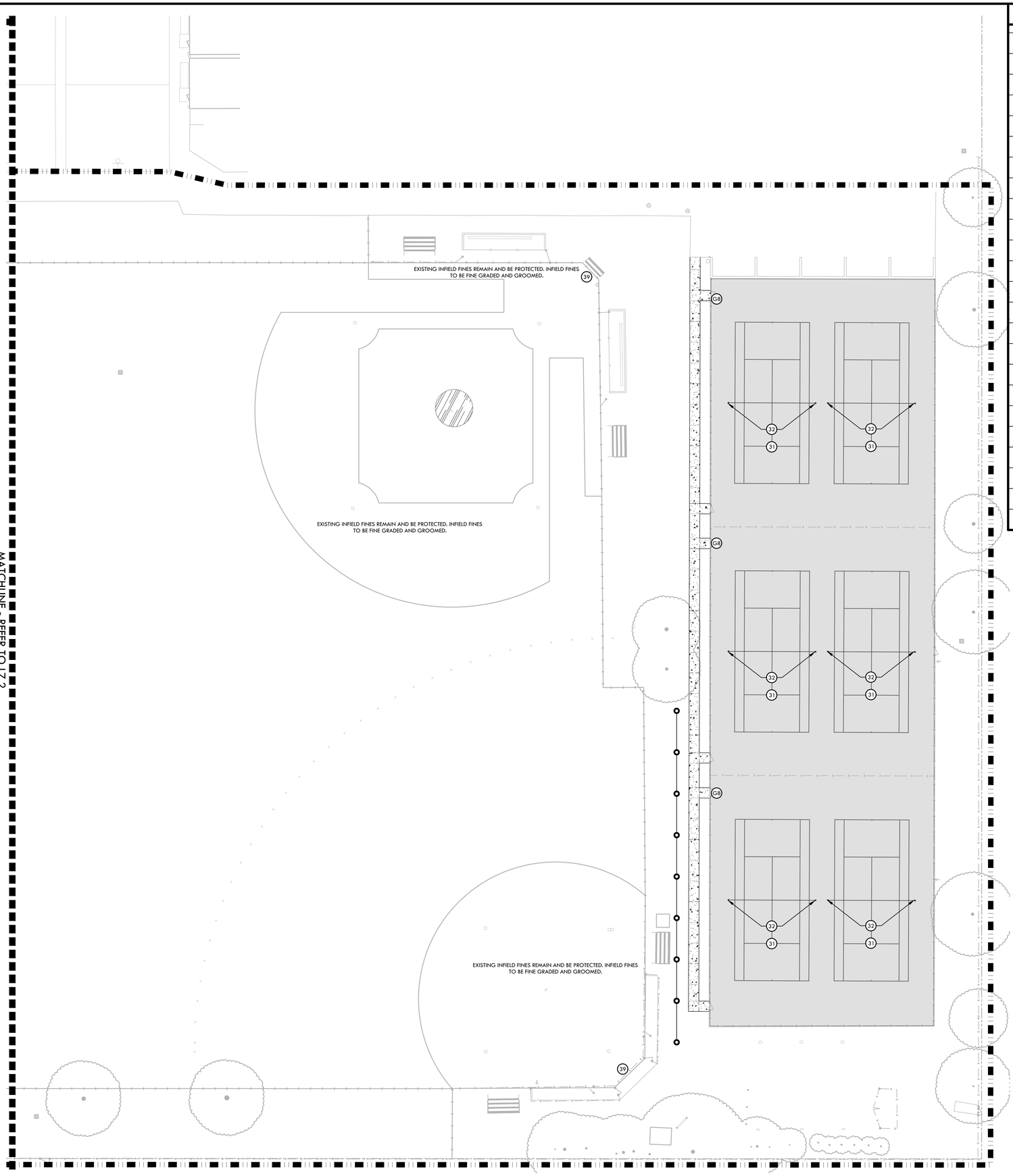

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
18	BASEBALL HOME BULLPEN	G D5.2
19	BASEBALL BATTING CAGE WITH SHED STYLE ROOF AND LIGHTS	K D5.1
20	ELEVATED SCORER'S TABLE BOOTH, REFER TO SPECIFICATIONS	
21	BASEBALL SCOREBOARD, REFER TO NEVCO PLANS	
22	PORTABLE BATTING CAGE STORAGE AREA	
23	6" WIDE EDGEBAND	E D2.1
24	12" WIDE EDGEBAND	G D2.1
25	18" WIDE EDGEBAND WITH FENCE	H D2.1
26	12" WIDE TALL CURB	J D2.1
27	18" WIDE TALL CURB WITH FENCE	K D2.1
28	DRINKING FOUNTAIN - PEDESTAL	K D1.1
29	DRINKING FOUNTAIN - WALL MOUNTED	L D1.1
30	RE-STRIPE PARKING STALLS	F D3.1
31	TENNIS STRIPING	P D2.1
32	TENNIS POSTS TO BE PAINTED. NEW NETS PROVIDED AND INSTALLED BY CONTRACTOR	
33	RESTROOM BUILDING, REFER TO ARCHITECTURAL PLANS	
34	OUTFIELD DISTANCE BANNERS, REFER TO SPECIFICATIONS	
35	FENCE CAP - YELLOW REFER TO SPECIFICATIONS	
36	FENCE CAP - BLACK REFER TO SPECIFICATIONS	
37	FIRE HYDRANT INSTALLATION	D D1.2
38	HYDRANT PROTECTION	E D1.2
39	EXISTING BACKSTOP BOARDS TO BE PAINTED AND INSTALL NEW HARDWARE AS NECESSARY. COLOR TO MATCH VARSITY BACKSTOP	
40	6" CURB	J D2.1
41	6" WIDE X 24" DEEP EDGEBAND	F D2.1

MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS & REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS & CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS REQ. NOTIFY THE DISTRICT'S REP. IMMEDIATELY SHOULD DISCREPANCY ARISE & REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM & BE SMOOTH & UNIFORM.
3. ALL REINFORCING & FORMS SHALL BE SECURED IN PLACE & ACCEPTED BY DISTRICT'S REP. PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW & POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE DISTRICT'S REP. ACCEPTED SAMPLES SHALL BE PROTECTED & REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES & GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS & SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES & SITE FURNISHING PADS ARE INSTALLED.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
	SYNTHETIC TURF (GREEN)	M D5.1
	INFIELD FINES	A D5.1
	WARNING TRACK FINES	A D5.1
	TRUNCATED DOMES - RECESSED	A D3.1
	CONCRETE PAVING - PEDESTRIAN	A D2.1
	ASPHALT PAVING - VEHICULAR	L D2.1
	TENNIS COURT SURFACING	O D2.1
	EXPANSION JOINT SCORE JOINT	C D2.1
	REDWOOD HEADER BOARD	R D6.2
	42" CHAIN LINK FENCE	E D4.1
	GUARD RAIL SYSTEM	P D4.2
	6' CHAIN LINK FENCE (WITHOUT SLATS) 6' CHAIN LINK FENCE (WITH SLATS)	F D4.1
	8' CHAIN LINK FENCE	G D4.1
	10' CHAIN LINK FENCE (WITH SLATS)	H D4.1
	12' CHAIN LINK FENCE	I D4.1
	14'/16' CHAIN LINK FENCE	J D4.1
	30' CHAIN LINK BACKSTOP	K D4.1
	22' PROTECTIVE NETTING OVER 8' TALL CHAIN LINK FENCE	N D4.2
	18' PROTECTIVE NETTING OVER 12' TALL CHAIN LINK FENCE	N D4.2
	30' PROTECTIVE NETTING (NO FENCE)	M D4.2
	TRENCH DRAIN	J D1.1
G1	42" TALL x 4' WIDE CHAIN LINK SWING GATE	A D4.2
G2	6' TALL x 4' WIDE SWING GATE WITH PANIC HARDWARE	B D4.2
G3	8' TALL x 4' WIDE DOUBLE SWING GATE WITH PANIC HARDWARE	C D4.2
G4	6' TALL x 12' WIDE DOUBLE SWING GATE (WITH OR WITHOUT SLATS)	D D4.2
G5	6' TALL x 20' WIDE DOUBLE SWING GATE	E D4.2
G6	6' TALL x 24' WIDE DOUBLE SWING GATE	E D4.2
G7	8' TALL x 4' WIDE CHAIN LINK SWING GATE WITH NETTING	F D4.2
G8	8' TALL x 4' WIDE CHAIN LINK SWING GATE WITH TRANSOM	G D4.2
G9	8' TALL x 12' WIDE CHAIN LINK DOUBLE SWING GATE	H D4.2
1	SOFTBALL INFIELD	A D5.3
2	BASEBALL INFIELD	A D5.2
3	SOFTBALL BACKSTOP	B D4.3
4	BASEBALL BACKSTOP	A D4.3
5	FOUL POLE AT SOFTBALL	E D5.1
6	FOUL POLE AT BASEBALL	E D5.1
7	SOFTBALL VISITOR BULLPEN	I D5.3
8	SOFTBALL VISITOR DUGOUT (CHAIN LINK)	I D5.1
9	4 ROW ELEVATED BLEACHERS (6 TOTAL), REFER TO SPECIFICATIONS	
10	SOFTBALL HOME DUGOUT (CMU) WITH STORAGE ROOM	A D5.4
11	SOFTBALL HOME BULLPEN	G D5.3
12	SOFTBALL BATTING CAGE WITH SHED STYLE ROOF AND LIGHTS	K D5.1
13	SOFTBALL SCOREBOARD, REFER TO NEVCO PLANS	
14	FLAGPOLE, REFER TO SPECIFICATIONS	
15	BASEBALL VISITOR BULLPEN	I D5.2
16	BASEBALL VISITOR DUGOUT (CHAIN LINK)	I D5.1
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NORTH

0' 10' 20' 40' 60'

VERDE DESIGN
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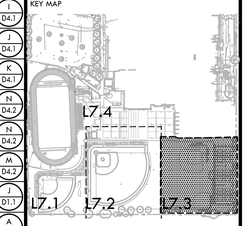
REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP



SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN - JV FIELDS AND TENNIS COURTS

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

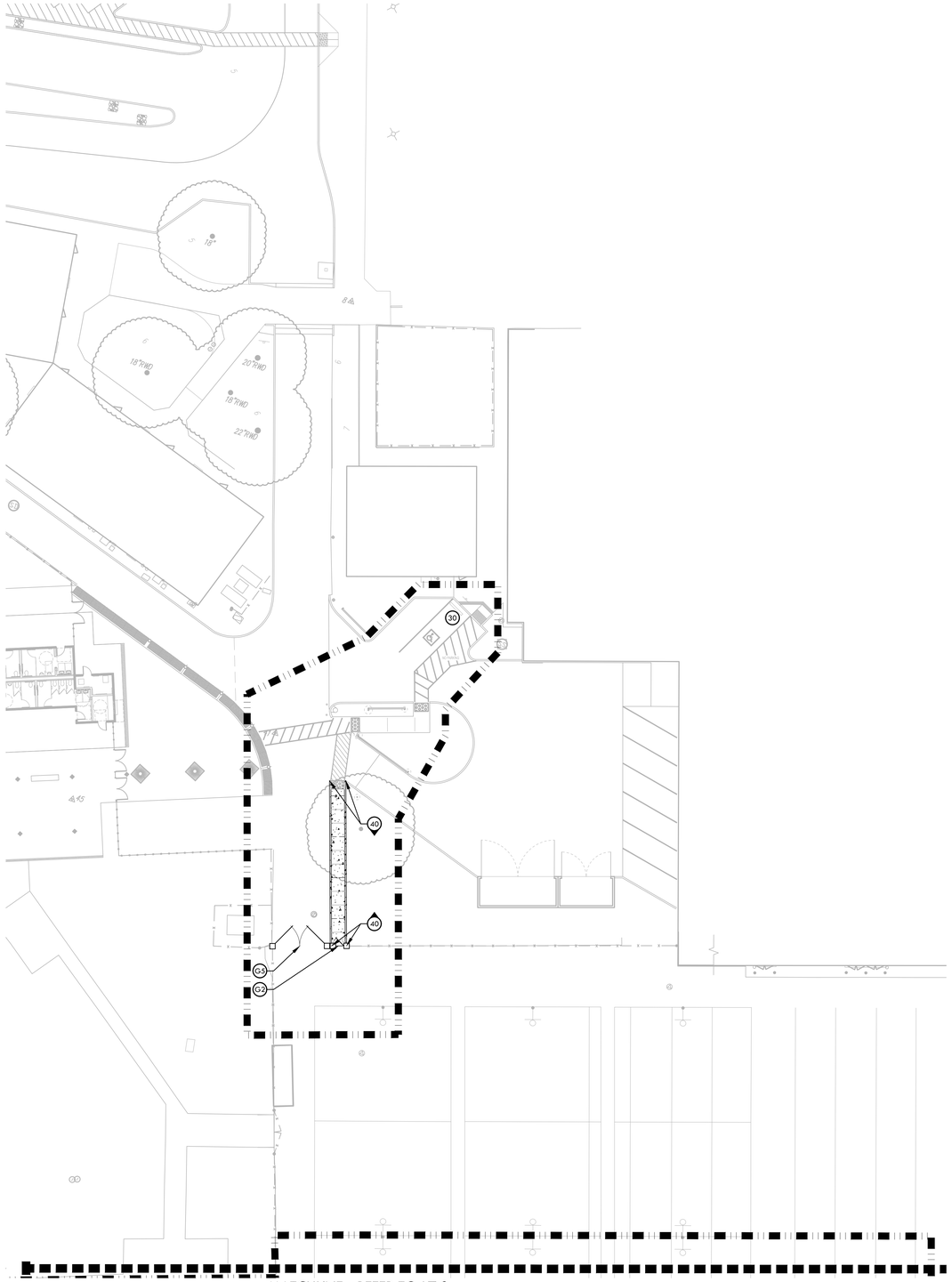
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: JC/RN
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: 1"=20'-0"
PROJ. NO.: 2304200
SHEET NO.: L7.3

DRAWING NAME: Y:\projects-fo\2023\2304200 - JFK HS BB-SB Renovations\CAD_MAT-JFK.dwg
PLOT DATE: 10-24-23 PLOTTED BY: station40-1



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25	18" WIDE EDGEBAND WITH FENCE	H D2.1
26	12" WIDE TALL CURB	J D2.1
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28	DRINKING FOUNTAIN - PEDESTAL	K D1.1
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NORTH

0' 10' 20' 40' 60'

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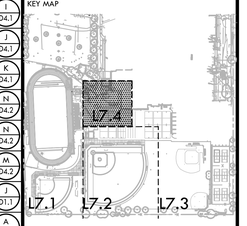
KEY MAP



SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN - ACCESS

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

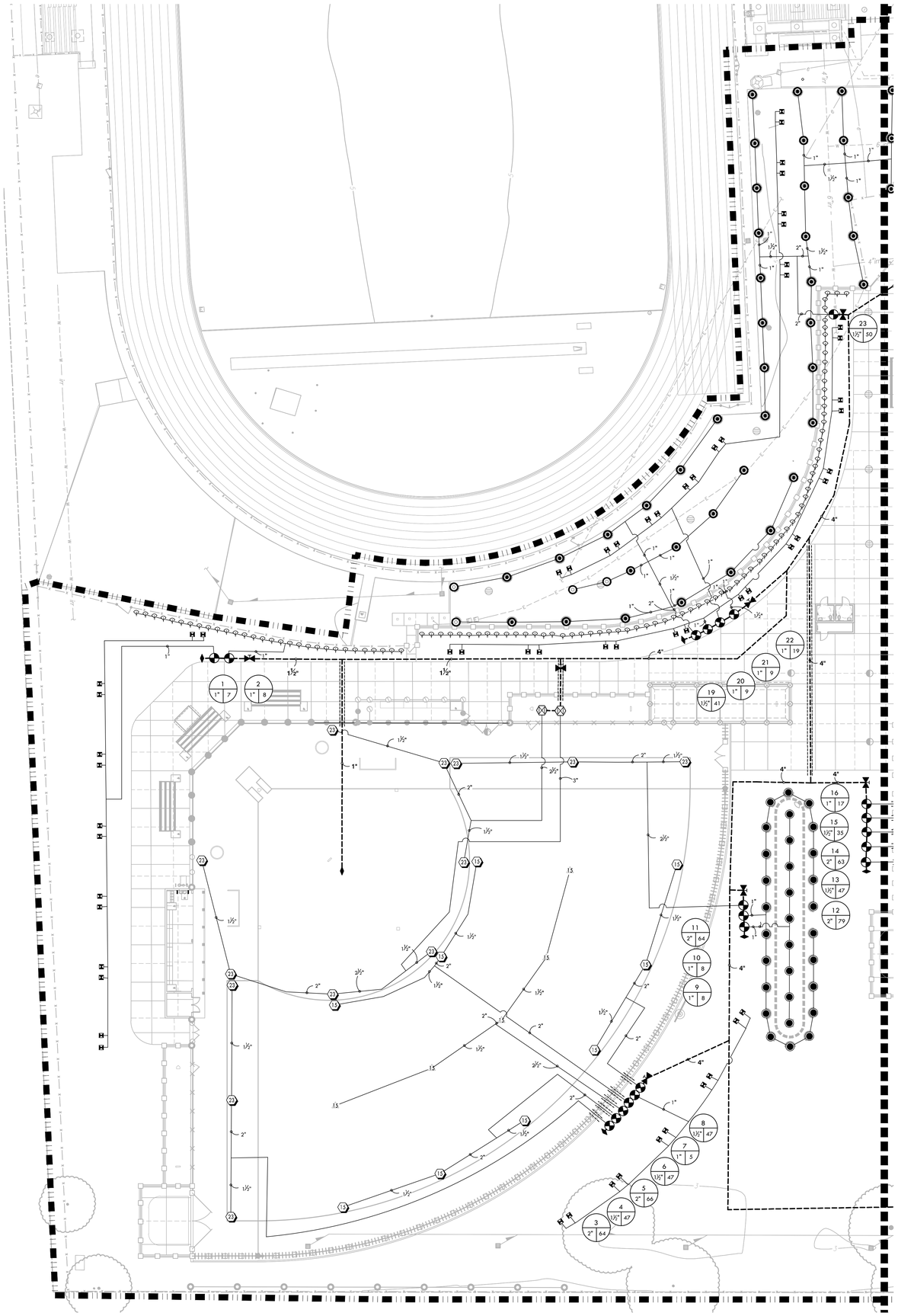
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY: JC/RN
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: 1"=20'-0"
PROJ. NO.: 2304200
SHEET NO.: L7.4

DRAWING NAME: N:\projects-N\2023\2304200 - JFK HS BB-SB Renovations\CAD_MAT-JFK.dwg
PLOT DATE: 10-24-23 PLOTTED BY: station40-1



IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 325 GPM WITH A MAXIMUM 65 STATIC PSI AT THE IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT AND DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 PURPLE P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE FIELD, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN FIELD AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR OPTIMUM COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION AND CONDUIT LEGEND

SYM.	MANUF.	MODEL NO./ DESCRIPTION	DSGN. RAD.	PSI	GPM	DTL REF.
15	HUNTER	I-40-06-SS-ON-15 DUAL OPPOSING NOZZLE	40'-50'	60	13.2	
13	HUNTER	I-40-06-SS-13 ADJUSTABLE SPRAY NOZZLE	43'	60	12.3	
15	HUNTER	I-40-06-SS-15 ADJUSTABLE SPRAY NOZZLE	47'	60	15.7	
23	HUNTER	I-40-06-SS-23 ADJUSTABLE SPRAY NOZZLE	53'	60	21.3	G D6.2
25	HUNTER	I-40-06-SS-25 ADJUSTABLE SPRAY NOZZLE	56'	60	23.9	
2.0	HUNTER	I-20-06-LA-SS-R 2.0 ADJUSTABLE SPRAY NOZZLE	24'	50	2.1	
2.5	HUNTER	I-20-06-LA-SS-R 2.5 ADJUSTABLE SPRAY NOZZLE	28'	50	2.8	
3.5	HUNTER	I-20-06-LA-SS-R 3.5 ADJUSTABLE SPRAY NOZZLE	30'	50	3.5	
0.5	HUNTER	I-20-06-LA-SS-R 0.5 ADJUSTABLE SPRAY NOZZLE	15'	50	0.5	
1000	HUNTER	PROS-06-PRS40-CV-R W/ MP1000 ROTATOR NOZZLES	12'	40	0.21-0.84	
2000	HUNTER	PROS-06-PRS40-CV-R W/ MP2000 ROTATOR NOZZLES	16'	40	0.43-1.48	H D6.2
3000	HUNTER	PROS-06-PRS40-CV-R W/ MP3000 ROTATOR NOZZLES	25'	40	0.86-3.64	
815	HUNTER	PROS-06-PRS40-CV-R W/ MP815 ROTATOR NOZZLES	15'	40	.049-1.87	
2.5	HUNTER	FLOOD BUBBLER PROS-PRS30-06-CV-R-R-PCN	-	40	0.25	Q D6.2
0.25 0.50	HUNTER	18" ROOT ZONE WATERING SYSTEM RZWS-18-50-CV-R	-	40	0.50	M D6.2
	NIBCO	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				C/D D6.2
	RAIN BIRD	44NP QUICK COUPLER VALVE				F D6.2
	SUPERIOR	REMOTE CONTROL VALVE - SUPERIOR 950, SIZE PER PLAN				E D6.2
M	GRISWOLD	MASTER CONTROL VALVE -EXISTING				C D6.1
FS	CST	SADDLE MOUNTED FLOW SENSOR - EXISTING				D D6.1
	WILKINS	REDUCED PRESSURE BACKFLOW ASSEMBLY EXISTING				B D6.1
C		EXISTING IRRIGATION CONTROLLER. HUNTER ACC2. CONTRACTOR TO COORDINATE WITH DISTRICT ON CONTROLLER INSTALLATION DURING CONSTRUCTION.				B D6.2
BP		IRRIGATION BOOSTER PUMP - EXISTING				A D6.1
		LIMIT OF WORK				
		LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		MAIN LINE - CLASS 200 PVC PIPE & RING-TITE FITTINGS AT 24" DEPTH - SIZE AS NOTED.				I D6.2
	SLEEVES	CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
1		CONNECT PROPOSED MAIN LINE TO EXISTING MAIN LINE. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATION AND CONNECT LINE SIZED PIPE.				
2		POINT OF CONNECTION, BOOSTER PUMP, BACKFLOW DEVICE, CONTROLLER BY RMA IRRIGATION				
P.O.C.		POINTS OF CONNECTION - TIE PROPOSED MAIN LINE TO EXISTING MAINLINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE. PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE.				
1 / 1" / 11.5		CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE				

NORTH

0' 10' 20' 40' 60'

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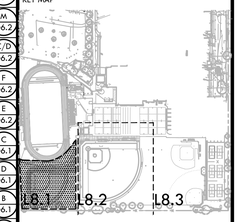
KEY MAP



SHEET TITLE

IRRIGATION PLAN - VARSITY SOFTBALL FIELD

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE SACRAMENTO, CA 95831

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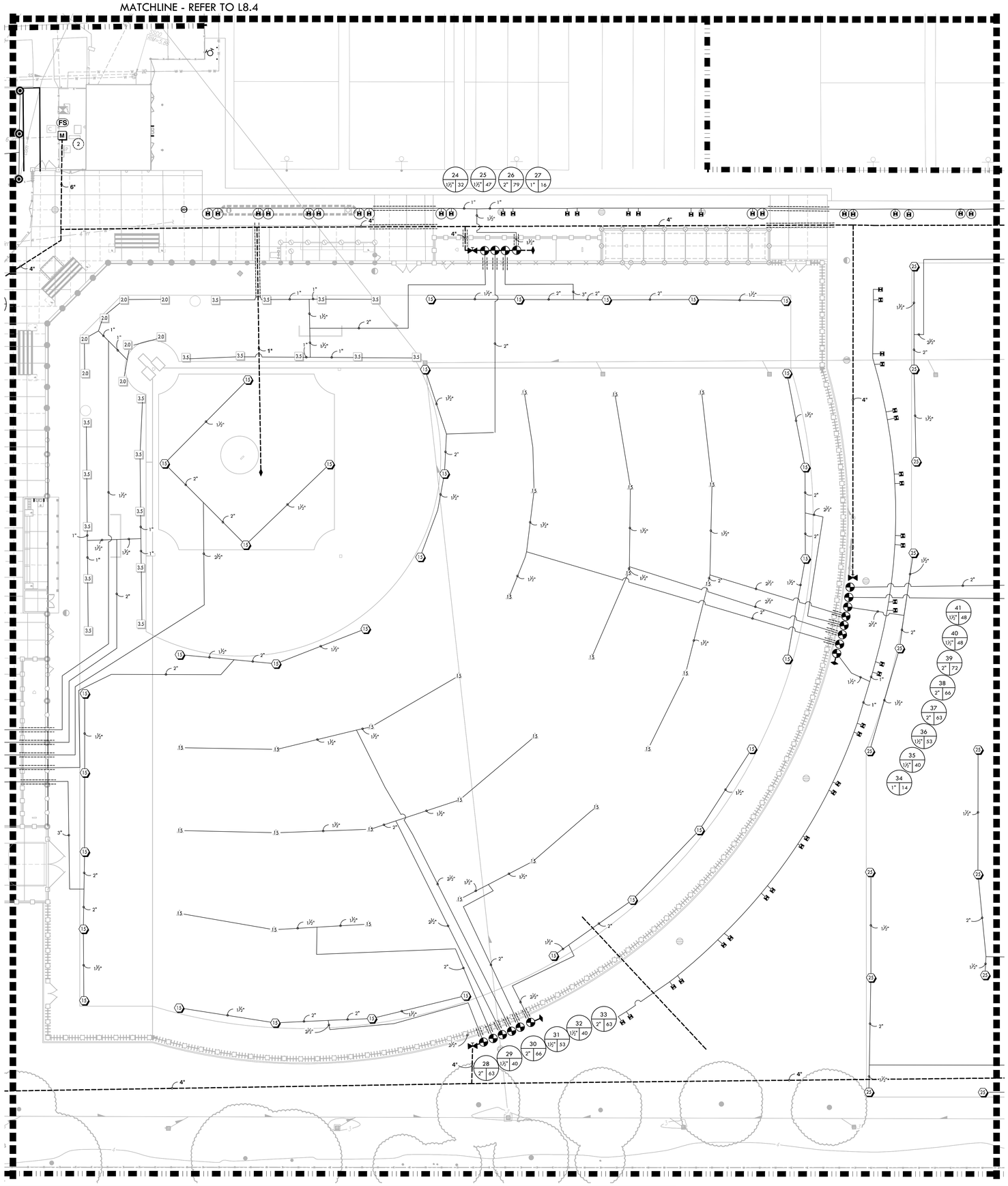
DRAWING NAME: Y:\Projects-FO\2023\2304200 - JFK HS BB-SB Renovations\CAD_IRR_JFK.dwg
PLOT DATE: 10-24-23 PLOTTED BY: station50



IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 325 GPM WITH A MAXIMUM 65 STATIC PSI AT THE IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT AND DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 PURPLE P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE FIELD, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN FIELD AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR OPTIMUM COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION AND CONDUIT LEGEND

SYM.	MANUF.	MODEL NO./ DESCRIPTION	DSGN. RAD.	PSI	GPM	DTL REF.
1.5	HUNTER	I-40-06-SS-ON-1.5 DUAL OPPOSING NOZZLE	40'-50'	60	13.2	
13	HUNTER	I-40-06-SS-13 ADJUSTABLE SPRAY NOZZLE	43'	60	12.3	
15	HUNTER	I-40-06-SS-15 ADJUSTABLE SPRAY NOZZLE	47'	60	15.7	
23	HUNTER	I-40-06-SS-23 ADJUSTABLE SPRAY NOZZLE	53'	60	21.3	G D6.2
25	HUNTER	I-40-06-SS-25 ADJUSTABLE SPRAY NOZZLE	56'	60	23.9	
2.0	HUNTER	I-20-06-LA-SS-R 2.0 ADJUSTABLE SPRAY NOZZLE	24'	50	2.1	
2.5	HUNTER	I-20-06-LA-SS-R 2.5 ADJUSTABLE SPRAY NOZZLE	28'	50	2.8	
3.5	HUNTER	I-20-06-LA-SS-R 3.5 ADJUSTABLE SPRAY NOZZLE	30'	50	3.5	
0.5	HUNTER	I-20-06-LA-SS-R 0.5 ADJUSTABLE SPRAY NOZZLE	15'	50	0.5	
1000	HUNTER	PROS-06-PRS40-CV-R W/ MP1000 ROTATOR NOZZLES	12'	40	0.21-0.84	
2000	HUNTER	PROS-06-PRS40-CV-R W/ MP2000 ROTATOR NOZZLES	16'	40	0.43-1.48	H D6.2
3000	HUNTER	PROS-06-PRS40-CV-R W/ MP3000 ROTATOR NOZZLES	25'	40	0.86-3.64	
815	HUNTER	PROS-06-PRS40-CV-R W/ MP815 ROTATOR NOZZLES	15'	40	.049-1.87	
2.5	HUNTER	FLOOD BUBBLER PROS-PRS30-06-CV-R-R-PCN	-	40	0.25	Q D6.2
0.25 0.50	HUNTER	18" ROOT ZONE WATERING SYSTEM RZWS-18-50-CV-R	-	40	0.50	M D6.2
	NIBCO	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				C/D D6.2
	RAIN BIRD	44NP QUICK COUPLER VALVE				F D6.2
	SUPERIOR	REMOTE CONTROL VALVE - SUPERIOR 950, SIZE PER PLAN				E D6.2
M	GRISWOLD	MASTER CONTROL VALVE -EXISTING				C D6.1
FS	CST	4" CST SADDLE MOUNTED FLOW SENSOR				D D6.1
	WILKINS	REDUCED PRESSURE BACKFLOW ASSEMBLY EXISTING				B D6.1
C	EXISTING IRRIGATION CONTROLLER. HUNTER ACC2. CONTRACTOR TO COORDINATE WITH DISTRICT ON CONTROLLER INSTALLATION DURING CONSTRUCTION.					B D6.2
BP	IRRIGATION BOOSTER PUMP - EXISTING					A D6.1
	LIMIT OF WORK					
	LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.					
	MAIN LINE - CLASS 200 PVC PIPE & RING-TITE FITTINGS AT 24" DEPTH - SIZE AS NOTED.					I D6.2
	SLEEVES	CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
1	CONNECT PROPOSED MAIN LINE TO EXISTING MAIN LINE. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATION AND CONNECT LINE SIZED PIPE.					
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P.O.C.	POINTS OF CONNECTION - TIE PROPOSED MAIN LINE TO EXISTING MAINLINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE. PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE.					
	CONTROLLER STATION NUMBER					
1" 11.5	APPROX. GPM FLOW THROUGH VALVE					
	CONTROL VALVE SIZE					

NORTH

0' 10' 20' 40' 60'

VERDE DESIGN
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fax: 916.415.6525
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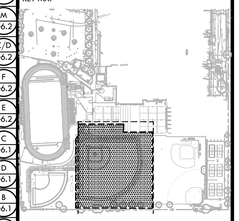
STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4069
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP



SHEET TITLE

IRRIGATION PLAN - VARSITY BASEBALL FIELD

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

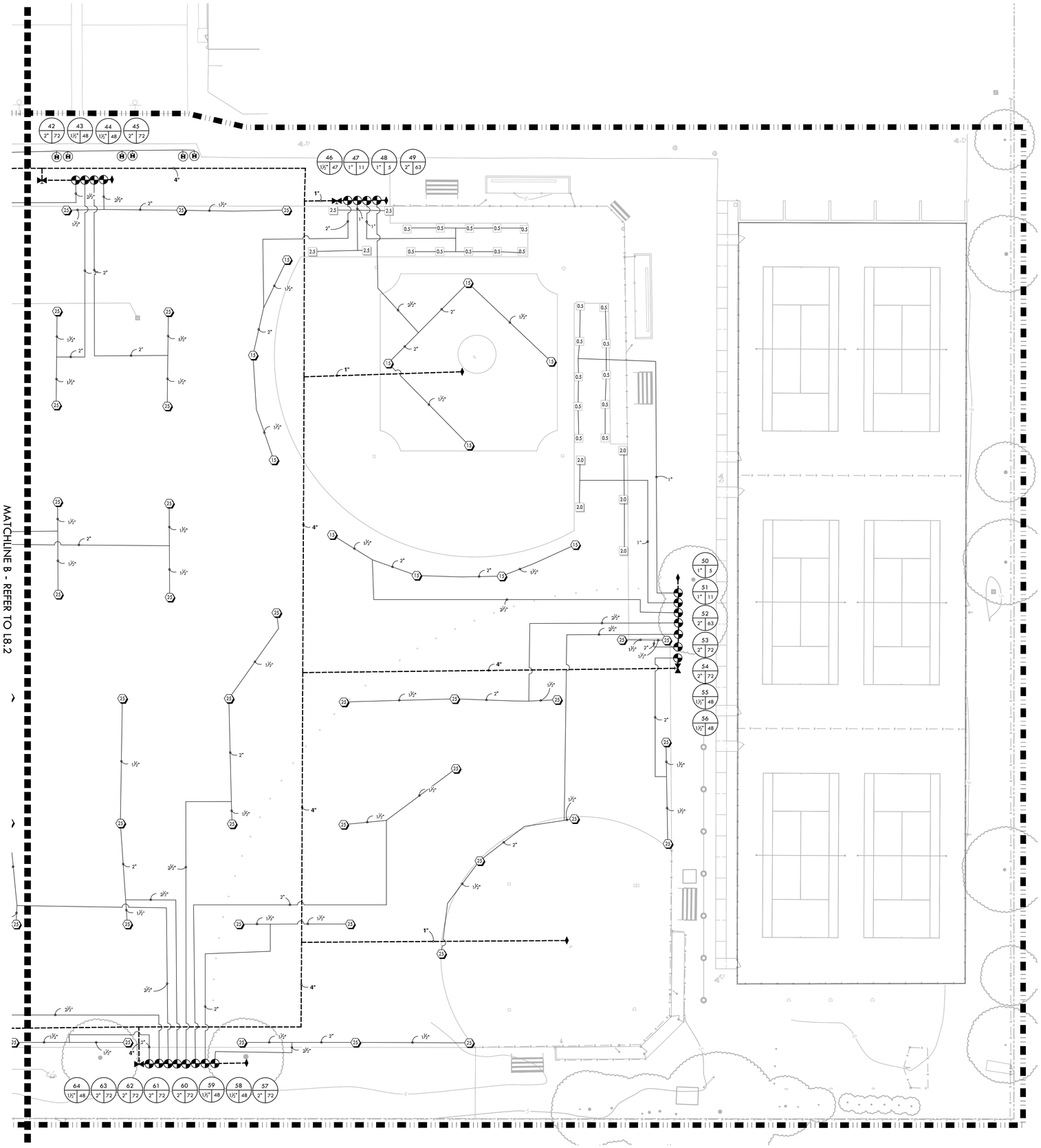
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
RN	CS/MB
DATE ISSUED	SCALE
10/25/23	1"=20'-0"

PROJ. NO. 2304200

SHEET NO. L8.2

DRAWING NAME: Y:\Projects-FO\2023\2304200 — JFK HS BB-SB Renovations\CAD_IRR_JFK.dwg
PLOT DATE: 10-25-23 PLOTTED BY: station50



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1 — CONTROLLER STATION NUMBER
1" | 11.5 — APPROX. GPM FLOW THROUGH VALVE
1" — CONTROL VALVE SIZE

NORTH
0' 10' 20' 40' 60'

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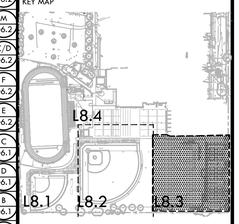
REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4069
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP



SHEET TITLE
IRRIGATION PLAN - JV FIELDS AND TENNIS COURTS

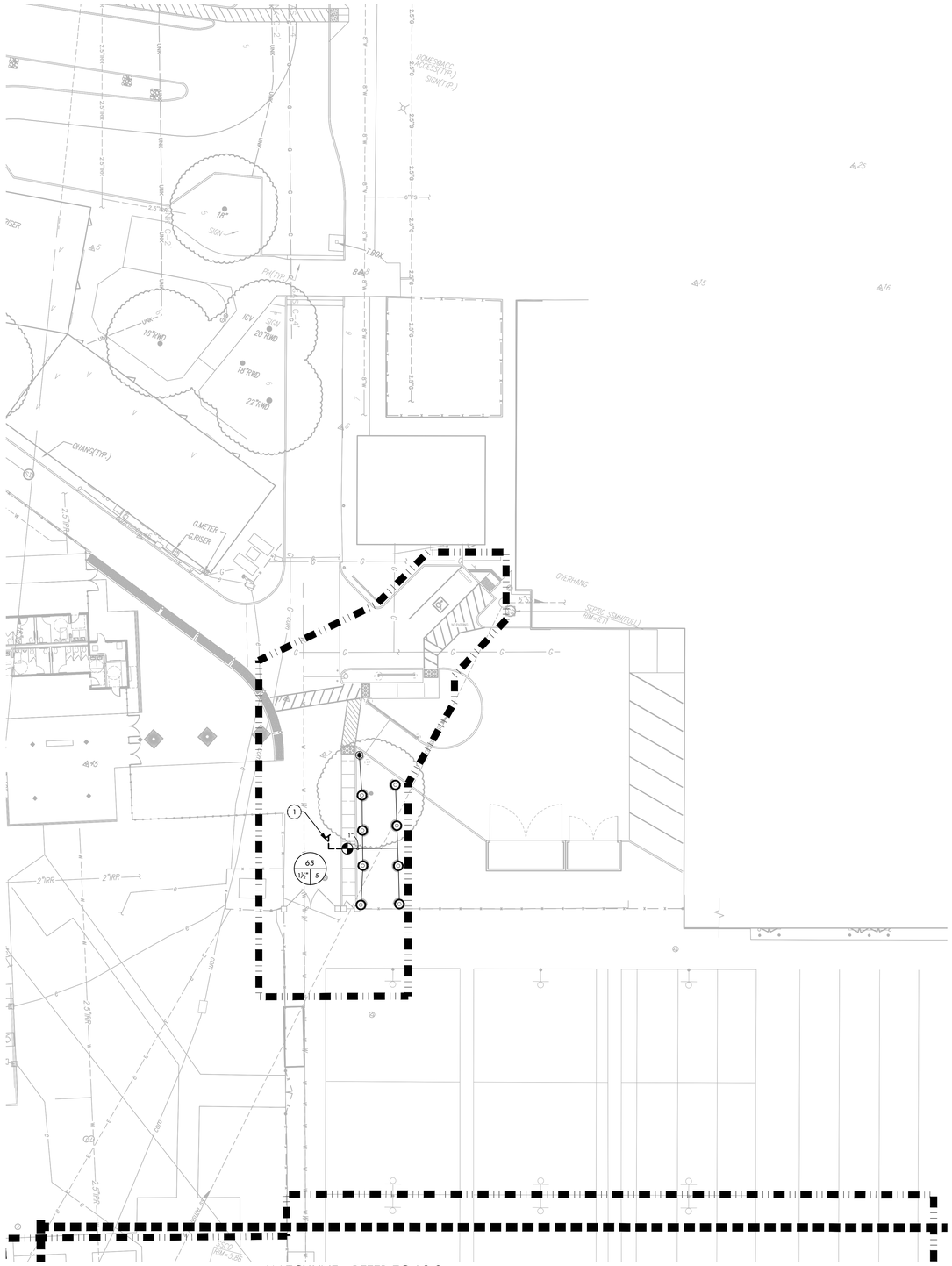
PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY: RN
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: 1"=20'-0"
PROJ. NO.: 2304200
SHEET NO.: L8.3



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NORTH

0' 10' 20' 40' 60'

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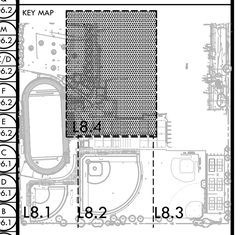
KEY MAP



SHEET TITLE

IRRIGATION PLAN - ACCESS

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

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SHEET NO.: L8.4	

IRRIGATION PLAN - ACCESS

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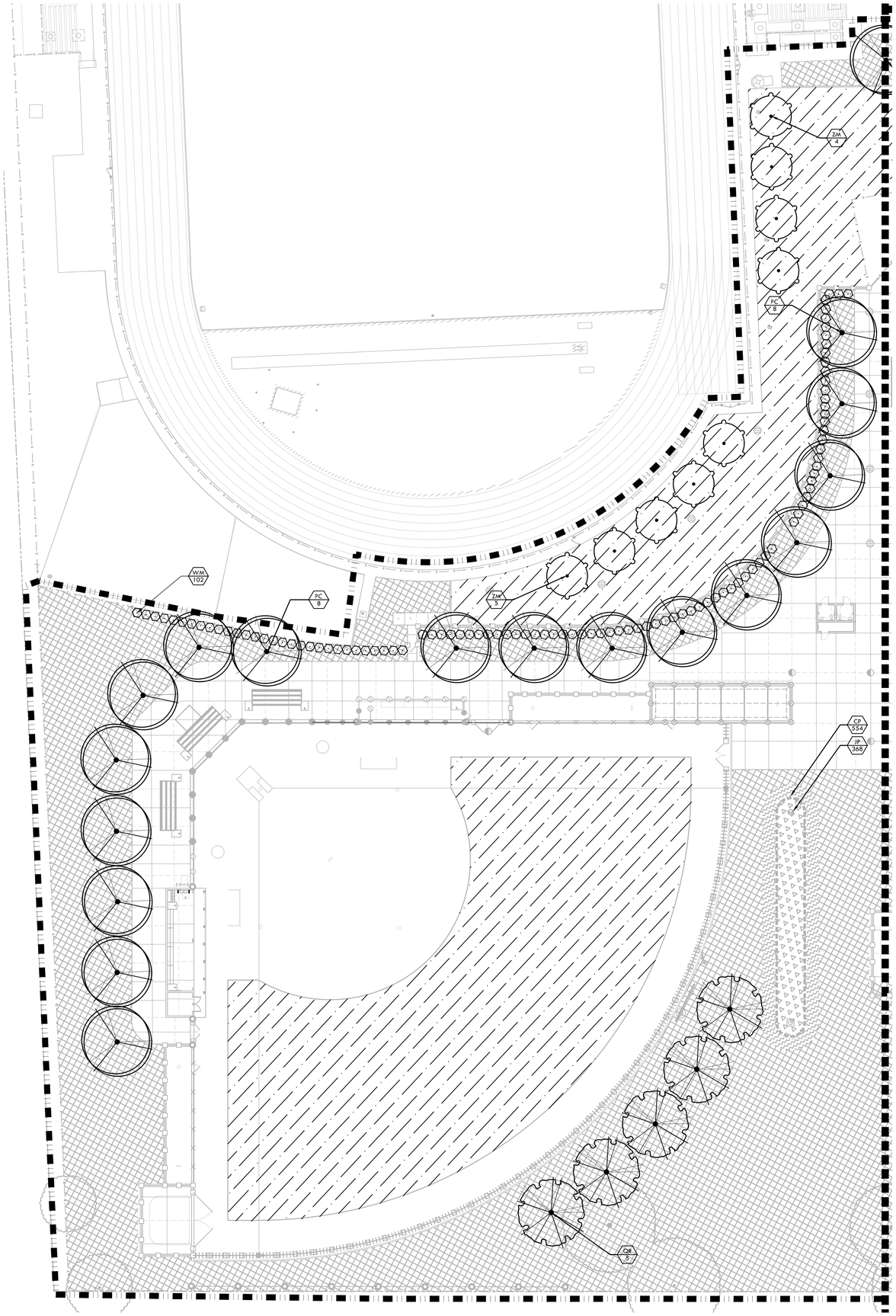

PLANTING NOTES

1. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
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PLANTING LEGEND

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TREES						
PC	34	15 GAL	PISTACIA CHINESIS CHINESE PISTACHE	LOW	PER PLAN	N D6.2
QR	19	15 GAL	QUERCUS RUBRA RED OAK	MEDIUM	PER PLAN	
ZM	9	15 GAL	ZELKOVA SERRATA 'MUSASHINO' MUSASHINO JAPANESE ZELKOVA	MEDIUM	PER PLAN	
FOUNDATION PLANTING						
WM	82	5 GAL	WESTRINGIA FRUTICOSA 'WES05' COAST ROSEMARY	LOW	AS SHOWN	Q D6.2
MISCELLANEOUS						
	SOD, REFER TO SPECIFICATIONS					
	MULCH - REFER TO SPECIFICATIONS					
BIORETENTION AREA - SHRUBS AND GRASSES						
	368	1 GAL	JUNCUS PATENS CALIFORNIA GRAY RUSH	MEDIUM	24" O.C.	O D6.2
	554	1 GAL	CAREX PRAEGRACILIS CLUSTERED FIELD SEDGE	MEDIUM	1'-6" O.C.	

PLANT SYMBOL — LJ
PLANT QUANTITY — 10

HARDSCAPE SHADE

SHADE CALCULATION

35' Diamater Tree Tree Symbol	Shade Percentage	Quantity	Total Shade (sf)
	100% (962 sf/tree)	0	-
	75% (722 sf/tree)		-
	50% (481 sf/tree)		-
	25% (240 sf/tree)	0	0
		Sum	-

30' Diamater Tree Tree Symbol	Shade Percentage	Quantity	Total Shade (sf)
	100% (706 sf/tree)	0	-
	75% (530 sf/tree)	4	2,120
	50% (354 sf/tree)	22	7,788
	25% (177 sf/tree)	2	354
		Sum	10,262

25' Diamater Tree Tree Symbol	Shade Percentage	Quantity	Total Shade (sf)
	100% (491 sf/tree)	0	-
	75% (368 sf/tree)	0	-
	50% (246 sf/tree)	0	-
	25% (123 sf/tree)	0	-
		Sum	-

20' Diamater Tree Tree Symbol	Shade Percentage	Quantity	Total Shade (sf)
	100% (314 sf/tree)	0	-
	75% (236 sf/tree)	0	-
	50% (157 sf/tree)	0	-
	25% (79 sf/tree)	0	-
		Sum	-

		Total Shade Provided	10,262

New Hardscape(sf)	Shade Required - 25% (sf)	Shade Provided (sf)	Percent Shade
32,142	8,036	10,262	32%

NORTH
0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Folsom, CA 95630
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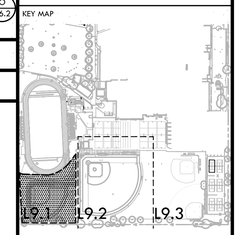
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP
REGISTERED LANDSCAPE ARCHITECT
No. 4909
MARK S. BAGINSKI
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP


SHEET TITLE
PLANTING PLAN - VARSITY SOFTBALL FIELD

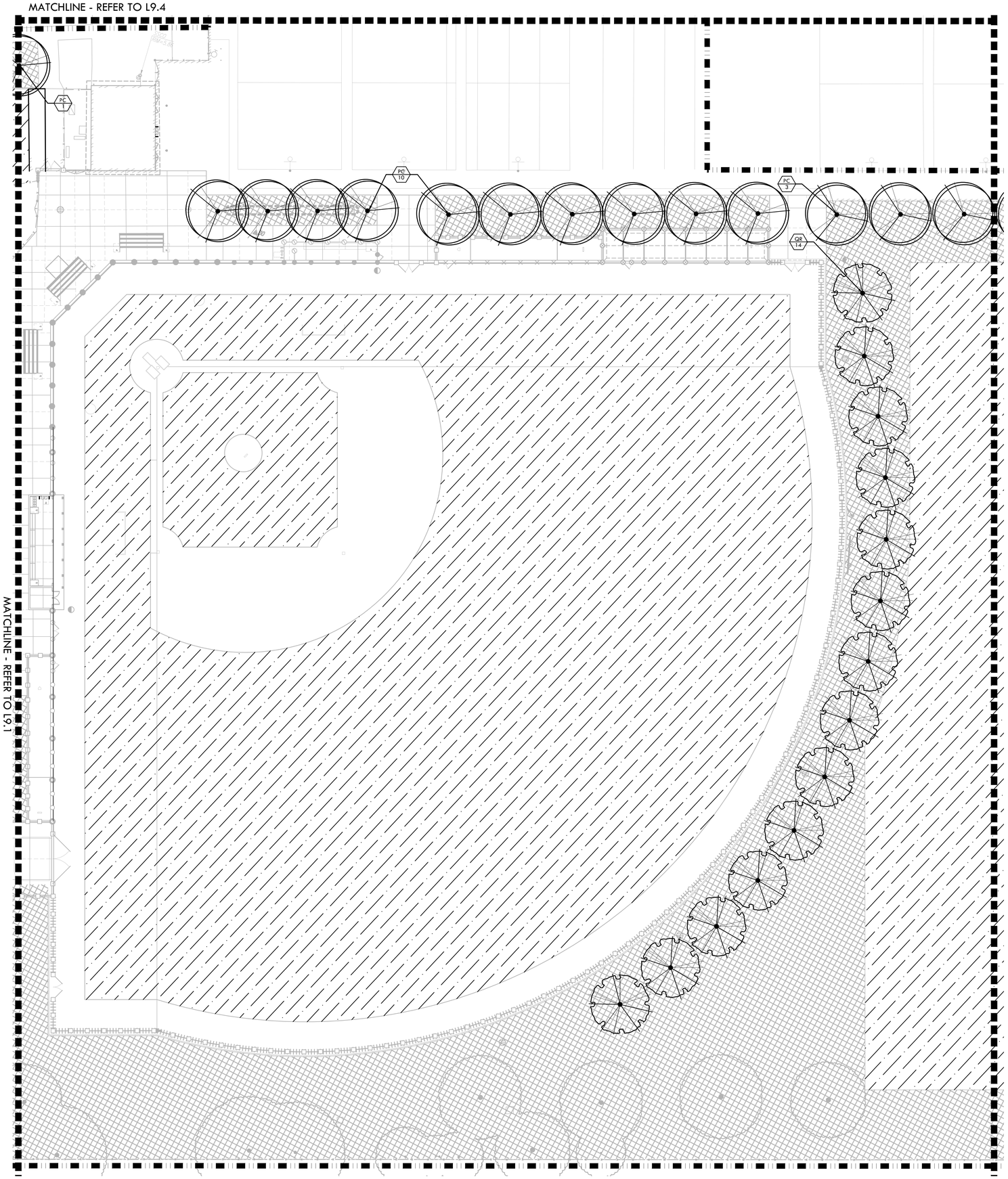
PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY: JC/RN
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: 1"=20'-0"
PROJ. NO.: 2304200
SHEET NO.: L9.1



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WM	82	5 GAL	WESTRINGIA FRUTICOSA 'WES05' COAST ROSEMARY	LOW	AS SHOWN	Q D6.2
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PLANT SYMBOL — LJ
PLANT QUANTITY — 10

NORTH
0' 10' 20' 40' 60'

VERDE DESIGN
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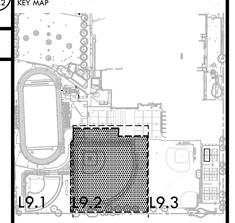
REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4909
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP



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PROJECT ADDRESS
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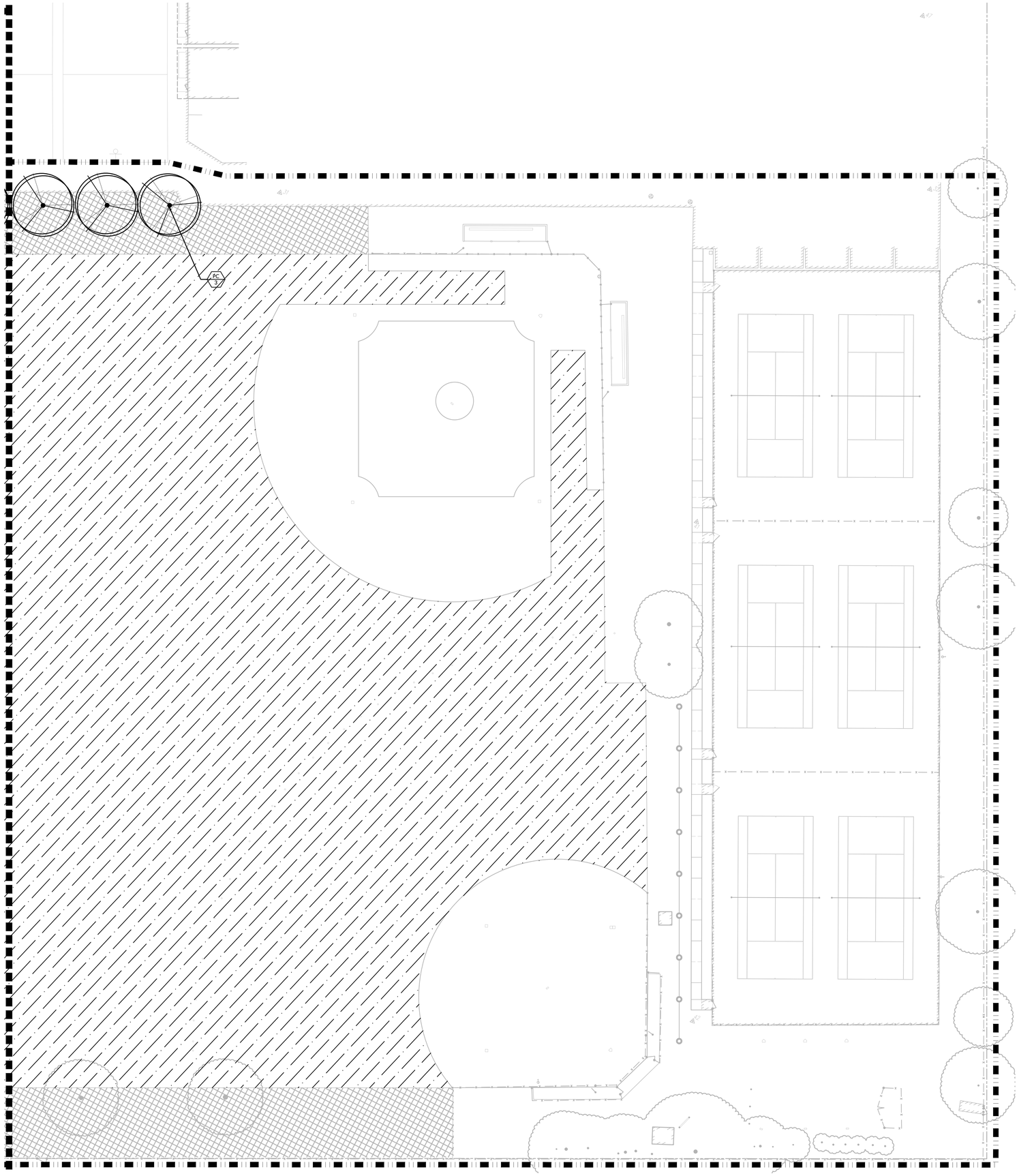
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY: JC/RN
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: 1"=20'-0"
PROJ. NO.: 2304200
SHEET NO.: L9.2

DRAWING NAME: X:\Projects-FY\2023\2304200 - JFK HS BB-SB Renovations\CAD_PLT-JFK.dwg
PLOT DATE: 10-31-23 PLOTTED BY: stationA6



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PLANT QUANTITY — 10

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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4909
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
PLANTING PLAN -
JV FIELDS
AND TENNIS COURTS

PROJECT NAME
JOHN F. KENNEDY
HIGH SCHOOL
BASEBALL, SOFTBALL,
& TENNIS COURT
IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

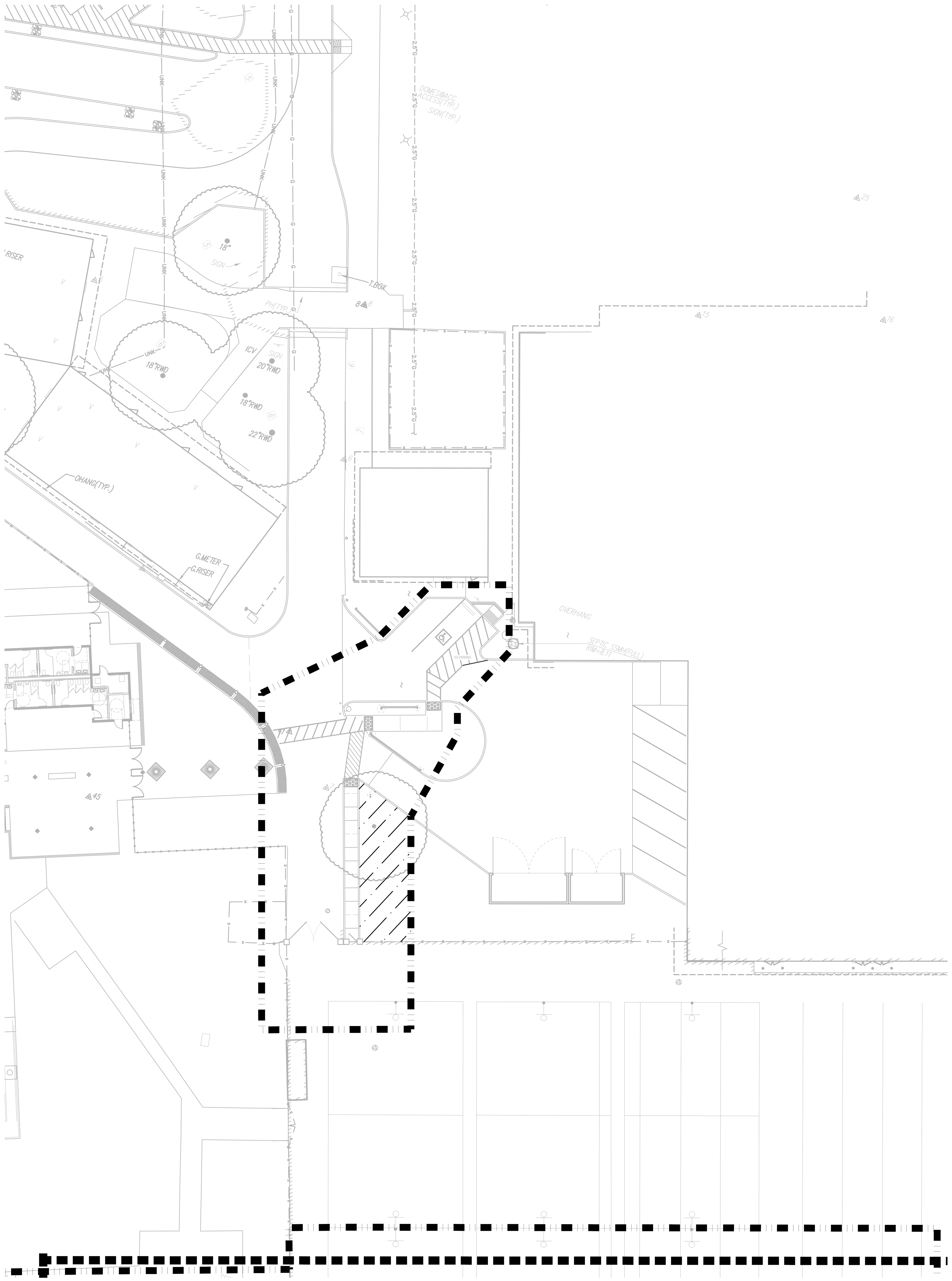
SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
JC/RN	CS/MB
DATE ISSUED	SCALE
10/25/23	1"=20'-0"
PROJ. NO.	
2304200	
SHEET NO.	
L9.3	

NORTH
0' 10' 20' 40' 60'

DRAWING NAME: X:\Projects-FOLDERS\2304200 - JFK HS BB-SB Renovations\CAD_PLT-JFK.dwg
PLOT DATE: 10-31-23 PLOTTED BY: station46



MATCHLINE - REFER TO L9.2

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PLANT SYMBOL — LJ
PLANT QUANTITY — 10

WATER EFFICIENT LANDSCAPE CALCULATIONS

PROJECT	JFK High School, Sacramento, CA
TOTAL LANDSCAPE AREA (SF)	276,847
TOTAL IRRIGATED LANDSCAPE AREA (SF)	41,395
TOTAL IRRIGATED SPECIAL LANDSCAPE AREA (SF)	235,452
HISTORIC ETo (INCHES/YEAR)	51.90

MAXIMUM ANNUAL WATER ALLOWANCE (MAWA)

MAWA = (ETo)(0.62) [(0.7xLA) + ((0.3)xSLA)]

MAWA = 8,442,180 GALS/YEAR

ESTIMATED TOTAL WATER USE (ETWU)

ETWU = (ETo)(0.62) [((PFxHA)/(IE)+SLA)]

HYDROZONE/ IRRIGATION METHOD	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	AREA (SQ FT) (HA)	(PFxHA)/IE
Regular Landscape Areas				
SHRUBS AND GROUNDCOVER - OVERHEAD - LOW	0.2	0.75	2,051	547
TURF - OVERHEAD - HIGH	0.9	0.75	13,666	16,399
TRESS - DRIP - LOW	0.2	0.81	12,464	3,078
TRESS - DRIP - MEDIUM	0.4	0.81	13,214	6,525
		TOTAL	**28,181**	**26,549**
Special Landscape Areas				
TURF - RECREATIONAL	N/A	N/A	232840	
BIOFILTRATION - OVERHEAD - HIGH	N/A	N/A	2,612	
		TOTAL	**235,452**	

ETWU = 8,430,671 GAL/YEAR

UNDER MAWA = 11,509 GALS/YEAR

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[illegible]
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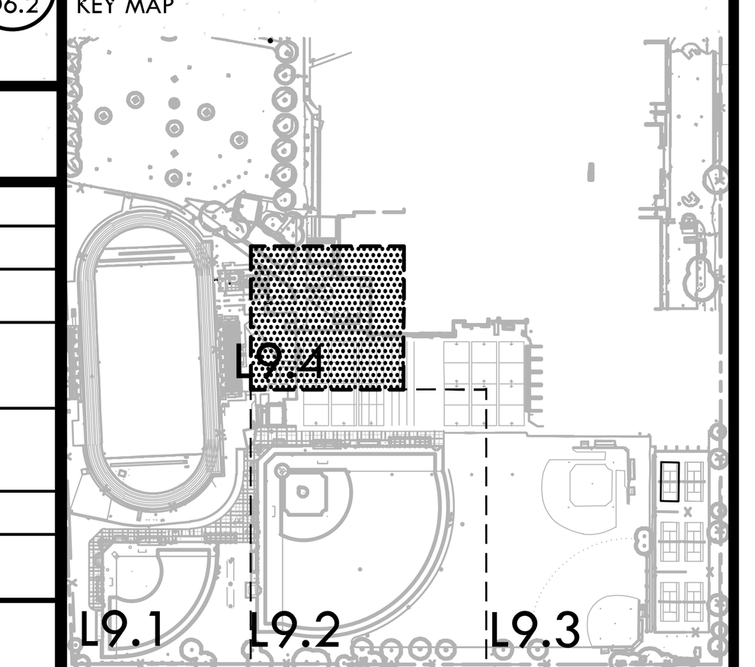
KEY MAP



SHEET TITLE
PLANTING PLAN - ACCESS

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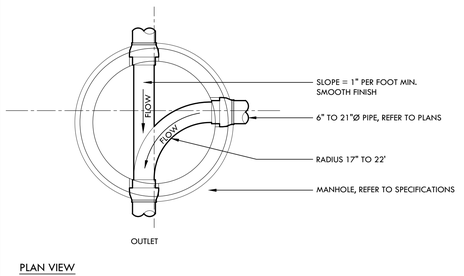
DRAWN BY JC/RN	CHECKED BY CS/MB
DATE ISSUED 10/25/23	SCALE 1"=20'-0"

PROJ. NO.
2304200

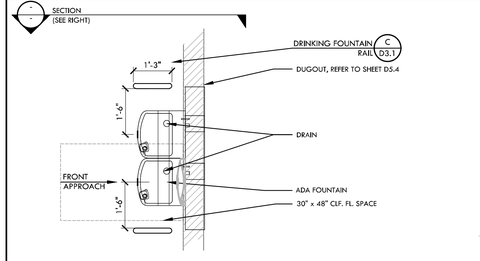
SHEET NO.
L9.4

DRAWING NAME: Y:\Projects-FO\2023\2304200 - JFK HS BB-SB Renovations\CAD_PLT-JFK.dwg
PLOT DATE: 10-31-23 PLOTTED BY: station46



NOTE:
FOR CHANNELIZATION OF INTERCEPTING LINE. PROVIDE SMOOTH TRANSITIONS (APPROX. 1'-8" INSIDE INSIDE RADIUS) TOWARDS DOWNSTREAM FLOW OF MAN.

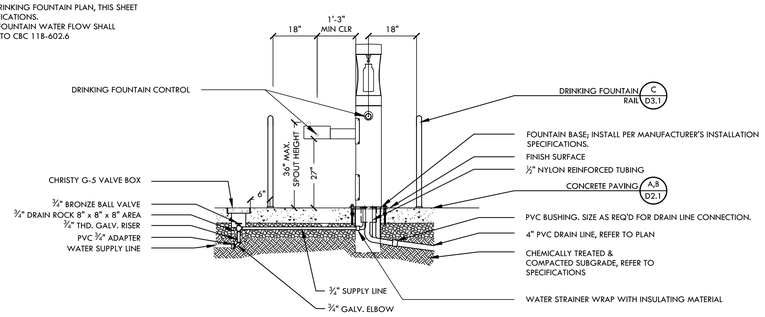
O SANITARY SEWER MANHOLE NTS

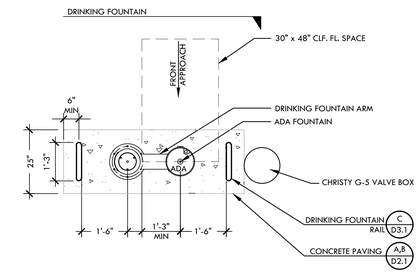


NOTES:
1. REFER TO SPECIFICATIONS.
2. FOUNTAIN SHALL HAVE SAME DIRECTION OF APPROACH FOR BOTH HI & LO USERS.
3. DRINKING FOUNTAIN BUTTONS TO FACE TOWARD APPROACH.
4. P-TRAP TO BE INSTALLED.
5. CONTRACTOR TO COORDINATE INSTALLATION OF FOOTINGS FOR DRINKING FOUNTAIN AND ASSOCIATIVE RAILINGS WITH DUGOUT FOUNDATION.

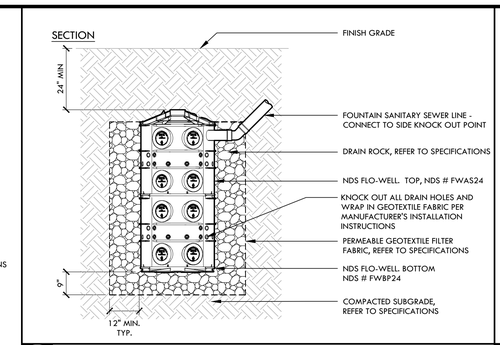
L DRINKING FOUNTAIN - WALL MOUNTED NTS

NOTES:
1. REFER TO DRINKING FOUNTAIN PLAN, THIS SHEET AND SPECIFICATIONS.
2. DRINKING FOUNTAIN WATER FLOW SHALL CONFORM TO CBC 118-602.6

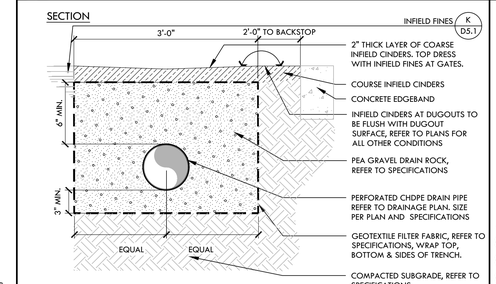




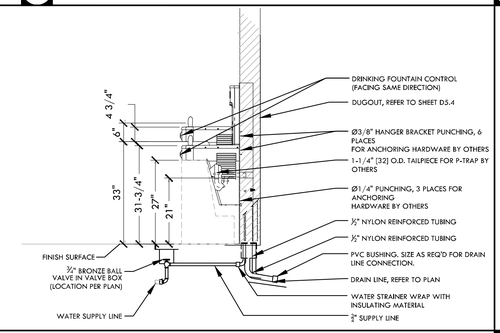
K DRINKING FOUNTAIN - PEDESTAL NTS



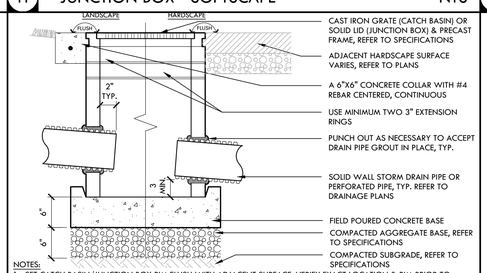
N DRYWELL FOR DRINKING FOUNTAIN NTS



M FRENCH DRAIN IN INFIELD FINES NTS

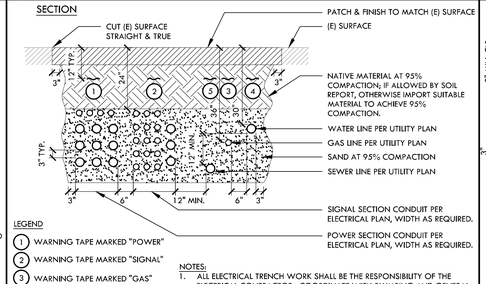


H JUNCTION BOX - SOFTSCAPE NTS



NOTES:
1. SET CATCH BASIN/JUNCTION BOX RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION & RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES & EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH & WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS & EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

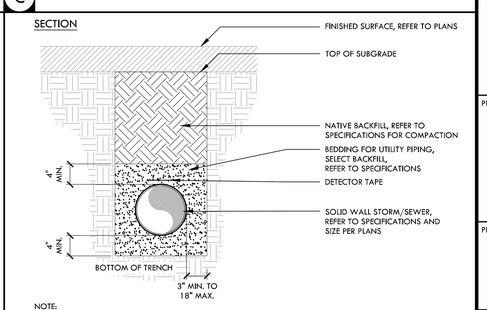
G CATCH BASIN / JUNCTION BOX NTS



LEGEND
1. WARNING TAPE MARKED "POWER"
2. WARNING TAPE MARKED "SIGNAL"
3. WARNING TAPE MARKED "GAS"
4. WARNING TAPE MARKED "WATER"
5. WARNING TAPE MARKED "SEWER"

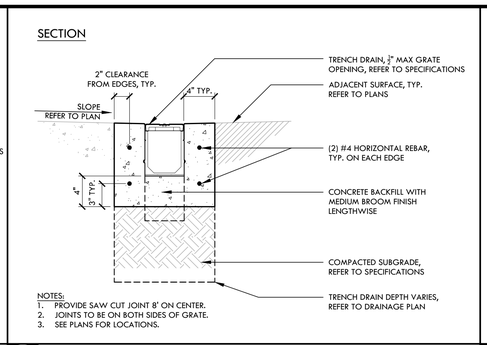
NOTES:
1. ALL ELECTRICAL TRENCH WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. COORDINATE WITH PLUMBING AND GENERAL CONTRACTOR LOCATION OF GAS, WATER, SEWER AND STORM PIPES.
2. MINIMUM SPACING BETWEEN CONDUITS IS 3".
3. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

B TRENCH BACKFILL - SOLID WALL STORM/SEWER NTS



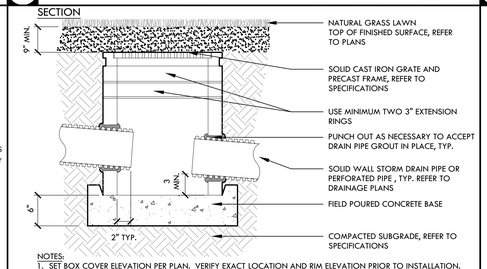
NOTE:
CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL FOR STORM DRAINS.

J TRENCH DRAIN NTS



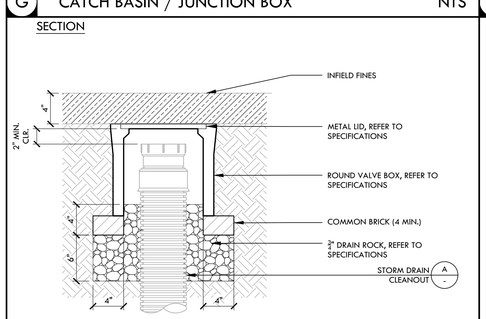
NOTES:
1. PROVIDE SAW CUT JOINT 8' ON CENTER.
2. JOINTS TO BE ON BOTH SIDES OF GRATE.
3. SEE PLANS FOR LOCATIONS.

I JOINT UTILITY TRENCH AND DUCT BANK NTS

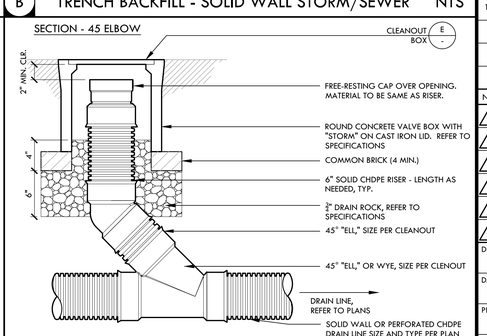


NOTES:
1. SET BOX COVER ELEVATION PER PLAN. VERIFY EXACT LOCATION AND RIM ELEVATION PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).

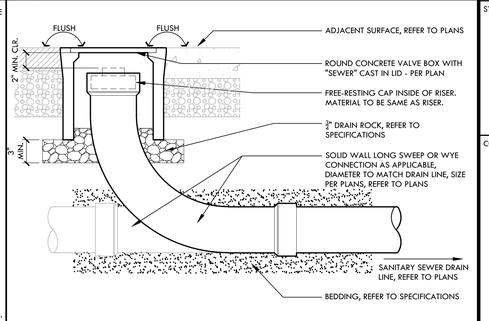
F CLEANOUT IN FINES NTS



A STORM DRAIN CLEANOUT NTS



D SANITARY SEWER CLEANOUT NTS



C

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DK	CS/MB
DATE ISSUED	SCALE
10/25/23	NTS
PROJ. NO.	
2304200	
SHEET NO.	
D1.1	

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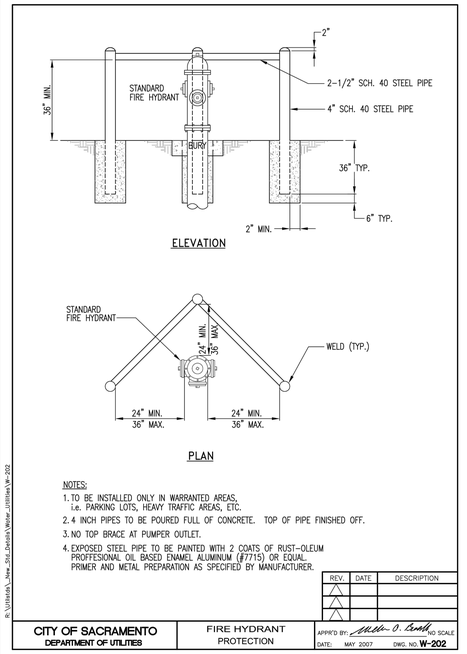


ELEVATION

PLAN

NOTES:
1. TO BE INSTALLED ONLY IN WARRANTED AREAS, i.e. PARKING LOTS, HEAVY TRAFFIC AREAS, ETC.
2. 4 INCH PIPES TO BE POURED FULL OF CONCRETE. TOP OF PIPE FINISHED OFF.
3. NO TOP BRACE AT PUMPER OUTLET.
4. EXPOSED STEEL PIPE TO BE PAINTED WITH 2 COATS OF RUST-OLEUM PROFFESIONAL OIL BASED ENAMEL ALUMINUM (#7715) OR EQUAL. PRIMER AND METAL PREPARATION AS SPECIFIED BY MANUFACTURER.

REV.	DATE	DESCRIPTION
1		
2		
3		

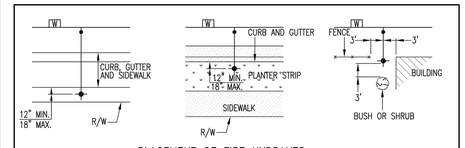
R:\Utilities_New_Std_Details\Water_Utilities\W-202

CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES

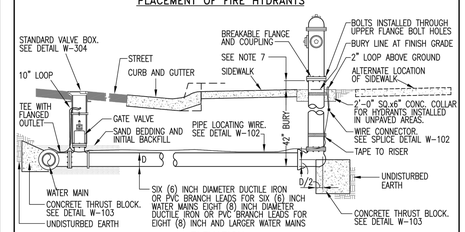
FIRE HYDRANT PROTECTION

APPR'D BY: [signature] NO SCALE
DATE: MAY 2007 DWG. NO. W-202

E FIRE HYDRANT PROTECTION



PLACEMENT OF FIRE HYDRANTS



ELEVATION

NOTES
1. BODY OF ALL FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF RUST-OLEUM PROFESSIONAL OIL BASED ENAMEL ALUMINUM #7715 COLOR OR EQUAL.
2. TOP (BONNET OR DOME) OF ALL HYDRANTS SHALL BE PAINTED TO THE FOLLOWING COLOR CODE ACCORDING TO THE SIZE OF THE WATER MAIN THE HYDRANTS ARE CONNECTED TO:
   ORANGE: FOR 4" OR SMALLER MAINS
   RED: FOR 6" MAINS
   YELLOW: FOR 8"-10" MAINS
   GREEN: FOR 12" AND LARGER MAINS
3. RAISED PAVEMENT MARKERS, SHALL BE PLACED FOR EACH HYDRANT INSTALLATION IN ACCORDANCE WITH SECTION 52-4 OF THESE STANDARD SPECIFICATIONS.
4. THE BLUE REFLECTORS SHALL BE PLACED ON THE HYDRANT SIDE OF THE STREET 5" FROM THE STREET CENTERLINE IN DIRECTION OF THE HYDRANT WITH REFLECTOR SIDES FACING TRAFFIC. PROVIDE TWO MARKERS FOR HYDRANTS INSTALLED AT MAJOR STREET INTERSECTIONS.
5. ONLY ONE (1) 6" OR 12" EXTENSION MAY BE USED FOR FIRE HYDRANT ADJUSTMENT TO GRADE. ALL OTHER ADDITIONAL ADJUSTMENTS MAY BE MADE WITH THE USE OF 45° ELBOWS ON THE HYDRANT LEAD.
6. OPERATING NUT AND OUTLET NOZZLE CAP NUTS SHALL BE PENTAGON IN SHAPE.
7. FIRE HYDRANTS ARE TO BE INSTALLED SO THE BURY LINE IS AT FINISHED GRADE. IF THIS IS NOT POSSIBLE DUE TO EXISTING UTILITIES THEN THE FOLLOWING VARIANCE MAY BE ALLOWED. 2" MINIMUM AND 5" MAXIMUM, MEASURED FROM THE BOTTOM OF THE HYDRANT FLANGE TO FINISHED GRADE.

REV.	DATE	DESCRIPTION
1		
2		
3		

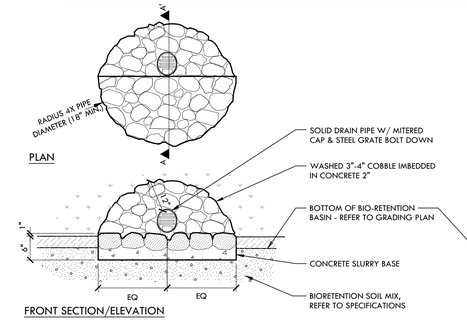
R:\Utilities_New_Std_Details\Water_Utilities\W-201

CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES

FIRE HYDRANT INSTALLATIONS

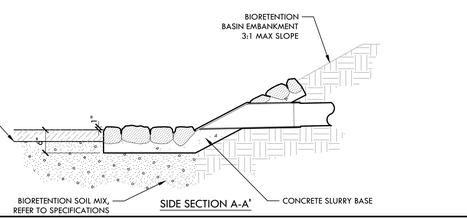
APPR'D BY: [signature] NO SCALE
DATE: SEPT 6, 2017 DWG. NO. W-201

D FIRE HYDRANT INSTALLATION



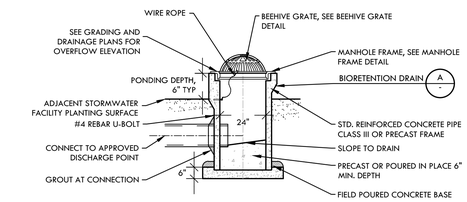
PLAN

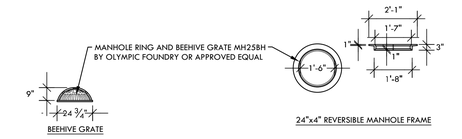
FRONT SECTION/ELEVATION



SIDE SECTION A-A'

C COBBLE ENERGY DISSIPATOR NTS





NOTES
1. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
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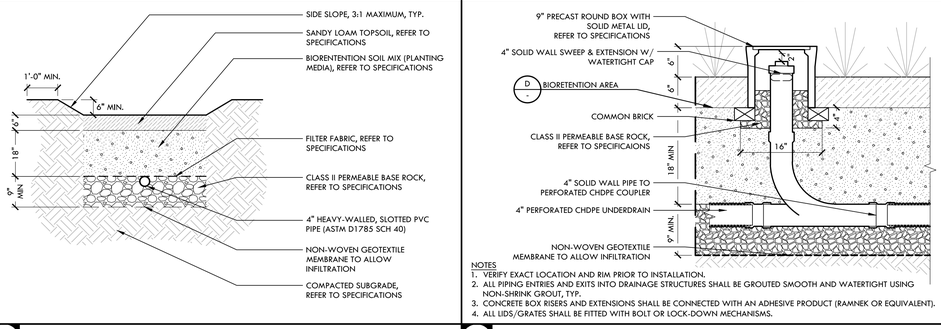
3. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

B OVERFLOW RISER WITH GRATE/ STANDPIPE NTS



F BIORETENTION AREA NTS

NOTES
1. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
3. CONCRETE BOX RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
4. ALL LIDS/GRATES SHALL BE FITTED WITH BOLT OR LOCK-DOWN MECHANISMS.

A INFILTRATION TRENCH AT BIORETENTION AREA NTS

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PLOT DATE: 10-25-23 PLOTTED BY: station50

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINGER
No. 4089
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

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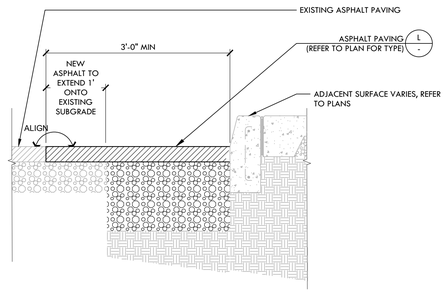
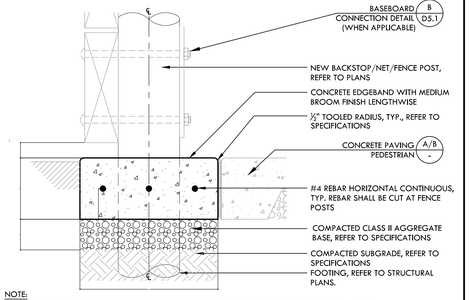
DK	CS/MB
DATE ISSUED	SCALE
10/25/23	NTS
PROJ. NO.	
2304200	
SHEET NO.	
D1.2	

R

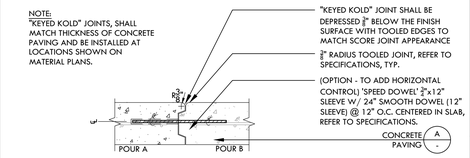
M ASPHALT PATCH NTS



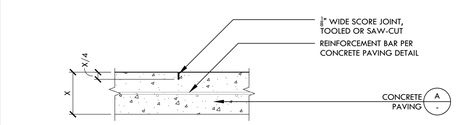
H 18" WIDE EDGEBAND WITH FENCE NTS



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET, FOR ADDITIONAL INFORMATION



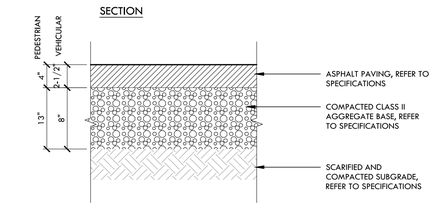
KEYED KOLD JOINT - VERTICAL AND LONGITUDINAL CONTROL
SECTION



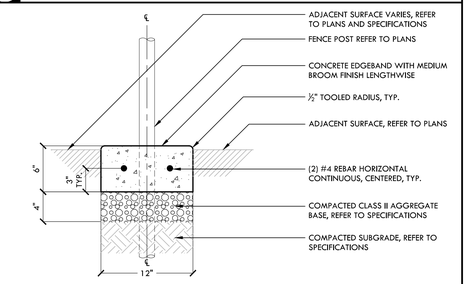
SCORE JOINT
SECTION

Q

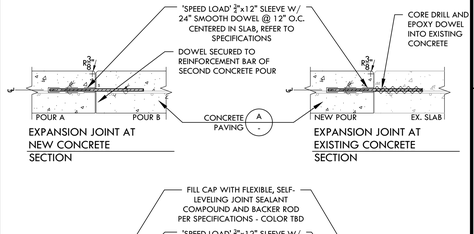
L ASPHALT PAVING NTS



G 12" WIDE EDGEBAND NTS

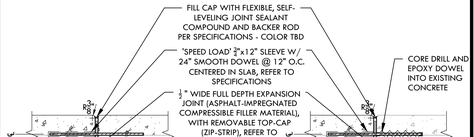


NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.



EXPANSION JOINT AT NEW CONCRETE
SECTION

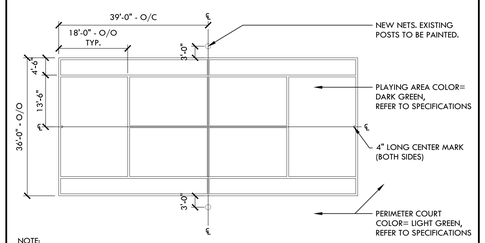
EXPANSION JOINT AT EXISTING CONCRETE
SECTION



EXPANSION JOINT AT NEW CONCRETE
SECTION

EXPANSION JOINT AT EXISTING CONCRETE
SECTION

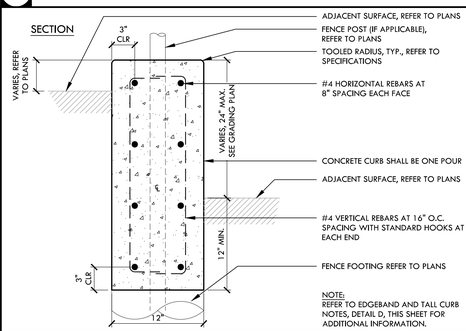
P



NOTE:
1. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
2. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
3. O/C = OUTSIDE LINE TO CENTER OF LINE
4. LINES TO BE 2" WIDE YELLOW TRAFFIC PAINT STRIPING, TWO COATS MINIMUM. REFER TO SPECIFICATIONS
5. REFER TO SPECIFICATIONS FOR TENNIS NET POST AND NET INFORMATION.
6. ALL MARKINGS SHALL CONFORM TO CURRENT NFHS AND CIF (CALIFORNIA. INTERSCHOLASTIC FEDERATION) GUIDELINES.

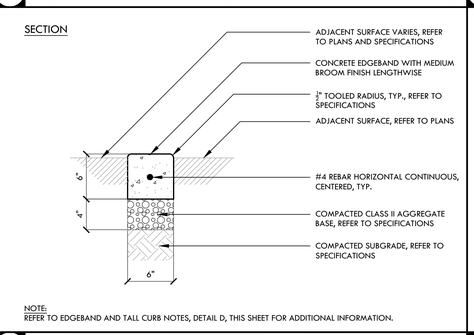
P TENNIS STRIPING NTS

K 18" WIDE TALL CURB WITH FENCE NTS



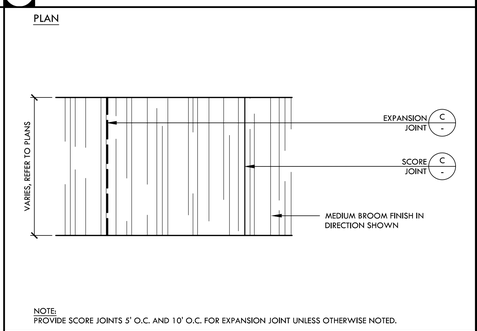
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION.

F 6" WIDE X 24" DEEP EDGEBAND NTS



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION.

C CONCRETE JOINTS NTS

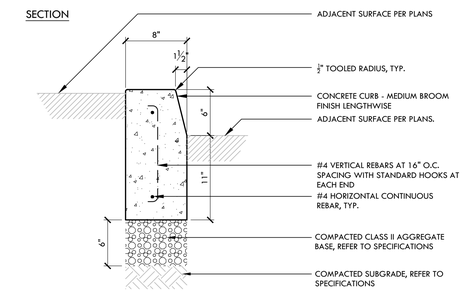


NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

O

NOT USED

J 12" WIDE TALL CURB NTS



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION.

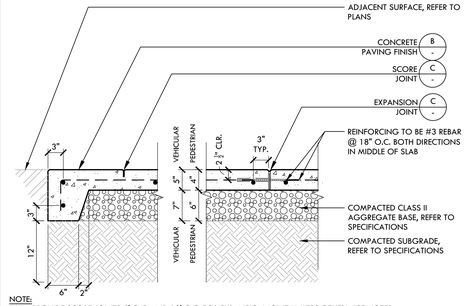
E 6" WIDE EDGEBAND NTS

NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:
1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL EXPANSION JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL SCORE JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL SCORE JOINTS AT 10' O.C. SPACING AND FIBER EXPANSION JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, FIBER EXPANSION JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING SCORE JOINTS AT 5' O.C. SPACING.
3. ALL EXPANSION JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL TALL CURB DETAILS:
1. PROVIDE EXPANSION JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT., AS PER DETAIL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A ¾" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ¾" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL EXPANSION JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO SCORE JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

FINISHES
EDGEBANDS AND CURBS: MEDIUM BROOM
WALL AND TALL CURBS: MEDIUM SAND BLAST - TOP AND SIDES

B CONCRETE PAVING FINISH NTS



NOTE:
1. PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

N

I 6" CURB NTS

D EDGEBAND AND TALL CURB NOTES NTS

A CONCRETE PAVING - NON CHEMICALLY TREATED NTS

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fax: 916.415.6525
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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4069
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
CONSTRUCTION DETAILS - HARDSCAPE

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		
7		

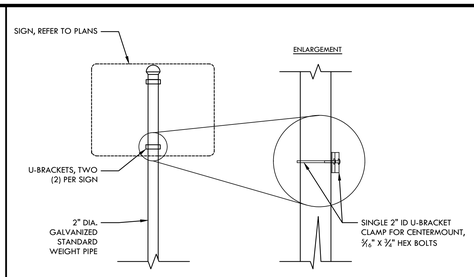
DRAWN BY	CHECKED BY
VERDE	CS/MB
DATE ISSUED	SCALE
10/25/23	AS NOTED
PROJ. NO.	
2304200	
SHEET NO.	
D2.1	

T

O

J

E SIGN MOUNTING NTS



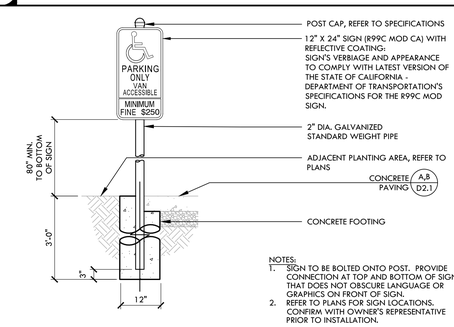
NOTES:
1. ALL FASTENERS AND HARDWARE TO BE GALVANIZED, UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO INSTALL SIGN TO FACE STREET OR AT RIGHT ANGLE TO WALKWAY.
3. HARDWARE TO BE ADJUSTED AS NECESSARY AS NOT TO OBSTRUCT OR BLOCK LANGUAGE ON FRONT OF SIGN.

S

N

I

D ACCESSIBLE PARKING SIGN - VAN NTS



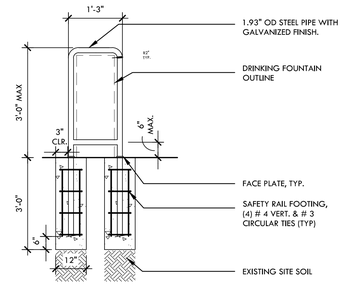
NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN THAT DOES NOT OBSCURE LANGUAGE OR GRAPHICS ON FRONT OF SIGN.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

R

M

H

C DRINKING FOUNTAIN RAIL



Q

L

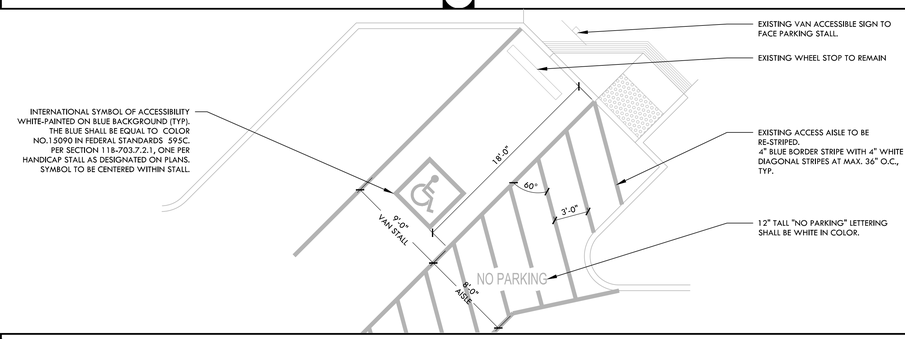
G

B

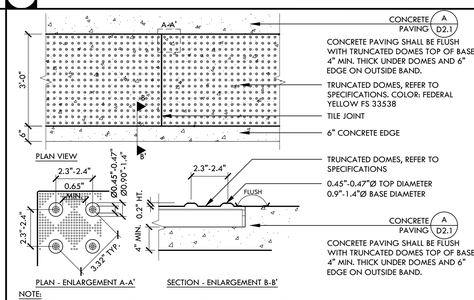
NOT USED

P

F RE-STRIPE ADA STALL NTS



A TRUNCATED DOMES (RECESSED) NTS



NOTE:
TRUNCATED DOMES, TYP. ACCORDING TO CALIFORNIA BUILDING CODES PER 118.705.1.2.2 AND 118.705.1.2.5 SHALL BE INSTALLED IN AREA WITH 36" MIN. WIDE DETECTABLE WARNING STRIP. REFER TO SPECIFICATIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COLOR SHALL BE FEDERAL YELLOW (FS 33538).

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DRAWN BY	CHECKED BY
VERDE	CS/MB
DATE ISSUED: 10/25/23	SCALE: AS NOTED

PROJ. NO. 2304200

SHEET NO. D3.1

DRAWING NAME: I:\projects-fo\2023\2304200 - JFK HS BB-SB Renovations\CAD_DTL-ADA-JFK.dwg
PLOT DATE: 10-23-23 PLOTTED BY: stationAD-1

P

O

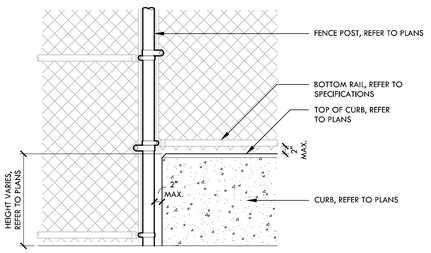
N

M

L

CHAIN LINK FENCE AT CURB STEP — NTS

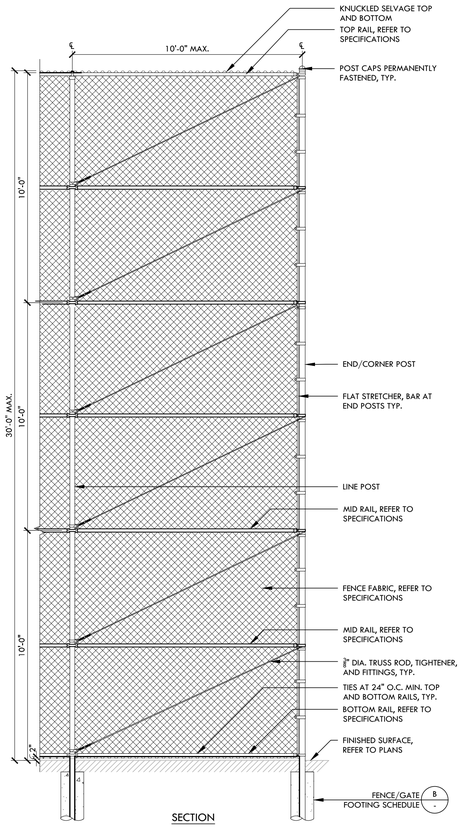
ELEVATION



NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

K

30' TALL CHAIN LINK BACKSTOP — NTS

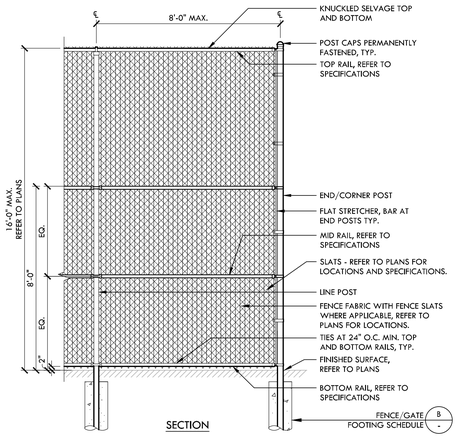


SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

J

14'/16' TALL CHAIN LINK FENCE — NTS

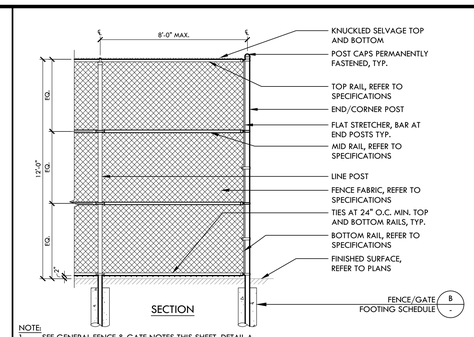


SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.
2. REFER TO PLANS FOR SLAT LOCATIONS.

I

12' TALL CHAIN LINK FENCE — NTS

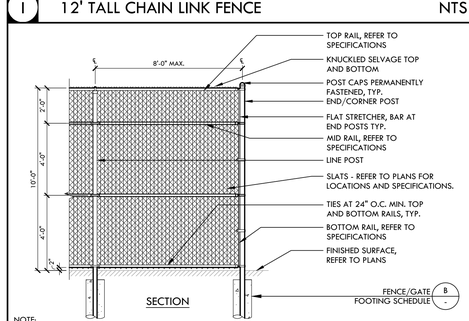


SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

H

10' TALL CHAIN LINK FENCE — NTS

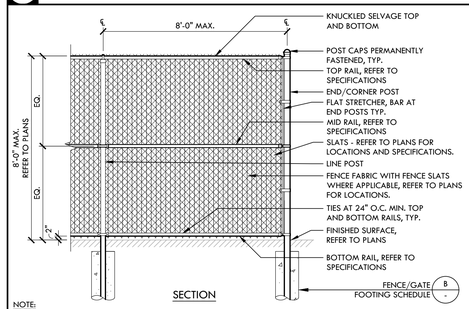


SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.
2. REFER TO PLANS FOR SLAT LOCATIONS

G

8' TALL CHAIN LINK FENCE — NTS

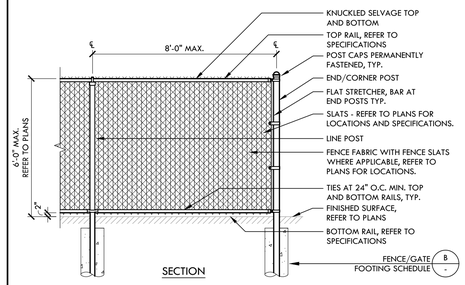


SECTION

NOTE:
1. SEE GATE & FENCE NOTES THIS SHEET, DETAIL A.
2. INCLUDE SLATS WHERE INDICATED ON PLANS.

F

6' TALL CHAIN LINK FENCE — NTS

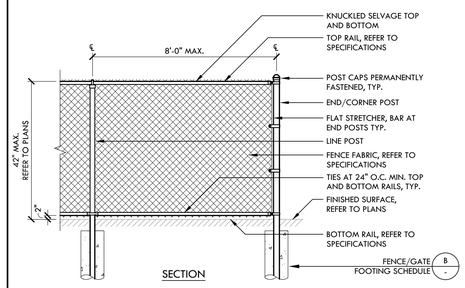


SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.
2. REFER TO PLANS FOR SLAT LOCATIONS

E

42" TALL CHAIN LINK FENCE — NTS



SECTION

NOTE:
1. SEE GATE & FENCE NOTES THIS SHEET, DETAIL A.

A

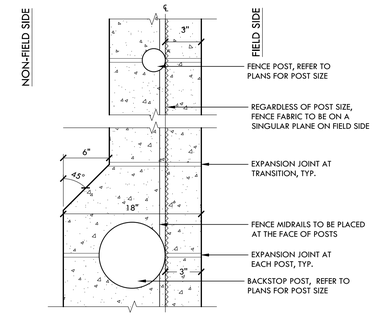
FENCE AND GATES NOTES — NTS

NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:

1. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE. ALL FENCING TO BE GALVANIZED.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN ACCESSIBLE PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS FOR ACCESSIBILITY PER CALIFORNIA BUILDING CODE (118-404).
5. FOR PEDESTRIAN GATE , PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION WITH NEW SIGN THAT READS, "GATE SHALL REMAIN OPEN DURING HOURS OF OPERATION."
6. ALL PEDESTRIAN SWING GATES SHALL HAVE A KICK PLATE ATTACHMENT.
7. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
8. REFER TO PLANS AND DETAILS FOR FENCING WITH CURBS AND CHANGE IN ELEVATIONS.
9. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION AND OPEN POSITION.
10. TACK WELD HINGES TO POSTS AT GATES.
11. DOUBLE SWING GATES THAT ARE INLINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.
12. THE PIPE SIZES INDICATED ARE NPS FOR: STANDARD PIPE SCHEDULE 40.
13. ALL DROP CANES TO HAVE A MECHANISM TO HOLD IN UP POSITION WHEN GATE IS OPEN AND/OR SWINGING. LOCATIONS FOR DROP BAR IN CLOSED AND OPEN POSITIONS TO BE PROVIDED.
14. TUBULAR PVC PRIVACY SLATS ARE TO BE ADDED PER PLAN (REFER TO SPECIFICATIONS FOR MORE INFORMATION). COLOR TO BE SELECTED BY DISTRICT REPRESENTATIVE.

D

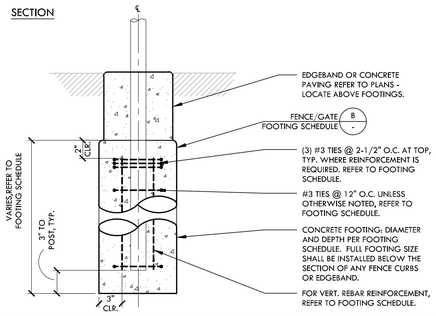
FENCE POST ALIGNMENT - PLAN VIEW — NTS



C

FENCE FOOTING PROFILE — NTS

SECTION



FENCE POST AND FOOTING SCHEDULE

DESCRIPTION	HEIGHT	LINE (STD. GALV. PIPE)	CORNER/END (STD. GALV. PIPE)	FOOTING	VERT. REBAR
CHAIN LINK FENCE	42"	1-1/2" DIA. STD.	2" DIA. STD.	12" DIA. X 3'-0" DEEP	-
CHAIN LINK FENCE	6'	2-1/2" DIA. STD.	3" DIA. STD.	12" DIA. X 3'-6" DEEP	-
CHAIN LINK FENCE WITH SLATS	6'	3" DIA. STD.	3-1/2" DIA. STD.	16" DIA. X 6'-0" DEEP	
CHAIN LINK FENCE	8'	2-1/2" DIA. STD.	3" DIA. STD.	16" DIA. X 4'-0" DEEP	
CHAIN LINK FENCE WITH SLATS (DUGOUT)	10'	REFER TO STRUCTURAL DRAWINGS			
CHAIN LINK FENCE	12'	4" DIA. STD.	4" DIA. STD.	18" DIA. X 4' DEEP	(4) #5
CHAIN LINK FENCE (DUGOUT)	12'	REFER TO STRUCTURAL DRAWINGS			
CHAIN LINK FENCE AT BATTING CAGE (WITH AND W/O SLATS)	14'/16'	REFER TO STRUCTURAL DRAWINGS			
CHAIN LINK BACKSTOP	30'	REFER TO STRUCTURAL DRAWINGS			
NETTING (22'-0" TALL NETTING OVER 8'/12' TALL CHAIN LINK FENCE OR EITHER STYLE DUGOUT)	30'	REFER TO STRUCTURAL DRAWINGS			
30' TALL NETTING	30'	REFER TO STRUCTURAL DRAWINGS			

GATE POST FOOTING SCHEDULE

DESCRIPTION	SIZE (H x L)	POSTS (STD. GALV. PIPE)	FOOTING	VERT. REBAR
CHAIN LINK SWING GATE - ACCESSIBLE	42"X4'	2" DIA. STD.	12" DIA. X 3'-0" DEEP	-
CHAIN LINK SINGLE SWING GATE - ACCESSIBLE	6' X 4'	3" DIA. STD.	12" DIA. X 3'-6" DEEP	-
CHAIN LINK DOUBLE SWING GATE - WITHOUT SLATS	6' X 12'	3.5" DIA. STD.	16" DIA. X 4'-6" DEEP	-
CHAIN LINK DOUBLE SWING GATE - WITH SLATS	6' X 12'	3" DIA. STD.	16" DIA. X 7'-0" DEEP	(4) #5
CHAIN LINK DOUBLE SWING GATE	6' X 20'	3" DIA. STD.	16" DIA. X 5'-0" DEEP	
CHAIN LINK DOUBLE SWING GATE	6' X 24'	3" DIA. STD.	16" DIA. X 5'-0" DEEP	-
CHAIN LINK SWING GATE - ACCESSIBLE WITH TRANSOM (TENNIS COURTS)	8' X 4'	3" DIA. STD.	16" DIA. X 4'-0" DEEP	-
CHAIN LINK SWING GATE - ACCESSIBLE WITH TRANSOM (BATTING CAGE OR DUGOUTS)	REFER TO STRUCTURAL DRAWINGS			
CHAIN LINK SWING GATE - ACCESSIBLE	8' X 4'	3" DIA. STD.	16" DIA. X 4'-0" DEEP	-
CHAIN LINK DOUBLE SWING GATE - ACCESSIBLE	8' X 8'	3" DIA. STD.	16" DIA. X 4'-0" DEEP	-
CHAIN LINK DOUBLE SWING GATE	8' X 12'	3" DIA. STD.	16" DIA. X 4'-0" DEEP	-

NOTES:
1. POSTS LISTED FOR GATES SHOULD BE END POST SIZES MIN. TYP.
2. REFER TO PLANS & DETAILS FOR POST LOCATION AND TOP OF POST FOOTING.
3. REFER TO FENCE FOOTING DETAIL, DETAIL C, THIS SHEET.
4. THE PIPE SIZES INDICATED ARE NPS FOR : STANDARD PIPE SCHEDULE 40.

B

FENCE/GATE FOOTING SCHEDULE — NTS

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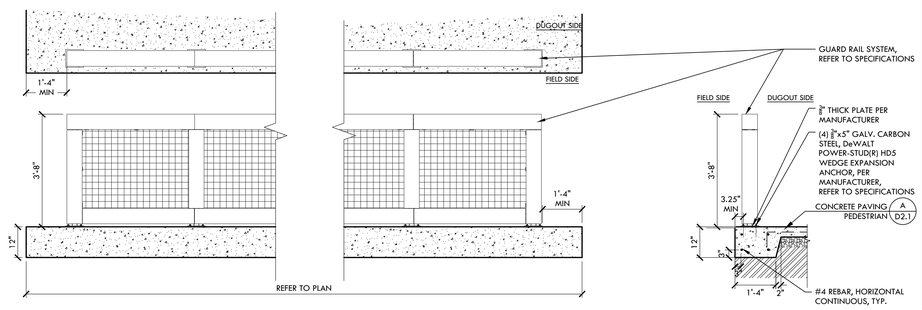
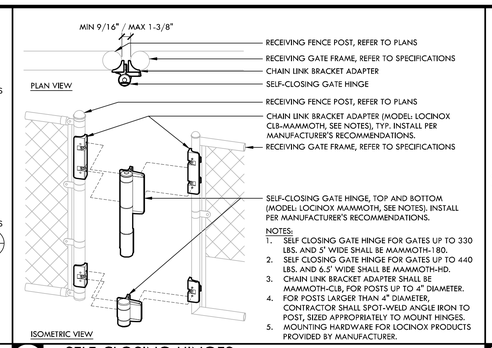
SHEET NO.: D4.1

DRAFT

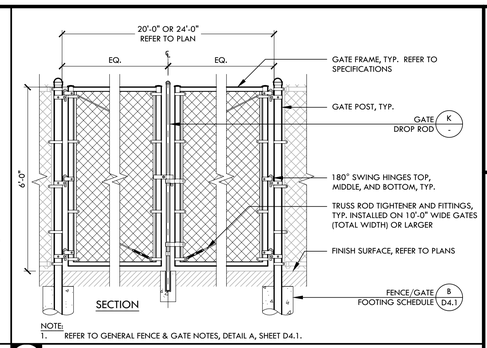
DRAWING NAME: Y:\Projects-FY\2023\2304200 - JFK HS BB-SB Renovations\CAD_DTL-FNC-JFK.dwg
PLOT DATE: 10-24-23 PLOTTED BY: station50



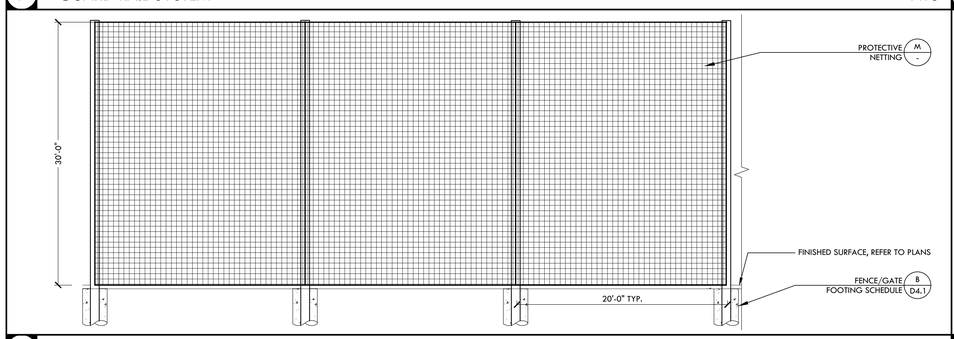
P GUARD RAIL SYSTEM NTS



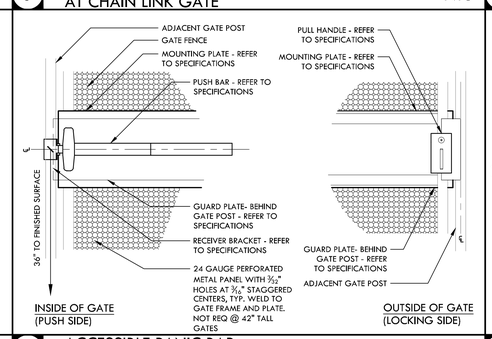
J SELF-CLOSING HINGES AT CHAIN LINK GATE NTS



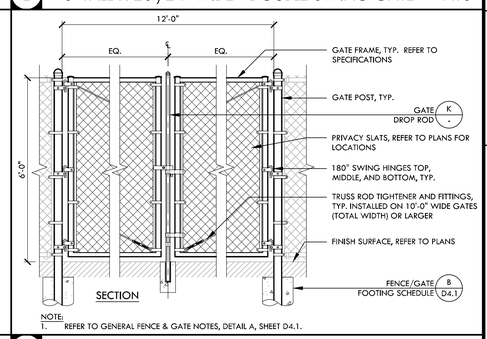
E 6' TALL X 20'/24' WIDE - DOUBLE SWING GATE NTS



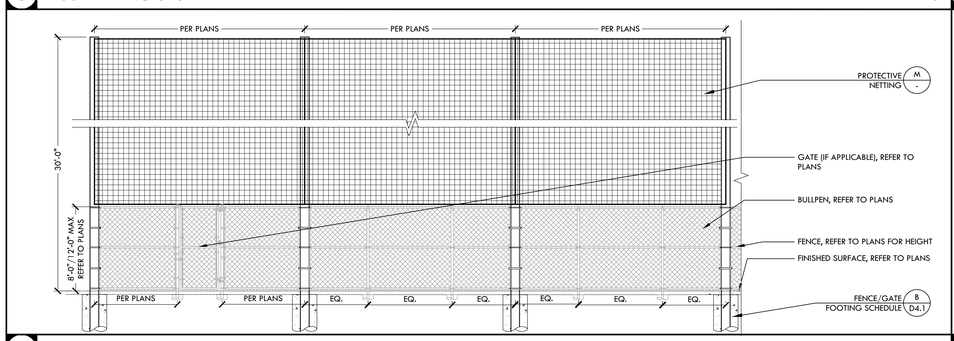
O 30' NETTING SYSTEM NTS



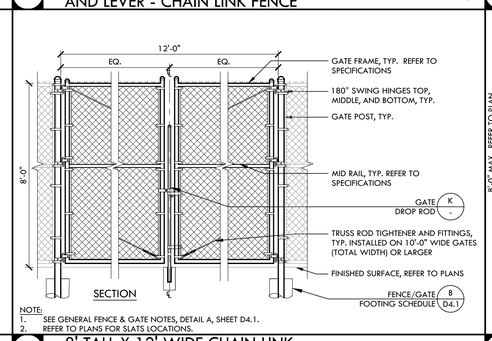
I ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE NTS



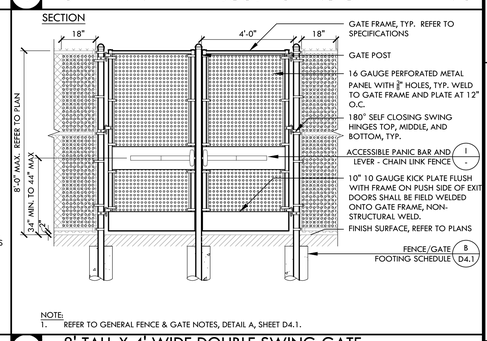
D 6' TALL X 12' WIDE - DOUBLE SWING GATE NTS



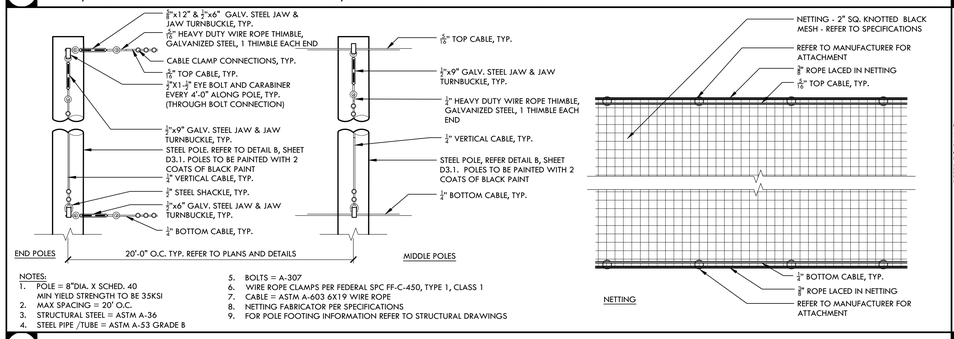
N 22'/18' PROTECTIVE NETTING OVER 8'/12' TALL CHAIN LINK FENCE NTS



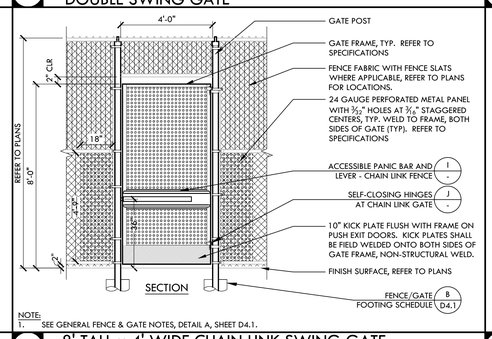
H 8' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE NTS



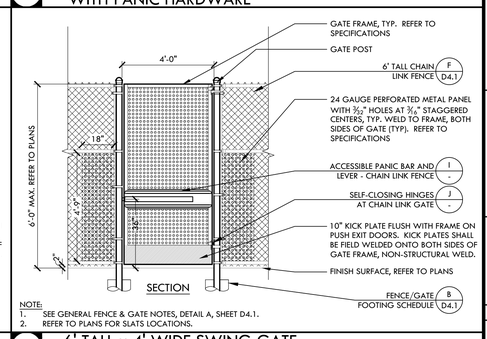
C 8' TALL X 4' WIDE DOUBLE SWING GATE WITH PANIC HARDWARE NTS



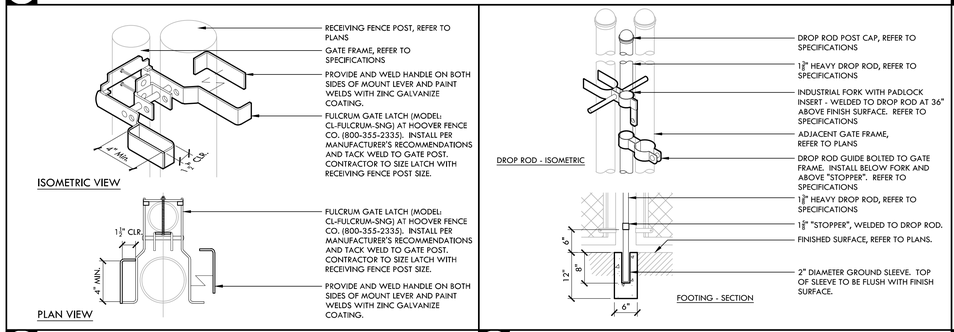
M PROTECTIVE NETTING NTS



G 8' TALL x 4' WIDE CHAIN LINK SWING GATE WITH TRANSOM - ACCESSIBLE NTS

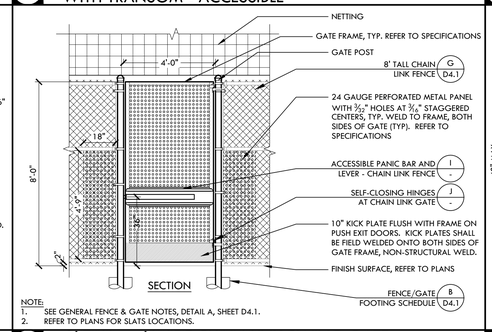


B 6' TALL x 4' WIDE SWING GATE WITH PANIC HARDWARE NTS

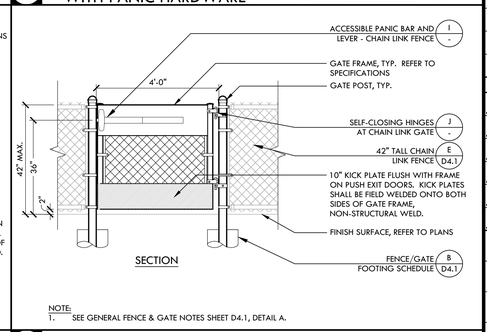


L GATE LATCH NTS

K GATE - DROP ROD NTS



F 8' TALL x 4' WIDE CHAIN LINK SWING GATE WITH NETTING NTS



A 42" TALL x4' WIDE CHAIN LINK SWING GATE - ACCESSIBLE NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4069
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
FENCING DETAILS

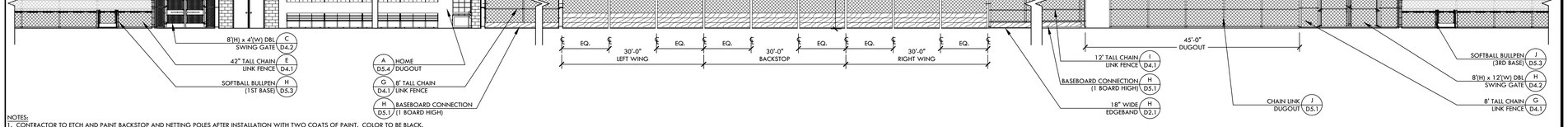
PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

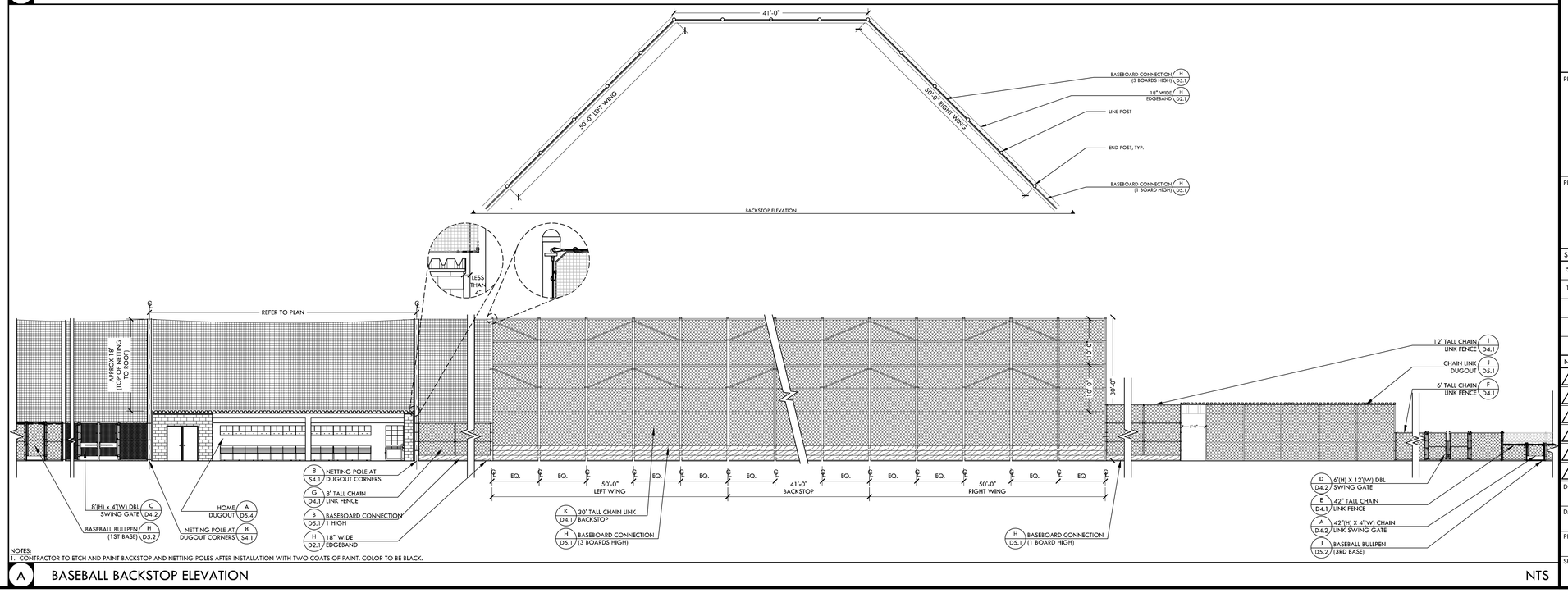
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: VERDE
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: AS NOTED
PROJ. NO.: 2304200
SHEET NO.: D4.2



NOTES:
1. CONTRACTOR TO ETCH AND PAINT BACKSTOP AND NETTING POLES AFTER INSTALLATION WITH TWO COATS OF PAINT. COLOR TO BE BLACK.

B SOFTBALL BACKSTOP ELEVATION NTS



NOTES:
1. CONTRACTOR TO ETCH AND PAINT BACKSTOP AND NETTING POLES AFTER INSTALLATION WITH TWO COATS OF PAINT. COLOR TO BE BLACK.

A BASEBALL BACKSTOP ELEVATION NTS

VERDE DESIGN
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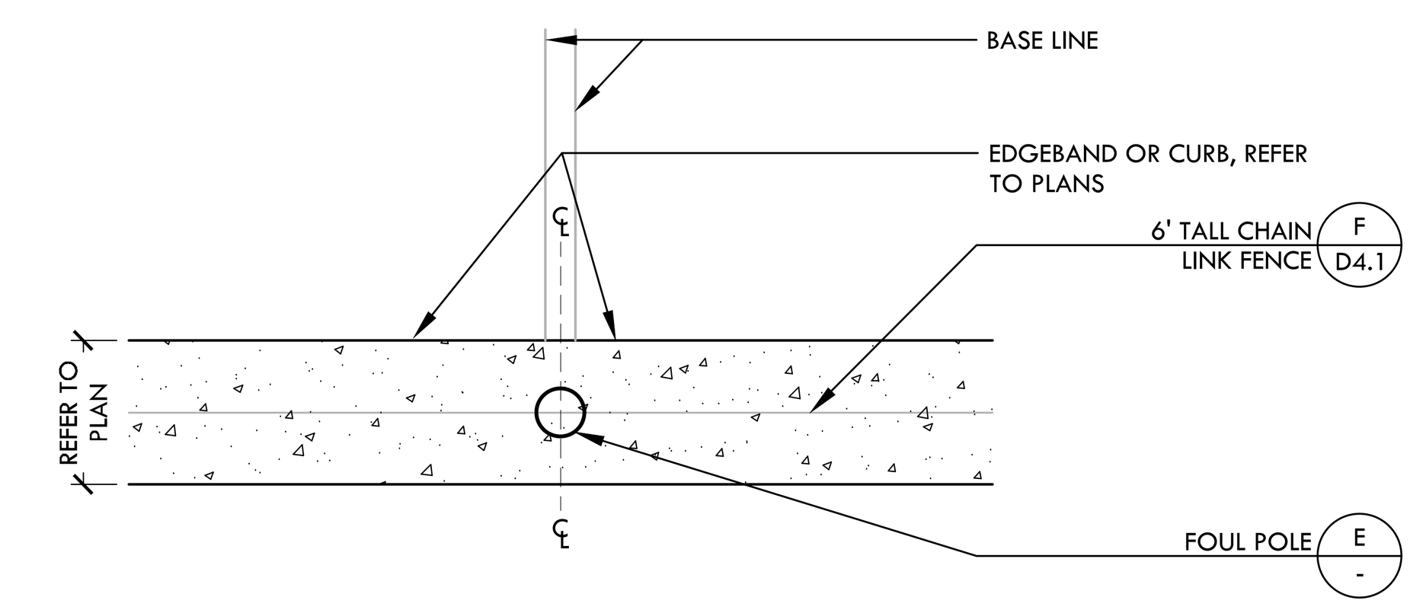
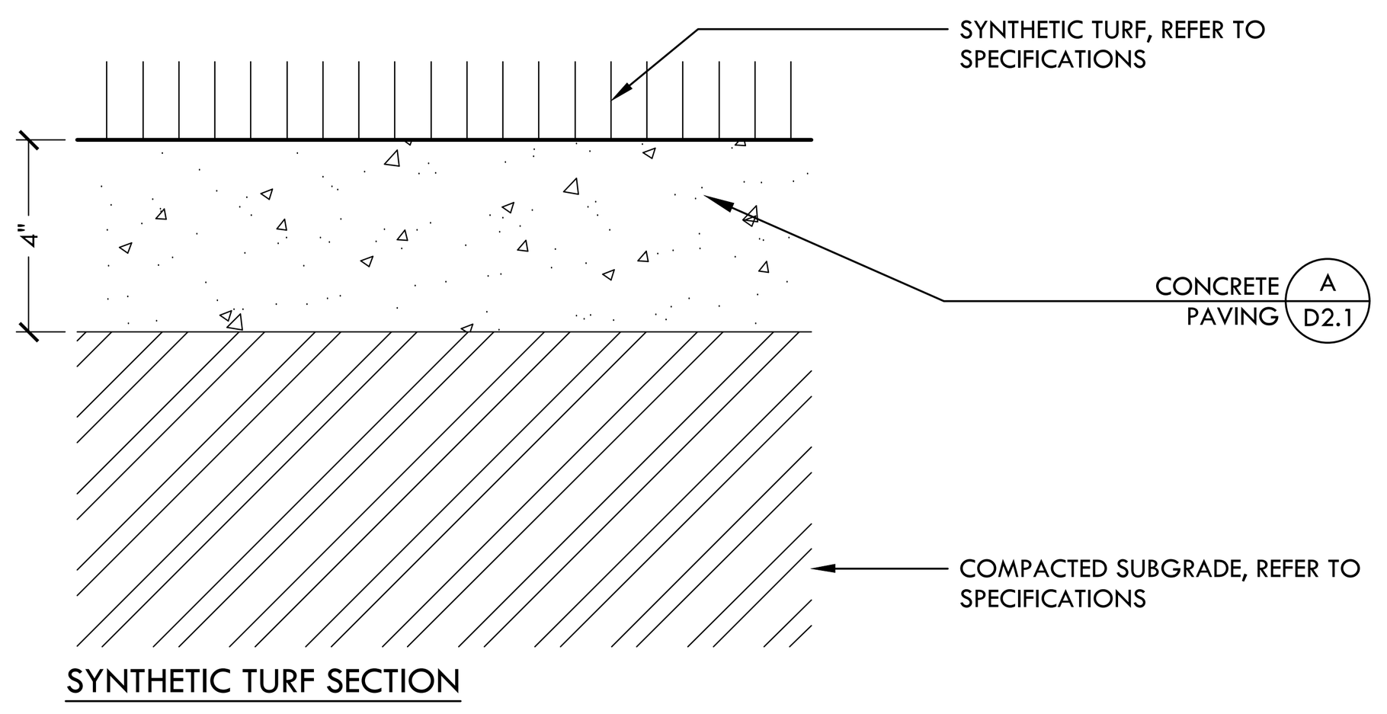
DRAWN BY	CHECKED BY
VERDE	CS/MB
DATE ISSUED	SCALE
10/25/23	AS NOTED
PROJ. NO.	
2304200	
SHEET NO.	
D4.3	

DRAWING NAME: Y:\Projects-FO\2023\2304200 - JFK HS BB-SB Renovations\CAD_DTL-FNC-JFK.dwg
PLOT DATE: 10-24-23 PLOTTED BY: stotlar50



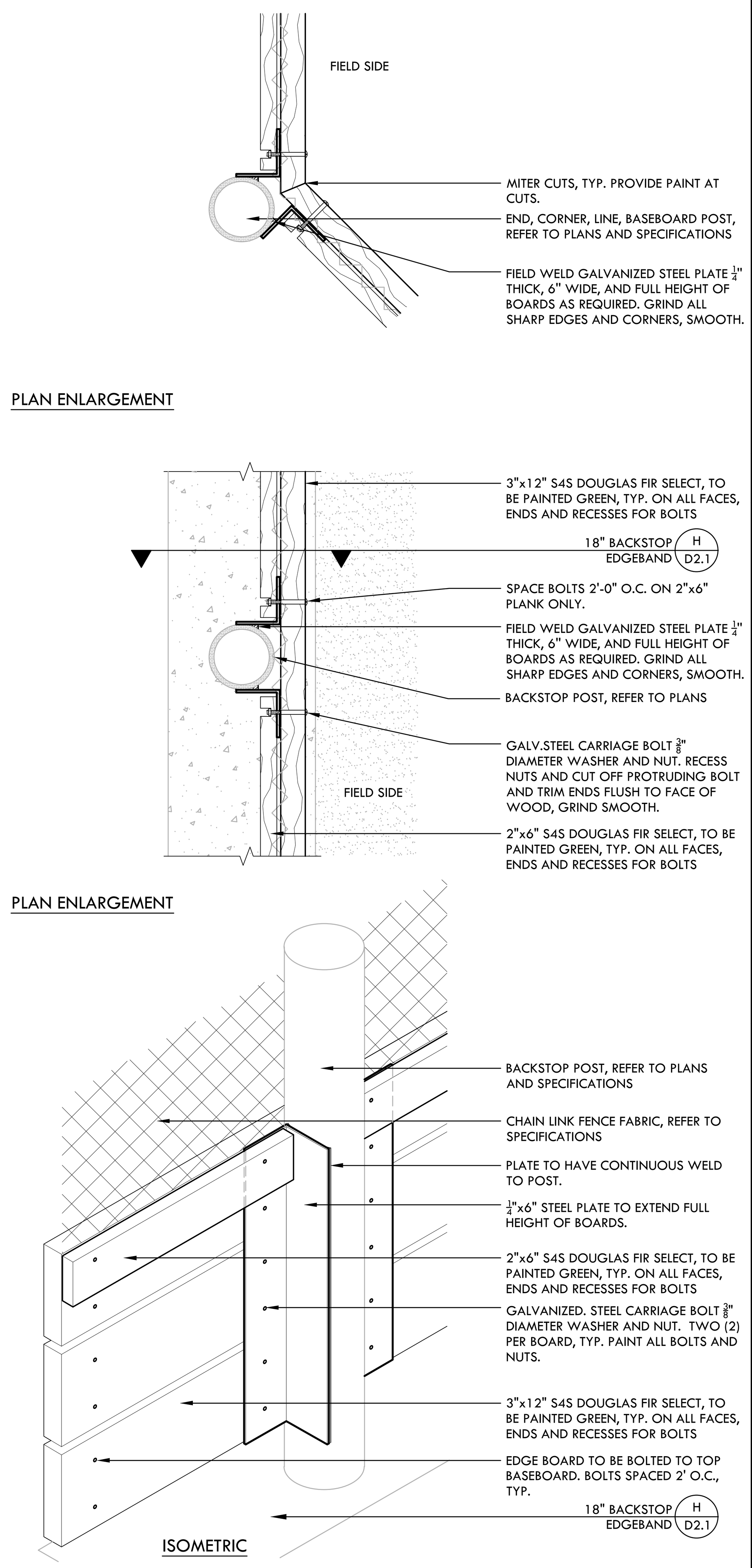
NOTE:
1. SEE NOTE ON DETAIL D, THIS SHEET.

O FOUL POLE ALIGNMENT NTS

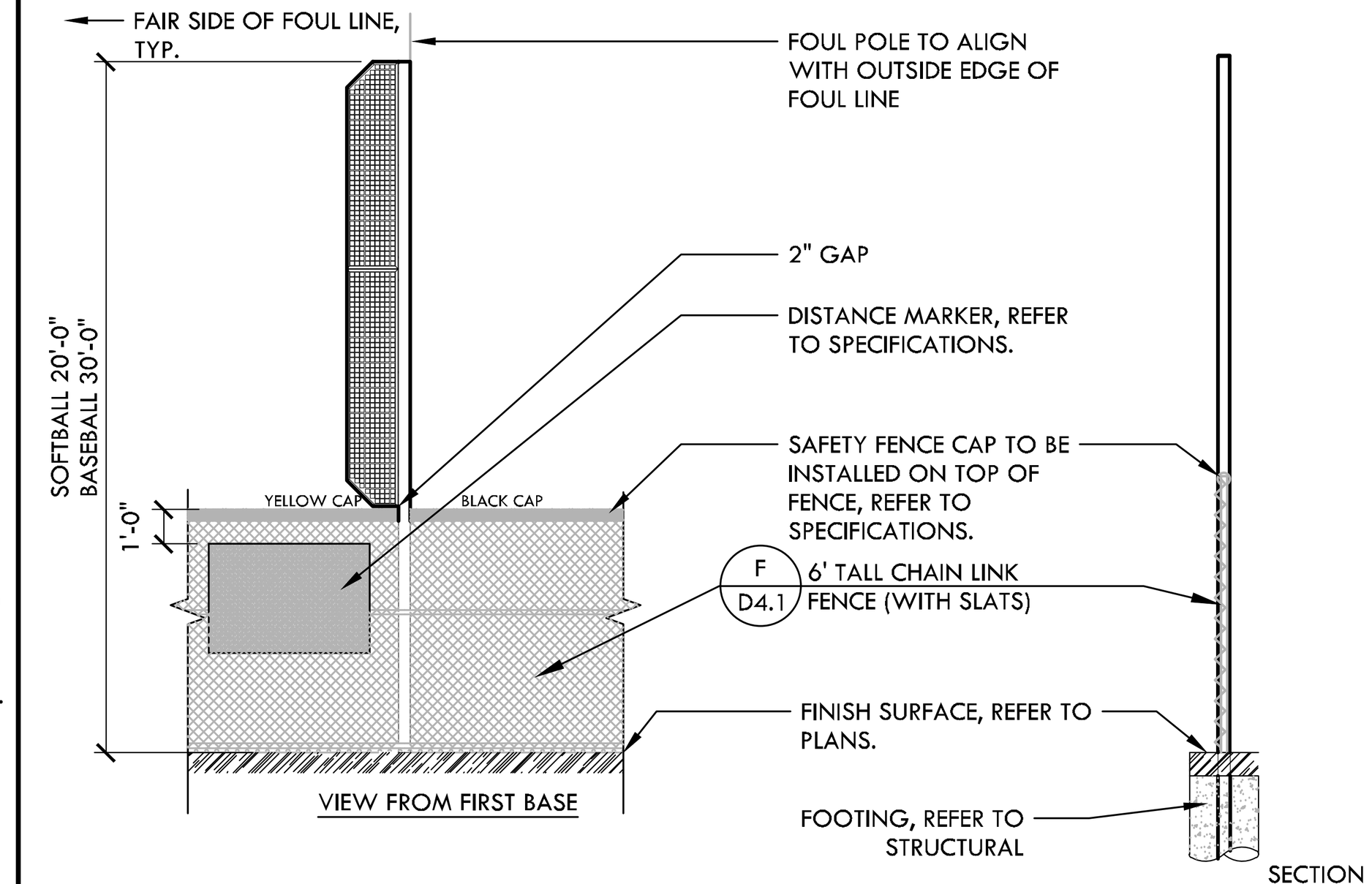


NOTES PERTAIN TO ALL DETAILS WITH SYNTHETIC TURF:
1. NO MANUFACTURER, CONTRACTOR OR VENDOR LOGOS ARE TO BE INSTALLED UNLESS SPECIFIED.
2. NO CUT OUTS IN TURF SHALL BE MADE UNLESS OTHERWISE NOTED AND ESPECIALLY NO CUT OUTS IN THE FIELD OF PLAY. QUICK COUPLERS AND CLEANOUTS ARE THE ONLY UTILITIES TO BE CUT THROUGH TURF. QUICK COUPLERS ARE LOCATED ON THE PERIMETER AND OUT OF THE FIELD OF PLAY AREAS.

M SYNTHETIC TURF (NO INFILL)

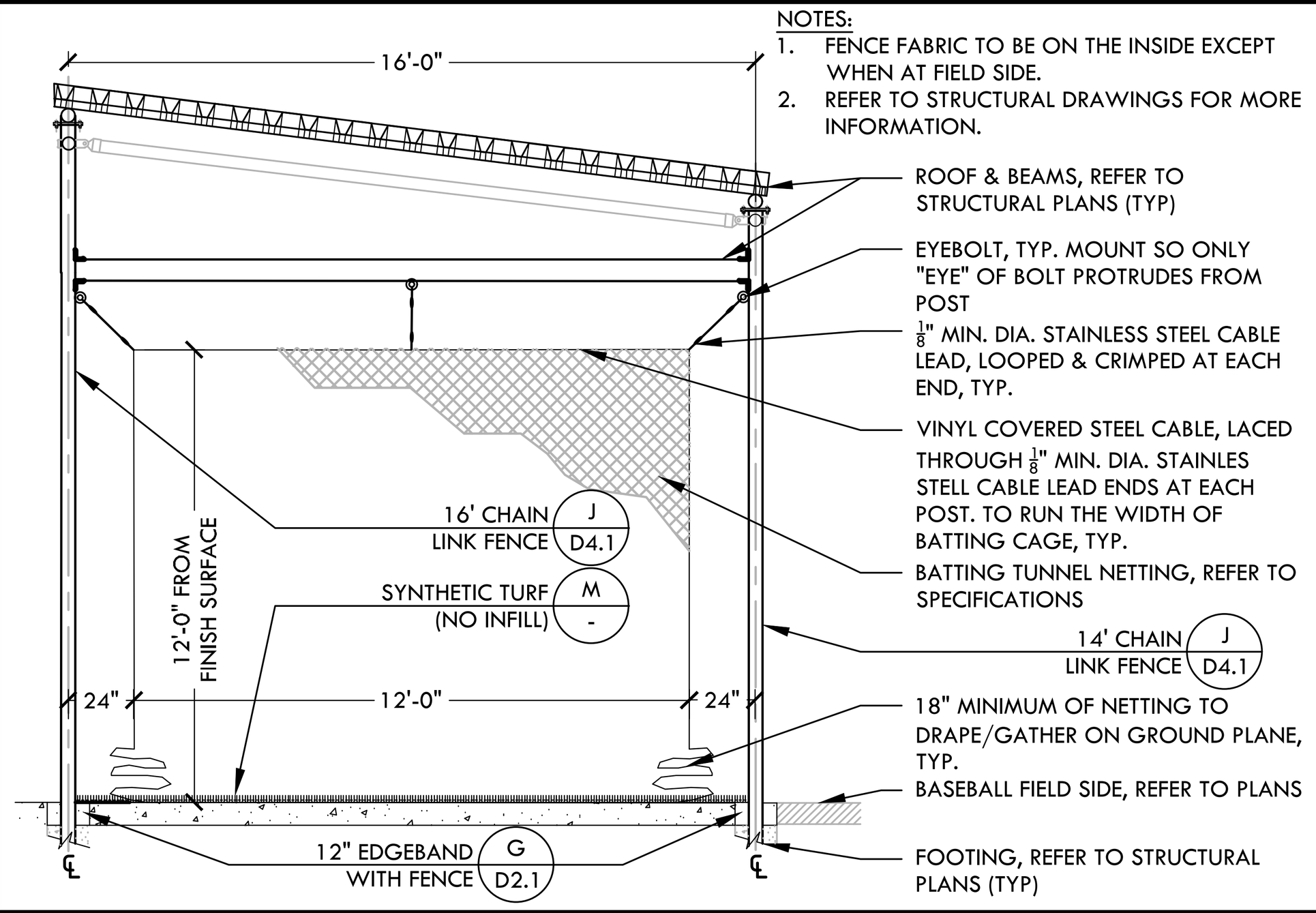


H BASE BOARD CONNECTION DETAIL NTS

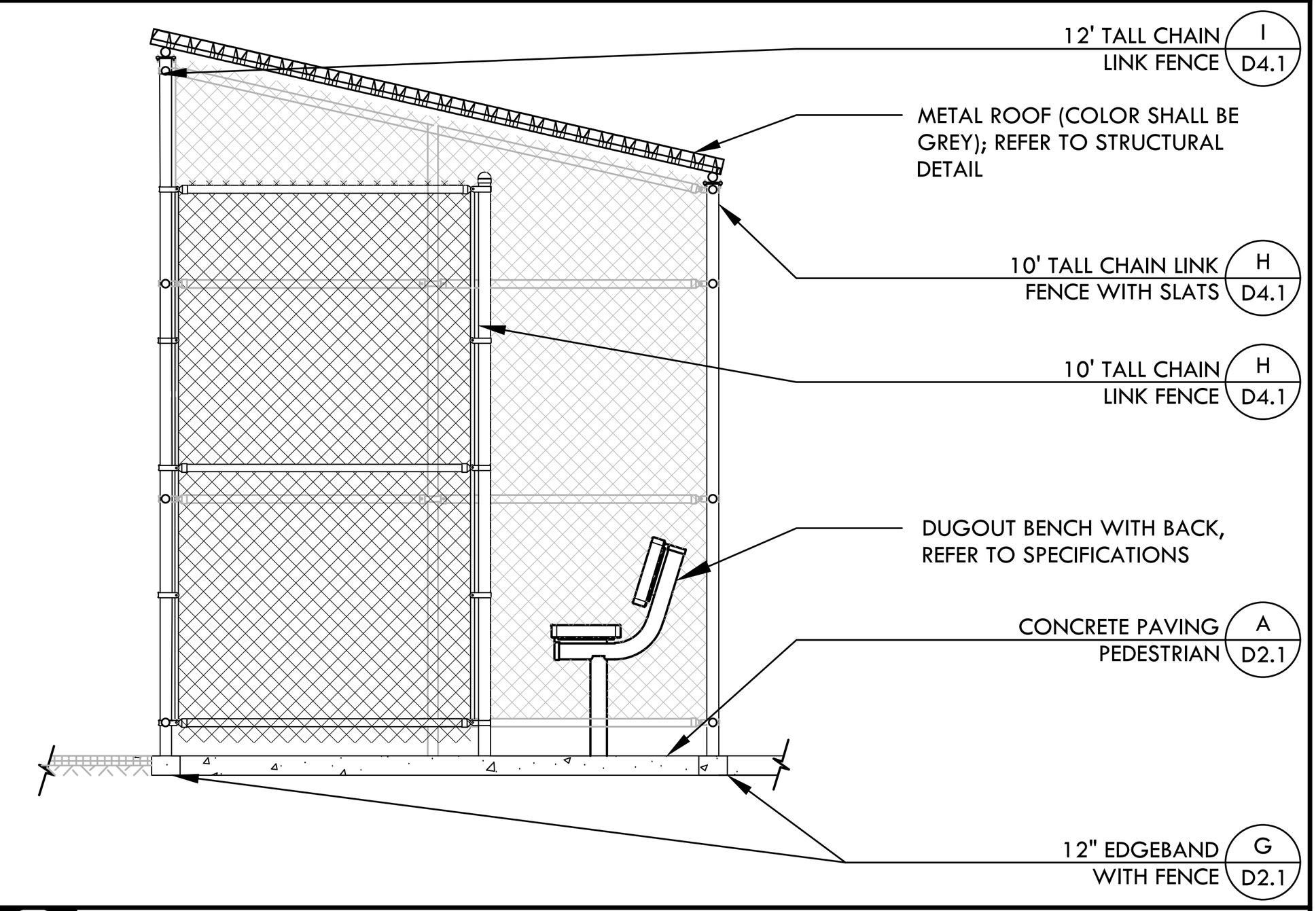


E FOUL POLE NTS

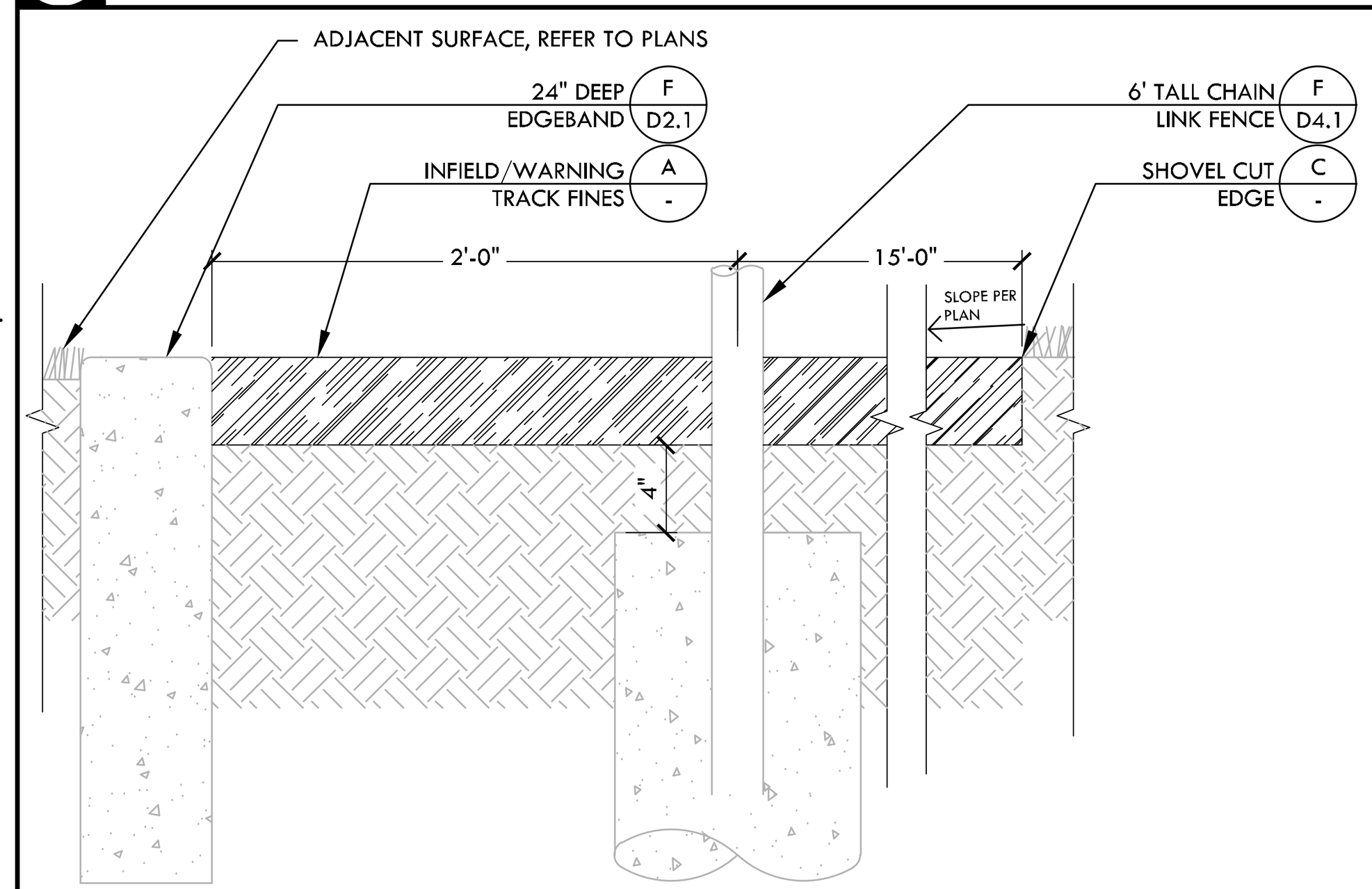
NOTES:
1. FENCE FABRIC TO BE ON THE INSIDE EXCEPT WHEN AT FIELD SIDE.
2. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.



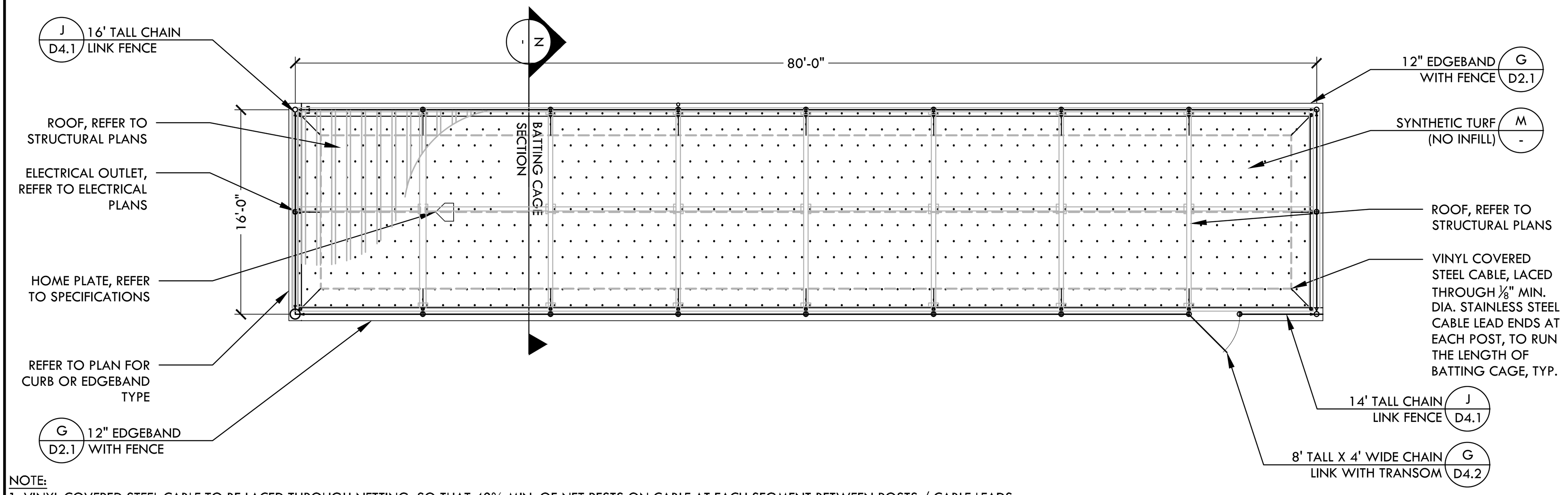
N BATTING CAGE - SECTION NTS



L CHAIN LINK DUGOUT - SECTION NTS

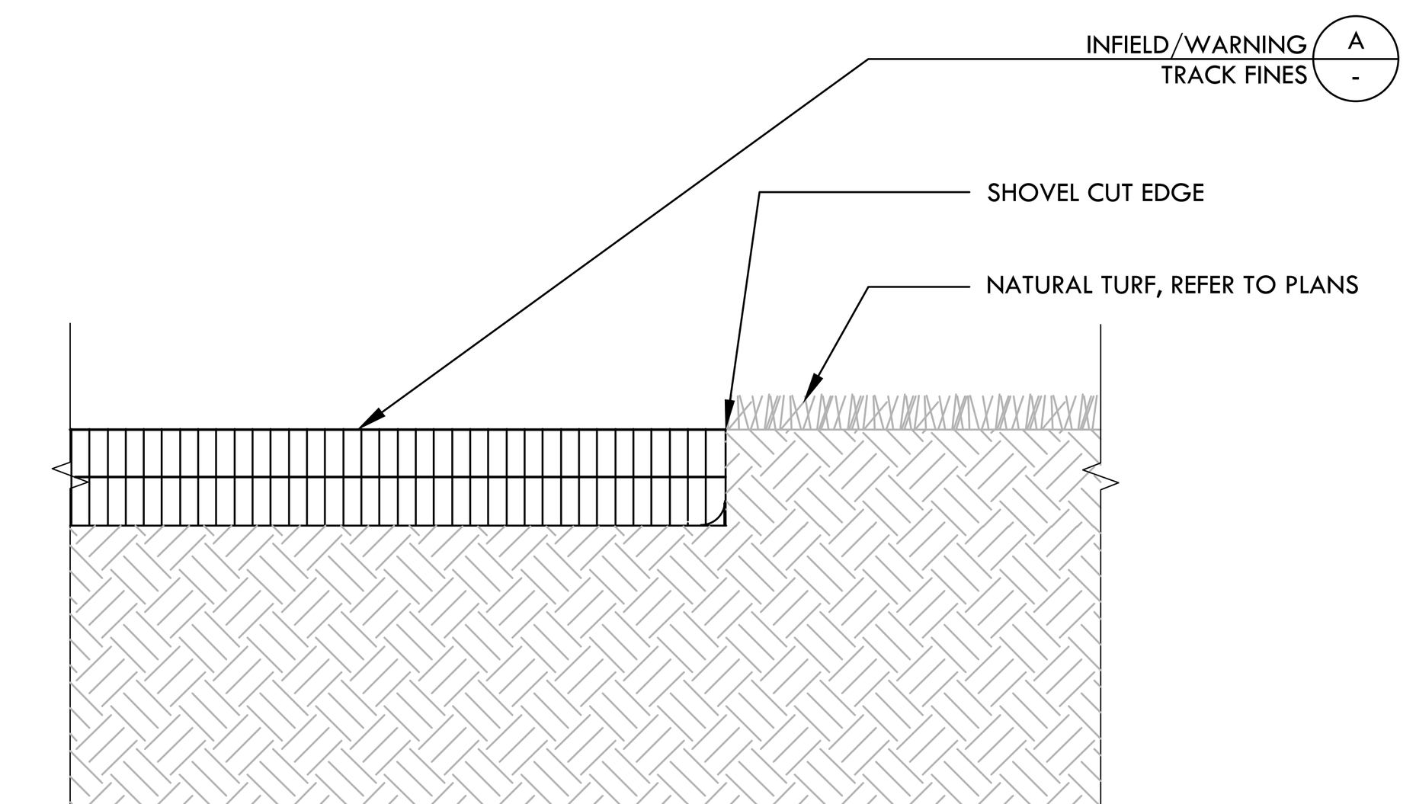


D WARNING TRACK FINES SECTION NTS

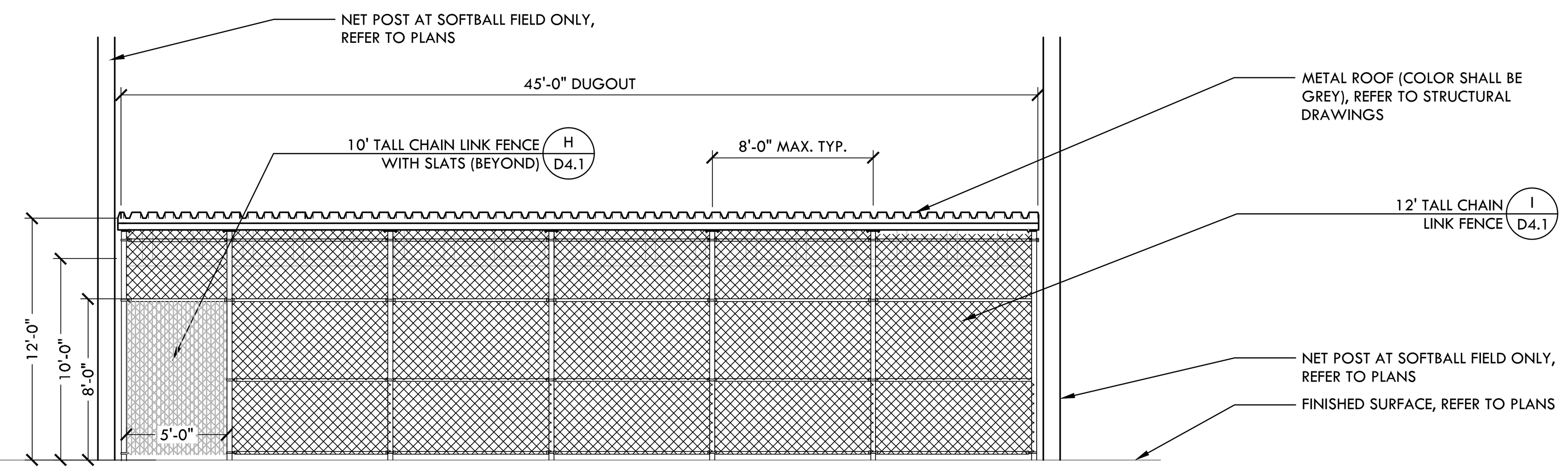


NOTE:
1. VINYL COVERED STEEL CABLE TO BE LACED THROUGH NETTING, SO THAT 40% MIN. OF NET RESTS ON CABLE AT EACH SEGMENT BETWEEN POSTS / CABLE LEADS.
2. CHAIN LINK FENCE FABRIC INSTALLED ON TOP OF BATTING CAGE EXCEPT WHEN AT FIELD SIDE.

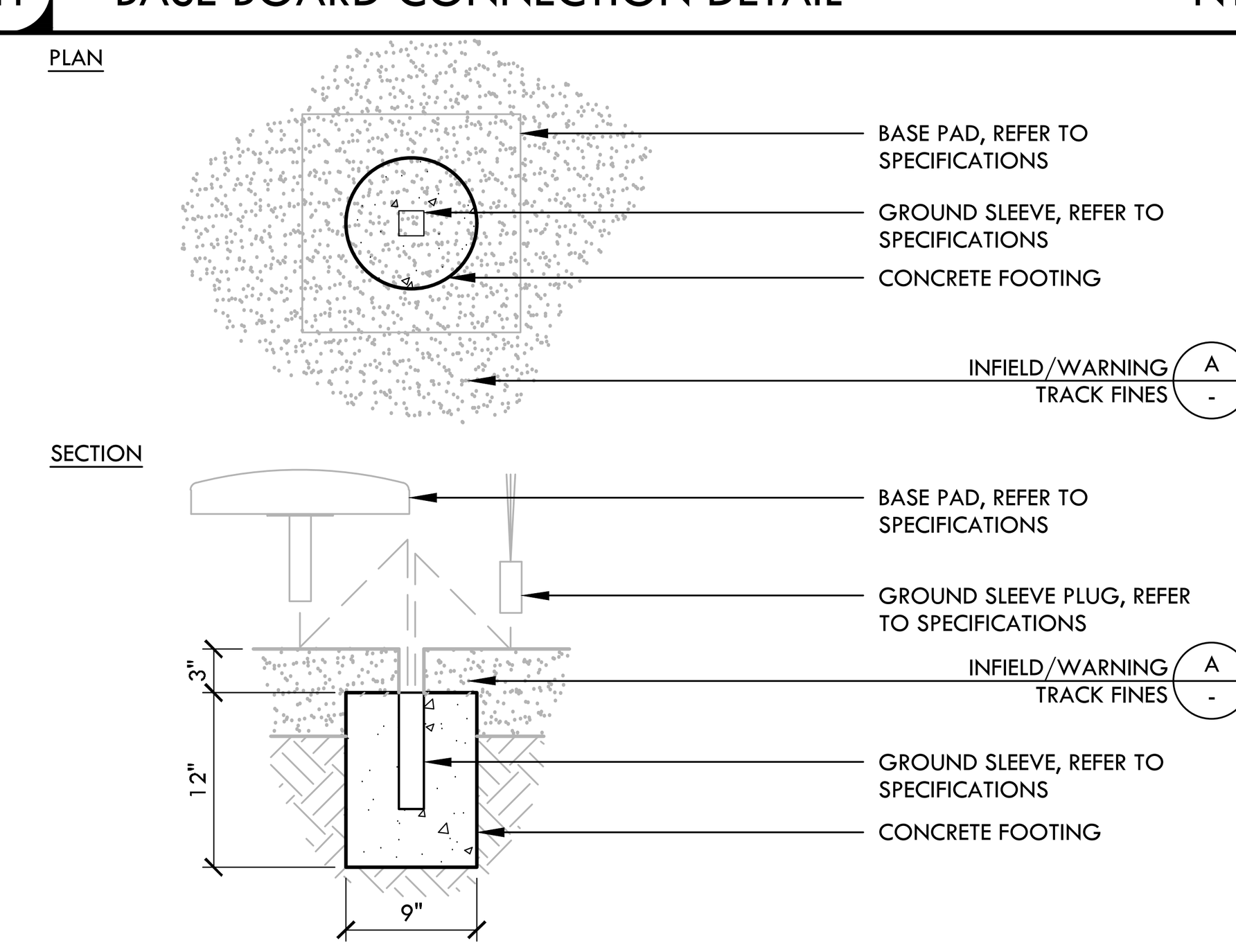
K BATTING CAGE - PLAN NTS



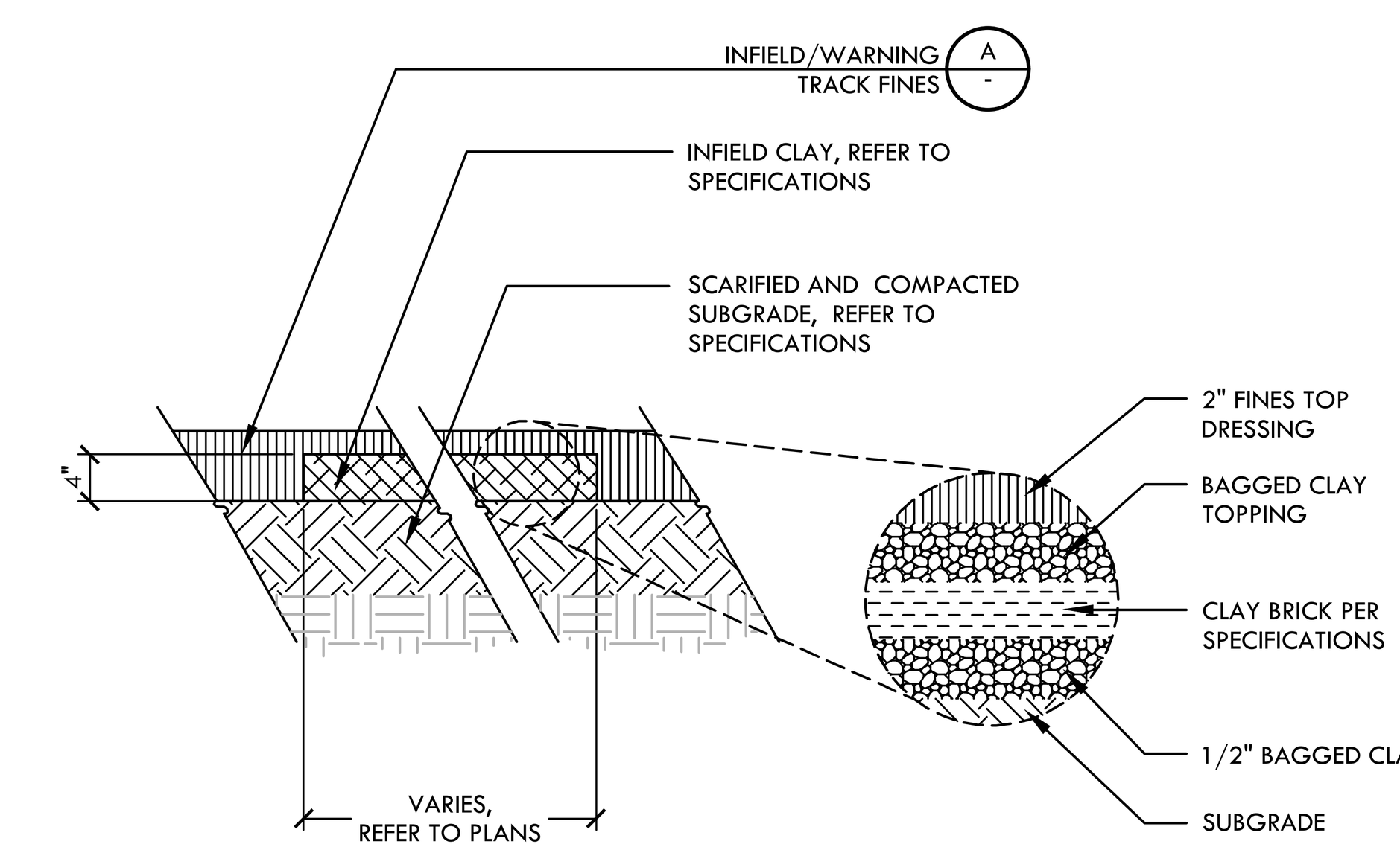
C SHOVEL CUT EDGE NTS



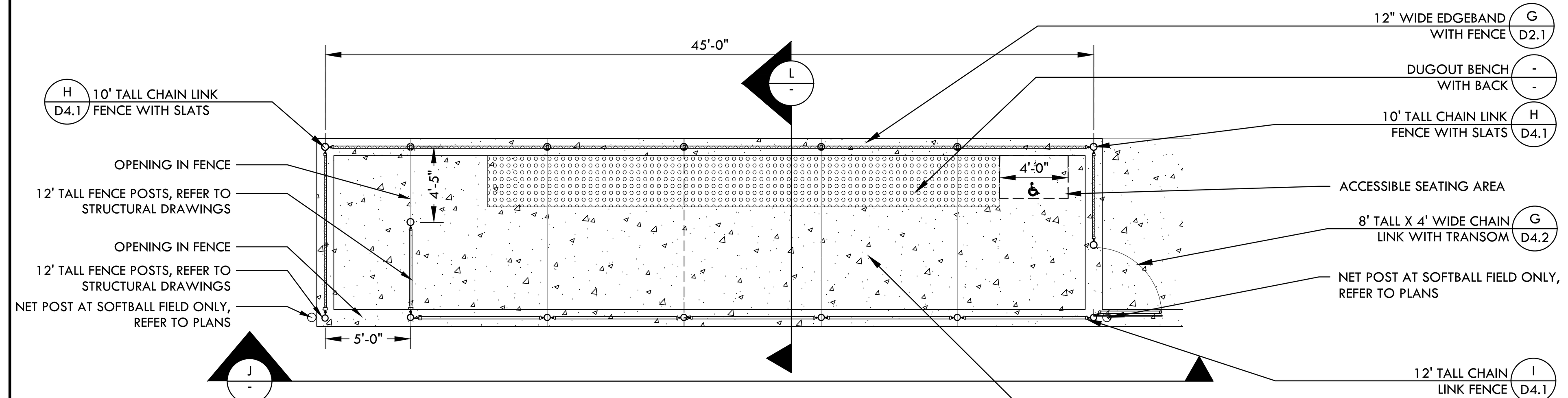
J CHAIN LINK DUGOUT - ELEVATION NTS



G BASE GROUND SLEEVE IN FINES NTS

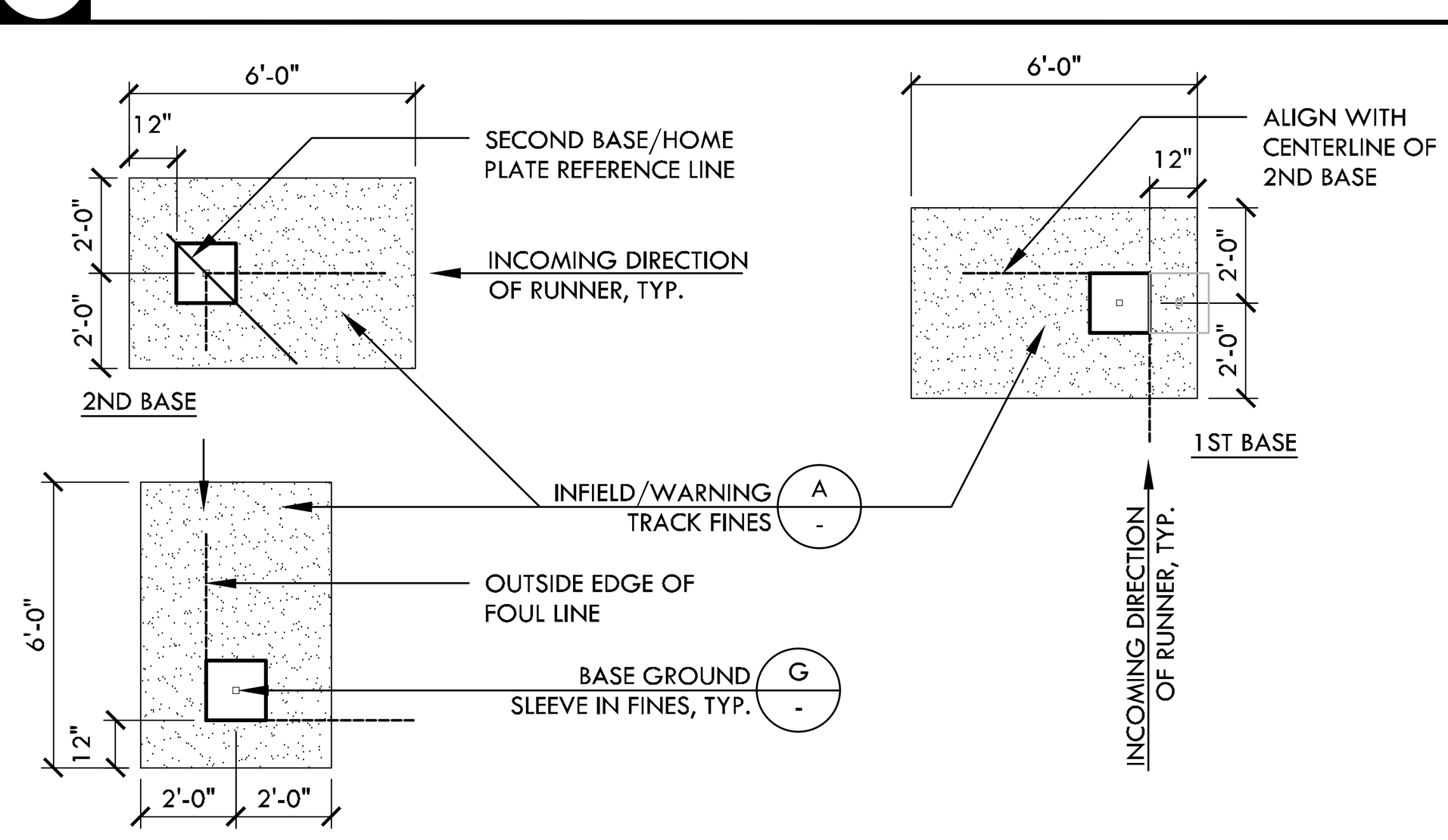


B INFIELD FINES OVER CLAY NTS



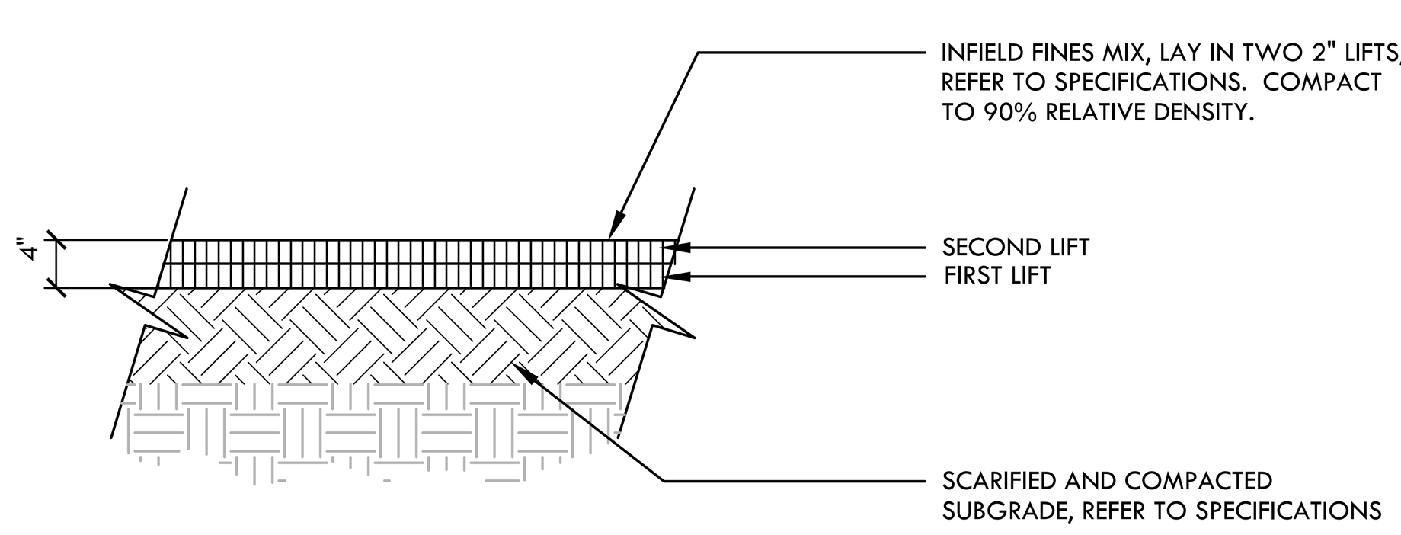
NOTE:
1. REFER TO DUGOUT ELEVATION ON DETAIL -, THIS SHEET, FOR MORE INFORMATION.

I CHAIN LINK DUGOUT - PLAN NTS



NOTES:
1. PEGS LOCATED CENTERED ON BASE, 7" FROM INTERSECTION OF BASE LINE FOR 1ST AND 3RD BASES.
2. PEGS LOCATED ON INTERSECTION OF BASE LINE FOR 2ND BASE.
3. DETAIL PROVIDED FOR LOCATION ONLY.

F BASE PAD LOCATION NTS



A INFIELD/WARNING TRACK FINES NTS

VERDE DESIGN
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SPORT PLANNING & DESIGN
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
CONSTRUCTION DETAILS - BALL FIELDS

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
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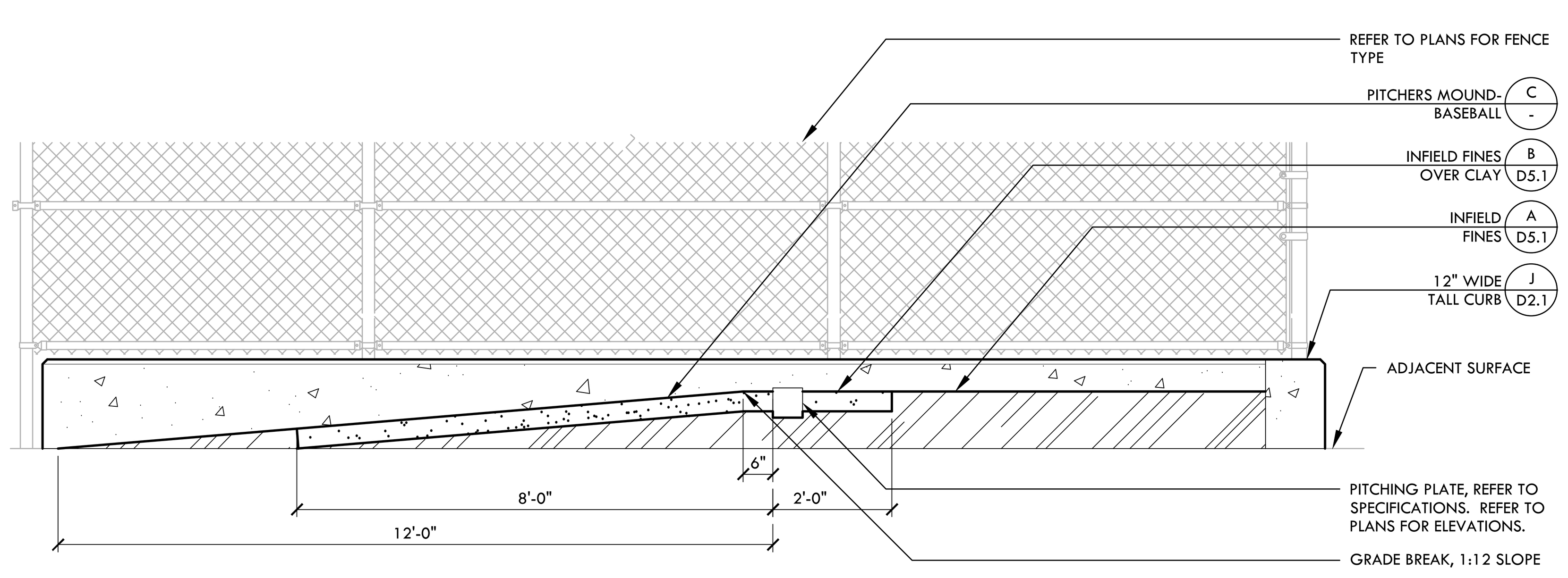
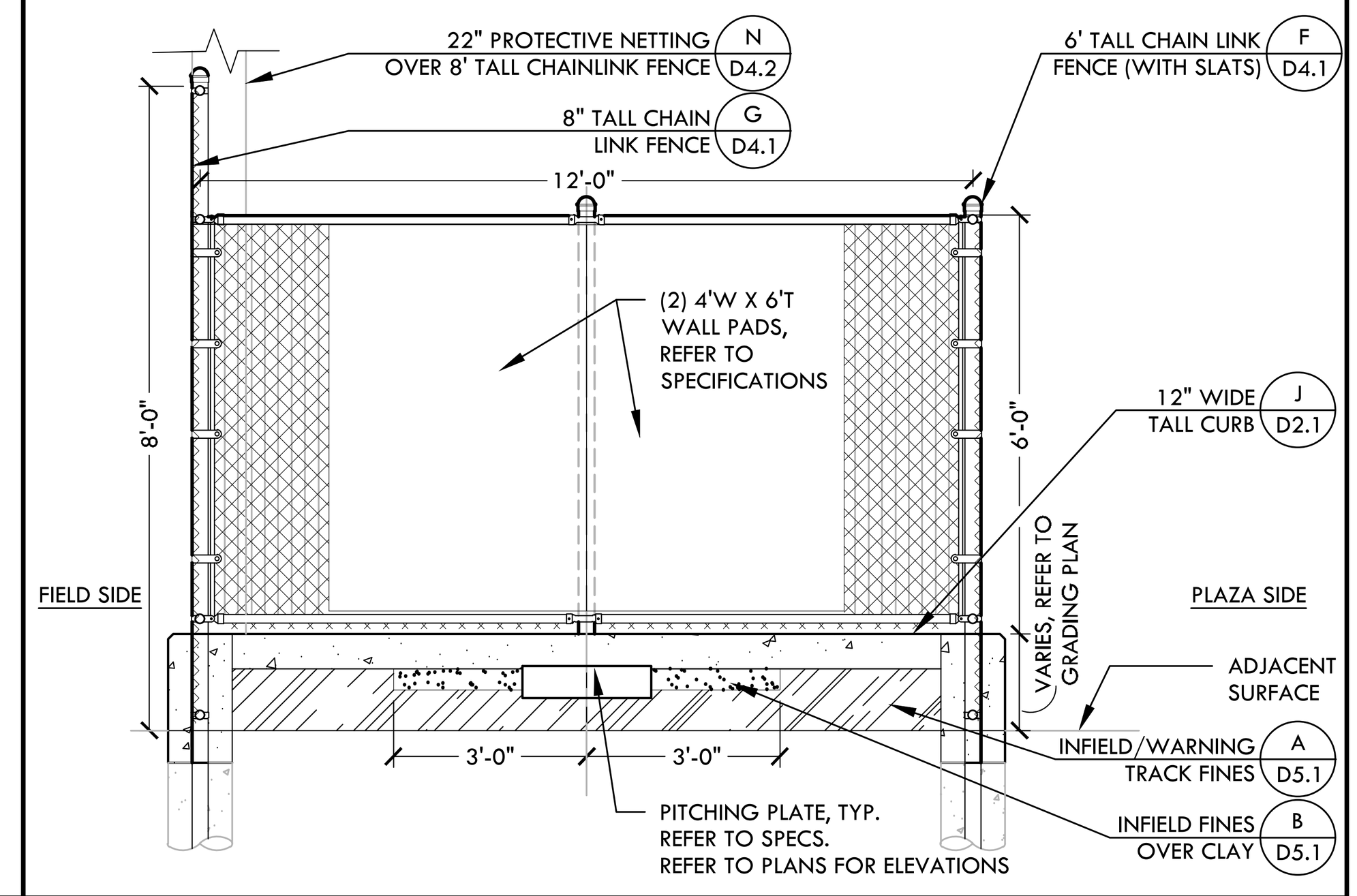
DRAWN BY: VDI
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: AS NOTED
PROJ. NO.: 2304200
SHEET NO.: D5.1

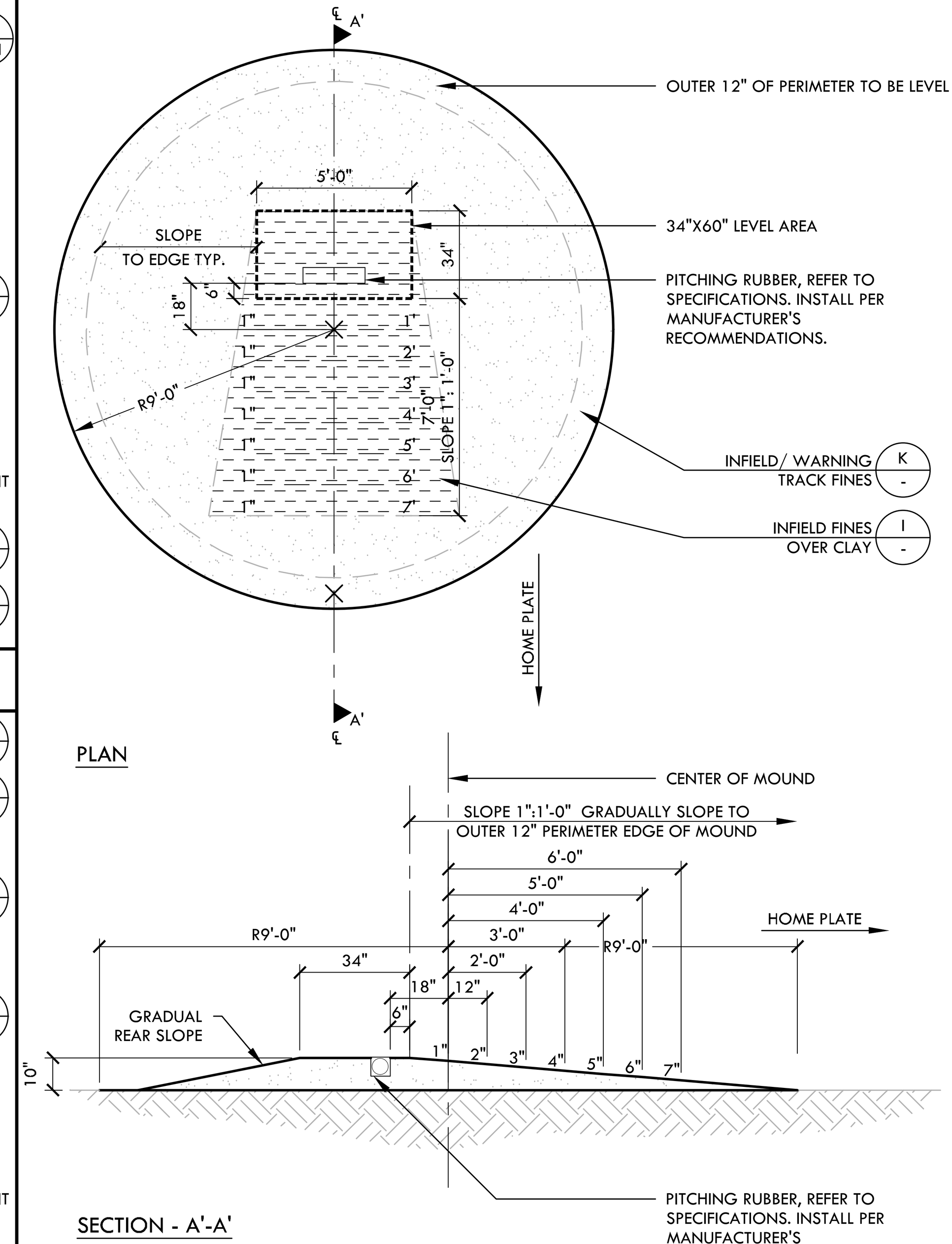
CONSTRUCTION DETAIL - BALL FIELDS


REFER TO PLANS FOR FENCE TYPE
PITCHERS MOUND- BASEBALL C -
INFIELD FINES OVER CLAY B D5.1
INFIELD FINES A D5.1
12" WIDE TALL CURB J D2.1
ADJACENT SURFACE
6"
8'-0"
2'-0"
12'-0"
PITCHING PLATE, REFER TO SPECIFICATIONS. REFER TO PLANS FOR ELEVATIONS.
GRADE BREAK, 1:12 SLOPE

K PITCHING MOUND - SECTION NTS

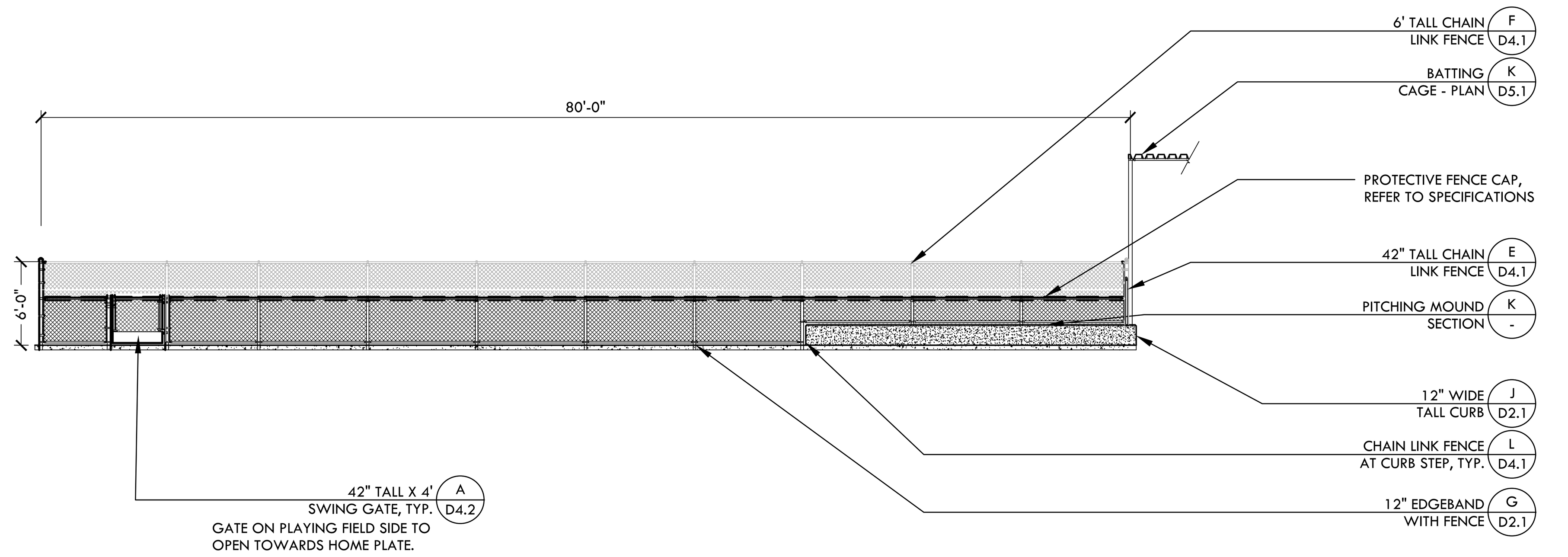

22" PROTECTIVE NETTING OVER 8' TALL CHAINLINK FENCE N D4.2
8" TALL CHAIN LINK FENCE G D4.1
6' TALL CHAIN LINK FENCE (WITH SLATS) F D4.1
12'-0"
8'-0"
6'-0"
(2) 4'W X 6'T WALL PADS, REFER TO SPECIFICATIONS
12" WIDE TALL CURB J D2.1
FIELD SIDE
PLAZA SIDE
VARIES, REFER TO GRADING PLAN
ADJACENT SURFACE
3'-0"
3'-0"
INFIELD/WARNING TRACK FINES A D5.1
INFIELD FINES OVER CLAY B D5.1
PITCHING PLATE, TYP. REFER TO SPECS. REFER TO PLANS FOR ELEVATIONS

F BASEBALL BULLPEN (1ST BASE) - SECTION

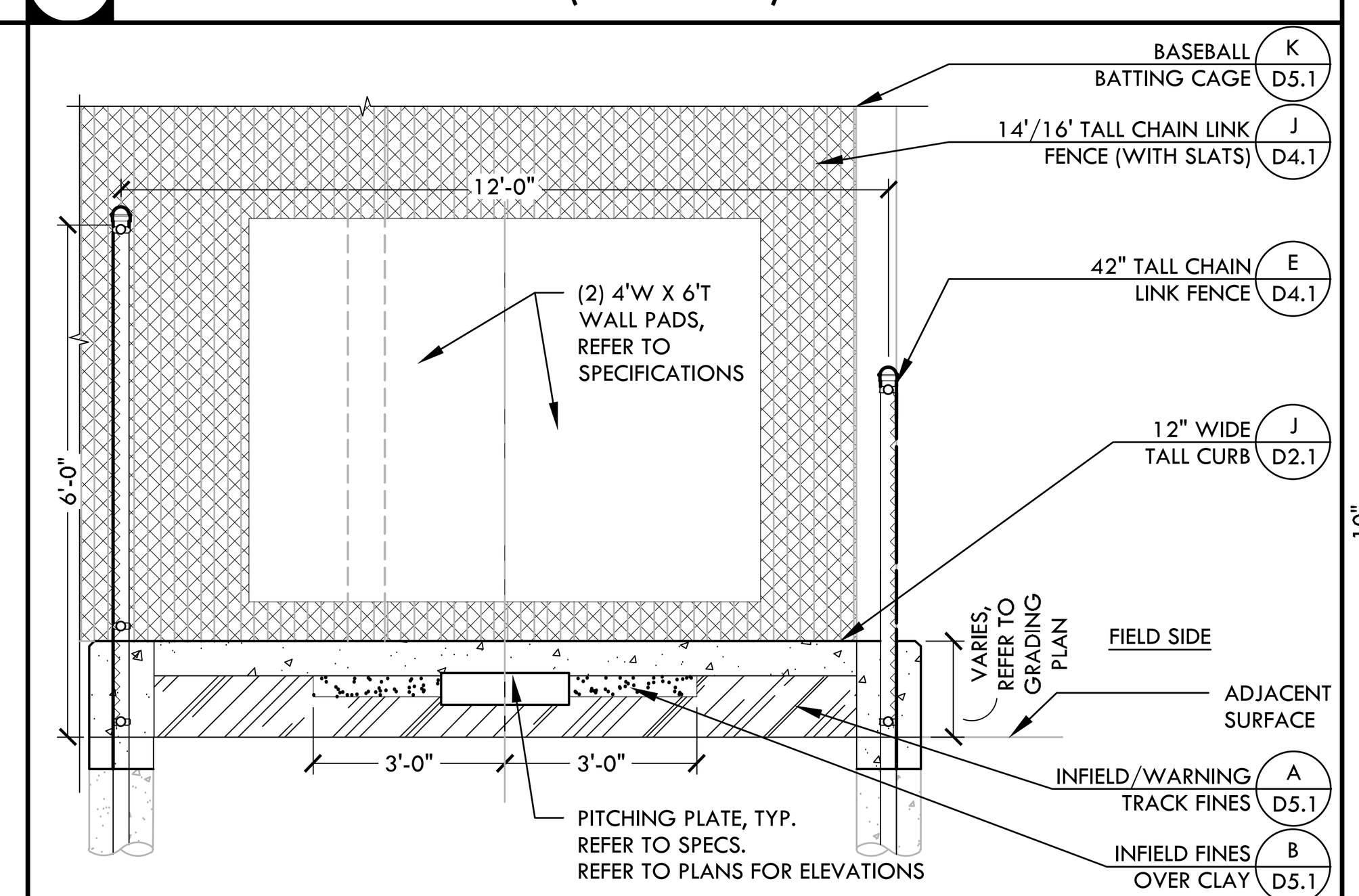

A'
OUTER 12" OF PERIMETER TO BE LEVEL
5'-0"
34"X60" LEVEL AREA
SLOPE TO EDGE TYP.
34"
PITCHING RUBBER, REFER TO SPECIFICATIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
18"
6"
R9'-0"
SLOPE 1":1'-0"
INFIELD/ WARNING TRACK FINES K -
INFIELD FINES OVER CLAY I -
HOME PLATE
PLAN
CENTER OF MOUND
SLOPE 1":1'-0" GRADUALLY SLOPE TO OUTER 12" PERIMETER EDGE OF MOUND
6'-0"
5'-0"
4'-0"
3'-0"
2'-0"
R9'-0"
R9'-0"
HOME PLATE
34"
18"
12"
6"
GRADUAL REAR SLOPE
10"
1" 2" 3" 4" 5" 6" 7"
PITCHING RUBBER, REFER TO SPECIFICATIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
SECTION - A'-A'

NOTES:
1. LOCATE FRONT EDGE OF PLATE 18" BEHIND CENTER OF MOUND.
2. PITCHING MOUND HEIGHT PER OFFICIAL BASEBALL RULES.
3. DISTANCE FROM FRONT OF PITCHING PLATE TO BACK OF HOME PLATE TO BE 60'-6".

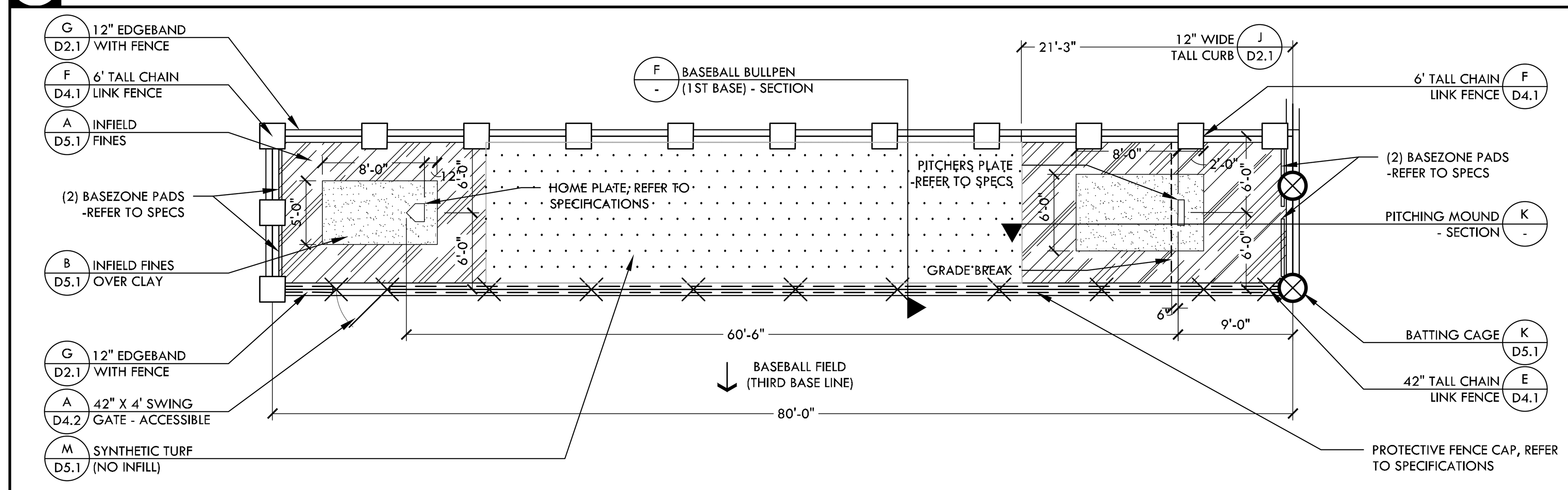
C PITCHERS MOUND - BASEBALL NTS


80'-0"
6'-0"
6' TALL CHAIN LINK FENCE F D4.1
BATTING CAGE - PLAN K D5.1
PROTECTIVE FENCE CAP, REFER TO SPECIFICATIONS
42" TALL CHAIN LINK FENCE E D4.1
PITCHING MOUND SECTION K -
12" WIDE TALL CURB J D2.1
CHAIN LINK FENCE AT CURB STEP, TYP. L D4.1
12" EDGEBAND WITH FENCE G D2.1
42" TALL X 4' SWING GATE, TYP. A D4.2
GATE ON PLAYING FIELD SIDE TO OPEN TOWARDS HOME PLATE.

J BASEBALL BULLPEN (3RD BASE) - ELEVATION NTS

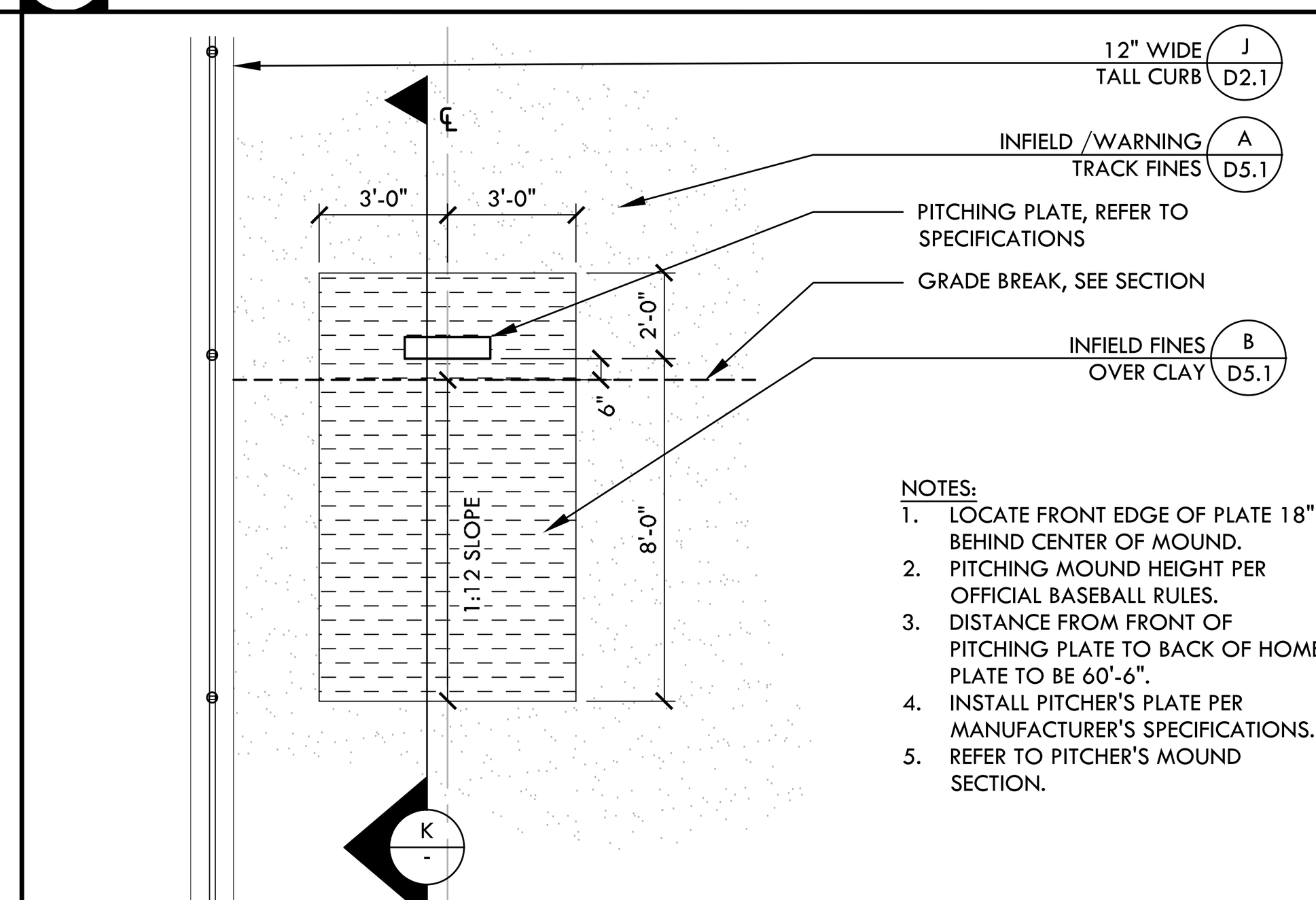

BASEBALL BATTING CAGE K D5.1
14'/16' TALL CHAIN LINK FENCE (WITH SLATS) J D4.1
12'-0"
(2) 4'W X 6'T WALL PADS, REFER TO SPECIFICATIONS
42" TALL CHAIN LINK FENCE E D4.1
6'-0"
12" WIDE TALL CURB J D2.1
VARIES, REFER TO GRADING PLAN
FIELD SIDE
ADJACENT SURFACE
3'-0"
3'-0"
INFIELD/WARNING TRACK FINES A D5.1
INFIELD FINES OVER CLAY B D5.1
PITCHING PLATE, TYP. REFER TO SPECS. REFER TO PLANS FOR ELEVATIONS

E BASEBALL BULLPEN (3RD BASE) - SECTION NTS


12" EDGEBAND WITH FENCE G D2.1
6' TALL CHAIN LINK FENCE F D4.1
INFIELD FINES A D5.1
(2) BASEZONE PADS -REFER TO SPECS
INFIELD FINES OVER CLAY B D5.1
12" EDGEBAND WITH FENCE G D2.1
42" X 4' SWING GATE - ACCESSIBLE A D4.2
SYNTHETIC TURF (NO INFILL) M D5.1
BASEBALL BULLPEN (1ST BASE) - SECTION F -
HOME PLATE, REFER TO SPECIFICATIONS
PITCHERS PLATE -REFER TO SPECS
GRADE BREAK
21'-3"
12" WIDE TALL CURB J D2.1
6' TALL CHAIN LINK FENCE F D4.1
(2) BASEZONE PADS -REFER TO SPECS
PITCHING MOUND - SECTION K -
BATTING CAGE K D5.1
42" TALL CHAIN LINK FENCE E D4.1
PROTECTIVE FENCE CAP, REFER TO SPECIFICATIONS
8'-0"
12"
6'-0"
5'-0"
2'-0"
6"
9'-0"
60'-6"
BASEBALL FIELD (THIRD BASE LINE)
80'-0"

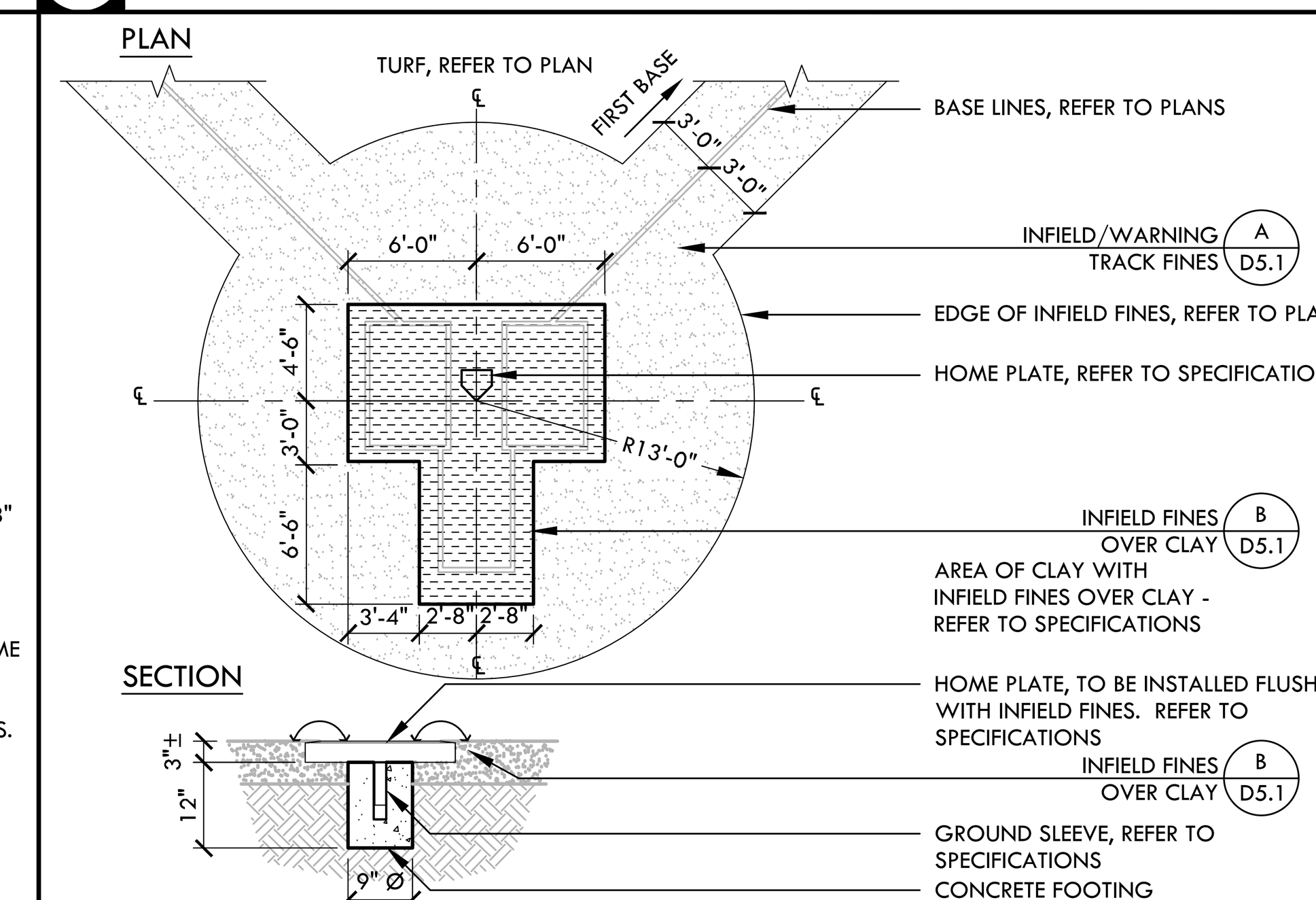
NOTE:
1. FENCE FABRIC TO BE ON INSIDE OF BULLPEN EXCEPT AT FIELD SIDE
2. GATE ON PLAYING FIELD SIDE TO OPEN TOWARDS HOME PLATE.

I BASEBALL BULLPEN (3RD BASE) - PLAN NTS

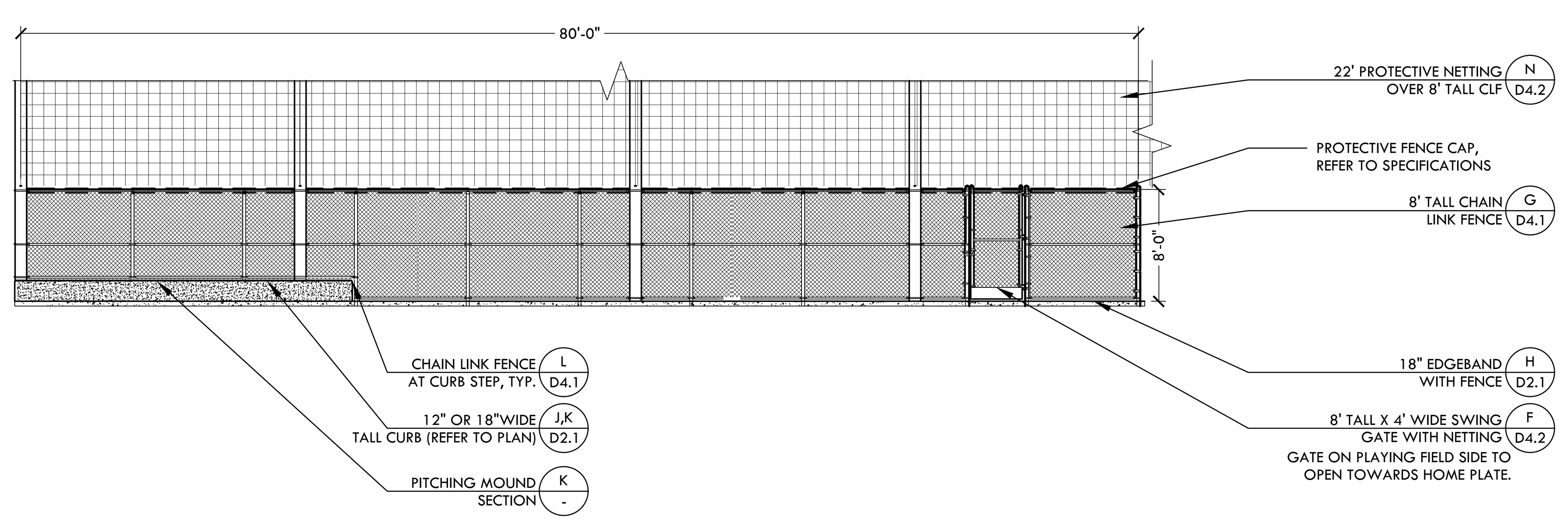


NOTES:
1. LOCATE FRONT EDGE OF PLATE 18" BEHIND CENTER OF MOUND.
2. PITCHING MOUND HEIGHT PER OFFICIAL BASEBALL RULES.
3. DISTANCE FROM FRONT OF PITCHING PLATE TO BACK OF HOME PLATE TO BE 60'-6".
4. INSTALL PITCHER'S PLATE PER MANUFACTURER'S SPECIFICATIONS.
5. REFER TO PITCHER'S MOUND SECTION.

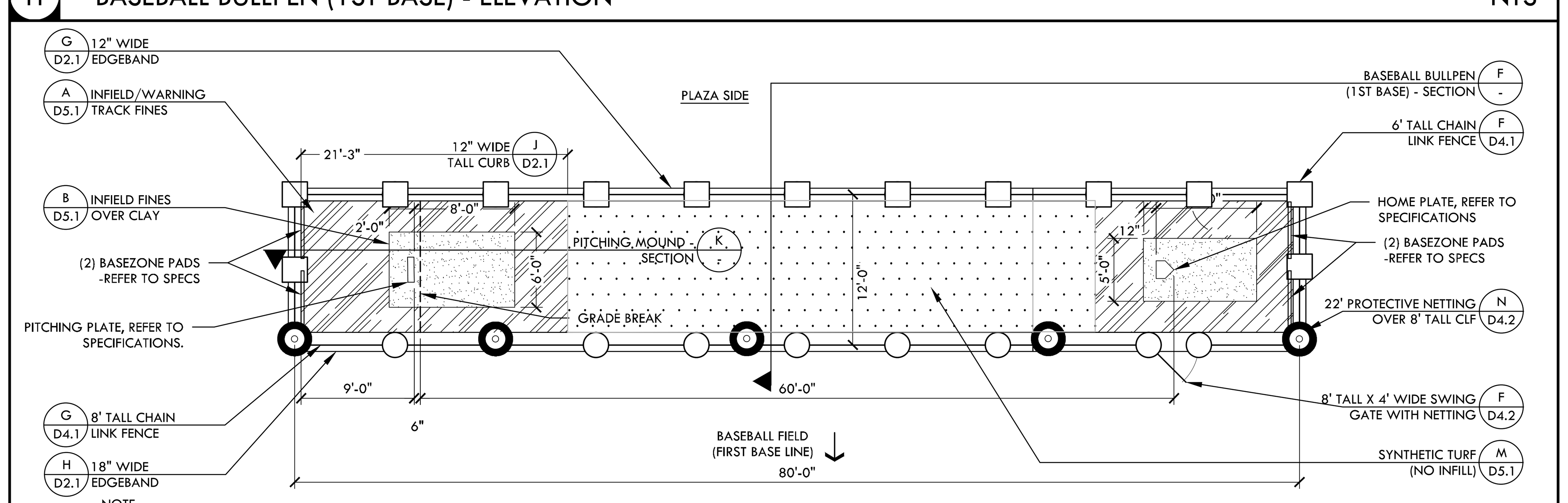
D PITCHING MOUND IN BULLPEN - BASEBALL NTS


PLAN
TURF, REFER TO PLAN
FIRST BASE
3'-0"
3'-0"
BASE LINES, REFER TO PLANS
INFIELD/WARNING TRACK FINES A D5.1
6'-0"
6'-0"
EDGE OF INFIELD FINES, REFER TO PLANS
HOME PLATE, REFER TO SPECIFICATIONS
4'-6"
3'-0"
6'-6"
R13'-0"
3'-4"
2'-8"
2'-8"
INFIELD FINES OVER CLAY B D5.1
AREA OF CLAY WITH INFIELD FINES OVER CLAY - REFER TO SPECIFICATIONS
SECTION
HOME PLATE, TO BE INSTALLED FLUSH WITH INFIELD FINES. REFER TO SPECIFICATIONS
INFIELD FINES OVER CLAY B D5.1
3"±
12"
9" Ø
GROUND SLEEVE, REFER TO SPECIFICATIONS
CONCRETE FOOTING

B HOME PLATE - BASEBALL NTS

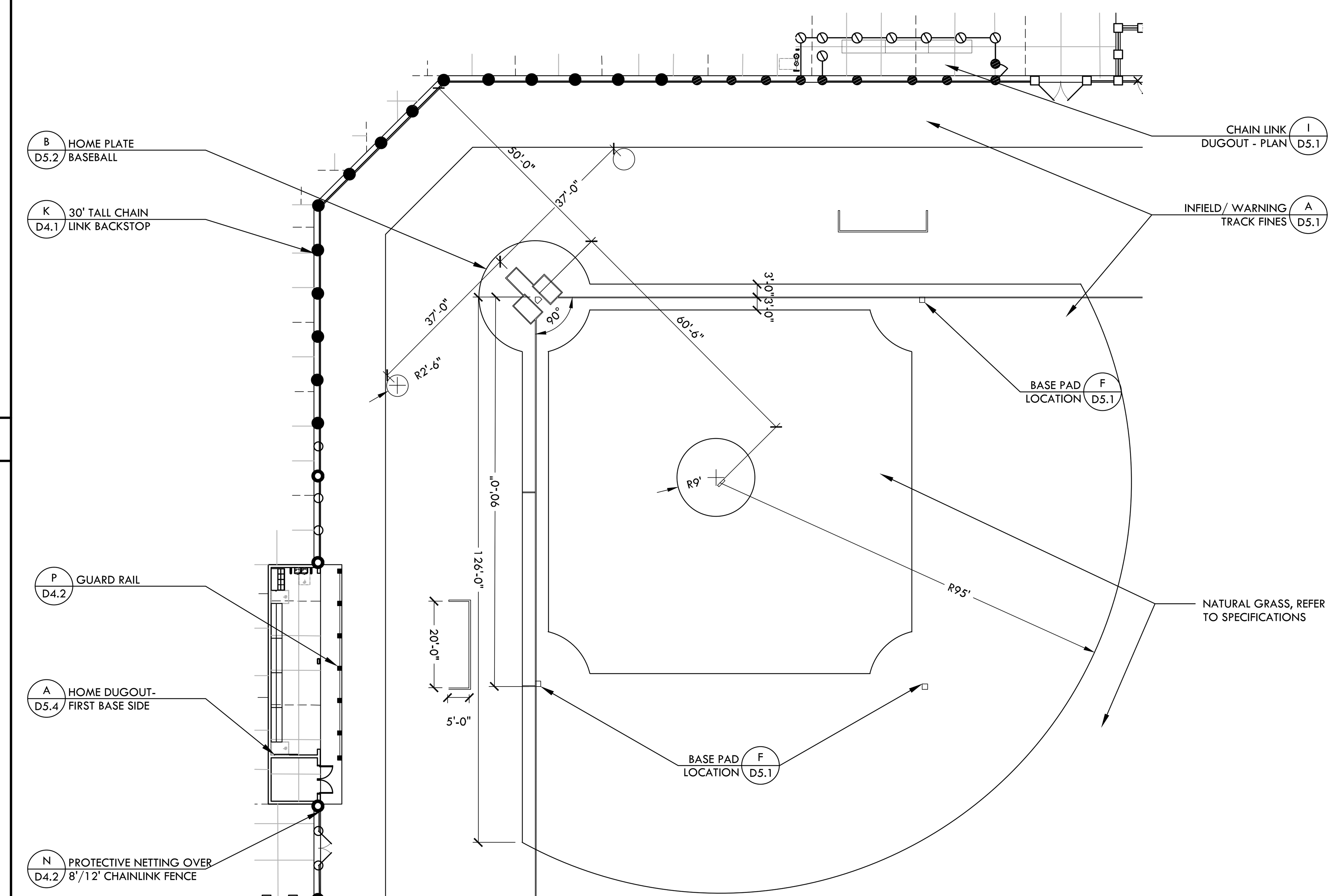

80'-0"
22' PROTECTIVE NETTING OVER 8' TALL CLF N D4.2
PROTECTIVE FENCE CAP, REFER TO SPECIFICATIONS
8' TALL CHAIN LINK FENCE G D4.1
8'-0"
18" EDGEBAND WITH FENCE H D2.1
8' TALL X 4' WIDE SWING GATE WITH NETTING F D4.2
GATE ON PLAYING FIELD SIDE TO OPEN TOWARDS HOME PLATE.
CHAIN LINK FENCE AT CURB STEP, TYP. L D4.1
12" OR 18"WIDE TALL CURB (REFER TO PLAN) J,K D2.1
PITCHING MOUND SECTION K -

H BASEBALL BULLPEN (1ST BASE) - ELEVATION NTS


12" WIDE EDGEBAND G D2.1
INFIELD/WARNING TRACK FINES A D5.1
INFIELD FINES OVER CLAY B D5.1
(2) BASEZONE PADS -REFER TO SPECS
PITCHING PLATE, REFER TO SPECIFICATIONS.
8' TALL CHAIN LINK FENCE G D4.1
18" WIDE EDGEBAND H D2.1
PLAZA SIDE
21'-3"
12" WIDE TALL CURB J D2.1
8'-0"
2'-0"
6'-0"
PITCHING MOUND - SECTION K -
GRADE BREAK
12'-0"
12"
5'-0"
9'-0"
6"
60'-0"
BASEBALL FIELD (FIRST BASE LINE)
80'-0"
BASEBALL BULLPEN (1ST BASE) - SECTION F -
6' TALL CHAIN LINK FENCE F D4.1
HOME PLATE, REFER TO SPECIFICATIONS
(2) BASEZONE PADS -REFER TO SPECS
22' PROTECTIVE NETTING OVER 8' TALL CLF N D4.2
8' TALL X 4' WIDE SWING GATE WITH NETTING F D4.2
SYNTHETIC TURF (NO INFILL) M D5.1

NOTE:
1. FENCE FABRIC TO BE ON INSIDE OF BULLPEN EXCEPT AT FIELD SIDE
2. GATE ON PLAYING FIELD SIDE TO OPEN TOWARDS HOME PLATE.

G BASEBALL BULLPEN (1ST BASE) - PLAN NTS


HOME PLATE BASEBALL B D5.2
30' TALL CHAIN LINK BACKSTOP K D4.1
GUARD RAIL P D4.2
HOME DUGOUT- FIRST BASE SIDE A D5.4
PROTECTIVE NETTING OVER 8'/12' CHAINLINK FENCE N D4.2
CHAIN LINK DUGOUT - PLAN I D5.1
INFIELD/ WARNING TRACK FINES A D5.1
BASE PAD LOCATION F D5.1
BASE PAD LOCATION F D5.1
NATURAL GRASS, REFER TO SPECIFICATIONS
50'-0"
37'-0"
37'-0"
R2'-6"
90°
60'-6"
3'-0"
3'-0"
R9'
R95'
90'-0"
126'-0"
20'-0"
5'-0"

A BASEBALL INFIELD NTS

VERDE DESIGN
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CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4069
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE

CONSTRUCTION DETAILS - BASEBALL

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
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DRAWN BY VDI	CHECKED BY CS/MB
DATE ISSUED 10/25/23	SCALE AS NOTED

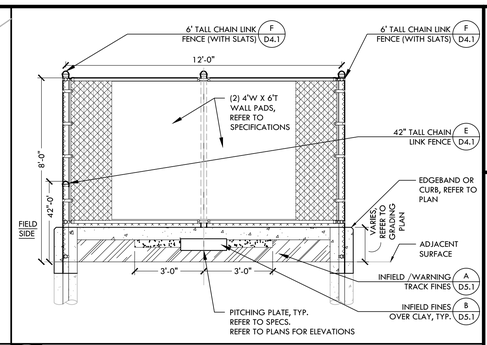
PROJ. NO. 2304200

SHEET NO. D5.2

CONSTRUCTION DETAIL - BASEBALL

NOT USED

NOT USED



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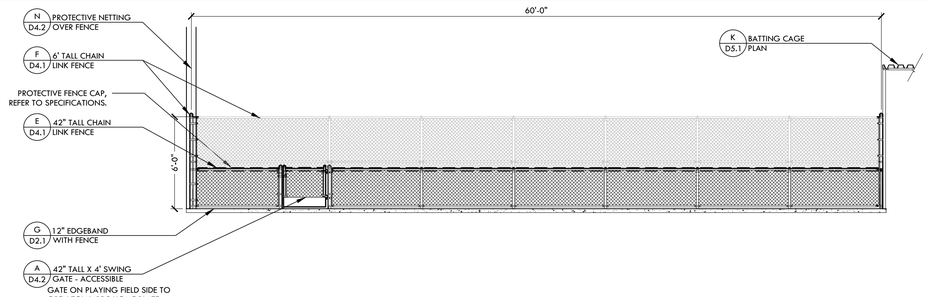
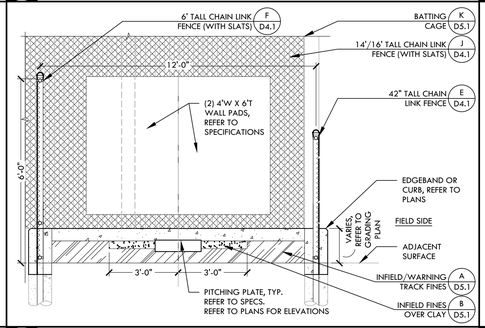


J SOFTBALL BULLPEN (3RD BASE) - ELEVATION NTS

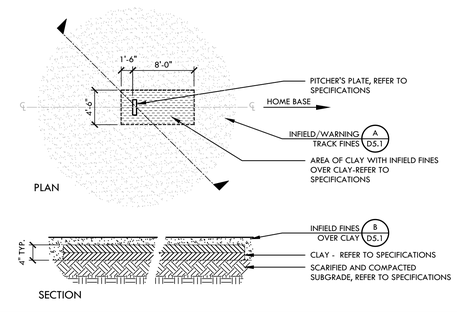
F



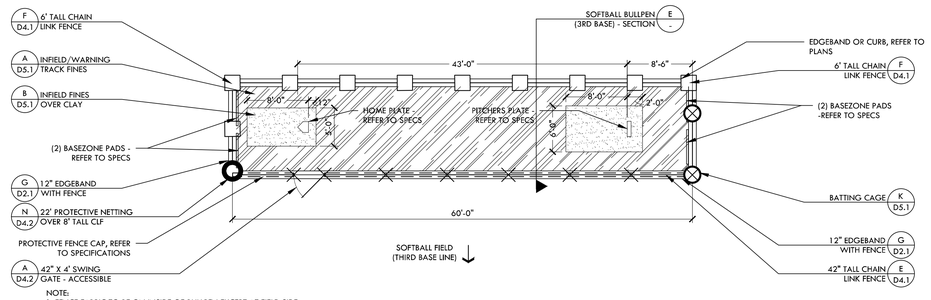
E SOFTBALL BULLPEN (3RD BASE) - SECTION NTS

D SOFTBALL BULLPEN (1ST BASE) - SECTION NTS

C

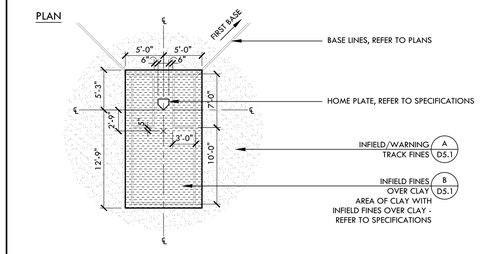


PITCHERS AREA - SOFTBALL NTS

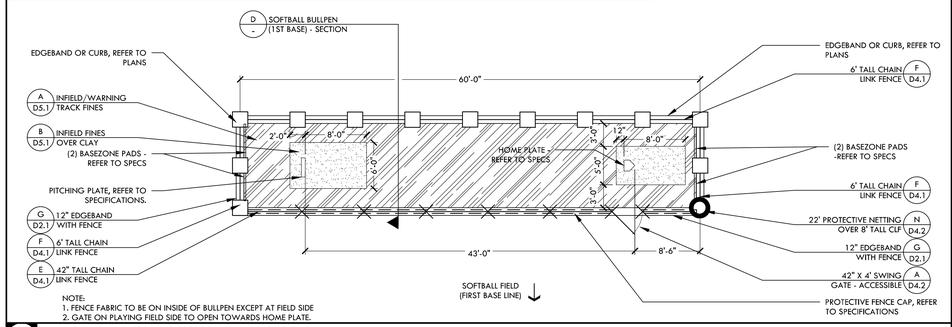


I SOFTBALL BULLPEN (3RD BASE) - PLAN NTS

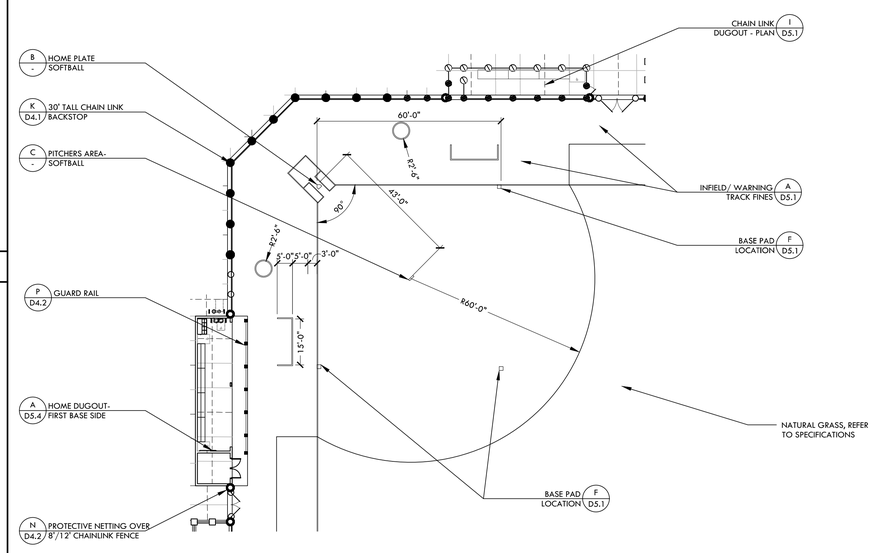
B



HOME PLATE - SOFTBALL NTS



G SOFTBALL BULLPEN (1ST BASE) - PLAN NTS



A SOFTBALL INFIELD NTS

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STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
CONSTRUCTION DETAILS - SOFTBALL

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

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DRAWN BY	CHECKED BY
VDI	CS/MB
DATE ISSUED	SCALE
10/25/23	AS NOTED

PROJ. NO. 2304200

SHEET NO. D5.3

DRAWING NAME: C:\Users\STATIO~1\AppData\Local\Temp\AcPublish_51240_DTL-ATH-JFK.dwg
PLOT DATE: 10-24-23 PLOTTED BY: station50

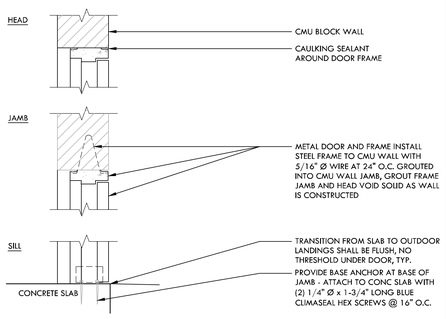
DOOR AND FRAME SCHEDULE						
DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK.	DOOR MATERIAL	FRAME MATERIAL	FRAME RATING
A	DBL. 6'-4"	7'-0"MIN	1-3/4"	MTL.	STEEL	NONE

NOTES:
1. CONTRACTOR SHALL VERIFY ALL DOOR SIZES AND ROUGH OPENINGS IN FIELD PRIOR TO ORDERING.
2. VERIFY ALL DOORS, FRAMES AND HARDWARE WITH OWNER.
3. DOOR HARDWARE AT ALL EXIT DOOR SHALL ALLOW DOORS TO BE OPENED FROM THE INSIDE WITHOUT A KEY, SPECIAL KNOWLEDGE, OR EFFORT PER CBC 1010.9.1.
4. MAXIMUM DOOR OPENING EFFORTS SHALL BE 5 LBS AT EXTERIOR DOORS
5. ALL DOORS SHALL BE EQUIPPED WITH SINGLE EFFORT, NON-GRASP HARDWARE (LE LEVER) CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.
6. ALL DOORS SHALL HAVE A 10" HIGH MINIMUM FLAT SURFACE AT THE DOOR BOTTOM TO BE USED AS A KICKPLATE, NO GLAZING.
7. DOORS SHALL HAVE KEYED OPERATED LOCKING DEVICES ONLY ACTIVE FROM THE EXTERIOR.
8. ALL DOORS SHALL BE PROVIDED WITH FLOOR MOUNTED DOME STOPS LOCATED NEAR WALL FOR DOOR TO OPEN 175°.

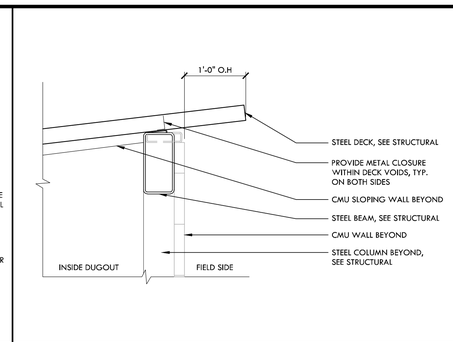
HARDWARE DOOR 'A'
LOCKET SET: STOREROOM LOCK, SCHLAGE ND96PD, RHODES
CYLINDER: SCHLAGE 20-765 PRIMUS
HINGES: HAGER BB1199 STAINLESS, 2 PAIRS
CLOSER: NORTON PR7500DA
STOP: TRIMCO #1260W
LOCKGUARD: BLP 107-630
FLUSH BOLTS: IVES 262

HARDWARE DOOR 'B'
LOCKET SET: STOREROOM LOCK, SCHLAGE ND96PD, RHODES
CYLINDER: SCHLAGE 20-765 PRIMUS
HINGES: HAGER BB1199 STAINLESS, 2 PAIRS
CLOSER: NORTON PR7500DA
STOP: TRIMCO #1260W
LOCKGUARD: BLP 107-630
FLUSH BOLTS: IVES 262
ASTRAGAL: PEMKO 305CN

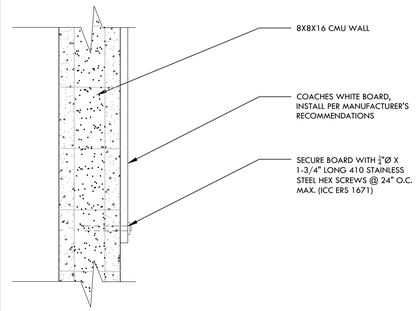
I DOOR FRAME AND SCHEDULE NTS



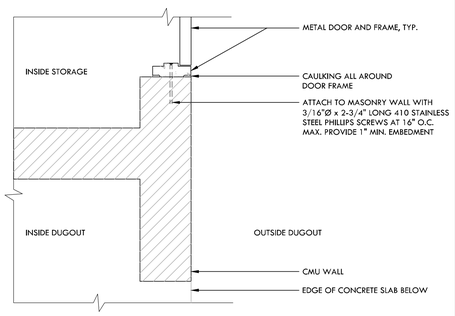
G DOOR HEAD AND THRESHOLD NTS



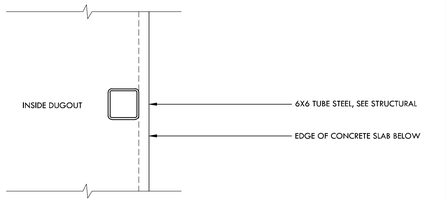
E EAVE DETAIL NTS



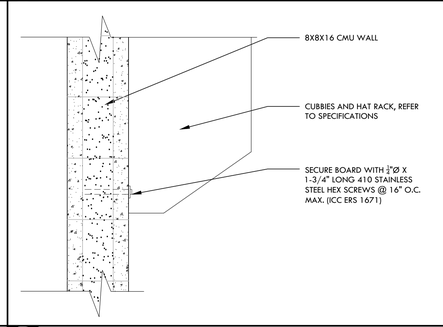
C WHITE BOARD FASTENING NTS



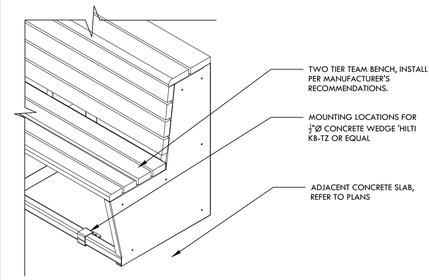
H MAN DOOR JAMB DETAIL NTS



F MID COLUMN SUPPORT NTS

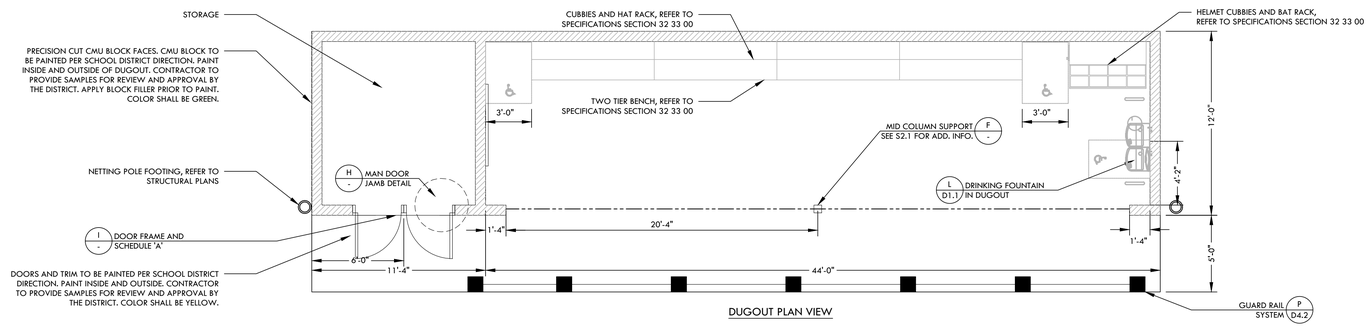


D CUBBIE FASTENING NTS



NOTE:
SEE STRUCTURAL PLANS FOR WEDGE ANCHOR SPECIFICATIONS AND MINIMUM EMBEDMENT.

B TWO TIER BENCH NTS



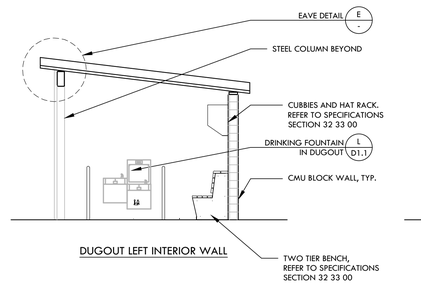
DUGOUT PLAN VIEW

NOTES:
1. APPLY BLOCK FILLER PRIOR TO PAINTING, REFER TO SPECIFICATIONS.
2. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS FOR OUTLET AND LIGHTING INFORMATION.

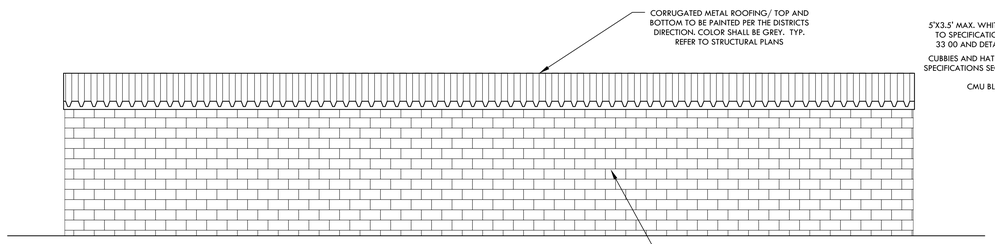
OCCUPANCY COUNT

DUGOUT:
AREA: 462 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/5 S.F.
OCCUPANT LOAD: 32

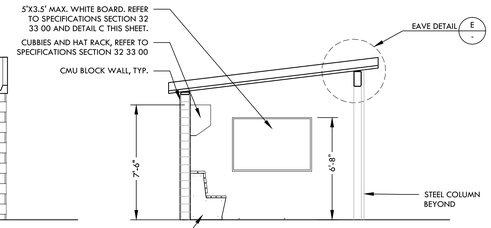
STORAGE:
AREA: 106 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/300 S.F.
OCCUPANT LOAD: 1



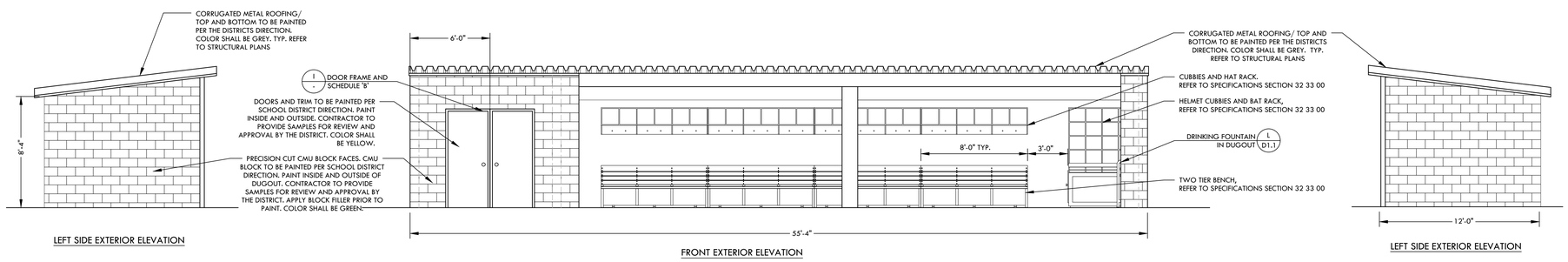
DUGOUT LEFT INTERIOR WALL



BACK EXTERIOR ELEVATION



DUGOUT RIGHT INTERIOR WALL



LEFT SIDE EXTERIOR ELEVATION

FRONT EXTERIOR ELEVATION

LEFT SIDE EXTERIOR ELEVATION

A HOME DUGOUT - 1ST BASE SIDE NTS

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MARK S. BAGINSKI
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EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

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KEY MAP

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PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

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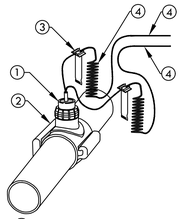
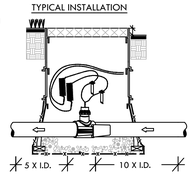
DRAWN BY: VDI
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: AS NOTED
PROJ. NO.: 2304200
SHEET NO.: D5.4

NOTE:
FOR FURTHER INSTALLATION INSTRUCTIONS REVIEW CREATIVE SENSOR TECHNOLOGY INSTALLATION LITERATURE.
PIPE SIZE TRANSITIONS MUST BE MADE 10 PIPE DIAMETERS UPSTREAM AND 5 DIAMETERS DOWNSTREAM OF SENSOR. MAKE SURE DIRECTION ARROW POINTS IN DIRECTION OF FLOW.

SIZING CHART: MODEL#	SIZE	OPERATING RANGE-GPM
FSI400	4"	10 - 480



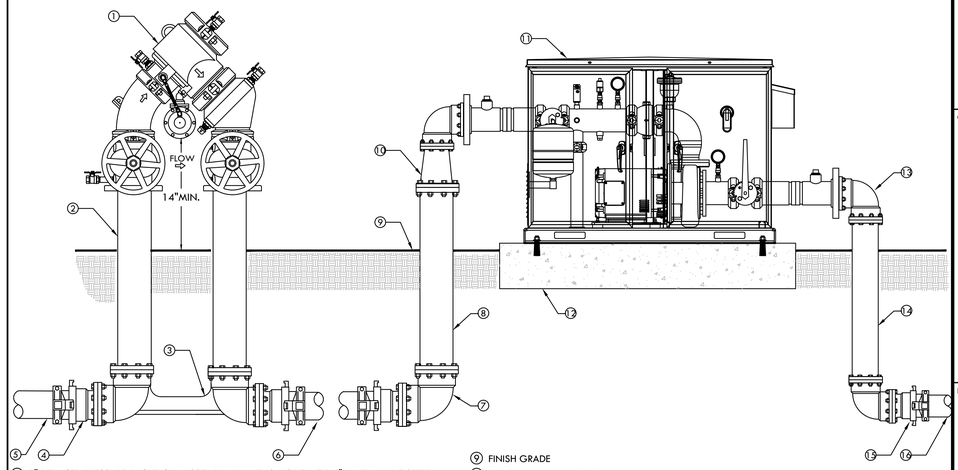
TYPICAL INSTALLATION



DO NOT INSTALL FITTING'S OR OTHER EQUIPMENT 10 PIPE DIAMETERS UPSTREAM OF FLOW METER OR 5 PIPE DIAMETERS DOWN-STREAM.

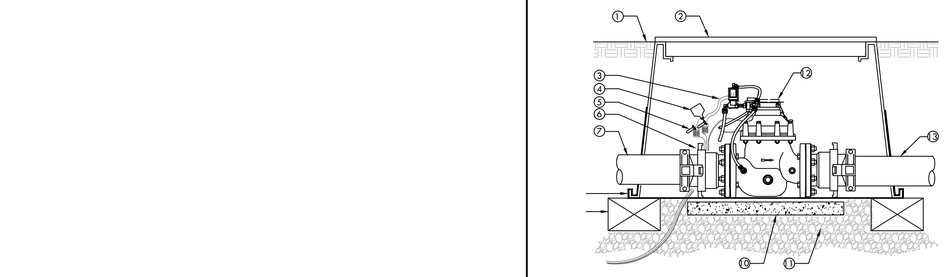
1. SADDLE TYPE FLOW SENSOR - CREATIVE SENSOR TECHNOLOGY SERIES FSI-S40-001. INSTALL WITH A CARSON 1419-12" BOX WITH REQUIRED EXTENSIONS. HEAT BRAND "FS" ON LID IN 2" HIGH BLOCK LETTERS.
2. PVC SADDLE, SEE MATERIAL SCHEDULE ON PLANS FOR SIZE. CONTRACTOR WILL SPECIFY SIZE OF SADDLE WHEN ORDERING. USE 1 3/4-INCH HOLE SAW ONLY TO DRILL ENTRY HOLE IN PIPE.
3. WATERPROOF WIRE SPLICE, 3M SCOTCHPACK OF EQUIVALENT, 2 SPLICES ARE REQUIRED.
4. DIRECT BURIAL 1 PAIR, TWISTED SHIELDED CABLE—MINIMUM CONDUCTOR SIZE 20 AWG. INSTALL WITH A MINIMUM OF 30-INCH LOOPED WIRE EXPANSION COIL.

D FLOW METER NTS



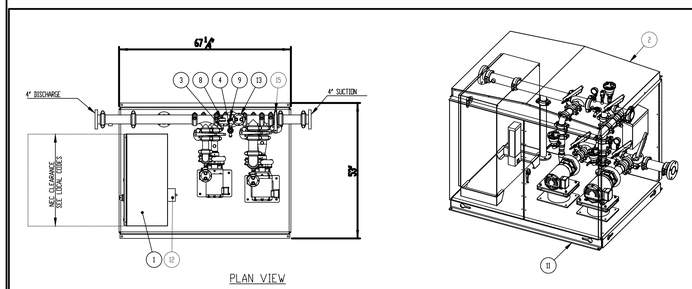
1. 6" REDUCED PRESSURE BACKFLOW ASSEMBLY (WILKENS MODEL 475-6") WITH VALVE SETTER (WILKENS MODEL FLS). INSTALL FREEZE BLANKET ON BACKFLOW. VIT MODEL PBB-60HP
2. 6" DUCTILE IRON SPOOL LENGTH AS REQUIRED (2 TOTAL)+-42" IN LENGTH. WRAP PIPE WITH PROTECTIVE TAPE WHEN PIPE IS IN CONTACT WITH SOIL.
3. WILKINS 6" MODEL FLS (FLANGE x FLANGE) VALVE SETTER
4. HARCO 6" IPS FLANGE X BELL ADAPTER MODEL 80660FB. USE JOINT RESTRAINT AS REQUIRED (3 TOTAL)
5. 6" CL200 PIPE FROM WATER SOURCE
6. 6" CL200 PIPE LENGTH AS REQUIRED.
7. 6" DUCTILE IRON (D.I.) FLANGED 90° ELBOW
8. 6" DUCTILE IRON SPOOL LENGTH AS REQUIRED. WRAP PIPE WITH PROTECTIVE TAPE WHEN PIPE IS IN CONTACT WITH SOIL.
9. FINISH GRADE
10. 6"x4" D.I. FLANGE REDUCER
11. PPS BOOSTER PUMP WITH 4" FLANGED INLET AND OUTLET. REFER TO BOOSTER PUMP DETAIL FOR MORE INFORMATION
12. 6" THICK CONCRETE PAD FOR BOOSTER PUMP TO EXTEND 6" BEYOND ENCLOSURE ON ALL SIDES. CONCRETE TO HAVE MEDIUM BROOM FINISH. SET PAD 1" ABOVE FINISH GRADE. USE #4 REBAR ON A 18" GRID WITHIN THE PAD
13. 4" DUCTILE IRON (D.I.) FLANGED 90° ELBOW (2 TOTAL)
14. 4" DUCTILE IRON SPOOL LENGTH AS REQUIRED. WRAP PIPE WITH PROTECTIVE TAPE WHEN PIPE IS IN CONTACT WITH SOIL.
15. 4"x4" FLANGE x BELL ADAPTER- TRANSITION INTO 4" CLASS 200 PVC TO SERVICE MASTER VALVE WITH HARCO MODEL 80460FB FLANGE x BELL ADAPTER. USE JOINT RESTRAINT AT SPIGOT END.
16. 4" CLASS 200 PVC PIPE TO MASTER VALVE AND FLOW SENSOR

B BACKFLOW AND BOOSTER PUMP NTS



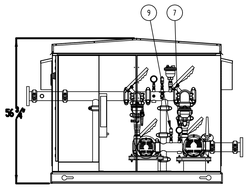
1. FINISH GRADE
2. CARSON 17"x30"-24" DEPTH BOX WITH EXTENSIONS. HEAT BRAND "MV" ON LID IN 2" HIGH BLOCK LETTERS.
3. MASTER VALVE WIRES FROM SOLENOID.
4. VALVE I.D. TAG WITH "MV" PRINTED ON IT.
5. MASTER VALVE CONTROL WIRE FROM CONTROLLER- PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS OF WIRE IN A 1" DIAMETER COIL
6. 4"x4" FLANGE x BELL ADAPTER- TRANSITION FROM 4" CL200 PVC WITH HARCO MODEL 80460FB FLANGE x BELL ADAPTER. USE JOINT RESTRAINT AT SPIGOT END. (2 TOTAL)
7. 4" CLASS 200 PVC MAIN LINE
8. 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
9. BRICK SUPPORT. (4 TOTAL/ 1 @ EA CORNER).
10. 16" CONCRETE PAVER SUPPORT BLOCK.
11. PEA GRAVEL OR 3/4" DRAIN ROCK- 6" DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
12. 4" FLANGED MASTER VALVE.
13. 4" CLASS 200 PVC MAIN LINE TO FLOW SENSOR.

C MASTER VALVE NTS

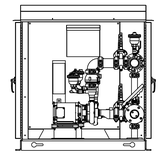


PLAN VIEW

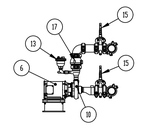
ITEM NO.	DESCRIPTION	Size	QTY.
1	CONTROL PANEL		1
2	ENCLOSURE, MARINE GRADE ALUMINUM	48"x66"x48"	1
3	FLOW SWITCH	1/2"	1
4	HOSE BIB	3/4"	1
5	MOTOR, 3600 RPM		1
6	MOTOR, 3600 RPM		1
7	PRESSURE GAUGE, 100PSI	2-1/2"	1
8	PRESSURE GAUGE, 160PSI	2-1/2"	1
9	PRESSURE TRANSDUCER, 200PSI	1/4"	2
10	PUMP, CENTRIFUGAL		2
11	SKID, BENT	48"x66"	1
12	UTILITY HEATER (OPTIONAL)		1
13	VALVE, AIR RELIEF	3/4"	3
14	VALVE, BUTTERFLY, GROOVE, LEVER	2"	2
15	VALVE, BUTTERFLY, GROOVE, LEVER	4"	3
16	VALVE, CHECK, GROOVED	2"	1
17	VALVE, CHECK, GROOVED	4"	1



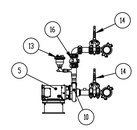
FRONT VIEW



SIDE VIEW



DUTY PUMP



JOCKEY PUMP

NON-POTABLE
NOT FOR FABRICATION

REV.	DESCRIPTION	DATE	APVD

REVISIONS

PRECISION PUMPING SYSTEMS
6315 BUSINESS WAY
BOISE, IDAHO 83716
208-323-5300
www.ppsys.us

MATERIAL

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/16"
ONE PLACE DECIMAL ± .10
TWO PLACE DECIMAL ± .05
DO NOT SCALE DRAWING

DRAWN: SEM | DATE: 10/7/2022

TITLE: BOOSTER SYSTEM PUMP STATION W/BYPASS
PROJECT: JFK HS
LEVEL: 90% Final
PART NO: 1C-4-CJ-XX-NF-XX-AL-NP
JOB: | SIZE: B | SCALE: NTS | SHEET: 1 OF 1 | REV: –

A BOOSTER PUMP NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4909
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
PLANTING AND IRRIGATION DETAILS

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

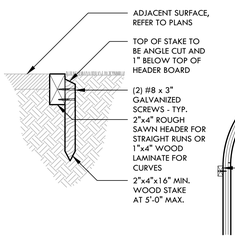
NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
VERDE	CS/MB
DATE ISSUED	SCALE
10/25/23	AS NOTED
PROJ. NO.	
2304200	

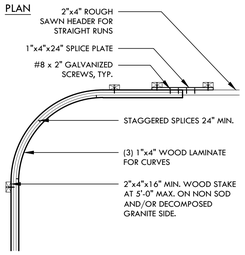
SHEET NO.
D6.1

R REDWOOD HEADER BOARD NTS

SECTION



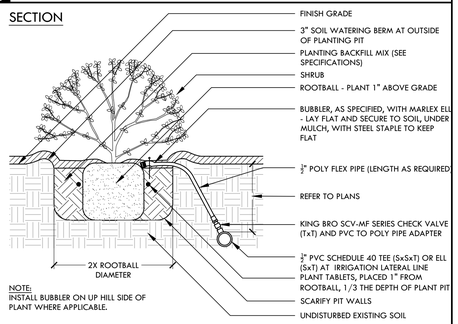
PLAN



NOTES:
1. USE CURVED DETAIL WHEN RADIUS IS LESS THAN 20' AND BOARD LENGTH IS LESS THAN 16'.
2. ALL WOOD TO BE ROUGH SAWN REDWOOD CONSTRUCTION GRADE.
3. FINISH GRADE OF PLANTING AREA TO BE 1" BELOW TOP OF HEADER.
4. TAPER FINISH GRADE FROM 1" AT HEADER TO 3" WITHIN 4'-0" OF HEADER BOARD, FOR 3" MULCH LAYER.

Q SHRUB PLANTING WITH BUBBLER NTS

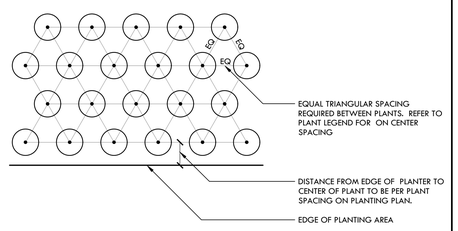
SECTION



NOTE:
INSTALL BUBBLER ON UP HILL SIDE OF PLANT WHERE APPLICABLE.

P ROOT BARRIER AT SIDEWALK AND EDGEBANDS NTS

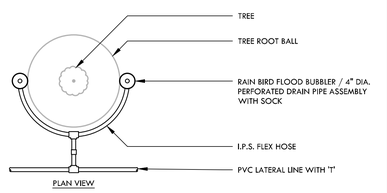
O TRIANGULAR SPACING DIAGRAM NTS



N TREE PLANTING AND BUBBLER NTS

SECTION

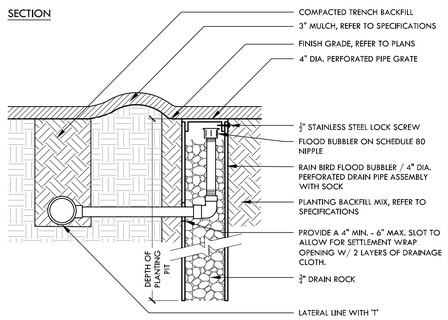
PLAN



NOTE:
1. BUBBLERS ARE REQUIRED FOR TREES IN LAWN AND SHRUB AREA. TWO BUBBLERS PER TREE ARE TO BE PLACED ON OPPOSITE SIDES OF ROOTBALL. ORIENT BUBBLERS 180° FROM EACH OTHER.

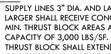
TRUNK TO BUBBLER SPACING	
SIZE	SPACING
15 GALLON TREE	15"
24" BOX TREE	20"
36" BOX TREE	25"

SECTION

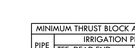


M TREE BUBBLER WELL NTS

STEP 1: STRIP WIRES ½" FROM ENDS.



STEP 2: APPLY SCOTCHLOK Y SPRING CONNECTOR IN A CLOCKWISE DIRECTION.

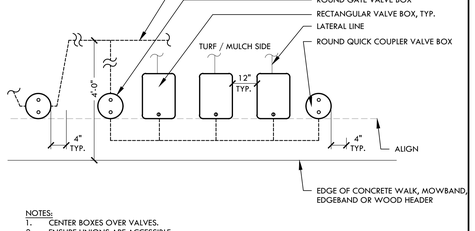


STEP 3: INSERT SPLICE TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.

STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.

NOTE:
MAXIMUM WIRE SIZES PER CONNECTOR ARE (3) - #14'S OR (2) - #12'S.

L CONTROL WIRE CONNECTION NTS



NOTES:
1. CENTER BOXES OVER VALVES.
2. ENSURE UNIONS ARE ACCESSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. TOP OF BOXES SET IN TURF SHALL BE FLUSH WITH TURF FINISH GRADE.
5. ALL CONTROL VALVE BOXES WITHIN A MANIFOLD ARE TO BE THE SAME SIZE AS THE LARGEST BOX NECESSARY FOR THE LARGEST CONTROL VALVE.

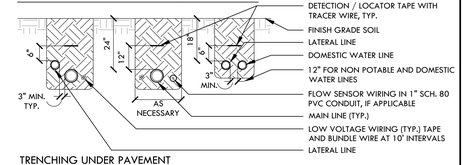
K VALVE BOX LAYOUT WITH GLOBE VALVES NTS

NOTES:
1. SUPPLY LINES 3" DIA. AND LARGER OR GATE VALVES 2½" OR LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. MIN. THRUST BLOCK AREAS ARE BASE ON A SOIL BEARING CAPACITY OF 3,000 LBS/SF.
3. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
4. CONCRETE SHALL NOT COVER FITTING JOINTS.
5. MAIN LINE PIPING 4" AND LARGER SHALL HAVE DUCTILE IRON FITTINGS WITH JOINT RESTRAINTS INSTALLED AT ALL FLOW DIRECTION CHANGES (CONCRETE THRUST BLOCK NOT REQUIRED).

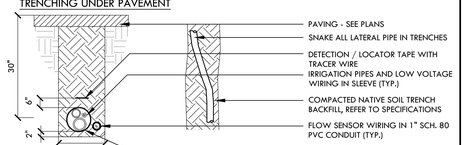
MINIMUM THRUST BLOCK AREA (LxW)			
PIPE SIZE	IRRIGATION PIPE		
	TEE, DEAD END, 90° BEND	45°,22.5°	
2"	1 SF	.5 SF	
3"	2 SF	1 SF	

J THRUST BLOCK NTS

SECTION - TRENCHING WITHIN PLANTING AREAS

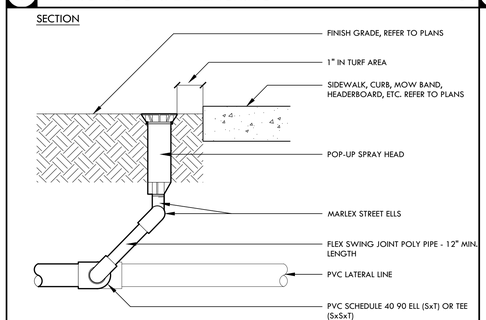


TRENCHING UNDER PAVEMENT



I IRRIGATION PIPE TRENCHING NTS

SECTION

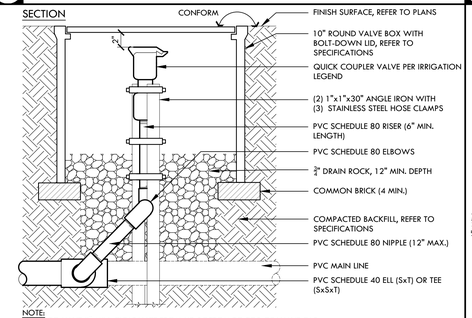


H POP UP AND SWING JOINT NTS

SECTION

G ROTOR HEAD AND SWING JOINT NTS

SECTION

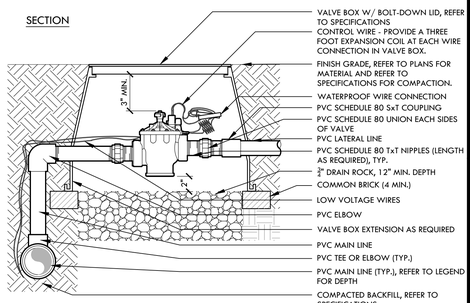


NOTE:
VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP.

NOT USED

A NTS

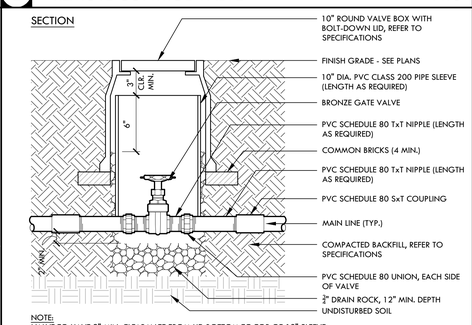
SECTION



NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE STEM HANDLE.

E REMOTE CONTROL VALVE NTS

SECTION



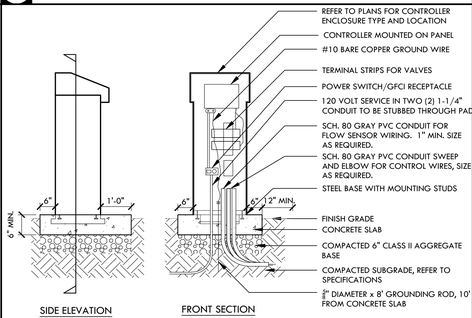
NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" SLEEVE.

D GATE VALVE - 2" AND SMALLER NTS

SECTION

NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" PVC SLEEVE.

C GATE VALVE - 2 1/2" AND LARGER NTS



B PEDESTAL MOUNT CONTROLLER NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAYMER
No. 4069
Signature
EXPIRATION DATE: JULY 2025
STATE OF CALIFORNIA

CONSULTANT

KEY MAP

SHEET TITLE
PLANTING AND IRRIGATION DETAILS

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: VERDE
CHECKED BY: CS/MB
DATE ISSUED: 10/25/23
SCALE: AS NOTED
PROJ. NO.: 2304200
SHEET NO.: D6.2

DRAWING NAME: C:\Users\STATIO~1\AppData\Local\Temp\AcPublish_49756_DTL-PLNT-IRR-JFK.dwg
PLOT DATE: 10-25-23 PLOTTED BY: station50

GENERAL

1. ALL CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, VOLUMES 1–2 (2021 INTERNATIONAL BUILDING CODE (IBC) WITH 2022 CALIFORNIA AMENDMENTS, INCLUDING SECTIONS AND 'A' CHAPTERS PERTAINING TO DSA–SS).

2. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.

3. DETAILS OF CONSTRUCTION ARE TYPICAL, UNLESS NOTED OTHERWISE, AND SHALL APPLY AT ALL LOCATIONS OF SIMILAR CONSTRUCTION. TYPICAL DETAILS ARE NOT CUT AT EVERY APPLICABLE LOCATION ON THE PLANS.

4. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

5. SHORING, TEMPORARY BRACING AND OTHER METHODS AND MEANS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND IS NOT INCLUDED IN THE SCOPE OF THE STRUCTURAL DRAWINGS.

6. THE FOLLOWING NOTES ARE FOR GENERAL MATERIAL GRADES AND PROCEDURES. SEE SPECIFICATIONS AND REMAINDER OF DRAWINGS FOR COMPLETE REQUIREMENTS. ITEMS NOTED IN PLANS, SECTIONS AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES.

7. LOADS:
   A) LIVE:
      ROOF: 20 PSF (REDUCIBLE)

   B) WIND:
      EXPOSURE C, 95 MPH BASIC WIND SPEED
      DIRECTIONAL PROCEDURE

   C) SEISMIC:
      BUILDING RISK CATEGORY II
      EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7–16 SECTION 12.8)
      LATITUDE: 38.5018, LONGITUDE: –121.5343
      SEISMIC DESIGN CATEGORY (SDC) D
      SITE CLASS D
      S_S=0.620, S_1=0.266; F_a=1.304, F_v=2.068;
      S_{MS}=0.809, S_{M1}=0.550; S_{DS}=0.539, S_{D1}=0.367
      IMPORTANCE FACTOR: I_e=1.00
      R=5 FOR SPECIAL REINFORCED (CMU) SHEAR WALLS
      R=3 FOR SIGNS AND BILLBOARDS (FIELD EQUIPMENT)
      R=1.5 FOR STEEL POLES
      R=1.25 FOR ALL OTHER SELF–SUPPORTING STRUCTURES
      C_S=0.108 (STRENGTH), 0.077 (ALLOWABLE STRESS) FOR CMU SHEAR WALLS
      C_S=0.180 (STRENGTH), 0.128 (ALLOWABLE STRESS) FOR SIGNS & BILLBOARDS
      C_S=0.359 (STRENGTH), 0.257 (ALLOWABLE STRESS) FOR STEEL POLES
      C_S=0.431 (STRENGTH), 0.308 (ALLOWABLE STRESS) FOR ALL OTHER STRUCTURES
      C_V=0.108 (STRENGTH), 0.077 (ALLOWABLE STRESS).

   D) LOAD COMBINATIONS FOR DESIGN:
      CONCRETE: PER CBC SECTION 1605A.2 FOR STRENGTH DESIGN.
      FOUNDATIONS: PER CBC SECTION 1605A.3.2 FOR ALLOWABLE STRESS DESIGN.
      ALL OTHERS: PER CBC SECTION 1605A.3.1 FOR ALLOWABLE STRESS DESIGN.

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	I.D.	INSIDE DIAMETER
ADJ	ADJACENT	IN	INCH
APPROX	APPROXIMATE	INT	INTERIOR
ARCH	ARCHITECTURAL		
		LAM	LAMINATE
BLDG	BUILDING	LBS	POUNDS
BLK	BLOCK		
BLKG	BLOCKING	KSI	KIPS PER SQ. IN.
BM	BEAM		
B.N.	BOUNDARY NAILING	MAX	MAXIMUM
BOT	BOTTOM	M.B.	MACHINE BOLT
BP	BASEPLATE	MECH	MECHANICAL
BRG	BEARING	MFR	MANUFACTURER
B.S.	BOTH SIDES	MIN	MINIMUM
		MISC	MISCELLANEOUS
C TO C	CENTER TO CENTER		
C.B.	CARRIAGE BOLT	<N>	NEW
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	N.S.	NEAR SIDE
		N.I.C.	NOT IN CONTRACT
C.I.	CAST IRON	NO.	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL	COLUMN	O.D.	OUTSIDE DIAMETER
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS		
C.P.	COMPLETE PENETRATION	PERP	PERPENDICULAR
CTRD	CENTERED	PL	STEEL PLATE
CTSK	COUNTERSINK	P.P.	PARTIAL PENETRATION
		PLYWD	PLYWOOD
<D>	DEMO	PSF	POUNDS PER SQ. FT.
DBL	DOUBLE	PSI	POUNDS PER SQ. IN.
DIA OR ø	DIAMETER		
DIAG	DIAGONAL	RAD	RADIUS
DO	DITTO	REINF	REINFORCING
DWG	DRAWING	REQD	REQUIRED
		REV	REVISION
EA	EACH	R.O.	ROUGH OPENING
E.F.	EACH FACE	RWD	REDWOOD
ELEC	ELECTRICAL		
ELEV	ELEVATION	S.A.D	SEE ARCH'L DRAWINGS
E.N.	EDGE NAILING	S.M.D.	SEE MECH'L DRAWINGS
EQ	EQUAL	S.L.D.	SEE LANDSCAPE DRAWINGS
E.W.	EACH WAY	S.F.	SQUARE FEET
EXIST OR <E>	EXISTING	SIM	SIMILAR
EXTER	EXTERIOR	SPEC	SPECIFICATION
		SQ	SQUARE
<F>	FUTURE	STD	STANDARD
F.D.	FLOOR DRAIN	STGRD	STAGGERED
FHWS	FLAT HEAD WOOD SCREW	STIFF	STIFFENER
FIN	FINISH	SYM	SYMMETRICAL
F.O.B.	FACE OF BLOCK		
F.O.C.	FACE OF CONCRETE	T&G	TONGUE & GROOVE
F.O.F.	FACE OF FINISH	THRD	THREADED
F.O.S.	FACE OF STUD	T.O.C.	TOP OF CONCRETE
F.P.	FULL PENETRATION	T.O.F.	TOP OF FRAMING
F.S.	FAR SIDE	T.O.S.	TOP OF STEEL
FT	FOOT OR FEET	TS	TUBE STEEL
FTG	FOOTING	TYP	TYPICAL
GA	GAGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
G.I.	GALVANIZED IRON	VERT	VERTICAL
GLB	GLUE–LAMINATED BEAM		
GYP.BD.	GYPSUM BOARD	W/	WITH
		W/O	WITHOUT
HDR	HEADER	WT	WEIGHT OR STEEL WT SECTION
HORIZ	HORIZONTAL		
HR	HOUR	WWF	WELDED WIRE FABRIC
H.S.	HIGH STRENGTH		
H.S.B.	HIGH STRENGTH BOLT		
HSS	HOLLOW STEEL SECTION		

GEOTECHNICAL & FOUNDATIONS

1. GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN:
   A) GEOTECHNICAL REPORT BY UNIVERSAL ENGINEERING SERVICES, WEST SACRAMENTO, CA. REPORT NO. 4630.2300076.0016, DATED 10–17–23.
      GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF CONSTRUCTION DOCUMENTS. ALL RECOMMENDATIONS DESCRIBED THEREIN SHALL BE IMPLEMENTED IN PROJECT'S CONSTRUCTION, INCLUDING GRADING, STRIPPING OF EXISTING MATERIAL, LOCATION, TYPE AND INSTALLATION OF FILL MATERIAL, AND COMPACTION.

   B) CONTINUOUS & SPREAD FOOTINGS:
      MINIMUM WIDTH: 12" (CONTINOUS FOOTINGS) & 18" (SPREAD FOOTINGS)
      MINIMUM EMBEDMENT BELOW LOWEST ADJACENT FINISHED GRADE: 24"

   C) ALLOWABLE SOIL PRESSURES USED FOR FOUNDATION DESIGN:
      DEAD PLUS LIVE LOAD: 1500 PSF
      TOTAL LOAD W/ SEISMIC OR WIND: 2000 PSF (2000 + 1/3 INCREASE FOR SHORT TERM LOADS WHERE ALLOWED BY CODE.
      ALLOWABLE FRICTION COEFFICIENT: 0.250
      ALLOWABLE PASSIVE PRESSURE: 250 PCF

      PIER/PILE ALLOWABLE LATERAL PRESSURE: 200 PCF PLUS 1/3 INCREASE FOR SHORT TERM LOADS WHERE ALLOWED BY CODE.
      IGNORE 1 FT. AT TOP. EFFECTIVE PIER WIDTH: 1 DIAMETER.
      MINIMUM PIER SPACING: 3 DIAMETERS

   D) ENGINEERED FILL AND COMPACTION:
      PER GEOTECHNICAL REPORT RECOMMENDATIONS.

STRUCTURAL CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO CHAPTER 19A OF THE 2022 CALIFORNIA BUILDING CODE (CBC) AND 2019 ACI STANDARD 318 AND ASTM C94, SPECIFICATION FOR READY–MIX CONCRETE. CEMENT SHALL BE PORTLAND CEMENT TYPE II AND SHALL COMPLY WITH ASTM C150. CALCIUM CHLORIDE SHALL NOT BE USED. COARSE AND FINE AGGREGATE SHALL COMPLY WITH ASTM C33. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.

2. ALL STRUCTURAL CONCRETE MIXES SHALL HAVE MIN. FIVE (5) SACKS CEMENT PER CU. YARD AND MAX. WATER–TO–CEMENT RATIO OF 0.60. CONCRETE MIX PROPERTIES SHALL BE AS FOLLOWS:
   A) SLABS–ON–GRADE & CONCRETE WALLS:
      28–DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1/2" – 1"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C0, S1 (ACI 318 TABLE 19.3.1.1)

   B) FOOTINGS & GRADE BEAMS:
      28–DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1" – 1–1/2"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)

   C) C.I.D.H. PIER FOOTINGS:
      28–DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1/2" – 1"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)

   C) NON–STRUCTURAL CONCRETE WALKS ON GRADE:
      28–DAY COMP. STRENGTH: 2,500 PSI
      LARGE AGGREGATE SIZE: 3/8" – 3/4"
      MAX. SLUMP: 5"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)

3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GR. 60 U.N.O. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

4. GROUT SHALL BE NON–SHRINK GROUT U.N.O. CONFORMING TO ASTM C1107. GROUT SHALL HAVE A 7–DAY COMPRESSIVE STRENGTH 5,000 PSI MIN. GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 928", SIKA SIKAGROUT 212, OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SURFACE PREPARATION RECOMMENDATIONS.

5. BONDING AGENT SHALL BE MASTER BUILDERS "MASTEREMACO ADH 326", SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL, AND SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

6. CURING COMPOUND SHALL BE APPROVED BY ENGINEER, AND APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

7. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO FULL 1/4" AMPLITUDE (ICRI CSP 9) WITH BUSH HAMMER OR OTHER APPROVED METHOD. SURFACES SHALL BE CLEANED OF DUST AND DEBRIS IMMEDIATELY PRIOR TO PLACEMENT OF NEWER CONCRETE.

8. REINFORCING STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. SPLICE WITH CONTACT LAP–SPLICES. STAGGER ALL SPLICES. SPLICE LENGTHS SHALL BE 57 BAR–DIAMETERS MINIMUM. WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL SQUARES, BUT NOT LESS THAN 12".

9. EXTEND HORIZONTAL BARS IN FOUNDATIONS AND WALLS INTO INTERSECTING FOUNDATIONS AND WALLS WITH BEND AND 30 BAR DIAMETER EXTENSION, BUT NOT LESS THAN 24" EXTENSION.

10. WELDING OF REINFORCING SHALL NOT BE ALLOWED.

11. SEE STRUCTURAL STEEL NOTES FOR ANCHOR BOLTS CAST IN CONCRETE.

12. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT. ANCHOR BOLTS SHALL BE FIRMLY SECURED TO FORMS TO PREVENT THEIR MOVEMENT DURING CONCRETE PLACEMENT. WET–SETTING OF ANCHOR BOLTS IS NOT ALLOWED.

13. MAINTAIN THE FOLLOWING MINIMUM CONCRETE COVER FOR REBAR:
    WHERE CONC. IS PLACED AGAINST EARTH = 3"
    WHERE CONCRETE IS FORMED AND EXPOSED TO EARTH OR WEATHER = 2"
    WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER = 1–1/2"
    SLABS ON GRADE = 3/4"

14. WHERE SIDES OF FOUNDATIONS (FOOTINGS, GRADE BEAMS OR WALLS) ARE CAST AGAINST EARTH WITHOUT FORMS, FOUNDATION SHALL BE WIDENED 1" AT EACH SUCH SURFACE.

15. EXCAVATION FOR FOOTINGS BELOW DEPTHS SHOWN ON DRAWINGS SHALL BE BACKFILLED WITH CONCRETE.

16. NOTIFY ENGINEER, PROJECT INSPECTOR, AND DSA–SS AT LEAST 48 HOURS BEFORE ANY CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT. SEE ALSO SPECIAL INSPECTION REQUIREMENTS.

17. CONTRACTOR SHALL, PRIOR TO EXCAVATION, VERIFY FOOTING CONDITIONS AND FINISH GRADE/PAVING ELEVATIONS AT PERIMETER OF BUILDING. VERIFY THAT FOOTINGS HAVE SPECIFIED MINIMUM DEPTH BELOW ADJACENT GRADE AND THAT FOOTINGS DO NOT "DAYLIGHT" OR OTHERWISE INTERFERE WITH INTENDED EXTERIOR CONDITIONS. NOTIFY ENGINEER IF SUCH INTERFERENCE EXISTS PRIOR TO EXCAVATION.

18. IF LOADING OF CONCRETE ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF CONCRETE MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT CONCRETE ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF CONCRETE ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

CAST-IN-DRILLED-HOLE (CIDH) PIER FOUNDATIONS:

1. REBAR CAGES, EMBEDDED POLES (AS REQUIRED) AND CONCRETE SHALL BE INSTALLED IN DRILLED HOLES AS SOON AFTER EXCAVATION AS POSSIBLE. WHERE SOIL TYPES AND/OR WATER TABLE ELEVATIONS ARE EXPECTED TO RESULT IN CAVING OF DRILLED PIER HOLES, SLEEVING OF PIER HOLES OR OTHER MEANS OF MITIGATION SHALL BE EMPLOYED.

2. WHERE SLEEVING OF PIER HOLES IS EMPLOYED:
PIER HOLES ARE SLEEVED WITH TEMPORARY SLEEVE (TYPICALLY STEEL) THUS:
AFTER DRILLING TO DEPTH AND INSERTION OF SLEEVE, ACCUMULATED WATER AND CAVED SPOILS SHALL BE PUMPED OUT OF HOLE. REBAR CAGE AND EMBEDDED POLE (AS REQUIRED) SHALL BE INSTALLED AS SOON AFTER AS POSSIBLE, FOLLOWED BY PUMPING CONCRETE INTO EXCAVATION USING TREMIE WHERE DIRECTED BY GEOTECHNICAL ENGINEER. SLEEVE SHALL BE LIFTED FROM HOLE AS CONCRETE IS PLACED TO ALLOW CONCRETE TO FLOW TO SIDES OF EXCAVATION, DISPLACING ACCUMULATED WATER AS HOLE FILLS WITH CONCRETE. THIS PROCESS SHALL BE CONFIRMED BY GEOTECHNICAL ENGINEER, CONTRACTOR AND PROJECT INSPECTOR PRIOR TO PROCEEDING, AND SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER AND LAB/SPECIAL INSPECTOR DURING ENTIRE PROCESS.

CONCRETE MASONRY

1. ALL CONCRETE UNIT MASONRY WORK SHALL CONFORM TO CHAPTER 21A OF THE 2022 CALIFORNIA BUILDING CODE (CBC) AND 2013 EDITIONS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.

2. ALL BLOCK UNITS SHALL BE NORMAL OR MEDIUM WEIGHT UNITS, WITH MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI, CONFORMING TO ASTM C90. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS, CONFORMING TO ASTM C476.

3. DESIGN OF MASONRY IS BASED ON COMPRESSIVE STRENGTH OF MASONRY f'm OF 1,500 PSI AND FULL ALLOWABLE STRESSES PER CBC. SPECIAL INSPECTION IS REQUIRED. SEE INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.

4. f'm COMPLIANCE SHALL BE VERIFIED BY THE "UNIT STRENGTH METHOD" PER TMS 602/ACI 530.1/ASCE 6 ARTICLE 1.4B.2 AND CBC SECTION 2105A.3 (DSA–SS). TEST UNITS PRIOR TO CONSTRUCTION. UNITS AND GROUT SHALL BE TESTED DURING CONSTRUCTION FOR EVERY 5,000 SQ. FEET OF WALL AREA. VERIFY MORTAR TYPE.

5. REINFORCING SHALL BE AS SPECIFIED FOR CONCRETE.

6. LAP ALL BARS 48 BAR–DIAMETERS, BUT NOT LESS THAN 24" AT ALL SPLICES. PROVIDE BEND PLUS 24" EXTENSION ON HORIZONTAL BARS AT ALL WALL INTERSECTIONS.

7. SEE CONCRETE NOTES FOR BOLTS EMBEDDED IN MASONRY. ALL ANCHOR BOLTS THROUGH FACE SHELLS OF MASONRY UNITS SHALL BE GROUTED IN PLACE WITH AT LEAST 1" OF GROUT BETWEEN BOLT AND SHELL, ALL AROUND BOLT.

8. REINFORCING BARS AND TIES SHALL BE HELD AT LEAST 1/2" CLEAR FROM MASONRY UNIT FACE SHELLS, EXCEPT BARS MAY BEAR ON CROSS WEBS OF BOND BEAM UNITS. PARALLEL BARS SHALL BE HELD AT LEAST 1" CLEAR BETWEEN, EXCEPT AT CONTACT LAP SPLICES.

9. UNITS SHALL BE LAYED IN RUNNING BOND. USE OF OPEN–END UNITS THROUGHOUT IS ENCOURAGED. USE OF SPEED–BLOCK (NON–GROUTED OPEN–END UNITS) IS NOT ALLOWED. IF OPEN–END UNITS ARE NOT USED, ALL LINTEL HEAD JOINTS SHALL BE FILLED SOLID WITH MORTAR.

10. ALL STARTER (BOTTOM) COURSE UNITS SHALL BE INVERTED BOND–BEAM UNITS, TYPICAL THROUGHOUT. TOPS OF FOOTINGS RECEIVING MASONRY UNITS AND GROUT SHALL BE ROUGHENED TO FULL 1/8" AMPLITUDE (1/4" PEAK–TO–VALLEY), FOR FULL WIDTH OF UNITS.

11. GROUT ALL CELLS SOLID UNLESS NOTED OTHERWISE ON DRAWINGS. NO ITEMS OTHER THAN REBAR, STEEL CONDUIT AND ANCHOR BOLTS SHALL BE EMBEDDED IN CMU. ALL HOLES CREATED FOR EXTRACTION OF TESTING/SAMPLE CORES SHALL BE FILLED SOLID WITH APPROVED NON–SHRINK GROUT AND FINISHED TO MATCH TEXTURE OF ADJACENT FACE SHELL.

12. GROUTING OF MASONRY UNITS UTILIZING THE HIGH–LIFT GROUTING SHALL COMPLY WITH ALL REQUIREMENTS OF DSA IR 21–2.13, INCLUDING, BUT NOT LIMITED TO, MAXIMUM HEIGHTS OF POURS AND LIFTS, CLEANOUTS, TESTING AND INSPECTIONS.

13. IF LOADING OF CONCRETE MASONRY ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF GROUT AND/OR MORTAR MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS TO BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF MASONRY ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

STRUCTURAL STEEL

1. ALL STEEL AND MISC. IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

2. STEEL MATERIAL SHALL BE AS FOLLOWS:
   W SHAPES: ASTM A992
   PLATES, CHANNELS & ANGLES: ASTM A36 UNLESS NOTED OTHERWISE
   RECTANGULAR TUBES (TS OR HSS): ASTM A500 GRADE B, Fy=46 KSI
   PIPES (STD., X–STRG. & XX–STRG.): ASTM A53 GRADE B, Fy=35 KSI
   ROUND TUBES (HSS): ASTM A500 GRADE B, Fy=42 KSI
   STEEL POSTS SUPPORTING NETTING & METAL CHAIN–LINK FABRIC <u>UP TO</u> 10 FT. HIGH SHALL BE GALVANIZED PIPES COMPLYING WITH ASTM F1083, REGULAR GRADE 30 KSI YIELD STRENGTH, SCHEDULE 40. HOT–DIP ZINC GALVANIZING SHALL COMPLY WITH ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE.
   STEEL POSTS SUPPORTING NETTING & METAL CHAIN–LINK FABRIC <u>OVER</u> 10 FT. HIGH SHALL BE GALVANIZED PIPES PER ASTM A53 (GR. B, Fy=35 KSI) OR ROUND TUBES PER ASTM A500 (GR. B., Fy=42 KSI) HOT–DIP ZINC GALVANIZED PER ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE.
   HEADED STUDS: ASTM A108 TYPE B, Fy=51 KSI
   MACHINE BOLTS (M.B.): ASTM A307 GRADE A, A563 FOR NUTS, F844 FOR WASHERS
   ANCHOR BOLTS/RODS (A.B.): ASTM F1554 GRADE 36
   THREADED RODS: ASTM A307 OR A36 (MAY BE THREADED FOR ENTIRE LENGTH)
   WELDING ELECTRODES: E70XX

3. UNLESS NOTED OTHERWISE, ANCHOR BOLTS, MACHINE BOLTS AND THREADED ANCHOR RODS THROUGH STEEL AND EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F1554. ANCHOR BOLTS/RODS SHALL HAVE A STANDARD BOLT HEAD OR TIGHTENED DOUBLE NUTS. THREADED RODS SHALL HAVE TIGHTENED DOUBLE NUTS AT END. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT.

4. ALL WELDING ON STRUCTURAL STEEL SHALL CONFORM WITH AWS D1.1 CODE AND SHALL BE PRE–QUALIFIED WELDS CONFORMING TO AWS D1.1. UNLESS SPECIFICALLY INDICATED AS FIELD WELDING, ALL WELDS MAY BE PERFORMED IN SHOP OR FIELD.

5. HEADED STUDS SHALL BE WELDED WITH AUTOMATICALLY TIMED STUD WELDING EQUIPMENT. STUDS SHALL NOT BE FILLET– OR BUTT–WELDED UNLESS SPECIFICALLY SHOWN AS SUCH ON DETAILS.

6. ALL COMPLETE AND FULL PENETRATION GROOVE WELDS (DESIGNATED BY "C.P." OR "F.P.") SHALL USE BACK–UP PLATES UNLESS NOTED OTHERWISE. ALL PARTIAL–PENETRATION WELDS (DESIGNATED BY "P.P.") SHALL HAVE LARGEST EFFECTIVE THROAT ALLOWED BY AWS. GROOVE WELDS NOT NOTED WITH "C.P.", "F.P." OR "P.P" SHALL BE COMPLETE PENETRATION WELDS.

7. WELDING PROCEDURE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND THE TEST AND INSPECTION AGENCY'S WELDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO START OF FABRICATION.

8. MINIMUM SPACING OF ALL BOLTS, 7/8"ø AND SMALLER IN STEEL SHALL BE 3" o.c. AND THE MINIMUM EDGE DISTANCE FROM CENTERLINE OF HOLE TO EDGE OF PLATE OR MEMBER SHALL BE 1–1/2", UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BOLTS ARE INSTALLED THROUGH FLANGES OF "W" OR SIMILAR SHAPES, THE BOLT GAGE SHALL BE AS RECOMMENDED BY AISC.

9. HOLES FOR BOLTS IN STEEL SHALL BE 1/16" MAXIMUM LARGER IN DIAMETER THAN BOLTS. HOLES FOR ANCHOR BOLTS SHALL NOT BE MORE THAN 5/16" LARGER FOR A.B.'S UP TO 1"ø, AND NOT MORE THAN 1/2" LARGER FOR A.B.'S OVER 1"ø. ALL HOLES SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES IS NOT ALLOWED, WHETHER IN FIELD OR SHOP.

10. ALL STRUCTURAL STEEL IN EXTERIOR SPACES OR EXPOSED TO VIEW IN INTERIOR SPACES SHALL BE PAINTED WITH TWO (2) COATS OF ALKYD RED OXIDE PRIMER, COMPLYING WITH SSPC–PAINT 25 OR U.S. FEDERAL SPEC TT–P–645, WITH MIN. DRY THICKNESS OF 2 MILS. SEE ARCHITECTURAL SPECS FOR FINISH PAINTING. STRUCTURAL STEEL IN ENCLOSED SPACES AND NOT EXPOSED TO WEATHER NEED NOT BE PAINTED OR PRIMED UNLESS NOTED OTHERWISE. STEEL TO BE EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.

11. ALL NON–PAINTED STEEL FASTENERS EXPOSED TO WEATHER OR IN UNENCLOSED SPACES SHALL BE HOT–DIPPED GALVANIZED, UNLESS NOTED OTHERWISE. GALVANIZED BOLTS AND NUTS SHALL BE PROVIDED BY SAME MANUFACTURER.

12. ALL STRUCTURAL STEEL SPECIFIED ON DRAWINGS TO BE GALVANIZED SHALL BE HOT–DIPPED ZINC GALVANIZED WITH MIN. 1.8 OZ./SQ. FT. ON ALL SURFACES. GALVANIZING SHALL BE TOUCHED UP AT FIELD–WELDED CONNECTIONS, FIELD–DRILLED HOLES, OR FIELD–CUT EDGES WITH A HIGH–ZINC DUST–CONTENT PAINT.

POST-INSTALLED ANCHORS & DOWELS

<u>*NOTE:</u> POST–INSTALLED ANCHORS PROVIDED IN THE EVENT THAT REBAR OR CAST–IN–PLACE ANCHOR BOLTS ARE MISSED OR INCORRECTLY PLACED, CONTRACTOR SHALL NOTIFY PROJECT INSPECTOR & SEOR ENGINEER FOR DIRECTIONS PRIOR TO PROCEEDING WITH INSTALLATION.**

<u>A. GENERAL – APPLICABLE TO ALL ANCHORS:</u>
1. ANCHORS SHALL BE INSTALLED ONLY WHERE SPECIFIED ON DRAWINGS, PER MANUFACTURER'S INSTRUCTIONS, USING MANUFACTURER'S EQUIPMENT, WHERE APPLICABLE. INSTALLER SHALL HAVE ON SITE A COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ICC–ES OR IAPMO–UES REPORT.

2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT THAT HAS ATTAINED THE MIN. DESIGN COMPRESSIVE STRENGTH AT MIN. 28 DAY AGE, EXCEPT AS NOTED BELOW FOR ADHESIVE ANCHORS. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT CONCRETE OR MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY GROUT BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

3. WHERE POST–INSTALLED ANCHORS ARE USED TO MITIGATE OMITTED OR MISPLACED CAST–IN–PLACE ANCHORS, ADDED SPECIAL INSPECTION AND TESTING COSTS ASSOCIATED WITH THE POST–INSTALLED ANCHORS WILL BE PAID FOR BY THE DISTRICT, HOWEVER, SUCH COSTS WILL BE BACK–CHARGED TO THE CONTRACTOR.

4. PRIOR TO DRILLING HOLES FOR ANY POST–INSTALLED ANCHORS INTO NEW OR EXISTING CONCRETE OR MASONRY, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING. WHERE REINFORCING BARS CANNOT BE LOCATED, CARE SHALL BE TAKEN WHILE DRILLING HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRED. USE OF DRILLS WITH GROUND FAULT INTERRUPTERS (GFI) IS RECOMMENDED.

5. PROVIDE TESTING AND INSPECTIONS OF ANCHOR INSTALLATIONS PER TESTING AND SPECIAL INSPECTION NOTES, THIS SHEET.

6. ANCHORS OTHER THAN THOSE SPECIFIED BELOW MAY BE USED ONLY WHEN <u>CURRENT</u> ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED FOR REVIEW AND APPROVAL IN WRITING. ANCHORS SHALL NOT BE INSTALLED UNTIL ANCHORS ARE APPROVED BY STRUCTURAL ENGINEER AND DSA, AND TEST LOADS ARE DETERMINED AND ISSUED.

7. ANCHORS IN CONTACT WITH PRESERVATIVE–TREATED AND FIRE–RETARDANT–TREATED WOOD SHALL BE OF HOT–DIPPED ZINC–COATED GALVANIZED STEEL OR STAINLESS STEEL. ANCHORS EXPOSED TO WEATHER OR REQUIRED TO BE CORROSION RESISTANT SHALL BE OF HOT–DIPPED ZINC–COATED GALVANIZED STEEL OR STAINLESS STEEL.

<u>B. EXPANSION ANCHORS:</u>
1. EXPANSION ANCHORS SHALL BE WEDGE TYPE ANCHORS ONLY AND SHALL HAVE ICC–ES OR IAPMO–UES APPROVAL, INCLUDING APPROVAL FOR RESISTANCE TO SEISMIC AND WIND LOADS, PASSING ICC–ES CRITERIA AC193 (CONCRETE) & AC01 (MASONRY). USE ONE OF THE FOLLOWING ICC–ES OR IAPMO–UES APPROVED SYSTEMS:
   CONCRETE:
      a) HILTI KWIK BOLT TZ2 (ESR–4266), <u>(TYP. ANCHOR SPECIFIED U.N.O.)</u>
      b) SIMPSON STRONG–BOLT 2 ANCHORS (ESR–3037),
      c) DEWALT/POWERS POWER–STUD+ SD2, SD4 & SD6 ANCHORS (ESR–2502).
   MASONRY:
      a) HILTI KWIK BOLT 3 (ESR–2302), <u>(TYP. ANCHOR SPECIFIED U.N.O.)</u>
      b) SIMPSON WEDGE–ALL ANCHORS (ESR–1396),
      c) DEWALT/POWERS POWER–STUD+ SD1 (ESR–2966)
      d) ITW RED HEAD TRUBOLT+ WEDGE ANCHORS (ESR–4058).
NOTE: OTHER EXPANSION ANCHORS MAY BE USED ONLY WHEN ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.

2. EXPANSION ANCHORS SHALL HAVE EMBEDMENT NOT LESS THAN EIGHT (8) ANCHOR DIAMETERS, OR AS OTHERWISE SPECIFIED IN DETAILS. TORQUE ANCHORS DURING INSTALLATION TO THE RECOMMENDED INSTALLATION TORQUE VALUES SPECIFIED IN MANUFACTURER'S ICC–ES OR IAPMO–UES REPORT.

<u>C. CHEMICAL ADHESIVE ANCHORS AND DOWELS:</u>
1. ALL THREADED RODS AND REBAR DOWELS INSTALLED IN HARDENED CONCRETE OR MASONRY GROUT WITH "ADHESIVE" SHALL BE A TWO–PART NOZZLE–MIXED ICC–ES OR IAPMO–UES APPROVED CHEMICAL ADHESIVE SYSTEM, PASSING ICC–ES CRITERIA AC308 (CONCRETE) & AC58 (MASONRY). USE ONE OF THE FOLLOWING ICC–ES OR IAPMO–UES APPROVED SYSTEMS:
   CONCRETE:
      a) HILTI "HIT–RE 500–V3" ADHESIVE ANCHOR SYSTEM (ESR–3814), <u>(SPECIFIED U.N.O.)</u>
      b) SIMPSON "SET–XP" ADHESIVE ANCHOR SYSTEM (ESR–2508),
      c) DEWALT/POWERS "PURE110+" ADHESIVE ANCHOR SYSTEM (ESR–3298),
      d) ITW RED HEAD "G5+" ADHESIVE ANCHOR SYSTEM (ESR–4138).
   MASONRY:
      a) HILTI "HIT" SYSTEM WITH HY–200 ADHESIVE (ESR–3963), <u>(SPECIFIED U.N.O.)</u>
      b) SIMPSON "SET–XP" ADHESIVE ANCHOR SYSTEM (IAPMO ER–0265),
      c) DEWALT/POWERS "AC100+ GOLD" ADHESIVE ANCHOR SYSTEM (ESR–3200).
NOTE: OTHER CHEMICAL ADHESIVE ANCHOR SYSTEMS MAY BE USED ONLY WHEN ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.

2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT OF MIN. 21 DAY AGE. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 21–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION FOR DIRECTION.

3. INSTALLATION OF CHEMICAL ADHESIVE ANCHORS IN HORIZONTAL OR OVERHEAD APPLICATIONS SHALL BE INSTALLED BY AN ACI/CSRI CERTIFIED ADHESIVE ANCHOR INSTALLER.

4. HOLES SHALL BE DRILLED 1/8" TO 1/4" LARGER IN DIAMETER THAN ROD OR BAR OUTER DIAMETER, AS SPECIFIED IN ICC–ES OR IAPMO–UES REPORT.

5. BARS/RODS SHALL HAVE EMBEDMENT IN ADHESIVE NOT LESS THAN TEN (10) NOMINAL BAR/ROD DIAMETERS IN CONCRETE AND NINE (9) NOMINAL BAR/ROD DIAMETERS IN MASONRY, OR AS OTHERWISE SPECIFIED IN DETAILS.

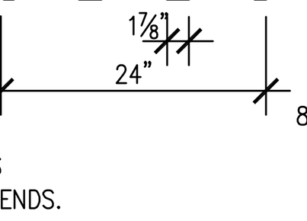
6. INSTALLATION TORQUE FOR ALL ANCHORS SHALL BE REDUCED ACCORDING TO MANUFACTURER'S RECOMMENDATION DUE TO THE VICINITY OF ANCHOR TO EDGE OF CONCRETE.

7. THE BOND STRESSES AS SPECIFIED IN ICC–ES OR IAPMO–UES REPORT SHALL BE BASED ON LONG TERM ELEVATED TEMPERATURES OF NOT LESS THAN 110 DEGREES F.

METAL ROOF DECK

1. METAL DECK SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ICC–ES OR IAPMO REPORT.

2. METAL DECK SHALL BE AS MANUFACTURED BY VERCO MANUFACTURING CO. (ER–0217 AND ER–2018), WITH THE FOLLOWING PROPERTIES:
   DUGOUTS:
      PROFILE: 3" DEEP, N–24, WITH STANDARD INTERLOCKING SIDELAP
      THICKNESS: 16 GA.
      PER–FOOT PROPERTIES: I = 1.647 +S = 0.950, –S = 1.005
      STEEL GRADE: GRADE 50, Fy = 50 KSI, Fu = 65 KSI
      FINISH: <u>G90</u> GALVANIZED WITH PRIMER ON <u>BOTH</u> SIDES.



3. ATTACHMENT TO SUPPORTING FRAMING AT DUGOUTS:
   USE 15/16"ø PUDDLE WELDS (1/2"ø EFF. DIA.) THUS:
      TO PERPENDICULAR SUPPORTS: FOUR (4) PW PER 24" SHEET
      TO PARALLEL SUPPORTS: PW @ 12" o.c. & 3" – 6" FROM ENDS
      ALONG SIDELAPS: BUTTON PUNCH @ 12" o.c. & 3" – 6" FROM ENDS.
      (DO NOT USE VSC/PUNCHLOK SYSTEM)

4. PROVIDE STEEL UNDERSIDE CLOSURE BELOW DECKING AT ALL EXTERIOR WALLS AT DUGOUTS, AND WHERE SPECIFIED BY ARCHITECTURAL DRAWINGS, PER DETAIL 31/S2.1.

5. TOUCH–UP: ALL WELDS SHALL BE TOUCHED UP WITH SPRAY–ON ZINC GALVANIZING AS RECOMMENDED BY MANUFACTURER PRIOR TO RE–APPLICATION OF PRIMER AND PAINT.

6. LAYOUT: DECK SHALL BE LAID OUT SUCH THAT A DOWN–FLUTE IS CENTERED OVER EVERY CMU WALL PARALLEL TO DECK FLUTES. USE ONE–PIECE SHEETS OVER ENTIRE TRANSVERSE DIMENSION OF BUILDINGS. NO SHEET LAPS/SPLICES ARE ALLOWED WITHIN 6" OF CMU FLUTES PARALLEL TO FLUTES.

TESTING AND SPECIAL INSPECTIONS

1. GENERAL
   A) ALL TESTS AND SPECIAL INSPECTIONS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF 2022 CALIFORNIA BUILDING CODE (CBC) SECTION 1701A AND APPROVED FORM DSA–103, "STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS."
   B) ALL TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) SECTION 4–335.
   C) THE OWNER SHALL EMPLOY AND PAY THE INSPECTION/TESTING LABORATORY. COSTS OF RE–TESTING MAY BE BACK–CHARGED TO THE CONTRACTOR.
   D) INSPECTOR SHALL BE APPROVED BY DSA. INSPECTIONS SHALL BE IN ACCORDANCE WITH CAC SECTION 4–333(b), AND THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH CAC SECTION 4–342.
   E) COPIES OF ALL TEST/INSPECTION REPORTS SHALL BE SUBMITTED TO ARCHITECT, STRUCTURAL ENGINEER, PROJECT INSPECTOR. AND DSA–SSS.

2. FOUNDATIONS (DRILLED PIERS, FOOTINGS, GRADE BEAMS), WALLS AND SLABS–ON–GRADE:
   A) NOTIFY ENGINEER AND PROJECT INSPECTOR 48 HOURS BEFORE CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT.
   B) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.3.
   C) THE TESTING AGENCY SHALL PERFORM THE FOLLOWING:
      * REVIEW ALL CONCRETE MIX DESIGNS. ALL DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.
      * FOR EACH CONCRETE MIX PLACED, AGENCY SHALL CAST (4) TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH 50 CUBIC YARDS OR 2000 SQUARE FEET, OR FRACTION THEREOF, OF CONCRETE PLACED EACH DAY, AND TRANSPORT CYLINDERS TO LAB. TEST CYLINDERS IN ACCORDANCE WITH ASTM C39. TEST (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS. HOLD LAST TEST CYLINDER FOR 60 DAYS.
      * INSPECT FINAL PLACEMENT OF ALL REINFORCING AND STEEL EMBEDS AS INDICATED ON DETAILS PRIOR TO CONCRETE PLACEMENT.
      * CONTINUOUS INSPECTION OF CONCRETE PLACEMENT FOR ALL DRILLED PIERS AND GRADE BEAM FOOTINGS.
   D) SEE ITEM 8 BELOW FOR INSPECTIONS BY GEOTECHNICAL ENGINEER.

3. CONCRETE UNIT MASONRY:
   A) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.4.
   B) TESTING LAB SHALL PERFORM THE FOLLOWING:
      * REVIEW MASONRY GROUT MIX DESIGNS. ALL DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING GROUT.
      * VERIFY f'm COMPLIANCE PER UNIT STRENGTH METHOD PER CBC 2105A.3.
      * CAST AND TEST GROUT CYLINDERS AS REQUIRED.
      * INSPECT UNIT PLACEMENT AND GROUT SPACES.
      * VERIFY REINFORCING PLACEMENT.

4. CONCRETE MASONRY VENEER:
   A) VERIFY PLACEMENT OF VENEER ANCHORS ON A PERIODIC BASIS.

5. POST–INSTALLED ANCHORS IN CONCRETE AND CONCRETE MASONRY:
   A) <u>GENERAL – APPLICABLE TO ALL ANCHORS AND DOWELS:</u>
      1) ALL EXPANSION ANCHORS, SCREW ANCHORS AND ADHESIVE ANCHOR SYSTEMS USED SHALL HAVE ICC–ES OR IAPMO–UES APPROVAL.
      2) PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL ANCHORS.
   B) <u>EXPANSION ANCHORS IN CONCRETE & MASONRY:</u>
      1) PULL–TEST OR TORQUE–TEST 100% OF ANCHORS EXCEPT AS NOTED; PULL–TEST OR TORQUE–TEST 10% OF SOLE PLATE ANCHOR BOLTS AND 50% OR ALTERNATE ANCHORS FOR EQUIPMENT ANCHORAGE AND IN NON–STRUCTURAL APPLICATIONS.
      2) PULL–TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1–1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI KWIK–BOLT TZ2 (ESR–4266)</u> IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5.4, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI KWIK–BOLT 3 (ESR–1385)</u> IN MASONRY.
      3) PULL–TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW.

ANCHOR DIAMETER	NOMINAL EMBEDMENT (CONC./MASONRY)	CONC. TEST LOAD (LBS.)	MASONRY TEST LOAD (LBS.)	INSTALLATION TORQUE (FT.–LBS.)
⅜"	2½" / 2½"	1905	1250	30 (20***)
½"	2½" / 2¼"	1955	1005	50 (40***)
½"	3¾" / 3½"*(3"**)	4050	1450*(1035**)	50 (40***)
⅝"	4½" / 4"*(3½"**)	5525	1990*(1365**)	40 (60***)
¾"	5½" / 4⅜"	7150	2630	110 (125***)

      * – AT ANCHOR INSTALLED IN THE FACE OF GROUT–FILLED MASONRY
      ** – AT ANCHOR INSTALLED IN THE TOP OF GROUT–FILLED MASONRY
      *** – INSTALLATION TORQUE FOR STAINLESS STEEL ANCHORS
      4) ALTERNATIVELY, TORQUE–TEST ANCHORS WITH CALIBRATED TORQUE WRENCH TO VALUES SPECIFIED IN MANUFACTURER'S ICC–ES OR IAPMO–UES REPORT FOR RECOMMENDED INSTALLATION TORQUE WITHIN 1/4 TURN OF THE NUT FOR 3/8"ø SLEEVE ANCHOR ONLY AND WITHIN 1/2 TURN OF THE NUT FOR ALL OTHER ANCHORS.

   B) <u>RODS & DOWELS WITH CHEMICAL ADHESIVE IN CONCRETE & MASONRY:</u>
      1) PULL–TESTING OF RODS INSTALLED IN CHEMICAL ADHESIVE IS REQUIRED FOR ALL ANCHORS. TESTING OF REBAR USED ONLY AS SHEAR DOWELS ACROSS COLD JOINTS IN SLABS–ON–GRADE, WHERE SLAB IS NOT PART OF THE LATERAL FORCE–RESISTING SYSTEM, IS NOT REQUIRED.
      2) PULL–TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1–1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI HIT–RE 500–V3 (ESR–3814)</u> IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5.4, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI HIT HY–200 (ESR–3963)</u> IN MASONRY.
      3) PULL–TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW, BASED ON MIN. EMBEDMENT OF 10ø IN CONCRETE & 9ø IN MASONRY, U.N.O.

ANCHOR/BAR DIAMETER	MIN. EMBEDMENT (CONC./MASONRY)	CONC. TEST LOAD (LBS.)	MASONRY TEST LOAD (LBS.)
⅜", #3	3¾" / 3⅜"*	2910	1510*
½", #4	5" / 4½"*(4"**)	5165	2290*(1760**)
⅝", #5	6¼" / 5⅝"*(4"**)	8245	2220*(1960**)
¾", #6	7½" / 6¾"*	10150	2720

      * – AT ANCHOR INSTALLED IN THE FACE OF GROUT–FILLED MASONRY
      ** – AT ANCHOR INSTALLED IN THE TOP OF GROUT–FILLED MASONRY

6. WELDING OF STRUCTURAL STEEL. TESTING LAB SHALL:
   A) VERIFY CERTIFICATION OF WELDERS AT START OF WORK.
   B) REVIEW WELDING PROCEDURE SPECIFICATIONS SUBMITTED BY FABRICATOR.
   C) PROVIDE CONTINUOUS INSPECTION OF ALL COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, AND ALL FILLET WELDS 3/8" AND LARGER.
   D) PROVIDE PERIODIC INSPECTION OF ALL FILLET WELDS 5/16" AND SMALLER.
   E) TEST WELDS AS DEEMED NECESSARY BY THE INSPECTION AGENCY TO ENSURE ADEQUACY OF WELDS AND CONFORMANCE TO THE DRAWINGS AND SPECIFICATIONS.

7. ADDITIONAL INSPECTIONS BY STRUCTURAL ENGINEER:
   ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE FOLLOWING TO ALLOW FOR INSPECTION OF THE RESPECTIVE WORK PRIOR TO ENCLOSING IN FINISHES:
   A) AT SUBSTANTIAL COMPLETION OF ANY AREA OF FOUNDATION WORK PRIOR TO CLOSING OF FORMS OR PLACEMENT OF CONCRETE.
   B) AT SUBSTANTIAL COMPLETION OF ANY AREA OF STRUCTURAL STEEL FRAMING.

8. INSPECTIONS BY GEOTECHNICAL ENGINEER:
   A) PROVIDE PERIODIC INSPECTION OF SITE PREPARATION & GRADING – STRIPPING OR DISCING OPERATIONS. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.
   B) PROVIDE CONTINUOUS INSPECTION OF ENGINEERED FILL OPERATIONS. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
   C) PROVIDE CONTINUOUS INSPECTION OF EXCAVATIONS FOR DRILLED PIER FOOTINGS. VERIFY PLACEMENT LOCATIONS, PLUMBNESS, DIAMETERS AND LENGTHS. RECORD CONCRETE VOLUMES.

SHOP DRAWING SUBMITTALS

1. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING MATERIALS/PRODUCTS:
   A) CONCRETE MIX DESIGNS (SUBMIT TO TESTING/INSPECTION AGENCY)
   B) CONCRETE & MASONRY REINFORCING
   C) CONCRETE SLAB AND WALL CONTROL/CONSTRUCTION JOINT LAYOUT
   D) CONCRETE MASONRY UNITS
   E) CONCRETE MASONRY GROUT MIX DESIGN (SUBMIT TO TESTING/INSPECTION AGENCY)
   F) STRUCTURAL STEEL AND MISC. METALS

2. SEE SPECIFICATIONS FOR OTHER SUBMITTALS AND SUBMITTAL PROCEDURE.

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REGISTERED PROFESSIONAL ENGINEER
TIM D. HYDE
No. S3260
EXP. 3/31/23
STRUCTURAL
STATE OF CALIFORNIA

CONSULTANT

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Structural Engineers, Inc
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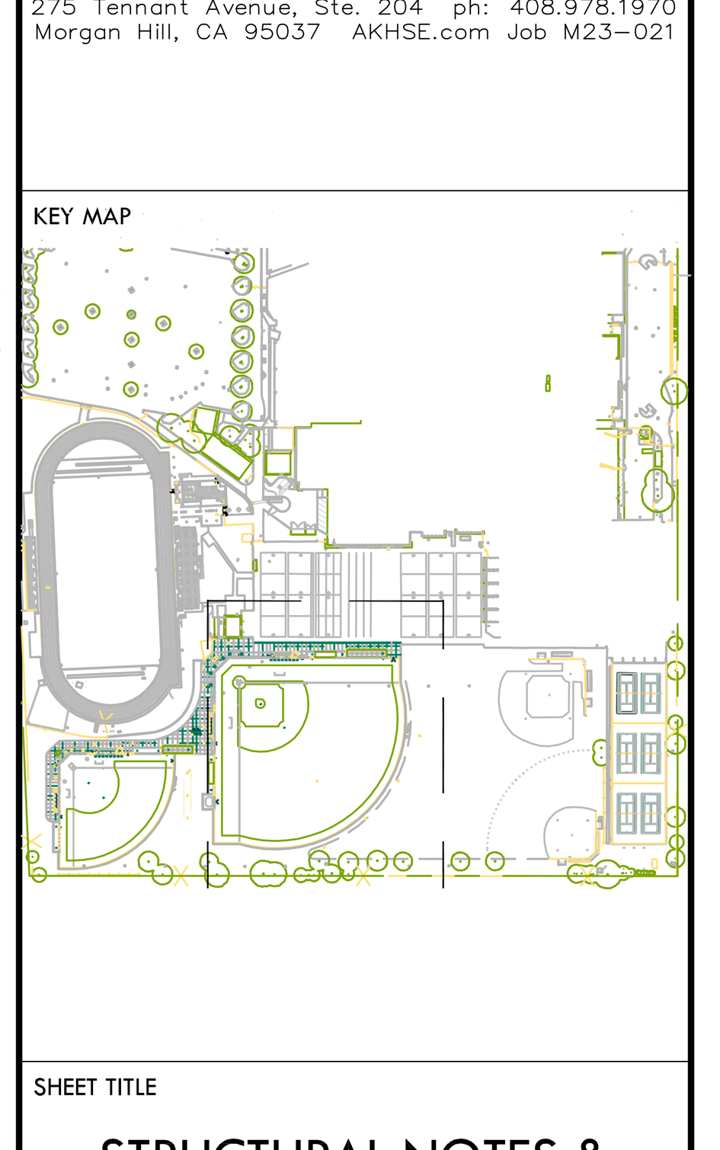
Morgan Hill, CA 95037 AKHSE.com Job M23–021

KEY MAP



SHEET TITLE
STRUCTURAL NOTES & MATERIAL GRADES

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
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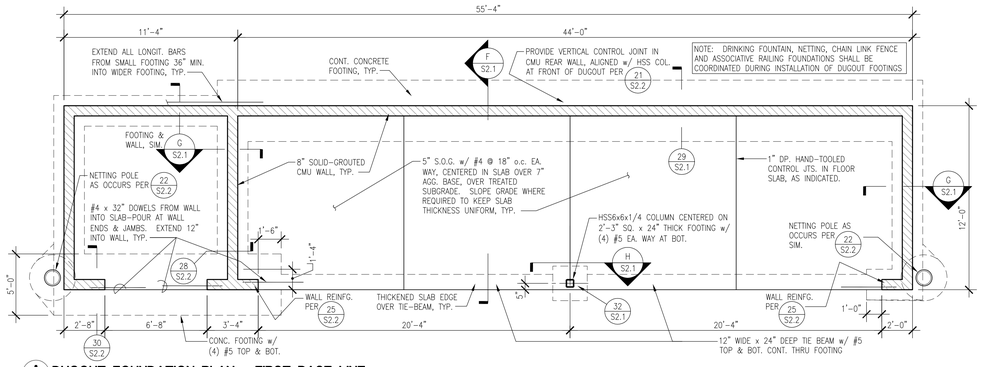
DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED 10/25/23	SCALE NONE

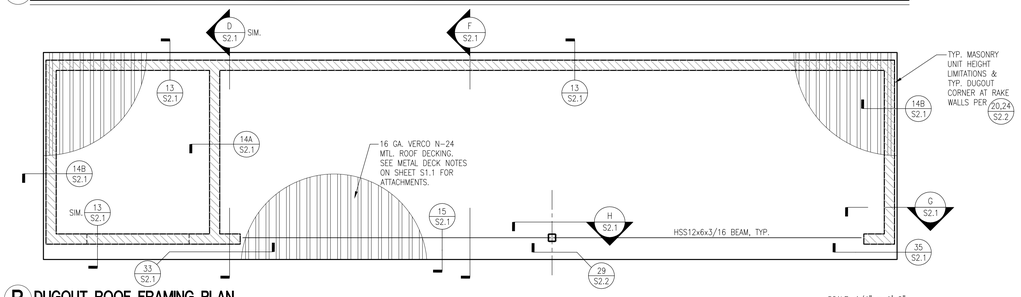
PROJ. NO. 2304200

SHEET NO. S1.1

DRAWING NAME: P:\Verde Design\M23–021 Kennedy HS Fields SCUSD\Dwgs\Structural\S1.1 Structural Notes.dwg
PLOT DATE: 10–23–23 PLOTTED BY: jose

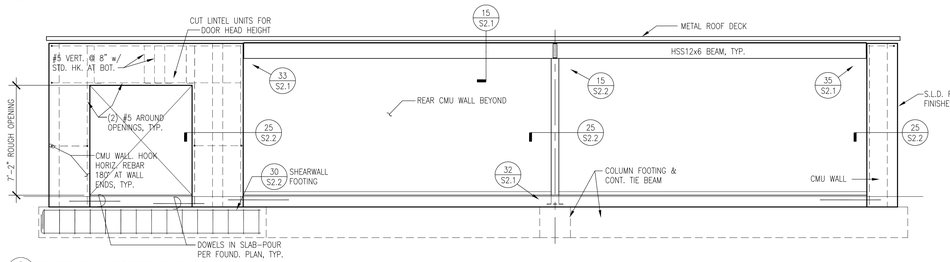


A DUGOUT FOUNDATION PLAN - FIRST BASE LINE



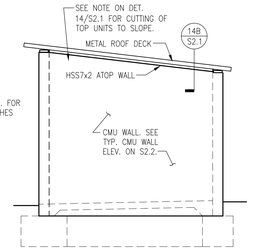
B DUGOUT ROOF FRAMING PLAN

SCALE: 1/4" = 1' 0"



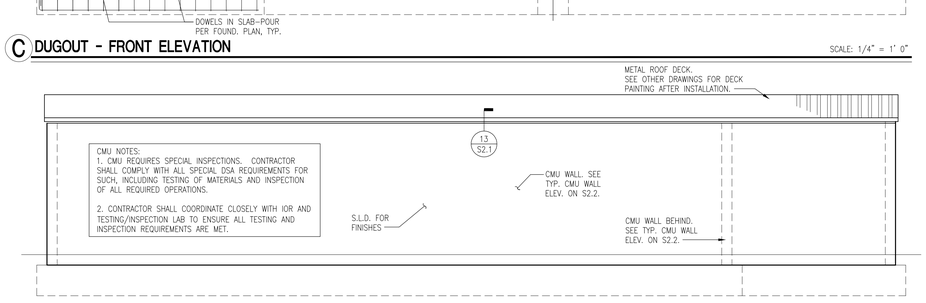
C DUGOUT - FRONT ELEVATION

SCALE: 1/4" = 1' 0"



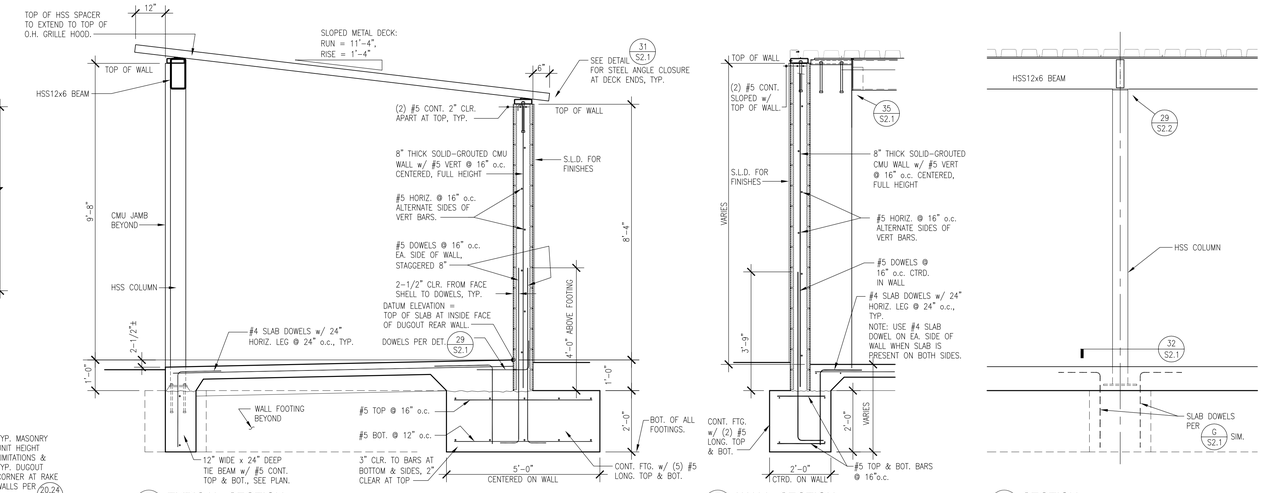
D TYP. END ELEVATION

1/4" = 1' 0"



E DUGOUT - REAR ELEVATION

SCALE: 1/4" = 1' 0"



F TYPICAL SECTION

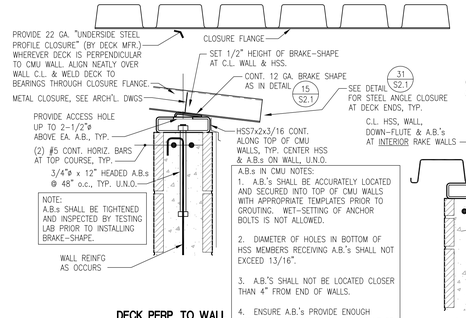
SCALE: 1/2" = 1' 0"

G WALL SECTION

SCALE: 1/2" = 1' 0"

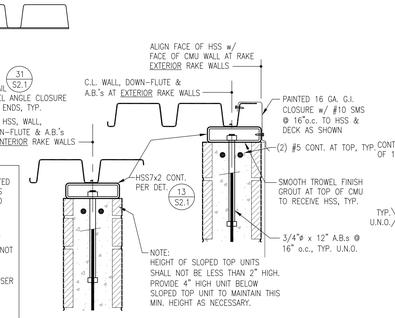
H SECTION

SCALE: 1/2" = 1' 0"



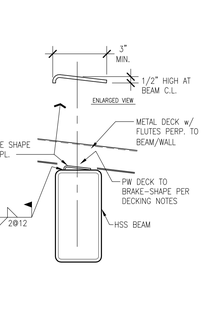
13 TYP. CMU WALL AT ROOF

1-1/2"=1' 0"



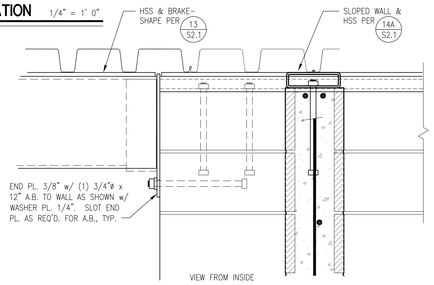
14 CMU WALL AT ROOF

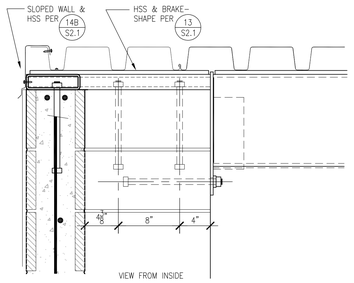
1-1/2"=1' 0"

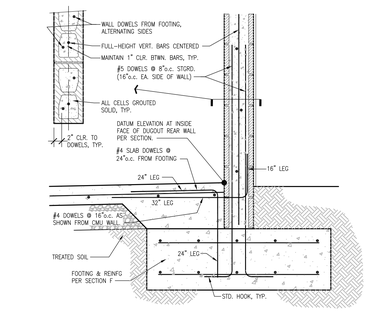


15 STEEL BEAM AT ROOF

1-1/2"=1' 0"



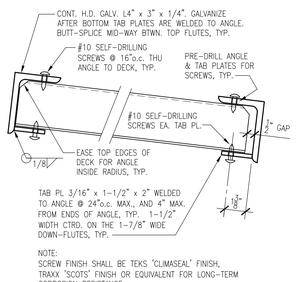




29 DUGOUT WALL & FOOTING

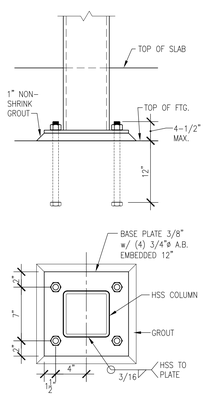
SIM. AT DUGOUT OPENING

1"=1' 0"



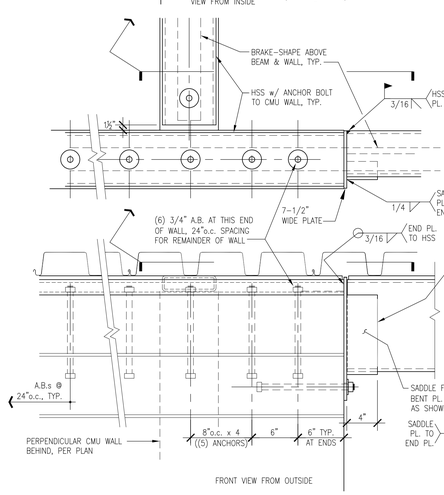
31 TYP. DECK CLOSURE AT ENDS

3"=1' 0"



32 BASE PLATE AT TS COLUMN

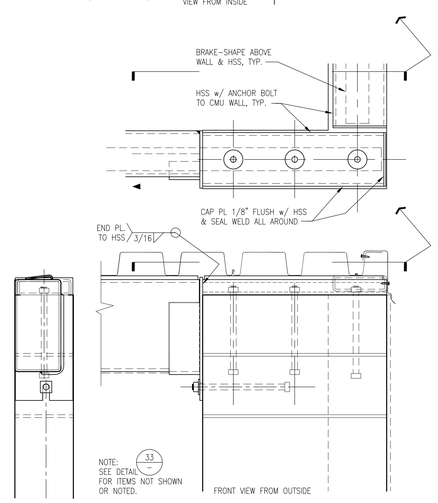
1-1/2"=1' 0"



33 BEAM CONN. TO CMU WALL TO ROOF

AT END WALL CORNER

1-1/2"=1' 0"



35 BEAM CONN. TO CMU WALL TO ROOF

AT STORAGE WALL CORNER

1-1/2"=1' 0"

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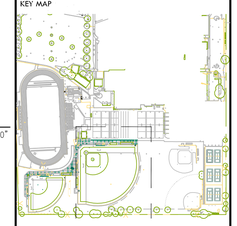
KEY MAP



SHEET TITLE

DUGOUT - STOR. ON LEFT PLANS, SECTIONS, ELEVATIONS & DETAILS

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE SACRAMENTO, CA 95831

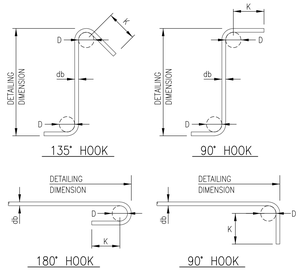
SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED: 10/25/23	SCALE: AS NOTED

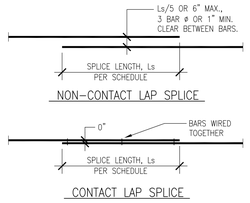
PROJ. NO. 2304200

SHEET NO. S2.1



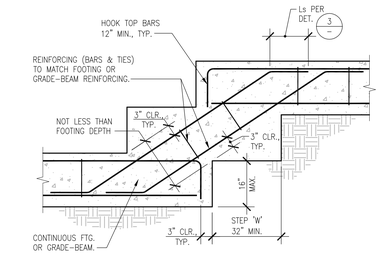
STANDARD HOOKS			
BAR SIZE	"D" IN	180° HOOKS "K"	90° HOOKS "K"
#3	2-1/4"	2-1/2"	4-1/2"
#4	3"	2-1/2"	6"
#5	3-3/4"	2-1/2"	7-1/2"
#6	4-1/2"	3"	9"
#7	5-1/4"	3-1/2"	10-1/2"
#8	6"	4"	12"

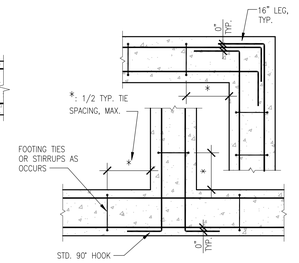
STIRRUP AND TIE HOOKS				
BAR SIZE	"D" IN	180° HOOKS "K"	135° HOOKS "K"	90° HOOKS "K"
#3	1-1/2"	2-1/2"	3"	3"
#4	2"	2-1/2"	3"	3"
#5	2-1/2"	2-1/2"	3-3/4"	3-3/4"
#6	4-1/2"	3"	4-1/2"	9"

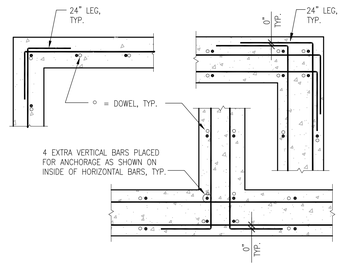


REBAR LAP SPLICE LENGTHS (Ls)			
BAR SIZE	HARD ROCK (REG. WT.) CONCRETE CLASS B SPLICE TYP., U.N.O.	TOP BARS (SEE NOTE 1)	GROUTED MASONRY (CMU)
#3	16"	19"	27"
#4	19"	25"	36"
#5	36"	47"	45"
#6	43"	56"	54"
#7	63"	81"	63"
#8	72"	93"	72"
#9	81"	105"	–
#10	90"	116"	–
#11	98"	128"	–

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS, IN SAME POUR AS BARS (AS IN DEEP BEAM OR FOOTING POURS, ETC.).
2. STAGGER LAPS IN SUCCESIVE PARALLEL BARS IN SLABS AND WALLS A DISTANCE EQUAL TO THE REQUIRED LAP SPLICE LENGTH, BUT NOT LESS THAN 24" (ALONG LENGTH OF BARS).
3. ALL LAP SPLICES SHALL BE CONTACT OR NON-CONTACT TYPE, AS SHOWN.
4. INCREASE SCHEDULED LAP LENGTHS BY 30% WHEN IN LIGHT WEIGHT CONCRETE.

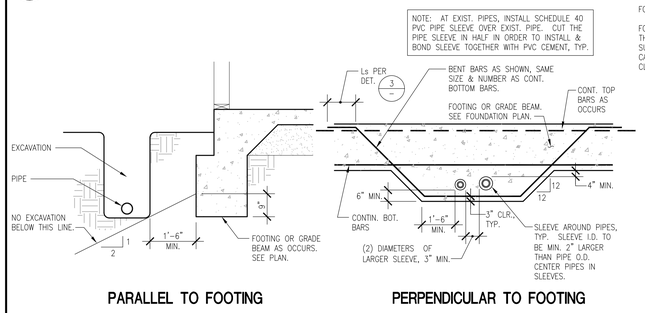






1 TYPICAL REBAR BENDS AND HOOKS

NO SCALE

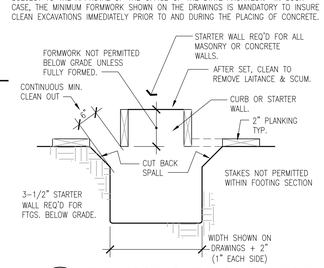


3 TYPICAL REBAR LAP SPLICES

NO SCALE

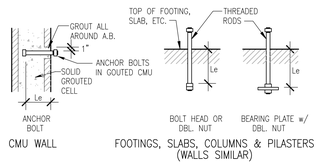
FOUNDATIONS – MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ENGINEER, SUBJECT TO THE APPROVAL OF THE OFFICE OF THE STATE ARCHITECT. IN SUCH CASE, THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.



ANCHOR BOLT DIAMETER (ø)	MINIMUM ANCHOR BOLT EMBEDMENT, Le (1)		
	IN TOP OF CONCRETE & MASONRY (CMU) COLUMNS & PILASTERS	IN CONCRETE FOOTINGS, SLABS & WALLS	IN MASONRY (CMU) WALLS
3/8"	6"	4"	4"
1/2"	7"	5"	5-1/2"
5/8"	8"	5"	5-1/2"
3/4"	10"	6"	5-1/2"
7/8"	10"	7"	8" (2)
1" – 1-1/4"	12"	10"	–

FOOTNOTES:
(1) MIN. EMBEDMENT, U.N.O. SEE OTHER DETAILS FOR HOLDOWNS & SPECIAL BOLTS.
(2) 12" WALLS ONLY. NOT ALLOWED IN 8" WALLS.

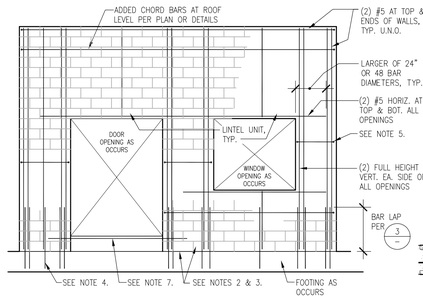


5 TYPICAL FOOTING STEPS

NO SCALE

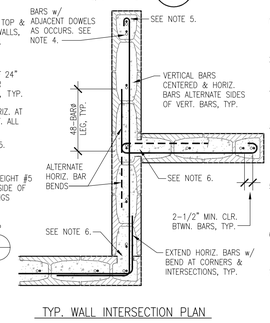
6 TYP. FOOTING INTERSECTION REBAR

3/4" = 1'-0"



7 TYP. WALL INTERSECTION REBAR

3/4" = 1'-0"



TYP. WALL INTERSECTION PLAN

TYP. CMU WALL NOTES

1. USE DOUBLE-OPEN-END UNITS, TYP. USE SINGLE-OPEN-END UNITS AT WALL ENDS, CORNERS AND JAMBS OF OPENINGS.
2. BOTTOM COURSE SHALL BE INVERTED BOND BEAM UNITS, TYP. U.N.O.
3. ROUGHEN TOP OF FOOTING TO FULL 1/8" AMPLITUDE BELOW FULL WIDTH OF MASONRY UNITS, TYP.
4. PROVIDE FOOTING DOWELS TO MATCH SIZE & LOCATION OF EVERY VERTICAL WALL BAR, TYP., U.N.O. ON DETAILS. WALLS w/ WALL BARS ON EACH FACE, PROVIDE FOOTING DOWELS AS SPECIFICALLY SPECIFIED ON DETAIL.
5. PROVIDE 180° STD. HOOK TURNED DOWN AT ENDS OF ALL HORIZONTAL BARS AT TOP OF WALLS & PROVIDE 180° STD. HOOK AROUND VERTICAL BARS AT ENDS OF ALL WALLS NOT AT WALL INTERSECTIONS.
6. BREAK OUT FACE-SHELL AT INTERSECTIONS TO ALLOW HORIZONTAL BARS & GROUT TO PASS FREELY THROUGH.
7. PROVIDE SLAB NOSE BARS AT DOOR OPENINGS IN EXTERIOR WALLS PER OTHER DETAILS.

8 TYP. PIPES AND EXCAVATIONS NEAR FOOTINGS

NO SCALE

10 TYP. FOOTING TRENCHING & FORMING

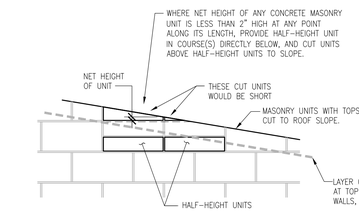
NO SCALE

11 TYP. A.B. EMBEDMENTS

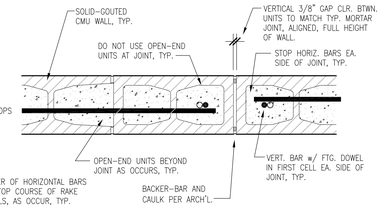
NO SCALE

12 TYP. MASONRY WALL

NO SCALE



ELEVATION OF CMU WALL WITH SLOPED TOP



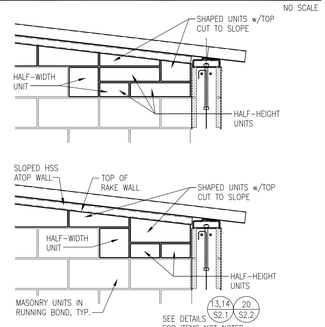
WALL PLAN VIEW

20 TYP. MASONRY UNIT HEIGHT LIMITATIONS

NO SCALE

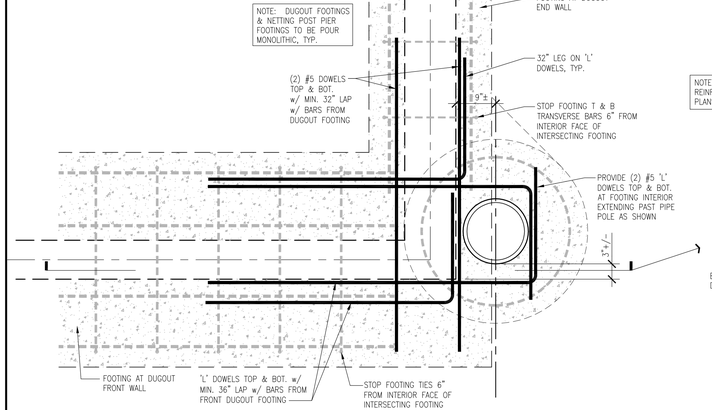
21 TYP. CMU WALL VERT. CONTROL JOINTS

NO SCALE

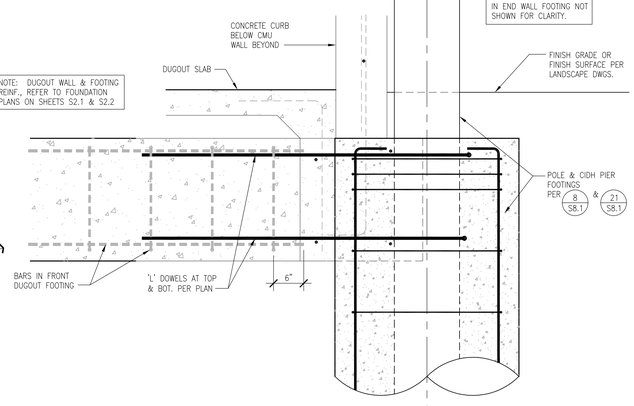


22 NETTING POLE AT DUGOUT CORNERS

1" = 1'-0"



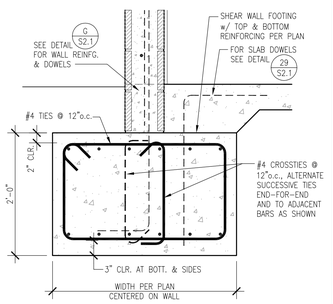
PLAN VIEW



SECTION

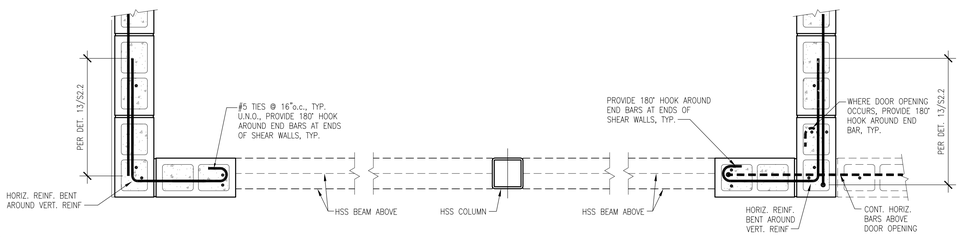
24 TYP. DUGOUT CORNER AT RAKE WALLS

3/4" = 1'-0"



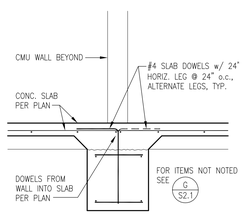
25 WALL REINFORCING PLAN AT DUGOUT OPENING

1"=1' 0"



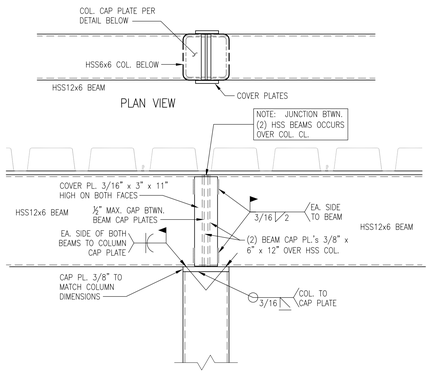
28 CONT. INTERIOR FOOTING

1/2"=1' 0"



29 HSS BEAM CONNECTION AT HSS COLUMN

1-1/2"=1' 0"



30 SHEARWALL FOOTING

1"=1' 0"

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Folsom, CA 95630
tel: 916.415.6554
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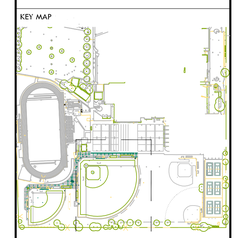
TIM D. MYERS
No. 53280
EXP. 3/31/25
STRUCTURAL
CIVIL
STATE OF CALIFORNIA

CONSULTANT
AKH
Structural Engineers, Inc
275 Tennant Avenue, Ste. 204 ph: 408.978.1970
Morgan Hill, CA 95037 AKHSE.com Job M23-021

KEY MAP



SHEET TITLE
DUGOUT STRUCTURAL DETAILS

PROJECT NAME
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS
6715 GLORIA DRIVE
SACRAMENTO, CA 95831

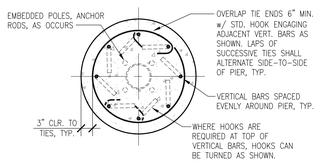
SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED 10/25/23	SCALE AS NOTED

PROJ. NO. 2304200

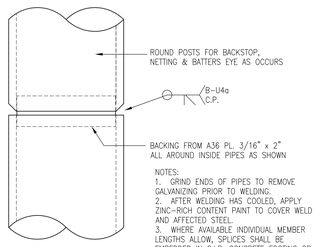
SHEET NO. S2.2



NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED. ADDITIONALLY, PROVIDE TWO (2) FULL TURNS AT TOP AND BOTTOM OF SPIRAL.

1 TYPICAL PIER REINFORCING REQUIREMENTS

3/4"=1' 0"

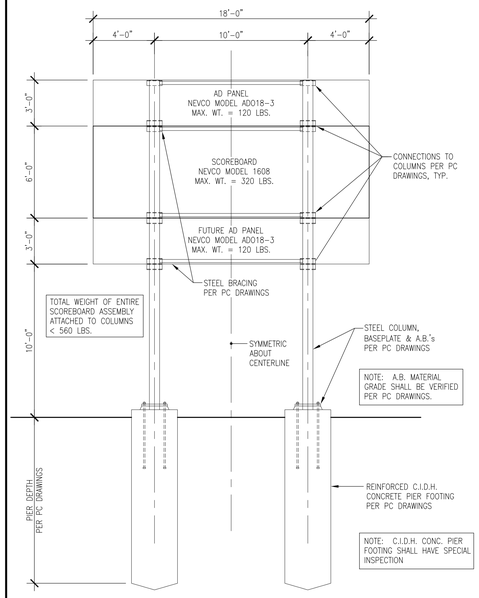


NOTES:
1. GRIND ENDS OF PIPES TO REMOVE GALVANIZING PRIOR TO WELDING.
2. AFTER WELDING HAS COOLED, APPLY ZINC-RICH CONTENT PAINT TO COVER WELD AND AFFECTED STEEL.
3. WHERE AVAILABLE INDIVIDUAL MEMBER LENGTHS ALLOW, SPLICES SHALL BE EMBEDDED IN C.I.P. CONCRETE FOOTING OR BACKSTOP WALL, AS OCCURS.

SPLICE POLE SEGMENTS OF SAME SIZE AS SHOWN WHEN FULL-LENGTH POLE MATERIAL IS NOT AVAILABLE.

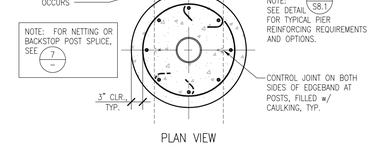
7 TYPICAL POLE/POST SPLICE

NO SCALE

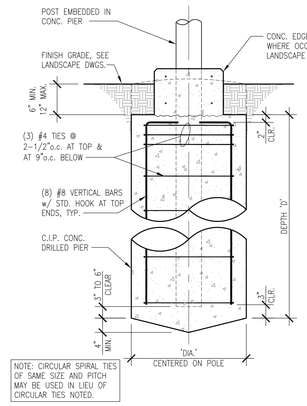


19 SCHEMATIC SCOREBOARD ELEVATION

DESIGN PER NEVCO PC DRAWINGS



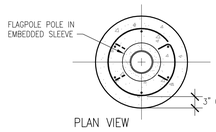
PLAN VIEW



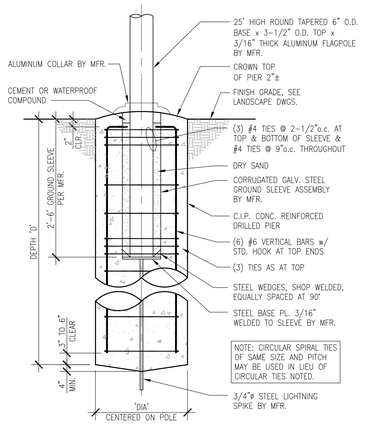
NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.

8 BACKSTOP & NETTING FOOTING

3/4"=1' 0"



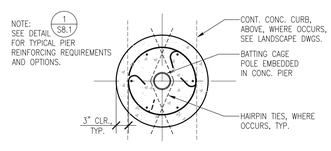
PLAN VIEW



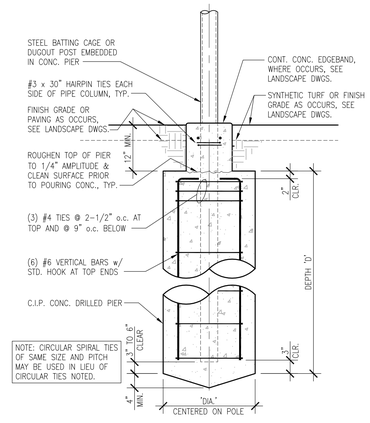
NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.

9 FLAG POLE FOOTING

3/4"=1' 0"



PLAN VIEW

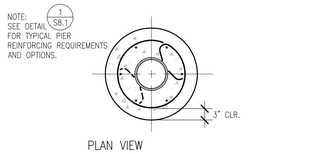


NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.

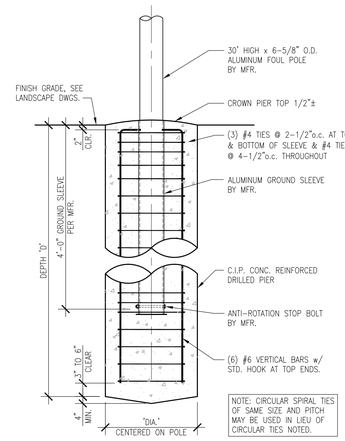
10 BATTING CAGE FOOTING

SIM. AT VISITOR DUGOUTS

3/4"=1' 0"



PLAN VIEW

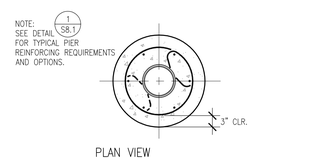


NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.

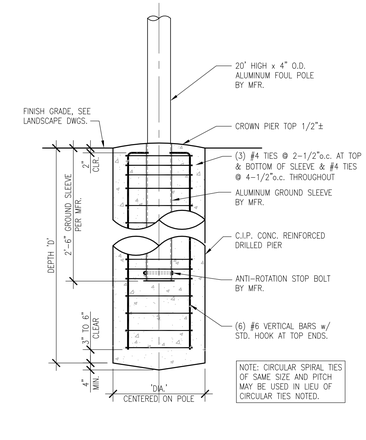
11 FOUL POLE FOOTING

BASEBALL FIELD

3/4"=1' 0"



PLAN VIEW



NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.

12 FOUL POLE FOOTING

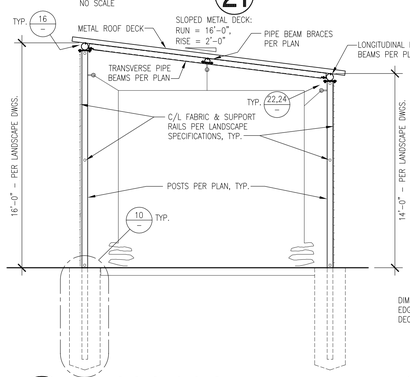
SOFTBALL FIELD

3/4"=1' 0"

POLE TYPE	PIER DIAMETER, "DIA"	MIN. PIER DEPTH, "D"	PIER REINFORCING	COMMENTS
10 TO 12' HIGH DUGOUT (METAL ROOF)	18"	5'-6"	SEE DETAIL 10	5"ø STD. PIPE POSTS (SCHED. 40, 5.600" O.D. x 0.241" WALL, ASTM A53, GR. B, Fy=35 ksi).
14' TO 16' HIGH BATTING CAGE (METAL ROOF)	18"	6'-6"	SEE DETAIL 10	6"ø STD. PIPE POSTS (SCHED. 40, 6.630" O.D. x 0.261" WALL, ASTM A53, GR. B, Fy=35 ksi).
20' HIGH FOUL POLE	18"	6'-6"	SEE DETAIL 12	ROUND ALUMINUM POLE AND GROUND SLEEVE BY OTHERS. HEIGHT FROM GRADE TO BOTTOM OF WING SCREEN = 8'-0"
30' HIGH FOUL POLE	24"	6'-6"	SEE DETAIL 11	ROUND ALUMINUM POLE AND GROUND SLEEVE BY OTHERS. HEIGHT FROM GRADE TO BOTTOM OF WING SCREEN = 8'-0"
25' HIGH FLAGPOLE	24"	5'-0"	SEE DETAIL 9	ROUND TAPERED ALUMINUM FLAGPOLE AND GROUND SLEEVE BY OTHERS; MAX. FLAG SIZE = 5' x 8'
30' HIGH NETTING POSTS ADJACENT TO CMU DUGOUTS (APPROX. 19'-6" MAX. HIGH NETTING ABOVE CMU DUGOUTS, SEE LANDSCAPE DWGS.)	30"	8'-0"	SEE DETAIL 8	10"ø STD. PIPE POSTS (SCHED. 40, 10.800" O.D. x 0.365" WALL, ASTM A53, GR. B, Fy=35 ksi). SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.
30' HIGH NETTING POSTS ADJACENT TO C.I. DUGOUTS (APPROX. 18'-0" MAX. HIGH NETTING ABOVE C.I. DUGOUTS, SEE LANDSCAPE DWGS.)	30"	11'-0"	SEE DETAIL 8	10"ø STD. PIPE POSTS (SCHED. 40, 10.800" O.D. x 0.365" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 57'-0" o.c. SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.
30' HIGH NETTING - THROUGHOUT REST OF FIELDS (22' HIGH NETTING ABOVE 8' HIGH C.L. FENCE, SEE LANDSCAPE DWGS.)	30"	10'-0"	SEE DETAIL 8	8"ø STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 40'-0" o.c. SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.
30' HIGH NETTING - THROUGHOUT REST OF FIELDS (30' HIGH NETTING ONLY, NO FENCE, SEE LANDSCAPE DWGS.)	30"	10'-0"	SEE DETAIL 8	8"ø STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 40'-0" o.c. SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.
30' HIGH BACKSTOP	30"	7'-6"	SEE DETAIL 8	8"ø STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 10'-0" o.c. SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.

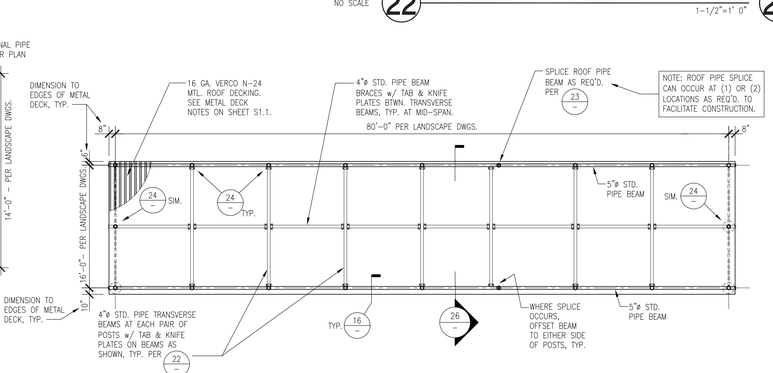
21 POLE/POST & C.I.D.H. PIER SCEDULE

NO SCALE



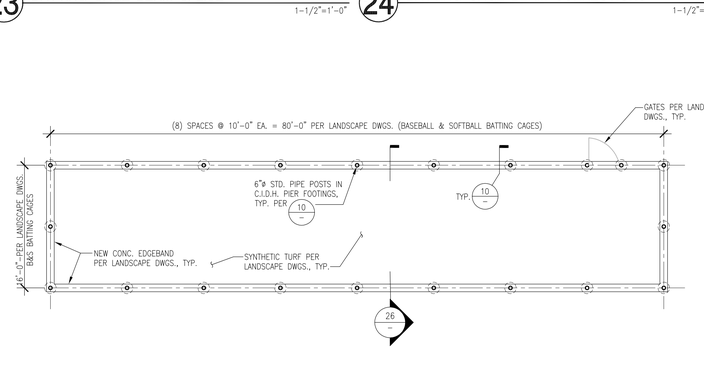
26 BATTING CAGE SECTION

N.T.S.



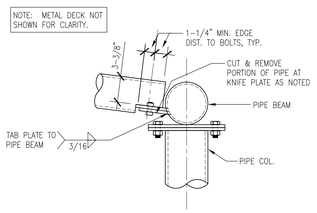
27 BATTING CAGE FRAMING PLAN

1/8"=1' 0"



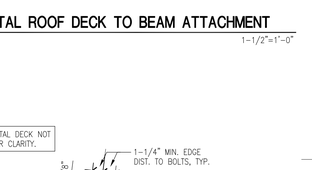
29 BATTING CAGE FOUNDATION PLAN

1/8"=1' 0"



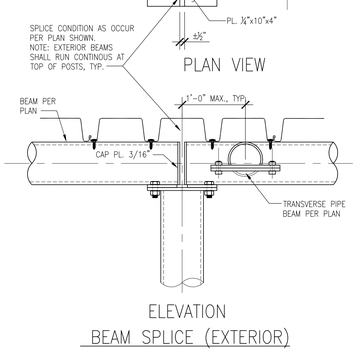
16 METAL ROOF DECK TO BEAM ATTACHMENT

1-1/2"=1'-0"



22 TRANSVERSE BEAM TO BEAM CONN.

1-1/2"=1' 0"

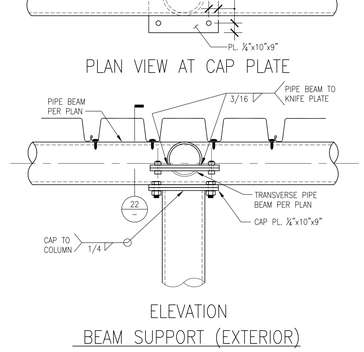


PLAN VIEW

ELEVATION
BEAM SPLICE (EXTERIOR)

23 BATTING CAGE BEAM SPLICE

1-1/2"=1'-0"



ELEVATION
BEAM SUPPORT (EXTERIOR)

24 BATTING CAGE BEAM CONNECTIONS

1-1/2"=1' 0"

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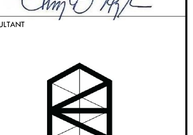
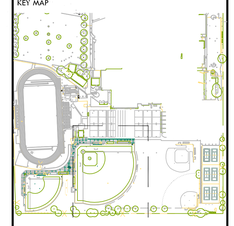


CONSULTANT

AKH
Structural Engineers, Inc
275 Tennant Avenue, Ste. 204 ph: 408.978.1970
Morgan Hill, CA 95037 AKHSE.com Job M23-021

KEY MAP



SHEET TITLE

BB, SB & TENNIS COURT SITE STRUCTURES FOUNDATION DETAILS

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
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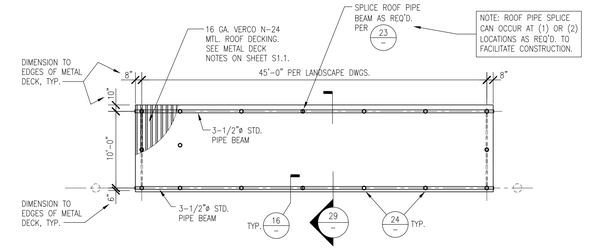
NO.	REVISIONS	DATE

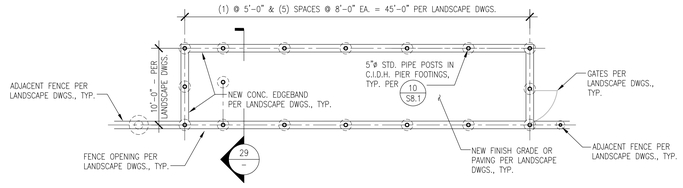
DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED: 10/25/23	SCALE: AS NOTED
PROJ. NO.: 2304200	
SHEET NO.: S8.1	



5 DUGOUT FRAMING PLAN

SOFTBALL & BASEBALL 3RD BASE (VISITOR)

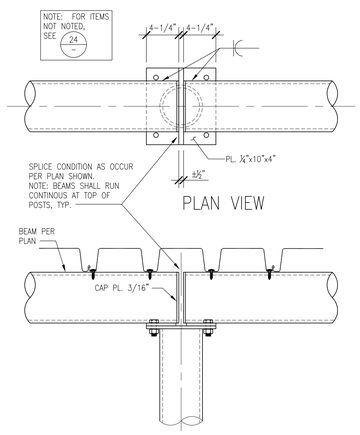
1/8"=1' 0"



11 DUGOUT FOUNDATION PLAN

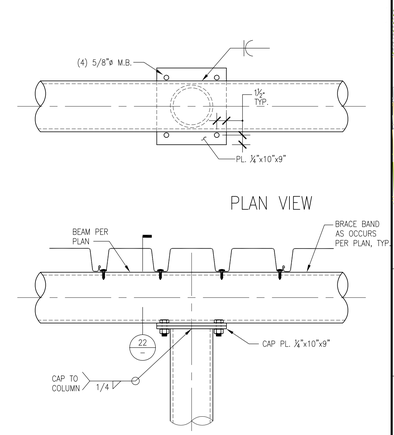
SOFTBALL & BASEBALL 3RD BASE (VISITOR)

1/8"=1' 0"



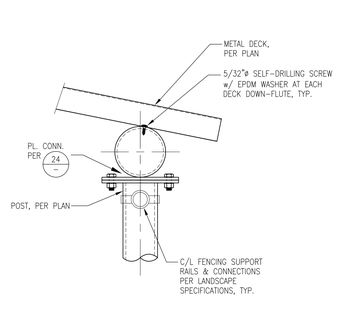
23 DUGOUT BEAM SPLICE

1-1/2"=1'-0"



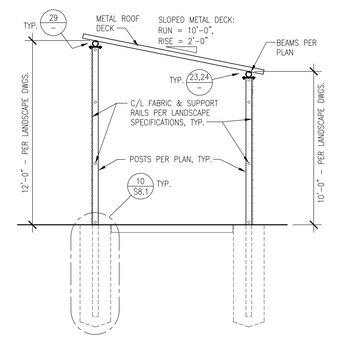
24 DUGOUT BEAM CONNECTIONS

1-1/2"=1' 0"



29 METAL ROOF DECK TO BEAM ATTACHMENT

1-1/2"=1'-0"



30 DUGOUT SECTION

1"=1' 0"

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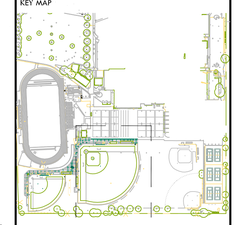
275 Tennant Avenue, Ste. 204 ph: 408.978.1970
Morgan Hill, CA 95037 AKHSE.com Job M23-021

KEY MAP



SHEET TITLE

BB, SB & TENNIS COURT SITE STRUCTURES FOUNDATION DETAILS

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED 10/25/23	SCALE AS NOTED
PROJ. NO. 2304200	
SHEET NO. S8.2	

GENERAL NOTES:

1. READ THE COMPLETE SPECIFICATIONS, CONTRACT DOCUMENTS AND COMPLY WITH EACH REQUIREMENTS.
2. THE COMPLETE ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE N.E.C., AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
5. PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
7. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWING, SHOW LOCATIONS OF PULLBOXES, CONDUIT RUNS AND WIRING CHANGES.
8. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE UL OR CSA LISTED AND SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
11. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RSG" UNLESS OTHERWISE NOTED ON DRAWINGS.
12. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM, TWO (2) #12'S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN SELECTED BASED ON DIMENSIONS TO FIT THE SPACE. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO ORDERING OF THE EQUIPMENT.
15. CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.
16. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS.
17. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
18. NEW DUCT ROUTES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED IN THE FIELD TO CLEAR OTHER UNDERGROUND UTILITIES. PROVIDE AS-BUILT DRAWINGS TO INDICATE ACTUAL LOCATION OF CONDUIT ROUTING.
19. EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.
20. FROM ALL NEW PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
21. UTILITY SERVICE WORK SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY COMPANY'S RULES, REGULATIONS AND STANDARDS, AND SHALL BE VERIFIED WITH UTILITY COMPANY'S ENGINEERING DRAWINGS AND FIELD SUPERVISOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER, CATV AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS. THE CONTRACTOR SHALL REMAIN IN CONTACT WITH UTILITY COMPANY ENGINEERING DEPARTMENTS THROUGHOUT PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.
22. THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION. STRING SHALL BE NYLON PULLSTRING ROPE/STRING.
23. POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.
24. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
25. PROVIDE SEISMIC BRACING FOR ALL PENDANT LIGHT FIXTURES, FREESTANDING ELECTRICAL DISTRIBUTION EQUIPMENT, MOTOR CONTROL CENTERS ETC, AND CONDUIT RACKS PER SEISMIC CRITERIA 2022 CBC REQUIREMENTS INCLUDING ENGINEERED LOAD CALCULATIONS COMPLETE WITH SWAY BRACING CRITERIA.
26. DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
27. ALL SPACES ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARES AND BUSSING FOR FUTURE BREAKER OR SWITCH.
28. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2022 CALIFORNIA ELECTRICAL CODE.
29. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES AND BOND TO METAL COVER WITH #6 CU GND.

SYMBOL LIST:

- (I / E1) — PLAN, DETAIL OR SECTION DESIGNATION.
- 201 — ROOM NUMBER.
- (I) — SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.
- (3) — FEEDER SCHEDULE SYMBOL.
- (GH / 2) — MECHANICAL EQUIPMENT TAG.
- (A) — INDICATES FIXTURE TYPE

LUMINAIRE SYMBOLS

- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE WALL MOUNTED-SEE SCHEDULE.
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EM — EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE WALL MOUNTED- PROVIDE EMERGENCY BATTERY BALLAST
- EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.
- EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.
- COMBO EMERGENCY LIGHT/ EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.

TYPICAL LUMINAIRE NOMENCLATURE

3d — INDICATES SWITCHING DESIGNATION
— INDICATES CIRCUIT NUMBER

SWITCH SYMBOLS

- $ — SINGLE POLE SWITCH, + 48" AFF UON.
- $a — SINGLE POLE SWITCH, + 48" AFF UON, a = CIRCUIT CONTROLLED.
- $3 — THREE WAY SWITCH + 48" AFF UON.
- $4 — FOUR WAY SWITCH + 48" AFF UON.
- $ — MOTOR RATED SWITCH
- OS — OCCUPANCY SENSOR
- P — OCCUPANCY SENSOR POWER PACK

RECEPTACLE SYMBOLS

- CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF UON.
- GFCI CONVENIENCE RECEPTACLE - DUPLEX.
- RECEPTACLE DOUBLE DUPLEX AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA L21 - 20B VOLT, THREE PHASE, 5 WIRE, AT + 18" AFF UON.
- FLOOR BOX WITH CONVENIENCE RECEPTACLE, TELEPHONE AND DATA OUTLET.
- FLUSH FLOOR BOX WITH SINGLE CONVENIENCE RECEPTACLE.
- WIRE RACEWAY, INSTALL AT + 36" AFF UON.

POWER DISTRIBUTION SYMBOLS

- PANELBOARD - SURFACE OR FLUSH MOUNTED.
- JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT.
- DISTRIBUTION PANEL
- (M) — MOTOR
- 30 — COMBINATION MAGNETIC STARTER FUSED DISCONNECT SWITCH, RATING AS INDICATED.
- 60 — UNFUSED DISCONNECT SWITCH - RATING AS INDICATED.
- 100 — FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR MANUFACTURER'S RECOMMENDATIONS, RATING AS INDICATED.
- II — MAGNETIC STARTER - NEMA SIZE INDICATED.
- T — TRANSFORMER - SEE SINGLE LINE FOR SIZE.
- GROUND ROD.

WIRING & CONDUIT RUN SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - IN OR BELOW FLOOR: 3/4"MIN.
- #10 — CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH "#10" INDICATES WIRE SIZE OTHER THAN #12'S.
- FLEX CONDUIT WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- E — CONDUIT EMERGENCY SYSTEM.
- CAPPED CONDUIT.
- CONDUIT CONTINUATION.

POWER DISTRIBUTION SINGLE LINE SYMBOLS

- CIRCUIT BREAKER.
- M — "PS4E" METER W/ CURRENT TRANSFORMER.
- TRANSFORMER.

IN-GRADE PULL BOXES

- L — IN-GRADE PULL BOX IDENTIFIED WITH "L" HAS A LID LABELED "LIGHTING".
- S — IN-GRADE PULL BOX IDENTIFIED WITH "S" HAS A LID LABELED "SIGNAL".
- P — IN-GRADE PULL BOX IDENTIFIED WITH "P" HAS A LID LABELED "ELECTRICAL".

ABBREVIATIONS:

A	AMPERE
ABV	ABOVE
AF	AMP FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CD	CANDELAS
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
CTR	CENTER
(D)	DEMOLISH
DET	DETAIL
DIM	DIMENSION
DISTR	DISTRIBUTION
DWG	DRAWING
(E)	EXISTING
EM	EMERGENCY
EQPT	EQUIPMENT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
FIN	FINISH
FL	FLOOR
G , GND	GROUND
HGT	HEIGHT
HP	HORSEPOWER
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MTD	MOUNTED
MTG	MOUNTING
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NIEC	NOT IN ELECTRICAL CONTRACT
NO	NUMBER/ NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
P	POLE CIRCUIT BREAKER
PA	PUBLIC ADDRESS
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
(R)	EXISTING TO BE RELOCATED
REQD	REQUIRED
REQT	REQUIREMENT(S)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SHT	SHEET
SW	SWITCH
SWBD	SWITCHBOARD
TC	TERMINAL CABINET
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

FIXTURE SCHEDULE

TYPE	LAMPS	LAMP QUANTITY	BALLAST	MOUNTING	DESCRIPTION	WEIGHT
A	40W LED	N/A	N/A	BATTING CAGE (4 / E12)	SINGLE HEAD LED RECTANGULAR LUMINAIRE WITH DIE CAST ALUMINUM ALLOY HOUSING. FIXTURE TO BE EQUIPPED WITH ADJUSTABLE BRACKET AND HARDWIRE TO MOUNT BELOW BATTING CAGE FENCE. FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AS BATTING CAGE LIGHTS. NORTHSTAR LIGHTING - #EX-40W-A2-N-4-90-VI-Y UNV	10lbs.

DRAWING INDEX

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN AREA OF NEW TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. EXTREME CARE SHALL BE MAINTAINED DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN AREA. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATION AND SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA EXPENSE TO THE OWNER THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL NEW WORK.

GENERAL ANCHORAGE NOTES:

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDINS UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS TAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP) ELECTRICAL DISTRIBUTION SYSTEM (E):

MP ☐ MD☐ PP☐ E☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD☐ PP☐ E☐ - OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____

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LANDSCAPE ARCHITECTURE
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STAMP

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER S. FERRARO — E16890 Exp. 06/30/25 — ELECTRICAL — STATE OF CALIFORNIA

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408/236-2312
Fax: 408/236-2316
JOB #EX23085

KEY MAP

SHEET TITLE

ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULE

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

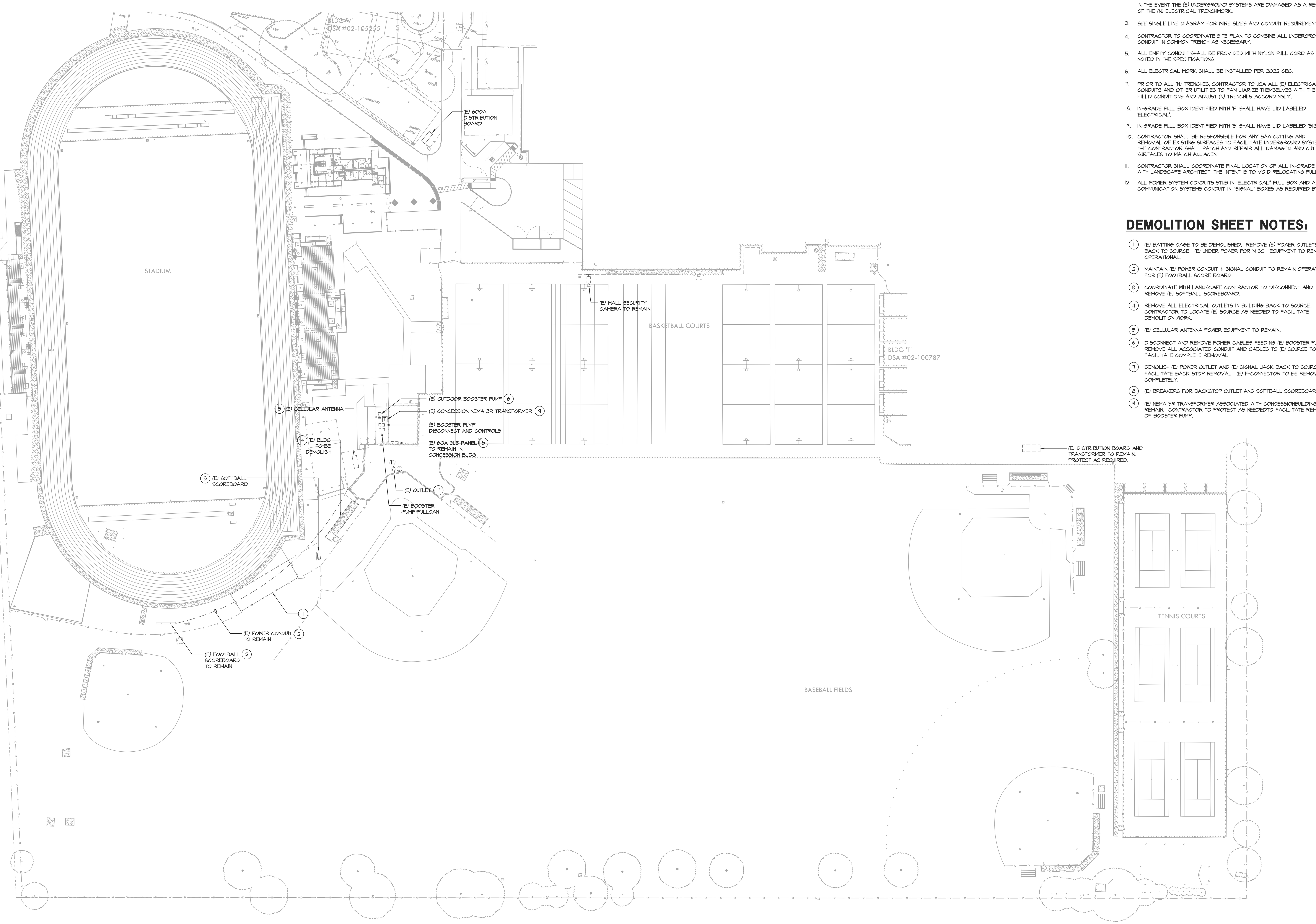
PROJECT ADDRESS

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: CN
CHECKED BY: AA/SF
DATE ISSUED: 10/25/23
SCALE: AS NOTED
PROJ. NO.: 2304200
SHEET NO.: E0.1



GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USA ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.

DEMOLITION SHEET NOTES:

1. (E) BATTING CAGE TO BE DEMOLISHED. REMOVE (E) POWER OUTLETS BACK TO SOURCE. (E) UNDER POWER FOR MISC. EQUIPMENT TO REMAIN OPERATIONAL.
2. MAINTAIN (E) POWER CONDUIT & SIGNAL CONDUIT TO REMAIN OPERATIONAL FOR (E) FOOTBALL SCORE BOARD.
3. COORDINATE WITH LANDSCAPE CONTRACTOR TO DISCONNECT AND REMOVE (E) SOFTBALL SCOREBOARD.
4. REMOVE ALL ELECTRICAL OUTLETS IN BUILDING BACK TO SOURCE. CONTRACTOR TO LOCATE (E) SOURCE AS NEEDED TO FACILITATE DEMOLITION WORK.
5. (E) CELLULAR ANTENNA POWER EQUIPMENT TO REMAIN.
6. DISCONNECT AND REMOVE POWER CABLES FEEDING (E) BOOSTER PUMP. REMOVE ALL ASSOCIATED CONDUIT AND CABLES TO (E) SOURCE TO FACILITATE COMPLETE REMOVAL.
7. DEMOLISH (E) POWER OUTLET AND (E) SIGNAL JACK BACK TO SOURCE TO FACILITATE BACK STOP REMOVAL. (E) F-CONNECTOR TO BE REMOVE COMPLETELY.
8. (E) BREAKERS FOR BACKSTOP OUTLET AND SOFTBALL SCOREBOARD.
9. (E) NEMA 3R TRANSFORMER ASSOCIATED WITH CONCESSIONBUILDING TO REMAIN. CONTRACTOR TO PROTECT AS NEEDEDTO FACILITATE REMOVAL OF BOOSTER PUMP.

1 / E1.0 ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1" = 40'-0"

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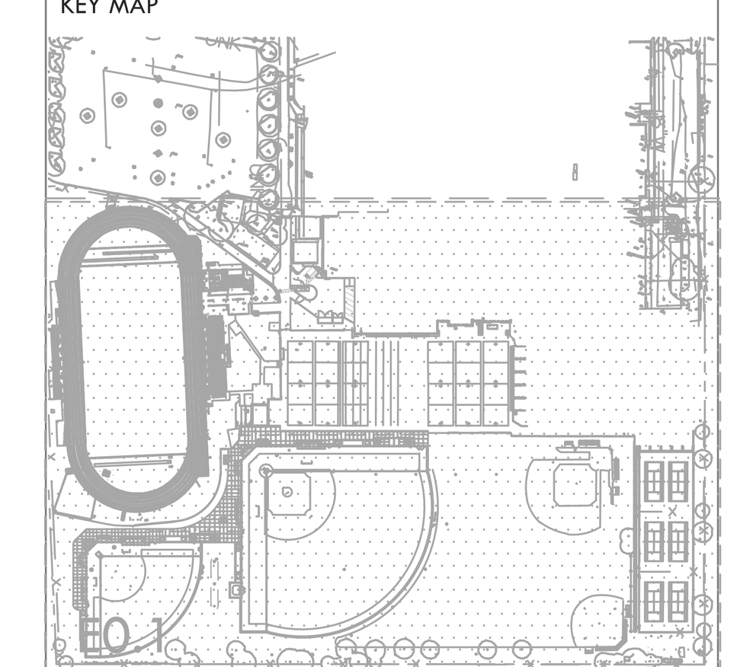
KEY MAP



SHEET TITLE

ELECTRICAL DEMOLITION SITE PLAN

PROJECT NAME

JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

PROJECT ADDRESS

6715 GLORIA DRIVE
SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
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DRAWN BY	CHECKED BY
CN	AA/SF
DATE ISSUED	SCALE
10/25/23	AS NOTED

PROJ. NO.
2304200

SHEET NO.
E1.0

DRAWING NAME: B:\Projects\Year 2023\EK23098_JFK High School Baseball Improv\E1.0_Electrical Demo Site Plan.dwg
PLOT DATE: 10-24-23 PLOTTED BY: cnguyen