Jan/12/24	0
TF-1015	Remove Existing Grass	3	Jan/08/24	Jan/10/24	0
TF-1016	Haul Off Grass	2	Jan/11/24	Jan/12/24	0
TF-1019	Remove Existing Electrical	2	Jan/15/24	Jan/16/24	0
TF-1026	Saw Cutting	1	Jan/15/24	Jan/15/24	0
TF-1027	Remove Trees	2	Jan/15/24	Jan/16/24	0
TF-1020	Remove Ac Paving	3	Jan/16/24	Jan/18/24	0
TF-1028	Rough Grade Field / Haul Off	6	Jan/17/24	Jan/24/24	0
TF-1021	Remove Stairs	2	Jan/17/24	Jan/18/24	0
TF-1022	Remove Scoreboard	2	Jan/17/24	Jan/18/24	0
TF-1024	Remove Existing Storm Drain	3	Jan/17/24	Jan/19/24	0
TF-1025	Remove Curbs	2	Jan/17/24	Jan/18/24	0
TF-1030	Finish Grading Field / Haul Off	6	Jan/25/24	Feb/01/24	0
TF-1032	Rough Grade Track / Haul Off	10	Feb/02/24	Feb/15/24	0
TF-1033	Compact Subgrade For Track	3	Feb/16/24	Feb/21/24	0
TF-1050	Excavate For Wall Footings At Outside Track Area	5	Feb/22/24	Feb/28/24	0
TF-1240	Install Field Drainage	10	Mar/21/24	Apr/03/24	0
TF-1390	Install Flatdrains	2	Apr/18/24	Apr/19/24	0
TF-1410	Install Permeable Base	4	Apr/24/24	Apr/29/24	0
TF-1690	Soccer Goal Anchors	1	Apr/30/24	Apr/30/24	0
WEST SIDE IMPROVEMENT WITH STAIRS		20	Feb/29/24	Mar/27/24	0
TF-1060	Form Wall Footings	5	Feb/29/24	Mar/06/24	0
TF-1070	Rebar For Wall Footings	5	Mar/07/24	Mar/13/24	0
TF-1080	Pour / Strip Wall Footings	5	Mar/14/24	Mar/20/24	0
TF-1090	Backfill Wall Footings	5	Mar/21/24	Mar/27/24	0
SYNTHETIC TURF FIELD		39	Apr/04/24	May/29/24	0
TF-1300	Install Field Cooling System	8	Apr/04/24	Apr/15/24	0
TF-1340	Install Geotextile Fabric	2	Apr/16/24	Apr/17/24	0
TF-1400	Install Trex Header	2	Apr/22/24	Apr/23/24	0
TF-1430	Install Synthetic Turf (Phase I)	10	May/01/24	May/14/24	0
TF-1432	Install Synthetic Turf (Phase II)	10	May/15/24	May/29/24	0
SYNTHETIC TRACK SURFACING		20	May/30/24	Jun/27/24	0
TF-1590	Track Surfacing Base Mat	5	May/30/24	Jun/06/24	0
TF-1592	Track Surfacing Top Layers	10	Jun/07/24	Jun/20/24	0
TF-1594	Track Striping	5	Jun/21/24	Jun/27/24	0
SITE WORK (PAVING, FENCING AND GATES)		5	Jun/21/24	Jun/27/24	0
TF-1600	Install Fence Fabric / Gates	5	Jun/21/24	Jun/27/24	0
TF-1610	Install Drinking Fountains	3	Jun/25/24	Jun/27/24	0
PROJECT CLOSE OUT		5	Jun/28/24	Jul/08/24	0
GC-1200	Cleanup	2	Jun/28/24	Jul/01/24	0
GC-1210	Punchlist	2	Jul/02/24	Jul/03/24	0
GC-1215	Track And Field Complete	1	Jul/08/24	Jul/08/24	0
GC-1220	Project Turnover	0		Jul/08/24	0



Actual Level of Effort | Remaining Work | Page 1 of 1 | TASK filter: Longest Path.

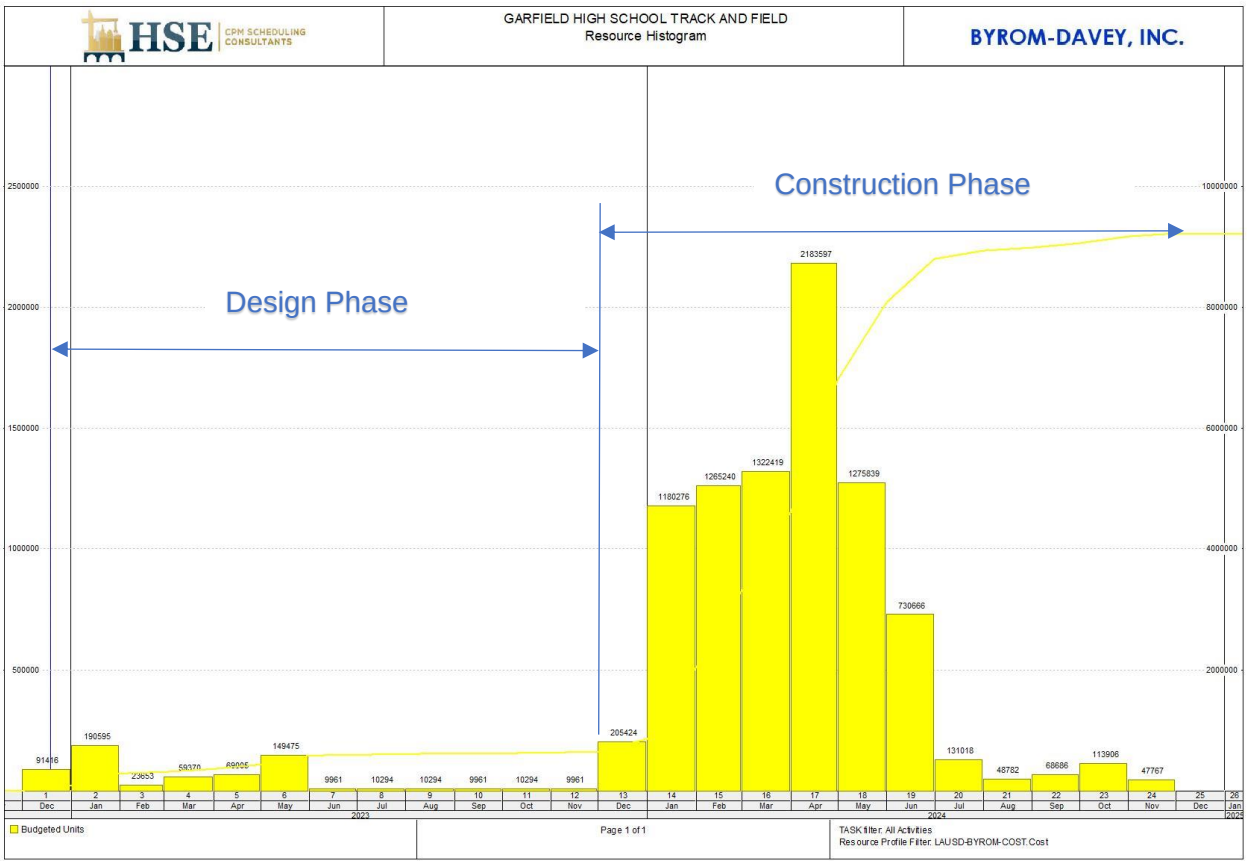
Critical Path 1 of 1

8. Resource Histogram



The resource histogram illustrates the monthly resource requirements throughout the project, with the design phase extending from NTP until December 2023. Resource demand will reach its highest point in April 2024, while July 2024 will experience the lowest resource utilization.

9. Cost Histogram



The provided histogram illustrates the cost distribution across the project's timeline. Costs are relatively low during the Design phase. However, once the Construction phase commences, costs notably escalate, reaching their zenith in April 2024 at $2,183,597, and hitting their lowest point in November 2024 at $47,767.

10. Activity Coding

The activities on this project were coded according to the specifications by Area, Type of Work, CSI Division, Responsibility, Stage, SPEC and SBST as following Pictures:

By Area

Activity ID	Activity Name	Original Duration	Start	Finish
	MILESTONES	696	Dec/19/22	Nov/13/24
	DESIGN PACKAGE 1	696	Dec/19/22	Nov/13/24
	GENERAL CONDITIONS	163	Dec/26/23	Aug/16/24
	SUBMITTAL / PROCUREMENT	75	Dec/29/23	Mar/12/24
	SWPPP	163	Dec/26/23	Aug/16/24
	TRACK AND FIELD	129	Dec/29/23	Jul/02/24
	PARKING AREA	21	Apr/30/24	May/29/24
	No AREA-LAUSD	696	Dec/19/22	Nov/13/24

By SBST:

Activity ID	Activity Name	Original Duration	Start	Finish
	MILESTONES	696	Dec/19/22	Nov/13/24
	DESIGN	696	Dec/19/22	Nov/13/24
	PARKING AREA	21	Apr/30/24	May/29/24
	SUBMITTAL	75	Dec/29/23	Mar/12/24
	GENERAL CONDITIONS	163	Dec/26/23	Aug/16/24
	POTHOLING	5	Dec/29/23	Jan/05/24
	HAZARDOUS MATERIAL MITIGATION	5	Jan/08/24	Jan/12/24
	DEMOLITION	10	Jan/08/24	Jan/19/24
	SWPPP	163	Dec/26/23	Aug/16/24
	GRADING	50	Jan/17/24	Mar/27/24
	ELECTRICAL	30	Mar/01/24	Apr/11/24
	RETAINING WALL	15	Feb/29/24	Mar/20/24
	DRAINAGE	22	Mar/21/24	Apr/19/24
	WATER SERVICE	1	Apr/04/24	Apr/04/24
	CURBING	25	Feb/23/24	Mar/29/24
	PERMEABLE BASE	4	Apr/24/24	Apr/29/24
	IRRIGATION	15	Apr/05/24	Apr/25/24
	POLE VAULT VENUE	81	Mar/07/24	Jul/01/24
	FIELD	61	Mar/07/24	May/31/24
	LONG JUMP VENUE	8	Mar/12/24	Mar/21/24
	DISCUS VENUE	82	Mar/07/24	Jul/02/24
	TRACK SURFACING	50	Apr/17/24	Jun/27/24
	SYNTHETIC TURF	39	Apr/04/24	May/29/24
	SHOT PUT VENUE	8	May/14/24	May/23/24
	SCOREBOARD	15	Apr/23/24	May/13/24
	FENCING	79	Mar/07/24	Jun/27/24
	BLEACHERS	60	Feb/16/24	May/10/24
	PLANTING	8	May/13/24	May/22/24
	PLUMBING	3	Jun/25/24	Jun/27/24
	RESTROOMS	5	May/14/24	May/20/24
	No SBST	696	Dec/19/22	Nov/13/24

By Spec:

Activity ID	Activity Name	Original Duration	Start	Finish
	PHASING OF THE WORK	608	Dec/5/22	Nov/13/24
	PROJECT COORDINATION	418	Dec/5/22	Nov/13/24
	CONSTRUCTION SCHEDULE	160	Dec/28/23	Aug/16/24
	CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS	160	Dec/28/23	Aug/16/24
	CONTRACT CLOSEOUT	5	Jan/25/24	Jul/05/24
	STORM WATER POLLUTION PREVENTION	160	Dec/28/23	Aug/16/24
	ABATEMENT OF HAZARDOUS MATERIALS	1(	Dec/28/23	Jan/19/24
	DEMOLITION	1(	Dec/28/23	Jan/19/24
	ASBESTOS ABATEMENT AND ASBESTOS RELATED DISTURE	4	Dec/28/23	Jan/03/24
	LEAD ABATEMENT AND LEAD RELATED CONSTRUCTION W	4	Dec/28/23	Jan/03/24
	CONCRETE FORMING ACCESSORIES	41	Dec/28/23	Mar/18/24
	CONCRETE REINFORCING	5(	Dec/28/23	Mar/13/24
	CAST IN PLACE CONCRETE	9(	Dec/28/23	May/10/24
	CONCRETE UNIT MASONRY	71	Dec/28/23	Apr/1/24
	HOT-DIP GALVANIZING	5(	Dec/28/23	Feb/21/24
	METAL FABRICATIONS	12(	Dec/28/23	Jun/28/24
	METAL STAIRSAND RAILINGS	5(	Dec/28/23	Feb/21/24
	JOINT SEALANTS	3(	Dec/28/23	Jan/31/24
	HOLLOW METAL DOORS AND FRAMES	6(	Dec/28/23	Feb/26/24
	ACCESS PANELS AND FRAMES	3(	Dec/28/23	Jan/31/24
	DOOR HARDWARE	7(	Dec/28/23	Mar/12/24
	NON-STRUCTURAL METAL FRAMING	3(	Dec/28/23	Jan/31/24
	GYPSUM BOARD	3(	Dec/28/23	Jan/31/24
	PAINTING AND COATING	8(	Dec/28/23	Apr/29/24
	PAINTING OF EXISTING FACILITIES	3(	Dec/28/23	Jan/31/24
	GRAFFITI-RESISTANT COATINGS	3(	Dec/28/23	Jan/31/24
	SIGNAGE	10(	Dec/28/23	May/22/24
	PHENOLIC TOILET COMPARTMENTS	7(	Dec/28/23	Mar/12/24
	TOILET ACCESSORIES	10(	Dec/28/23	May/22/24
	PLAYFIELD EQUIPMENT & STRUCTURES - MS & HS	12(	Dec/28/23	Jul/03/24
	POLE VAULT LANDING SYSTEM	5(	Dec/28/23	Feb/16/24
	TEST AND ACCEPTANCE REQUIREMENTS	3(	Dec/28/23	Jan/31/24
	COMMON WORK RESULTS FOR ELECTRICAL	3(	Dec/28/23	Jan/31/24
	BASIC ELECTRICAL MATERIALS AND METHODS	3(	Mar/13/24	Apr/11/24
	LOW-VOLTAGE WIRES (600 VOLT AC)	3(	Dec/28/23	Jan/31/24
	GROUNDING AND BONDING	3(	Dec/28/23	Jan/31/24
	RACEWAYS AND BOXES FITTING AND SUPPORTS	3(	Dec/28/23	Jan/31/24
	ELECTRICAL SYSTEMS COMMISSIONING	3(	Dec/28/23	Jan/31/24
	PREMISES WIRING FOR CONVERGENCE OF COMMUNICA	3(	Dec/28/23	Jan/31/24
	CONVERGED IP PUBLIC ADDRESS AND INTERCOMMUNIC	3(	Dec/28/23	Jan/31/24
	GRADING	7(	Jan/1/24	May/10/24
	BASE COURSE	5(	Dec/28/23	Feb/16/24
	EXCAVATION AND FILL (SYNTHETIC PLAY FIELDS)	8(	Dec/28/23	Apr/25/24
	ASPHALT PAVEMENT REPAIR	3(	Dec/28/23	Jan/31/24
	ASPHALT PAVING	10(	Dec/28/23	May/22/24
	SEAL FOR BITUMINOUS SURFACING	3(	Dec/28/23	Jan/31/24
	SITE CONCRETE WORK	9(	Dec/28/23	May/13/24
	PRECAST CONCRETE PARKING BUMPERS	10(	Dec/28/23	May/24/24
	DETECTABLE WARNING SURFACING	10(	Dec/28/23	May/24/24
	SYNTHETIC FIELD SPORT SURFACING	12(	Dec/28/23	Jun/28/24
	SYNTHETIC RUNNING TRACK SURFACING	3(	Dec/28/23	Jan/31/24
	POTABLE WATER IRRIGATION	8(	Dec/28/23	Apr/25/24
	IRRIGATION CONTROLS	4(	Dec/28/23	Feb/16/24
	PLANTING	10(	Dec/28/23	May/22/24
	SITE WATER DISTRIBUTION SYSTEMS	12(	Dec/28/23	Jun/28/24
	SITE SANITARY SEWER UTILITIES	3(	Dec/28/23	Jan/31/24
	STORM DRAINAGE UTILITIES	7(	Dec/28/23	Apr/18/24
	No SPEC	608	Dec/5/22	Nov/13/24

By Division:

Activity ID	Activity Name	Original Duration	Start	Finish
	GENERAL REQUIREMENTS	478	Dec/19/22	Nov/13/24
	EXISTING CONDITIONS	15	Dec/29/23	Jan/19/24
	CONCRETE	94	Dec/29/23	May/10/24
	MASONRY	77	Dec/29/23	Apr/17/24
	METALS	128	Dec/29/23	Jun/27/24
	THERMAL AND MOISTURE PROTECTION	34	Dec/29/23	Jan/31/24
	OPENINGS	75	Dec/29/23	Mar/12/24
	FINISHES	80	Dec/29/23	Apr/22/24
	SPECIALITIES	102	Dec/29/23	May/22/24
	EQUIPMENT	125	Dec/29/23	Jul/02/24
	ELECTRICAL	73	Dec/29/23	Apr/11/24
	COMMUNICATIONS	34	Dec/29/23	Jan/31/24
	EARTHWORK	87	Dec/29/23	May/01/24
	EXTERIOR IMPROVEMENTS	128	Dec/29/23	Jun/27/24
	UTILITIES	128	Dec/29/23	Jun/27/24
	No DIVISION	696	Dec/19/22	Nov/13/24

By Type of Work:

Activity ID	Activity Name	Original Duration	Start	Finish
	MILESTONES	696	Dec/19/22	Nov/13/24
	DESIGN PACKAGE 1	696	Dec/19/22	Nov/13/24
	SUBMITTALS / PROCUREMENT	75	Dec/29/23	Mar/12/24
	GENERAL CONDITIONS	163	Dec/26/23	Aug/16/24
	SWPPP	163	Dec/26/23	Aug/16/24
	CONSTRUCTION	125	Dec/29/23	Jul/02/24
	No TYPE-LAUSD	696	Dec/19/22	Nov/13/24

By Responsibility:

Activity ID	Activity Name	Original Duration	Start	Finish
	DESIGN	696	Dec/19/22	Nov/13/24
	BDI	478	Dec/19/22	Nov/13/24
	SUBCONTRACTOR	163	Dec/26/23	Aug/16/24
	No RESP	696	Dec/19/22	Nov/13/24

By Stage:

Activity ID	Activity Name	Original Duration	Start	Finish
	DESIGN	696	Dec/19/22	Nov/13/24
	SUBMITTAL	75	Dec/29/23	Mar/12/24
	PARKING AREA	21	Apr/30/24	May/29/24
	GENERAL CONDITIONS	163	Dec/26/23	Aug/16/24
	SWPPP	163	Dec/26/23	Aug/16/24
	MILESTONES	696	Dec/19/22	Nov/13/24
	DEMO / GRADING	62	Dec/29/23	Mar/27/24
	CONCRETE	36	Feb/29/24	Apr/18/24
	UNDERGROUND UTILITIES	2	Apr/18/24	Apr/19/24
	LANDSCAPING	15	Apr/05/24	Apr/25/24
	FIELD	95	Feb/16/24	Jul/02/24
	No STAGE	696	Dec/19/22	Nov/13/24

11. Conclusion

Scope of Work:

The scope of work of Garfield track and field project includes activities across different sections. These include site preparation, removal of existing structures, installation of new features such as curbing and drainage, as well as specialized installations like synthetic turf fields, track surfacing, and sports venue equipment. The project also involves upgrades for accessibility, landscaping, and infrastructure enhancements such as electrical work, irrigation, and signage installation. Overall, the scope aims to create functional and safe facilities for various sports and recreational activities.

Key Dates:

Item	Start	Finish
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
150 Calendar Days From NTP-D	Dec/19/2022	May/16/2023
60 Calendar Days After the Effective Date of the NTP-P	Dec/19/2022	Feb/15/2023
MS05 - PRE-CONSTRUCTION SCHEDULING CONFERENCE WITH OAR	Jan/10/2023	
7 Calendar Days of Completion of Milestone 2-Ms #02	Jan/10/2023	Jan/16/2023
MS02 - FIELD VERIFICATION OF SITE AND REFERENCE DOCUMENTS	Jan/17/2023	
MS06 - PRELIMINARY CONSTRUCTION SCHEDULE	Jan/17/2023	
MS03 - PHASING PLAN & SITE USAGE/LOGISTICS PLAN	Feb/16/2023	
MS08 - DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS	May/17/2023	
30 Calendar Days After DSA Submittal Of 100% Documents-MS #08	May/17/2023	Jun/14/2023
180 Calendar Days After DSA Submittal Of 100% Documents-MS #08	May/17/2023	Nov/12/2023
MS07 - PROPOSED BASELINE SCHEDULE	Jun/15/2023	
30 Calendar Days After the Proposed Schedule MS #07	Jun/15/2023	Jul/14/2023
MS10 - BASELINE CONSTRUCTION SCHEDULE COMPLETE		Jul/14/2023
MS09 - DSA REVIEW OF DOCUMENTS		Nov/12/2023
30 Calendar Days from The Release of Back Check	Nov/13/2023	Dec/11/2023
10 Calendar Days After the DSA REVIEW OF DOCUMENTS MS09	Nov/13/2023	Nov/21/2023
Design Build Contractor Revise & Resubmit 100% CD		Nov/21/2023
MS11 - DSA APPROVAL OF PROJECT	Dec/12/2023	
14 Calendar Days After DSA Approval of Plans	Dec/12/2023	Dec/24/2023
MS12 - NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C)	Dec/25/2023	
MS13 - DISTRICT CONTROLLED SCHEDULE CONTINGENCY ALLOWANCE	Jul/09/2024	Jul/23/2024
MS14 - WEATHER RAIN IMPACT ALLOWANCE	Jul/24/2024	Aug/16/2024
MS15 - SUBSTANTIAL COMPLETION		Aug/16/2024
10 Calendar Days After Substantial Completion	Aug/17/2024	Aug/25/2024
30 Calendar Days After Substantial Completion	Aug/17/2024	Sep/14/2024
90 Calendar Days After Substantial Completion	Aug/17/2024	Nov/12/2024
MS16 - OWNERS MOVE-IN		Aug/25/2024
MS17 - CONSTRUCTION CLOSEOUT		Sep/14/2024
MS18 - FINAL CONSTRUCTION COMPLETION OF PROJECT		Sep/14/2024
MS19 - FINAL DESIGN CLOSEOUT		Sep/14/2024
MS20 - DSA CERTIFICATION BY PHASE		Nov/13/24

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 aday and it’s assigned to milestones and design package activities.

Critical path:

The GARFIELD HIGH SCHOOL TRACK AND FIELD project is outlined to commence on December 19, 2022, and is projected to conclude by November 13, 2024. The project consists of various milestones and phases that are essential for its successful completion.

The initial milestones encompass the NOTICE TO PROCEED phases, with the PRECONSTRUCTION SERVICES (NTP-P) and DESIGN (NTP-D) initiated on December 19, 2022. The subsequent 150 CALENDAR DAYS period after NTP-D extends until May 16, 2023. This is followed by the DSA SUBMITTAL OF 100% CONSTRUCTION DOCUMENTS milestone on May 17, 2023, and a subsequent 180 CALENDAR DAYS phase until November 12, 2023.

Further key milestones include DSA REVIEW OF DOCUMENTS on November 13, 2023, with a 30 CALENDAR DAYS timeframe for this stage. The DSA APPROVAL OF PROJECT milestone is projected for December 12, 2023, with a 14 CALENDAR DAYS window afterward. Subsequently, the NOTICE TO PROCEED WITH CONSTRUCTION (NTP-C) is scheduled for December 26, 2023.

General conditions encompassing PLA/CONTRACTOR TRADE ASSIGNMENT PERIOD, PRE-CONSTRUCTION MEETING, and MOBILIZE SITE TO BEGIN CONSTRUCTION are planned

between December 26 and 28, 2023. The CONSTRUCTION phase starts on December 29, 2023, and spans until June 27, 2024.

Activities within the TRACK AND FIELD phase begin on December 29, 2023, and proceed through April 30, 2024. These include tasks like potholing, hazardous material mitigation, grass removal, electrical dismantling, tree removal, and the installation of various features like curbing and drainage systems.

The WEST SIDE IMPROVEMENT WITH STAIRS phase, from February 29 to March 27, 2024, involves activities such as forming wall footings, installing rebar, pouring and stripping wall footings, and backfilling.

The SYNTHETIC TURF FIELD phase, scheduled from April 4 to May 29, 2024, includes tasks like installing a field cooling system, geotextile fabric, Trex header, and synthetic turf in two phases.

The SYNTHETIC TRACK SURFACING phase, slated from May 30 to June 27, 2024, encompasses the application of track surfacing base mats, top layers, and striping.

Lastly, the SITE WORK (PAVING, FENCING AND GATES) phase, spanning from June 21 to June 27, 2024, involves tasks such as installing fence fabric, gates, and drinking fountains.

The project is designed to be efficiently executed with various timelines and milestones, aiming for completion within the projected timeframe.

Activity Coding:

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

Resource Histogram:

The resource histogram illustrates the monthly resource requirements throughout the project, with the design phase extending from NTP until December 2023. Resource demand will reach its highest point in April 2024, while July 2024 will experience the lowest resource utilization.

Cost Histogram:

The provided histogram illustrates the cost distribution across the project's timeline. Costs are relatively low during the Design phase. However, once the Construction phase commences, costs notably escalate, reaching their zenith in April 2024 at $2,183,597, and hitting their lowest point in November 2024 at $47,767.