

# SYMBOLS

101 DOOR NUMBER

B4 BUILDING SECTION

A3.1 SHEET WHERE DRAWN

WINDOW TYPE

11 PARTITION TYPE

1.00 KEYED NOTE

ROOM TAG

ROOM NAME

ROOM NUMBER

ROOM AREA / VOLUME

CALCULATED OCCUPANT LOAD

ACCESSIBILITY CLEARANCES

DATUM / ELEVATION TAG

ELEVATION

SPOT ELEVATION TAG

DRAWING REVISION CLOUD

REVISION NUMBER

AD = ADDENDUM

FO = FIELD ORDER

CO = CHANGE ORDER

GRADE STEP

FLUSH GRADE TRANSITION

# ABBREVIATIONS

ABS	ACRYLONITRILE-BUTADIENE-STYRENE	MATL	MATERIAL
AC	ASPHALTIC CONCRETE	MAX	MAXIMUM
A.F.F.	ABOVE FINISH FLOOR	MECH	MECHANICAL
ALTERNAT	ALTERNATE	MEZZ	MEZZANINE
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLOCKING	BLOCKING	MO	MASONRY OPENING
B.O.F.	BOTTOM OF FOOTING	MTL	METAL
BRG	BEARING	NIC	NOT IN CONTRACT
CI	CAST IRON	NO.	NUMBER
C.I.P.	CAST IN PLACE	NOM	NOMINAL
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR	O/	OVER
CLERLINE	CENTERLINE	O.A.E.	OR APPROVED EQUIVALENT
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OFICI	OWNER FURNISHED/CONTRACTOR INSTALL
CONF	CONFERENCE	OPP	OPPOSITE
CONST	CONSTRUCTION	PARTN	PARTITION
CONTR	CONTRACTOR	PART	PARTICLE
COORD	COORDINATE	PERP	PERPENDICULAR
DEMO	(DEMOLISH) DEMOLITION	PERIM	PERIMETER
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DIM	DIMENSION	PL	PLATE
DN	DOWN	PLBS	PLUMBING
DR	DOOR	FR	PAIR
DS	DOWNSPOUT	PREFAB	PREFABRICATED
DTL	DETAIL	PREFIN	PREFINISHED
DWG	DRAWING(S)	PVC	POLYVINYL CHLORIDE
(E)	EXISTING	QTY	QUANTITY
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	RD	RADIUS
E.J.	EXPANSION JOINT	RO	ROOF DRAIN
EL	ELEVATION	REIN	REINFORCED / REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATOR	REV	REVISION
EQ	EQUAL	REFR	REFRIGERATOR
EQUIP	EQUIPMENT	RM	ROOM
EXIST	EXISTING	RO	ROUGH OPENING
EXP	EXPANSION	R/R	RESTROOM
EXT	EXTERIOR	RTU	ROOF TOP UNIT
FD	FLOOR DRAIN	SC	SOLID CORE
FDN	FOUNDATION	SCHEDE	SCHEDULE(D)
FE(C)	FIRE EXTINGUISHER (CABINET)	SIM	SIMILAR
FIN	FINISH	SPEC	SPECIFICATION(S)
FLR	FLOOR	SQ	SQUARE
FT	FEET	SS	STAINLESS STEEL
FTG	FOOTING	STD	STANDARD
GA	GAUGE	STOR	STORAGE
GALV	GALVANIZED	STRUC	STRUCTURAL
GC	GENERAL CONTRACTOR	SUSP	SUSPENDED
GLU-LAM	GLUE LAMINATED	T&G	TONGUE AND GROOVE
GYP	GYPSONUM	TEL	TELEPHONE
HDWD	HARDWOOD	THRES	THRESHOLD
HM	HOLLOW METAL	T.O.	TOP OF
HORIZ	HORIZONTAL	T.O.B.	TOP OF BEAM
HSS	HOLLOW STRUCTURAL STEEL	T.O.S.	TOP OF SLAB / TOP OF STRUCTURE
HT	HEIGHT	T.O.D.	TOP OF DECK
HVAC	HEATING, VENTILATION & AIR CONDITIONING	T.O.W.	TOP OF WALL
ID	INSIDE DIAMETER	TOIL	TOILET
INT	INTERIOR	T.S.	TUBE STEEL
ISO	ISOMETRIC	TV	TELEVISION
JAN	JANITOR	TV	TYPICAL
ISO	ISOMETRIC	UL	UNDERWRITERS LABORATORY
ISO	ISOMETRIC	U.O.N.	UNLESS OTHERWISE NOTED
KD	KNOCKDOWN	VCT	VINYL COMPOSITION TILE
KO	KNOCKOUT	VERT	VERTICAL
KOP	KNOCKOUT PANEL	VEST	VESTIBULE
LAB	LABORATORY	WC	WATER CLOSET
LAV	LAVATORY	WF	WIDE FLANGE
LLV	LONG LEG VERTICAL	WH	WATER HEATER
LVL	LAMINATED VENEER LUMBER	WWF	WELDED WIRE FABRIC
LW	LIGHT WEIGHT	W	WITH
		W/O	WITHOUT

# KEY TO MATERIALS

EARTH

E.I.F.S.

GRAVEL

COMPACTED GRANULAR FILL

CONCRETE

BRICK

MASONRY / CMU

ALUMINUM

CONTINUOUS WOOD

BATT INSULATION

STEEL

WOOD BLOCKING

RIGID INSULATION

NEW WOOD STUD FRAMING

PLYWOOD

# ADMINISTRATIVE NOTES

- ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, C.C.R. A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, C.C.R.)
- A COPY OF PARTS 1 AND 2, TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R. AND PER DSA IR-A-6.
- TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PIER SECTION 4-331, PART 1, TITLE 24, C.C.R.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333 (B).
- SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
- CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-8 IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.
- THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.
- THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.
- NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING: ARCHITECT OR ENGINEER OF RECORD, STRUCTURAL ENGINEER (WHEN APPLICABLE), DELEGATED PROFESSIONAL ENGINEER, DSA.
- MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- PER CBC 11B-104.1 ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.
- NEWLY INSTALLED AND/OR UPGRADED FIRE ALARM:
  - THE ENTIRE LENGTH OF STROBE LIGHT IS BETWEEN 80" AND 96"
  - FLASH RATE SHALL NOT EXCEED 2 FLASHES PER SECOND NOR LESS THAN 1 FLASH PER SECOND.
  - MANUAL ALARM ACTIVATING HANDLE 42"-48"
  - BOXES TO COMPLY WITH CBC 11B-309.4, NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WIRES

# APPLICABLE CODES

2022 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE PART 1, TITLE 24 C.C.R.  
 2022 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24 C.C.R.  
 2022 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24 C.C.R.  
 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.  
 2022 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 C.C.R.  
 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.  
 2022 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 C.C.R.  
 2022 CALIFORNIA REFERENCED STANDARD CODE PART 12, TITLE 24 C.C.R.  
 TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS  
 NFPA 72, NATIONAL FIRE ALARM CODE, WITH CALIFORNIA AMENDMENTS, 2022 EDITION  
 NFPA 13, AUTOMATIC SPRINKLER SYSTEM WITH CALIFORNIA AMENDMENTS, 2019 EDITION  
 NFPA 24, PRIVATE FIRE MAINS, 2022 EDITION  
 NFPA 14, STANDPIPE, PRIVATE FIRE HYDRANT HOSE SYSTEMS, 2022 EDITION  
 REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2022 CBC CHAPTER 35 AND 2022 CFC CHAPTER 80

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSIDERED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL, CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

COMPLIANCE WITH CFC CHAPTER 35, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED

# VICINITY MAP

SITE

SACRAMENTO COUNTY

NORTH

# JOSEPH BONNHEIM ELEMENTARY SCHOOL

# PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS

7300 MARIN AVE  
 SACRAMENTO, CA 95820

SACRAMENTO COUNTY

# SHEET INDEX

SHEET #	SHEET NAME	SITE SPECIFIC DESIGN CRITERIA
G001	COVER SHEET	WIND RISK CATEGORY II BASIC WIND SPEED 94 MPH EXPOSURE C
AS98	OVERALL ARCHITECTURAL SITE DEMOLITION PLAN	SEISMIC RISK CATEGORY II SITE CLASS D/DEFAULT SS = 0.53; SDS = 0.487
AS99	ENLARGED ARCH'L SITE DEMOLITION PLANS	
AS100	OVERALL ARCHITECTURAL SITE AREAS	
AS103	ENLARGED PLAY APPARATUS AREAS ARCH'L SITE PLANS	
AS503	SITE DETAILS	
<b>CIVIL</b>		
CO.1	CIVIL GENERAL NOTES AND ABBREVIATIONS	
C1.1	DEMOLITION PLAN	
C2.1	GRADING AND UTILITY PLAN	
C3.1	PAVING PLAN	
<b>LANDSCAPE</b>		
LO.1	SPRINKLER IRRIGATION DEMOLITION PLAN	
L1.1	LANDSCAPE SITE PLAN	
L2.1	LANDSCAPE PLANTING PLAN	
L3.1	SPRINKLER IRRIGATION PLAN	
L3.2	SPRINKLER IRRIGATION PLAN	
L4.1	DETAILS - PE DETAILS	
L5.1	WATER EFFICIENCY CHARTS AND CALCULATIONS	
<b>SHADE STRUCTURE PC DRAWINGS   PC # 02-120923</b>		
S1	FABRIC CANOPIES DSA PC - BP COVER SHEET	
S2	FABRIC CANOPIES DSA PC - BP ELEVATION DETAILS	
S3	FABRIC CANOPIES DSA PC - BP TYPICAL CANOPY DETAILS	
S4	FABRIC CANOPIES DSA PC - BP REFERENCE TABLES	
S5	FABRIC CANOPIES DSA PC - BP SPECIFICATION INFORMATION	
S6	FABRIC CANOPIES DSA PC - BP EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS	
<b>TOTAL NUMBER OF SHEETS: 23</b>		

# GENERAL NOTES

- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEE TO IT THAT ALL MATERIALS AND/OR WORK DESCRIBED, DEPICTED OR DETAILED WITHIN THESE DOCUMENTS, BE FURNISHED AND OR INSTALLED REGARDLESS OF THE LOCATION OF THAT MATERIAL OR WORK WITHIN THE DOCUMENTS OR OMISSION (WHETHER DELIBERATE OR ACCIDENTAL) OF THAT MATERIAL OR WORK BY A SUBCONTRACTOR ON HIS/HER BID.
- ALL CONTRACTORS, WHETHER THE GENERAL OR SUB, SHALL CONSIDER THESE DOCUMENTS IN THEIR ENTIRETY. DISCREPANCIES OR CONTRADICTIONS BETWEEN PORTIONS OF THESE DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST 48 HRS PRIOR TO BID OPENING FOR CLARIFICATION. OTHERWISE EITHER DESCRIPTION OR INSTRUCTION SHALL BE IN FORCE UNTIL ONE IS OMITTED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY FENCING AND GATES, SIGNAGE, SECURITY LIGHTING OR OTHER SECURITY AND CONTROL MEASURES NECESSARY TO PROVIDE FOR THE SAFETY OF STUDENTS, FACULTY AND STAFF AROUND THE WORK, UNTIL THE COMPLETION OF THE WORK UNLESS OTHERWISE DETERMINED BY THE ARCHITECT OR CONSTRUCTION MANAGER.
- THE CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REPLACE ALL DISTRICT PROPERTY DAMAGED DURING THE COURSE OF THE WORK, ESPECIALLY BUT NOT LIMITED TO ASPHALT PAVING AROUND THE SITE, STAGING AREA OR PATH OF TRAVEL TO EITHER.
- THE CONTRACTOR SHALL LIMIT HIS/HER ACTIVITY TO THE AREA DESCRIBED WITHIN THE DOCUMENTS SO AS TO LIMIT HIS/HER LIABILITY FOR DAMAGED PROPERTY UNLESS OTHERWISE PERMITTED BY THE CONSTRUCTION MANAGER OR OWNER.
- ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ALL APPLICABLE CODES. SEE LIST THIS SHEET.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION EXCEPT DSA APPROVAL.
- ALL DIMENSIONS SHALL BE FACE OF STUD, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLR" MEAN CLEAR DIMENSION TO FACE OF FINISH. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.
- ALL ITEMS IN THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
- SCHEDULE ALL WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS WITH THE CONSTRUCTION MANAGER INCLUDING ACCESS AND STORAGE. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
- ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES TO REMAIN MUST BE MAINTAINED IN SERVICE AT ALL TIMES. ANY SHUT DOWNS FOR NEW CONNECTIONS MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER TWO WEEKS PRIOR TO THE REQUESTED SHUT DOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY ITEMS DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK. INSTALLATION SHALL MATCH EXISTING IN KIND, QUALITY AND PERFORMANCE.
- THE CONTRACTOR SHALL CONTAIN ALL DUST AND DEBRIS TO THE CONSTRUCTION AREA. BROOM CLEAN ALL SIDEWALKS AND DRIVEWAYS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
- ALL REMODELED ITEMS LISTED TO BE SALVAGED FOR THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AS DIRECTED BY THE OWNER. ALL OTHER ITEMS MUST BE DISPOSED OFF SITE IN A LEGAL MANNER.
- ALL WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND TO OCCUPANTS OF EXISTING BUILDINGS.
- THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- COORDINATION WITH OTHER CONTRACTS: IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE CONSTRUCTION MANAGER ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
- COORDINATION SCHEDULE: PORTIONS OF WORK UNDER THIS CONTRACTOR'S WORK MUST BE COMPLETED ON SCHEDULE IN ORDER FOR OTHER NOT-IN-CONTRACT WORK TO BE COMPLETED BY OTHERS. COORDINATION WITH THE CONSTRUCTION MANAGER AND STRICT ADHERENCE TO THE COMPLETION DATES FOR DESIGNATED PORTIONS OF WORK ARE IMPERATIVE. SEE SPECIFICATIONS FOR LIQUIDATED DAMAGES.
- DEMOLITION IS NOT NECESSARILY LIMITED TO ONLY WHAT IS SHOWN ON THIS OR OTHER DRAWINGS OR AS OUTLINED IN THE SPECIFICATIONS. THE INTENT IS TO WIND ASBESTOS IN PARTICULAR. THESE REGULATIONS ARE STATED IN SECTION 5209, ASBESTOS REGULATIONS, OF TITLE 8, CALIFORNIA CODES OF REGULATIONS. THIS SECTION STIPULATES THAT THE CONTRACTOR MUST INITIATE REPORTS, TESTS, SIGNS AND OTHER ACTIVITIES UNDER CERTAIN JOB CONDITIONS.
- OF PARTICULAR IMPORTANCE IS THE NEED FOR CONTRACTOR TO ASSURE THAT ALL PERSONS ENTERING A POSSIBLY HAZARDOUS AREA, INCLUDING SUPERINTENDENTS, WORKERS, SUBCONTRACTORS, OTHER CONTRACTORS, AND OTHER PERSONS NOT UNDER CONTRACTUAL CONTROL TO THE CONTRACTOR, ARE AWARE OF PROCEDURES.
- SPECIAL ATTENTION IS CALLED TO THE REQUIREMENT OF THE CONTRACTOR TO COMPLY WITH DSA REQUIREMENTS IN GENERAL AND WITH REGULATIONS INCLUDING ASBESTOS IN PARTICULAR. THESE REGULATIONS ARE STATED IN SECTION 5209, ASBESTOS REGULATIONS, OF TITLE 8, CALIFORNIA CODES OF REGULATIONS. THIS SECTION STIPULATES THAT THE CONTRACTOR MUST INITIATE REPORTS, TESTS, SIGNS AND OTHER ACTIVITIES UNDER CERTAIN JOB CONDITIONS.
- ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED AND SEALED TO MAINTAIN THE REQUIRED RATING.
- DETAIL DRAWINGS WITH REFERENCES TO FIRE-RATED ASSEMBLIES OR CONSTRUCTION WHICH HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, THE CALIFORNIA BUILDING CODE OR ANY OTHER APPROVED TESTING AGENCY, SHALL BE CONSTRUCTED TO INDICATE ALL CONSTRUCTION AND PROCEDURES CONTAINED IN THE REFERENCED ASSEMBLY FOR CONSTRUCTION.
- CONTRACTOR TO MAINTAIN CONTEMPORANEOUSLY RECORDED "AS-BUILT" INFORMATION OF ALL WORK WHICH SHALL BE MARKED IN COLOR ON THE DRAWINGS AND SPECIFICATIONS. A SCANNED PDF OF THE "AS-BUILT" DRAWINGS AND SPECIFICATIONS SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE PRIOR TO FINAL APPLICATION FOR PAYMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-123079 INC:  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 01/17/2025

California DESIGN WEST  
 CALIFORNIA DESIGN WEST ARCHITECTS, Inc.  
 2100 19th Street  
 Sacramento, CA 95818

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 ARCHITECT:

PROFESSIONAL ARCHITECT  
 J. A. McAllister  
 No. 017250  
 REN. 02-28-25  
 STATE OF CALIFORNIA

CONSULTANT:  
**JOSEPH BONNHEIM ELEMENTARY SCHOOL**

7300 MARIN AVE  
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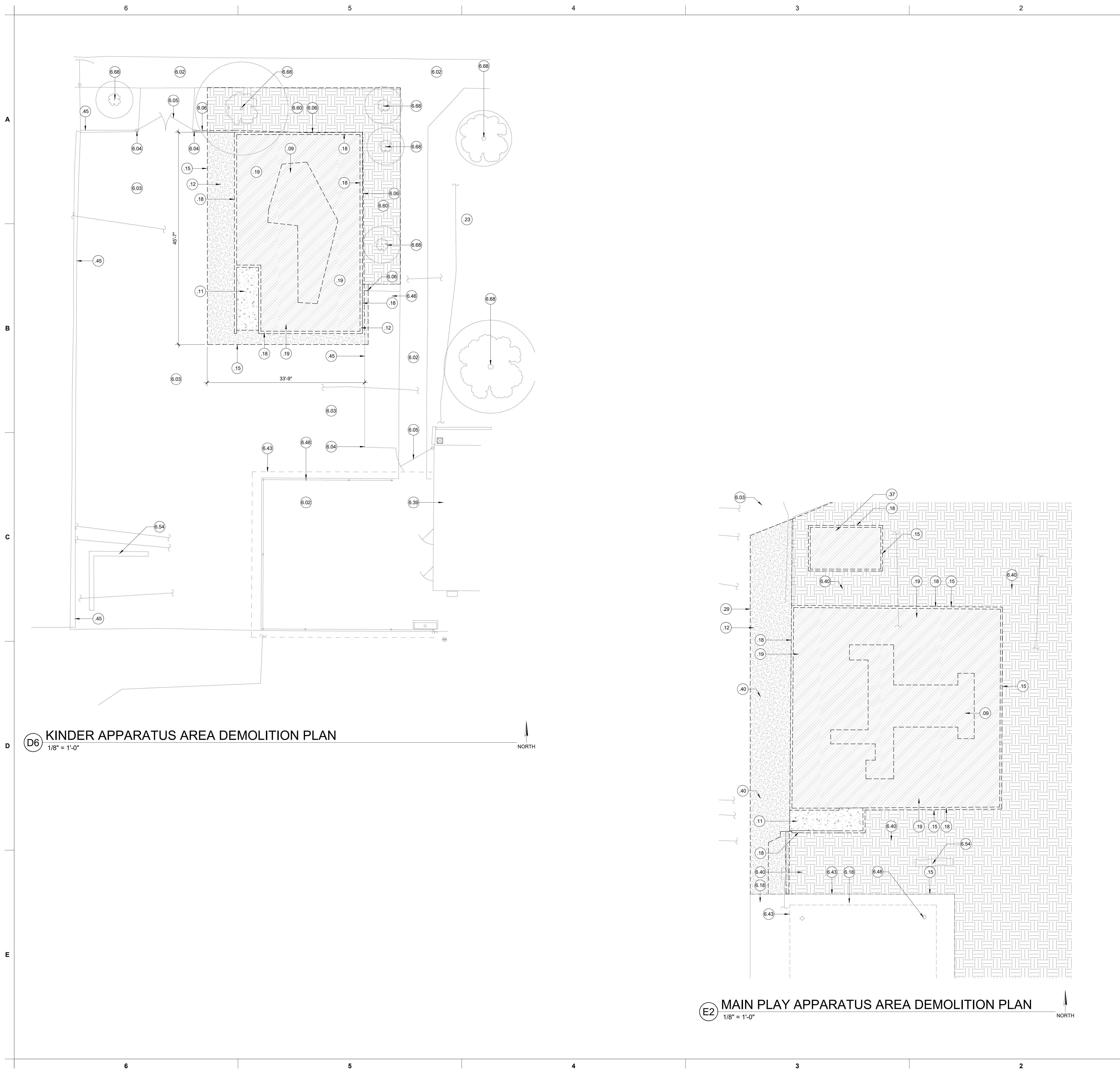
# PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
 5735 47TH AVENUE  
 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:  
 SHEET TITLE:  
**COVER SHEET**

JOB NUMBER: SHEET NUMBER:  
 DATE: DEC 20 2024  
 REVISION:  
**G001**





**D6** KINDER APPARATUS AREA DEMOLITION PLAN  
1/8" = 1'-0"

**E2** MAIN PLAY APPARATUS AREA DEMOLITION PLAN  
1/8" = 1'-0"

**GENERAL NOTES**

1. ALL COMPONENTS, FIXTURES, FINISHES, EQUIPMENT, AND FURNISHINGS EXISTING TO REMAIN SHALL BE PROTECTED FROM DUST OR DAMAGE DURING DEMOLITION AND REMODEL.
2. UTILITIES LOCATED ON WALLS TO REMAIN ARE TO BE PROTECTED AND SHALL REMAIN IN SERVICE UNLESS OWNER APPROVES SHUTDOWN OF THOSE UTILITIES. UTILITIES ARE TO BE RESTORED TO PRE-DEMOLITION CONDITION DURING CONSTRUCTION.
3. BLACK DASHED LINES SHOW FENCING, GATES, PAVING, EQUIPMENT, ETC. TO BE REMOVED. EXISTING COMPONENTS TO REMAIN ARE SHOWN AS LIGHTER GRAY CONTINUOUS LINES. REFER TO SYMBOL LEGEND BELOW.
4. REFER TO CIVIL AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING SCOPE OF LANDSCAPE DEMOLITION WORK.
5. PROVIDE CONSTRUCTION BARRIER AS REQUIRED BY OWNER.
6. REFER TO CIVIL DEMOLITION PLANS FOR ADDITIONAL PAVING DEMOLITION INFORMATION AND UNDERGROUND UTILITY DEMOLITION.
7. IF ANY ITEM OR FINISH IS DAMAGED DURING DEMOLITION, REMOVAL OR REMODEL CONTRACTOR SHALL FURNISH TO REPLACE AND/OR MATCH EXISTING ITEM OR FINISH WHICH WAS DAMAGED.
8. FIELD VERIFY ALL DIMENSIONS TO EXISTING CONDITIONS AT START OF CONSTRUCTION. COORDINATE WITH MINIMUM ADA CLEARANCES TO SPECIFIED FIXTURES. NOTIFY ARCHITECT OF ANY DISCREPANCIES OF DIMENSIONS PRIOR TO ANY WORK IN THAT RESPECTIVE AREA.

**LEGEND**

- (1.01) KEYED NOTE. MAY SKIP NUMBERS. REFER TO KEYED NOTES SCHEDULE. KEYED NOTE TAGS W/O LEADER APPLIES TO ENTIRE ROOM (OR SURFACE) IN WHICH (ON WHICH) THE TAG IS LOCATED.
- PROTECT (E) COMPONENTS TO REMAIN (LIGHTER / GRAY LINES).
- - - COMPONENTS TO BE DEMOLISHED (OR REMOVED AND SALVAGED) - (BLACK DASHED LINES). REFER TO KEYED NOTES.
- [Hatched Pattern] EXISTING BUILDINGS TO REMAIN (NIC), U.O.N.
- [Dotted Pattern] SAW-CUT (E) ASPHALT PAVING WHERE REQUIRED AND DEMOLISH. PREP FOR NEW PAVING. LIME-TREAT PER GEOTECH. REFER TO CIVIL.
- [Stippled Pattern] DEMOLISH EXISTING CONCRETE PAVING / CURBS TYP. SAW-CUT AS REQUIRED. LOCATE SAW-CUT AT NEAREST CONTROL JOINT WHERE APPLICABLE.
- [Cross-hatched Pattern] LANDSCAPE / GRASS AREAS TO BE REMOVED AS REQUIRED FOR NEW WORK. REVISE IRRIGATION TO EDGE OF NEW PAVING WORK AS REQUIRED. REFER TO LANDSCAPE DRAWINGS. USE CAUTION TO PROTECT (E) TREE ROOTS TO REMAIN WHERE APPLICABLE.
- [Diagonal Hatched Pattern] DEMOLISH EXISTING WOOD CURBS TYP. SAW-CUT IF REQUIRED. LOCATE SAW-CUT AT NEAREST CONTROL JOINT WHERE APPLICABLE.
- [Diagonal Hatched Pattern] (E) PLAY STRUCTURE AREA TO BE DEMOLISHED. REMOVE ALL WOOD CHIP FALL PROTECTION. GRADE FOR NEW WORK. REFER TO CIVIL.
- [Dashed Box] (E) PLAYGROUND STRUCTURE AREA TO BE REMOVE.

**KEYED NOTES**

- 09 DEMOLISH (E) PLAY STRUCTURE AND ASSOCIATED FOOTINGS. BACKFILL WITH ENGINEERED FILL PER SPECS.
- 11 DEMOLISH (E) CONCRETE WALK / RAMP.
- 12 DEMOLISH (E) AC PAVING. SAW-CUT ALONG (E) EDGE TO REMAIN.
- 15 SAW-CUT AS REQUIRED ALONG (E) PAVING TO REMAIN. PROTECT EDGE.
- 18 DEMOLISH (E) PLAY AREA WOOD AND METAL POST PERIMETER CURB AND ASSOCIATED FOOTINGS, TYP.
- 19 DEMOLISH (E) BARK FILL / FALL PROTECTION. GRADE FOR NEW PLAY STRUCTURE AND POURED-IN-PLACE SURFACING. REFER TO CIVIL.
- 23 LANDSCAPE AREA TO REMAIN, U.O.N.
- 29 SAW-CUT AND DEMOLISH (E) AC PAVING TO EXTENTS NOTED FOR PATCHBACK AC AROUND (E) PLAY STRUCTURE AREA TO BE REMOVED.
- 37 DEMOLISH EXISTING FRUIT GARDEN AREA. GRADE FOR NEW TURF AREA OR PATH AREA AS REQUIRED PER PROJECT, REFER TO CIVIL AND LANDSCAPE PROJECT.
- 40 DEMOLISH EXISTING AC PAVING, SAWCUT FOLLOWING THE EXISTING PROJECT.
- 45 PROTECT (E) CHAIN-LINK FENCING ASSEMBLY TO REMAIN.
- 6.02 (E) CONCRETE WALKWAYS TO REMAIN.
- 6.03 (E) AC PAVING TO REMAIN.
- 6.04 (E) FENCING GATE POST / CORNER POST REMAIN.
- 6.05 (E) GATES TO REMAIN.
- 6.06 (E) 6' HIGH CHAINLINK FENCING ASSEMBLY. REMOVE, SALVAGE AND REINSTALL GATES AND FENCE FABRIC AFTER NEW CONCRETE WORK IS COMPLETE WHERE REQUIRED FOR WORK. PROVIDE NEW CONNECTION HARDWARE, TYP. (E) POSTS TO REMAIN. EXTEND POSTS (IF NECESSARY) TO NEW FENCE HEIGHT AT NEW GRADES. REFER TO CIVIL.
- 6.18 (E) AC CONCRETE PAVING/SLOPE TO REMAIN
- 6.39 (E) BUILDING TO REMAIN.
- 6.40 (E) GRASS AREA. COMPLETELY REMOVE, REGRADE, AMMEND, AND PROVIDE NEW IRRIGATION AND NEW PLANTING PER LANDSCAPE DRAWINGS AND SPECS.
- 6.43 (E) SHADE STRUCTURE / BUILDING CANOPY PROJECTION (ABOVE) TO REMAIN.
- 6.46 12" WIDE VARIABLE-HEIGHT CONCRETE CURB ALONG ORNAMENTAL FENCE LINE. TYP. ALIGN OUTSIDE FACE OF WALL WITH BACKSIDE FACE OF EXISTING CONCRETE CURB TO REMAIN. REFER TO CIVIL.
- 6.48 PROTECT (E) STRUCTURAL COLUMN TO REMAIN, TYP.
- 6.54 PROTECT (E) OUTDOOR BENCH TO REMAIN
- 6.60 PROVIDE MINOR GRADING AND PLANTER / LANDSCAPE REPAIR AT AREAS ADJACENT TO AND DISTURBED BY NEW WORK, TYP.
- 6.68 PROTECT (E) TREE TO REMAIN, TYP.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-123079 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 01/17/2025

**California**  
**WEST**  
CALIFORNIA DESIGN  
WEST ARCHITECTS, INC.  
2100 19th Street  
Sacramento, CA 95818

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Copyright California Design West Architects, Inc.  
ARCHITECT:

CONSULTANT:

PROJECT NAME:  
**JOSEPH BONNHEIM  
ELEMENTARY SCHOOL**

7300 MARIN AVE  
SACRAMENTO, CA 95820

**PLAYGROUND  
UPGRADES AND  
LANDSCAPE  
REPAIRS**

SACRAMENTO CITY UNIFIED  
SCHOOL DISTRICT

5735 47TH AVENUE  
SACRAMENTO, CA 95824  
SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:  
**ENLARGED ARCH'L  
SITE DEMOLITION  
PLANS**

JOB NUMBER: SHEET NUMBER:  
DATE:  
DEC 20 2024  
REVISION:  
**AS99**

C:\Users\stanz\Documents\AS2\_josephBonnheim\_Site-CENTRAL\_samenaczw7U1.rvt

**ADSA 810**  
**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.  
 To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION			
School District/Owner: SACRAMENTO CITY UNIFIED SCHOOL DISTRICT			
Project Name/School: JOSEPH BONNHEIM ELEMENTARY SCHOOL			
Project Address: 7300 MARIN AVE SACRAMENTO, CA 95820			
FIRE & LIFE SAFETY INFORMATION			
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by CalFire? (If yes, indicate FHSZ classification below.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Refer to the following website for FHSZ locations: <a href="http://www.fire.ca.gov/land-use/land-use-responsible-party">http://www.fire.ca.gov/land-use/land-use-responsible-party</a>	Moderate <input type="checkbox"/>	High <input type="checkbox"/>	Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (if any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA <input type="checkbox"/>

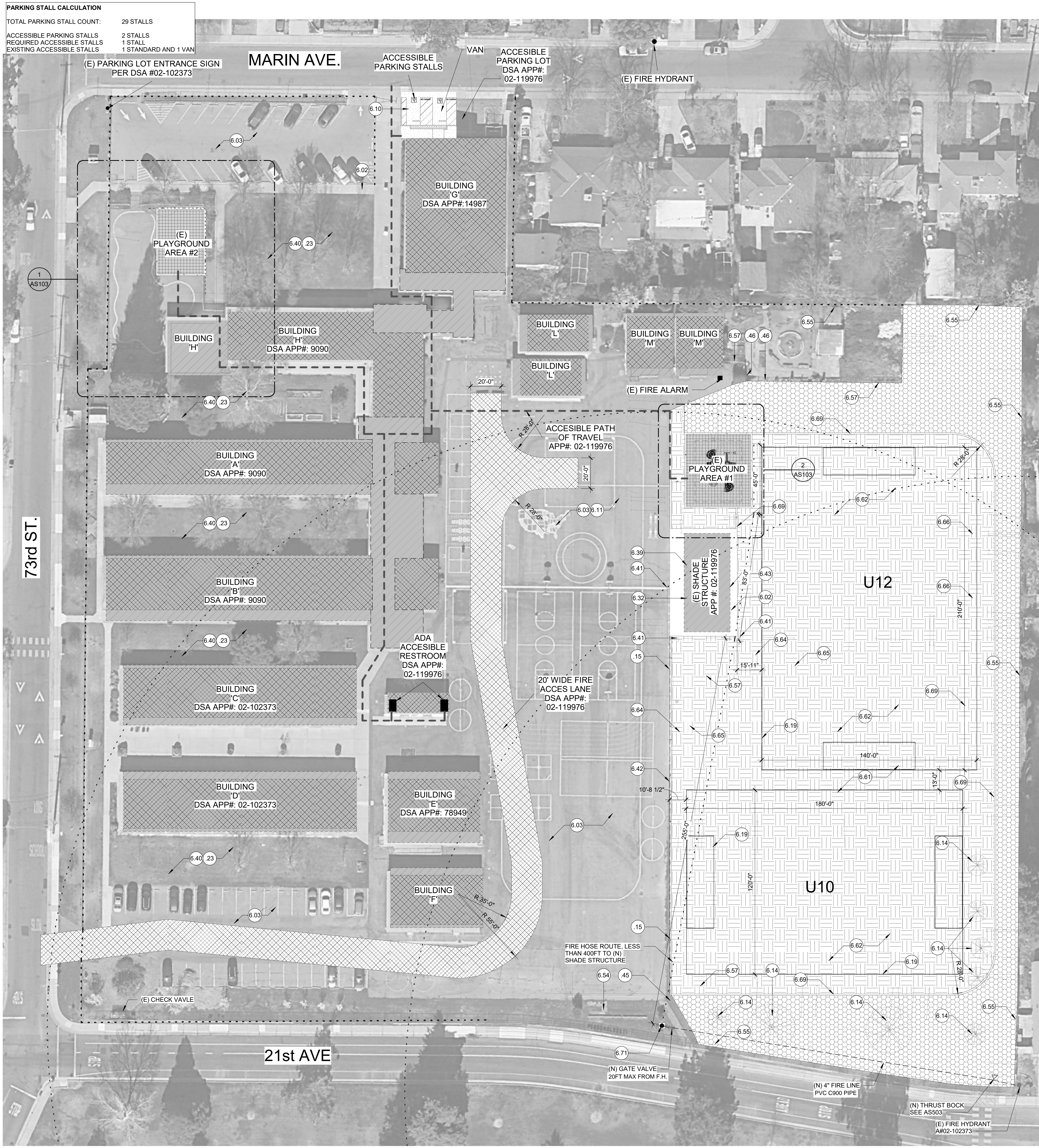
**DSA 810**  
**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED			
	Yes	No	N/A	N/R
4. Emergency vehicle access roadways do not meet CFC requirements.				<input checked="" type="checkbox"/>
4a. <b>Acceptable Alternate:</b> Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				<input checked="" type="checkbox"/>
5. Fire Hydrants: Number and spacing does not meet CFC requirements.				<input checked="" type="checkbox"/>
5a. <b>Acceptable Alternate:</b> Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				<input checked="" type="checkbox"/>
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.				<input checked="" type="checkbox"/>
6a. <b>Acceptable Alternate:</b> The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				<input checked="" type="checkbox"/>
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				<input checked="" type="checkbox"/>
7a. <b>Acceptable Alternate:</b> The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				<input checked="" type="checkbox"/>

**School District Acceptance of Acceptable Design Alternates**  
 By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	
LFA Reviewer's Signature:	Date:



**1 OVERALL ARCHITECTURAL SITE PLAN**  
 1" = 30'-0"

**Path of Travel, Technical Requirements for Accessible Route**  
 Accessible Path of travel as indicated on plan is a barrier-free access route without abrupt level changes exceeding 1/2" if beveled at 1:2 maximum slope or vertical level changes not exceeding 1/4" maximum and at least 48" in width. Surface is stable, firm, and slip-resistant. Cross-slope shall not be steeper than 1:48 and slope in the direction of travel shall not be steeper than 1:20. Accessible path of travel shall be maintained free of overhanging obstructions to 80" minimum and free of objects protruding more than 4" from the wall, above 27" and less than 80" above the floor. Architect shall verify that there are no barriers in the path of travel.

**Design Professional in General Responsible Charge Statement:** The POT identified in these construction documents meets the requirements of the current applicable California Building Code (CBC) accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be non-compliant with the CBC have been identified and the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any non-compliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are indicated in these construction documents.  
 During construction, if POT items within the scope of the project represented as CBC compliant are found to be nonconforming beyond reasonable construction tolerances, the items shall be brought into compliance with the CBC as a part of this project by means of a construction change document.

**GENERAL NOTES**

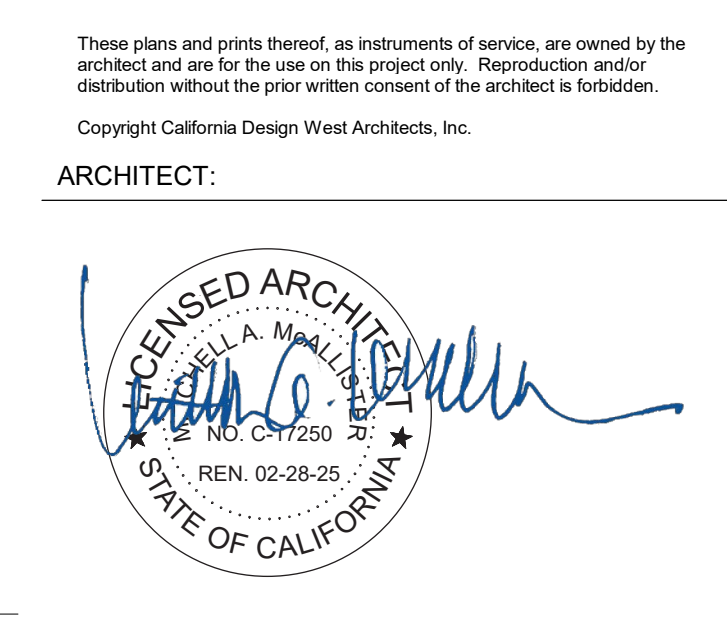
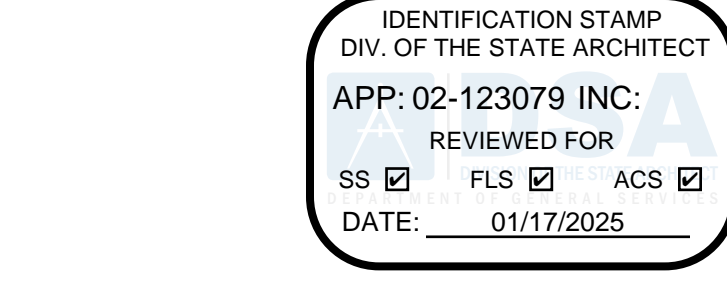
- PROTECT EDGES OF EXISTING PAVING TO REMAIN. EXISTING ADJACENT CONCRETE PAVING, BUILDINGS AND BUILDING COMPONENTS SHALL REMAIN CLEAN.
- ALL REPLACEMENT PAVING IN OPEN COURTYARD AREAS SHALL MAINTAIN 2% MAXIMUM SLOPE IN ANY DIRECTION. REFER TO CIVIL.
- REFER TO ENLARGED PLAN CALLOUTS FOR INFORMATION WITHIN THE CALLOUT BUBBLE.
- REFER TO OVERALL ARCHITECTURAL SITE PLAN FOR GATE TAGS AND GATE CALLOUTS. REFER TO SPECS FOR GATE HARDWARE.

**LEGEND**

- EXISTING CAMPUS BUILDINGS N.I.C. UNLESS OTHERWISE NOTED.
- EXISTING BUILDING CANOPY / OVERHANG N.I.C.
- RUBBER PLAYGROUND FALL-PROTECTION ASSEMBLY OVER DEPRESSED CONCRETE SLAB. COORDINATE HEIGHT WITH CRITICAL FALL-HEIGHT PROTECTION REQUIRED. REFER TO CIVIL FOR DRAINAGE.
- KEYED NOTE. MAY SKIP NUMBERS. REFER TO KEYED NOTES SCHEDULE. KEYED NOTE TAGS W/O LEADER APPLIES TO ENTIRE ROOM (OR SURFACE) IN WHICH (ON WHICH) THE TAG IS LOCATED. NOT EVERY COMPONENT IS TAGGED. IF NOTE INDICATES TYPICAL, THE NOTE APPLIES TO ALL MATCHING / REPEATING GRAPHICAL SYMBOLS.
- NEW ASPHALT PAVING OVER AGG BASE OVER PREPARED SUB GRADE - U.O.N. REFER TO CIVIL FOR VARYING SECTION LOCATIONS AND REQUIRED SUB-GRADE PREPARATION.
- (E) PLAY STRUCTURE AREA TO BE DEMOLISHED. REMOVE ALL WOOD CHIP FALL PROTECTION. GRADE FOR NEW WORK. REFER TO CIVIL.
- CONCRETE OVER AGG BASE OVER PREPARED SUB-GRADE, TYP. REFER TO CIVIL FOR TYPICAL PAVING SECTIONS AND REINFORCING. SHADED AREA TO BE COLORED / PIGMENTED.
- CONTROL JOINTS APPROXIMATELY 6'-7.5" O.C. EQUALLY SPACED AT EACH AREA, TYP. (THINNER LINES)
- EXPANSION JOINT, TYP. (HEAVIER LINES)
- GRADE AND REPAIR LANDSCAPE TO MATCH EXISTING ADJACENT LANDSCAPE. MINIMIZE DAMAGE WHERE ADJACENT TO NEW WORK. REVERSE EXISTING IRRIGATION TO EDGE OF NEW WORK WHERE IMPACTED. REFER TO KEYED NOTE AND TO LANDSCAPE DRAWINGS.
- GRADE AND REPAIR LANDSCAPE, BARK MUCH ONLY TO MATCH EXISTING LANDSCAPE. REVERSE EXISTING IRRIGATION TO EDGE OF NEW WORK WHERE IMPACTED. REFER TO KEYED NOTE AND TO LANDSCAPE DRAWINGS.
- PROTECT EXISTING TREE ASSEMBLY TO REMAIN, TYP. STAY AWAY FROM ROOT SYSTEM. USE EXTREME CAUTION TO WORK AROUND (E) TREE ROOTS TO REMAIN WHERE REQUIRED.

**1.00 KEYED NOTES**

- SAW-CUT AS REQUIRED ALONG (E) PAVING TO REMAIN. PROTECT EDGE.
- LANDSCAPE AREA TO REMAIN, U.O.N.
- PROTECT (E) CHAIN-LINK FENCING ASSEMBLY TO REMAIN.
- (E) CHAIN-LINK FENCE GATE
- (E) CONCRETE WALKWAYS TO REMAIN.
- (E) AC PAVING TO REMAIN.
- (E) COMPLIANT ADA PARKING PER DSA APPLICATION REFER TO POT GENERAL NOTES.
- PROVIDE CRACK-FILL AND SEAL COAT. CLEAN AND FILL MINOR ALL CRACKS IN ASPHALT. MAJOR CRACKS AND DEFECTS (OVER 1-1/2" IN WIDTH) TO BE CUT OUT AND REPAIRED AS SPECIFIED. BID ALTERNATE: PROVIDE AC OVERLAY. GRIND/REMOVE AND REPLACE TOP 2" OF (E) AC PAVING. REFER TO CIVIL.
- (E) TREE TO REMAIN, NOT PROTECTED SPECIE.
- NEW STRIPING AS INDICATED FOR SOCCER FIELD, TYP. CONTRACTOR TO PROVIDE STRIPING PLAN SUBMITTAL FOR REVIEW PRIOR TO PERFORMING WORK, NOT PART OF THE SCOPE OF WORK.
- PROTECT (E) BUILDING COLUMN TO REMAIN.
- (E) BUILDING TO REMAIN.
- (E) GRASS AREA. COMPLETELY REMOVE, REGRADE, AMMEND, AND PROVIDE NEW IRRIGATION AND NEW PLANTING PER LANDSCAPE DRAWINGS AND SPECS.
- (E) UTILITY BOX TO BE DEMOLISHED AND REPLACED. HOOKED UP TO NEW IRRIGATION LINE, TYP. TOP OF BOX TO BE FLUSH WITH NEW WORK. ADJUST BOX ELEVATION AS REQUIRED TO BE FLUSH WITH NEW WORK. REFER TO CIVIL AND LANDSCAPE PROJECT.
- (N) 12" WIDE x 6" THICK CONCRETE CURB W(2) CONT. #4 REBAR. TOP OF CURB TO BE FLUSH WITH (E) AC PAVING SURFACE.
- (E) SHADE STRUCTURE / BUILDING CANOPY PROJECTION (ABOVE) TO REMAIN.
- PROTECT (E) OUTDOOR BENCH TO REMAIN
- PROTECT (E) CHAIN-LINK FENCING ASSEMBLY. REMOVE, SALVAGE AND REINSTALL FENCE FABRIC AS NECESSARY TO PERFORM WORK. PROVIDE NEW BRACKETS AND CONNECTION HARDWARE FOR REINSTALLED FABRIC.
- DEMOLISH (E) CHAIN-LINK BACKSTOP ASSEMBLY. REMOVE AND DISPOSE OF ALL FABRIC, POSTS, AND ENTIRE FOOTINGS. BACKFILL AND COMPACT FOOTING CAVITIES.
- NEW IRRIGATION SYSTEM AT TURF PLAY AREA, TYP. REFER TO LANDSCAPE.
- (E) TURF PLAY AREA TO BE STRIPPED / GRUBBED AND AMMENDED AND PREPARED TO RECEIVE NEW SOG AND IRRIGATION. REFER TO LANDSCAPE. REFER TO KEYED NOTES FOR (E) TREES AND COMPONENTS TO REMAIN AND TO BE PROTECTED.
- DEMOLISH (E) BENCH ASSEMBLY. BACKFILL AND COMPACT FOOTING CAVITIES.
- DEMOLISH (E) CHAIN-LINK FENCING ASSEMBLY. REMOVE AND DISPOSE OF ALL FABRIC, POSTS, AND ENTIRE FOOTINGS. BACKFILL AND COMPACT FOOTING CAVITIES.
- DEMOLISH / REMOVE (E) TREE AND ASSOCIATED ROOT SYSTEM.
- (N) 12" CONCRETE MOW STRIP ALONG THE NEW PATHWAY, TYP. REFER TO CIVIL. REFER TO LANDSCAPE.
- (N) FIRE HYDRANT INSTALLED PER SACRAMENTO COUNTY STANDARDS ON (N) 24X24 CONC. PAD SEE SHEET AS503 FOR DETAILS.



PROJECT NAME:  
**JOSEPH BONNHEIM ELEMENTARY SCHOOL**

7300 MARIN AVE  
 SACRAMENTO, CA 95820

**PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE  
 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:  
 SHEET TITLE:  
**OVERALL ARCHITECTURAL SITE PLAN**

JOB NUMBER: \_\_\_\_\_ SHEET NUMBER:  
 DATE: DEC 20 2024  
 REVISION:  
**AS100**

**GENERAL NOTES**

- PROTECT EDGES OF EXISTING PAVING TO REMAIN. EXISTING ADJACENT CONCRETE PAVING, BUILDINGS AND BUILDING COMPONENTS SHALL REMAIN CLEAN.
- ALL REPLACEMENT PAVING IN OPEN COURTYARD AREAS SHALL MAINTAIN 2% MAXIMUM SLOPE IN ANY DIRECTION. REFER TO CIVIL.
- REFER TO ENLARGED PLAN CALLOUTS FOR INFORMATION WITHIN THE CALLOUT BUBBLE.
- REFER TO OVERALL ARCHITECTURAL SITE PLAN FOR GATE TAGS AND GATE CALLOUTS. REFER TO SPECS FOR GATE HARDWARE.

**LEGEND**

- EXISTING CAMPUS BUILDINGS N.I.C. UNLESS OTHERWISE NOTED.
- EXISTING BUILDING CANOPY / OVERHANG N.I.C.
- RUBBER PLAYGROUND FALL-PROTECTION ASSEMBLY OVER DEPRESSED CONCRETE SLAB. COORDINATE HEIGHT WITH CRITICAL FALL-HEIGHT PROTECTION REQUIRED. REFER TO CIVIL FOR DRAINAGE.
- KEYED NOTE. MAY SKIP NUMBERS. REFER TO KEYED NOTES SCHEDULE. KEYED NOTE TAGS W/O LEADER APPLIES TO ENTIRE ROOM (OR SURFACE) IN WHICH (ON WHICH) THE TAG IS LOCATED. NOT EVERY COMPONENT IS TAGGED - IF NOTE INDICATES, TYPICAL, THE NOTE APPLIES TO ALL MATCHING / REPEATING GRAPHICAL SYMBOLS.
- NEW ASPHALT PAVING OVER AGG BASE OVER PREPPED SUB GRADE - U.O.N. REFER TO CIVIL FOR VARYING SECTION LOCATIONS AND REQUIRED SUB-GRADE PREPARATION.
- (E) PLAY STRUCTURE AREA TO BE DEMOLISHED. REMOVE ALL WOOD CHIP FALL PROTECTION. GRADE FOR NEW WORK. REFER TO CIVIL.
- CONCRETE OVER AGG BASE OVER PREPPED SUB-GRADE, TYP. REFER TO CIVIL FOR TYPICAL PAVING SECTIONS AND REINFORCING. SHADDED AREA TO BE COLORED / PIGMENTED.
- CONTROL JOINTS APPROXIMATELY 6'-7.5' O.C. EQUALLY SPACED AT EACH AREA, TYP. (THINNER LINES)
- EXPANSION JOINT, TYP. (HEAVIER LINES)
- GRADE AND REPAIR LANDSCAPE TO MATCH EXISTING ADJACENT LANDSCAPE. MINIMIZE DAMAGE WHERE ADJACENT TO NEW WORK. REVISE EXISTING IRRIGATION TO EDGE OF NEW WORK WHERE IMPACTED. REFER TO KEYED NOTE AND TO LANDSCAPE DRAWINGS.
- GRADE AND REPAIR LANDSCAPE. BARK MICH ONLY TO MATCH EXISTING LANDSCAPE. REVISE EXISTING IRRIGATION TO EDGE OF NEW WORK WHERE IMPACTED. REFER TO KEYED NOTE AND TO LANDSCAPE DRAWINGS.
- PROTECT EXISTING TREE ASSEMBLY TO REMAIN, TYP. STAY AWAY FROM ROOT SYSTEM. USE EXTREME CAUTION TO WORK AROUND (E) TREE ROOTS TO REMAIN WHERE REQUIRED.

**KEYED NOTES**

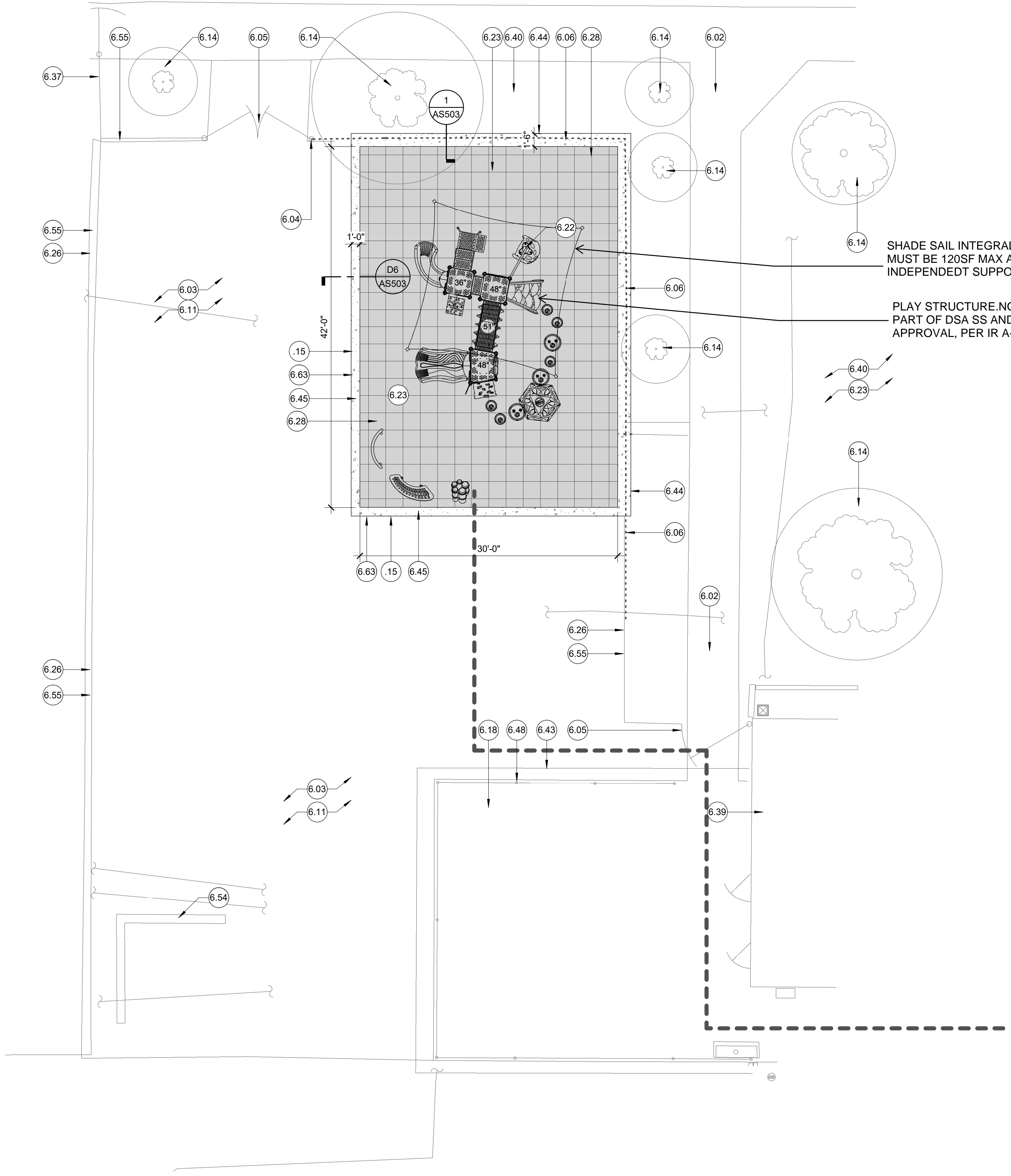
- SAW-CUT AS REQUIRED ALONG (E) PAVING TO REMAIN. PROTECT EDGE.
- PROTECT (E) UG UTILITY TO REMAIN. NGS TO REMAIN. PROTECT EDGE.
- (E) CONCRETE WALKWAYS TO REMAIN.
- (E) AC PAVING TO REMAIN.
- (E) FENCING GATE POST / CORNER POST REMAIN.
- (E) GATES TO REMAIN.
- (E) 6' HIGH CHAINLINK FENCING ASSEMBLY. REMOVE, SALVAGE AND REINSTALL GATES AND FENCE FABRIC AFTER NEW CONCRETE WORK IS COMPLETE WHERE REQUIRED FOR WORK. PROVIDE NEW CONNECTION HARDWARE, TYP. (E) POSTS TO REMAIN. EXTEND POSTS (IF NECESSARY) TO NEW FENCE HEIGHT AT NEW GRADES. REFER TO CIVIL.
- PROVIDE CRACK-FILL AND SEAL COAT. CLEAN AND FILL MINOR ALL CRACKS IN ASPHALT. MAJOR CRACKS AND DEFECTS (OVER 1-1/2" IN WIDTH) TO BE CUT OUT AND REPAIRED AS SPECIFIED. BID ALTERNATE: PROVIDE AC OVERLAY GRIND/REMOVE AND REPLACE TOP 2" OF (E) AC PAVING. REFER TO CIVIL.
- (E) TREE TO REMAIN, NOT PROTECTED SPECIE.
- (E) AC CONCRETE PAVING/SLOPE TO REMAIN.
- NEW PLAY STRUCTURE ASSEMBLY AND COMPONENTS.
- 3" POURED-IN-PLACE FALL PROTECTION ASSEMBLY OVER AGG BASE OVER PREPPED SUB GRADE. REFER TO CIVIL CONTRACTOR TO PROVIDE AND MAINTAIN TEMP FENCING AROUND PLAY AREA UNTIL PLAY EQUIPMENT AND PIP SURFACING IS COMPLETE.
- 3.3/4" POURED-IN-PLACE FALL PROTECTION ASSEMBLY OVER AGG BASE OVER PREPPED SUB GRADE. REFER TO CIVIL. CONTRACTOR TO PROVIDE AND MAINTAIN TEMP FENCING AROUND PLAY AREA UNTIL PLAY EQUIPMENT AND PIP SURFACING IS COMPLETE.
- PROVIDE MINOR GRADING AND PATCH BACK SOD ALONG EDGE OF PAVING WHERE GRASS AREA DISTURBED BY NEW WORK, TYP.
- NEW POURED-IN-PLACE FALL-PROTECTION AT PLAYGROUND AREA OVER AGG BASE OVER PREPPED SUB-GRADE. REFER TO CIVIL.
- PROTECT (E) BUILDING COLUMN TO REMAIN.
- (E) 6' ORNAMENTAL FENCING OVER 12"WIDE VARIABLE HEIGHT CURB, TYP.
- (E) BUILDING TO REMAIN.
- (E) GRASS AREA. COMPLETELY REMOVE, REGRADE, AMMEND, AND PROVIDE NEW IRRIGATION AND NEW PLANTING PER LANDSCAPE DRAWINGS AND SPECS.
- (E) UTILITY BOX TO BE DEMOLISHED AND REPLACED, HOOKED UP TO NEW IRRIGATION LINE, TYP. TOP OF BOX TO BE FLUSH WITH NEW WORK. ADJUST BOX ELEVATION AS REQUIRED TO BE FLUSH WITH NEW WORK. REFER TO CIVIL AND LANDSCAPE PROJECT.
- (N) 12" WIDE x 6" THICK CONCRETE CURB W/2) CONT. #4 REBAR. TOP OF CURB TO BE FLUSH WITH (E) AC PAVING SURFACE.
- (E) SHADE STRUCTURE / BUILDING CANOPY PROJECTION (ABOVE) TO REMAIN.
- (N) 18" WIDE x 12" THICK CONCRETE CURB W/4) CONT. #4 REBAR, AND HORIZ #4 BAR TIES AT 32" O.C., TYP. TOP OF CURB TO BE FLUSH WITH AC AND TOP OF P.I.P. SURFACING (BY OWNER). REFER TO CIVIL.
- (N) 12" WIDE x 12" THICK CONCRETE CURB W/4) CONT. #4 REBAR, AND HORIZ #4 BAR TIES AT 32" O.C., TYP. TOP OF CURB TO BE FLUSH WITH AC AND TOP OF P.I.P. SURFACING (BY OWNER). REFER TO CIVIL.
- PROTECT (E) STRUCTURAL COLUMN TO REMAIN, TYP.
- PROTECT (E) OUTDOOR BENCH TO REMAIN
- PROTECT (E) CHAINLINK FENCING ASSEMBLY. REMOVE, SALVAGE AND REINSTALL FENCE FABRIC AS NECESSARY TO PERFORM WORK. PROVIDE NEW BRACKETS AND CONNECTION HARDWARE FOR REINSTALLED FABRIC.
- (N) AC PAVING TO MATCH EXISTING CONCRETE PAVING LEVEL. REFER TO CIVIL.
- (E) TURF PLAY AREA TO BE STRIPPED / GRUBBED AND AMMENDED AND PREPPED TO RECEIVE NEW SOD AND IRRIGATION. REFER TO LANDSCAPE. REFER TO KEYED NOTES FOR (E) TREES AND COMPONENTS TO REMAIN AND TO BE PROTECTED.
- NEW CONCRETE EXPANSION JOINT ALONG TO THE NEW CONCRETE PAVING PERIMETER WHERE CONNECT WITH EXISTING OR NEW CONCRETE ELEMENTS
- (N) 12 FT. HEIGHT SHADE STRUCTURE ASSEMBLY, REFER TO CIVIL AND SHADE STRUCTURE PC DRAWINGS.

**BUILDING FUNCTION:** SHADE STRUCTURE OVER PLAY EQUIPMENT  
**BUILDING USE CLASSIFICATION (SECTION 302):**  
 BUILDING OCCUPANCY: GROUP E  
**TYPE OF CONSTRUCTION (TABLE 601):**  
 TYPE II-B:  
 FIRE-RESISTANCE RATING REQUIREMENTS:  
 0-HR PRIMARY STRUCTURE

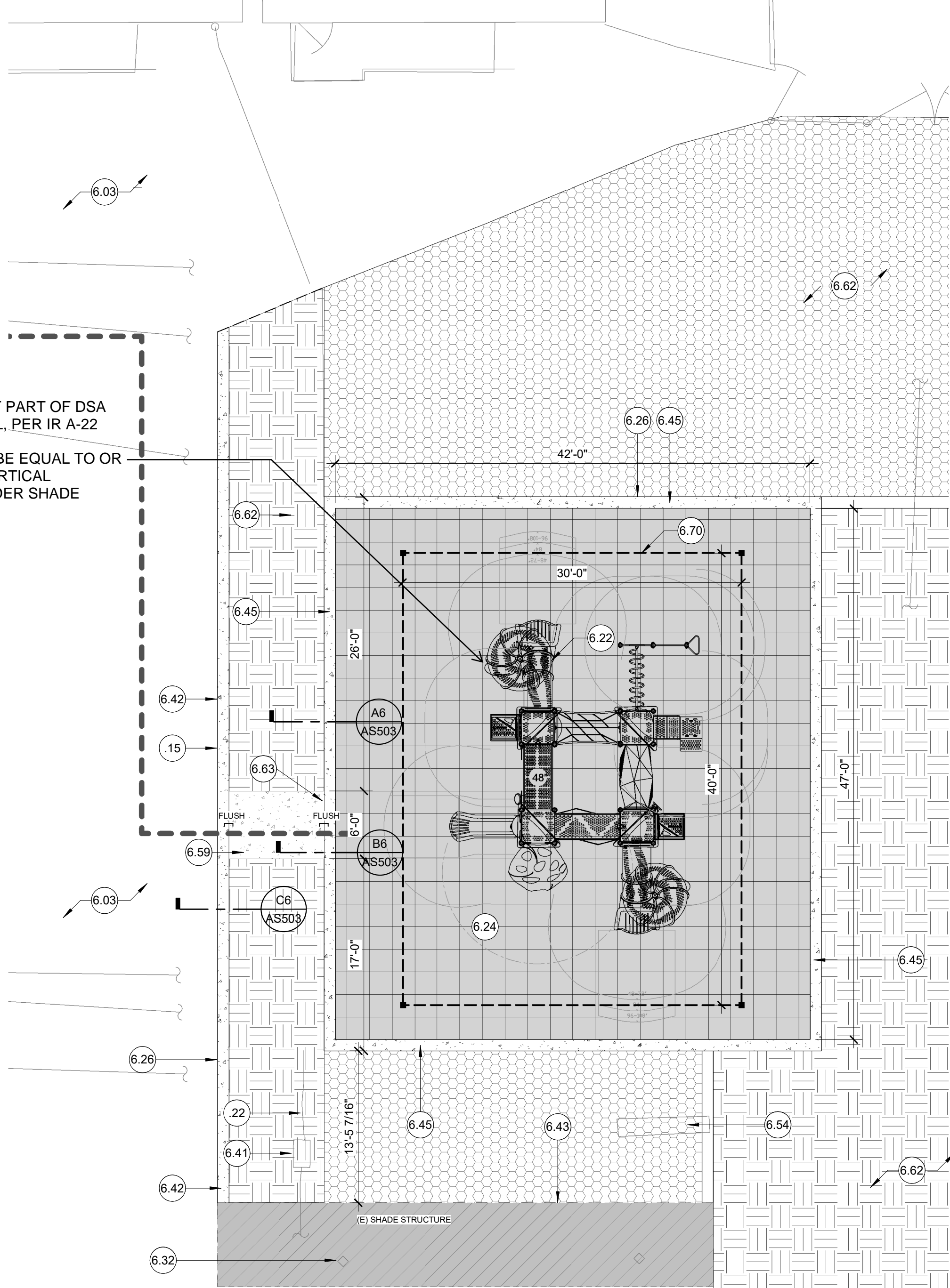
**CHAPTER 5 - BUILDING HEIGHT AND AREA (TABLE 504.3 & 506.2):**  
 OCCUPANCY CLASS E, CONST. TYPE II-B:  
 NO FIRE SPRINKLERS  
 WITHOUT AREA INCREASE  

ALLOWABLE:	ACTUAL DESIGN:
CLASS E	20' HEIGHT
40' HEIGHT	1 STORY
1 STORY	1,200 GSF
9,500 GSF	

**DSA IR 31-1 FREE-STANDING OPEN-SIDED SHADE STRUCTURE:**  
 9.2: OCCUPANT LOAD 1/20 SF  
 1200 SF / 20 = 60 OCCUPANTS



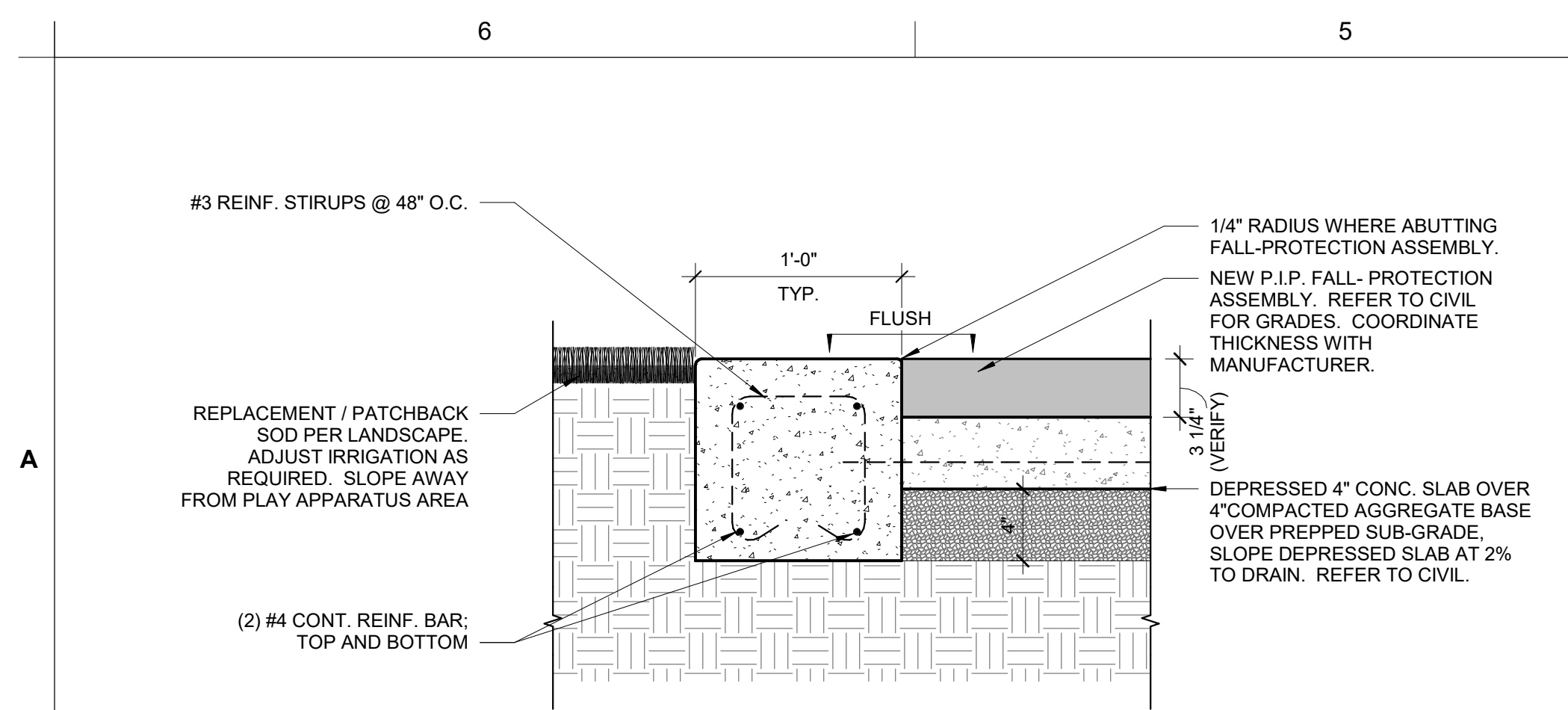
**1 KINDER APPARATUS AREA ENLARGED ARCH'L SITE PLAN**  
 1/8" = 1'-0"  
 NORTH



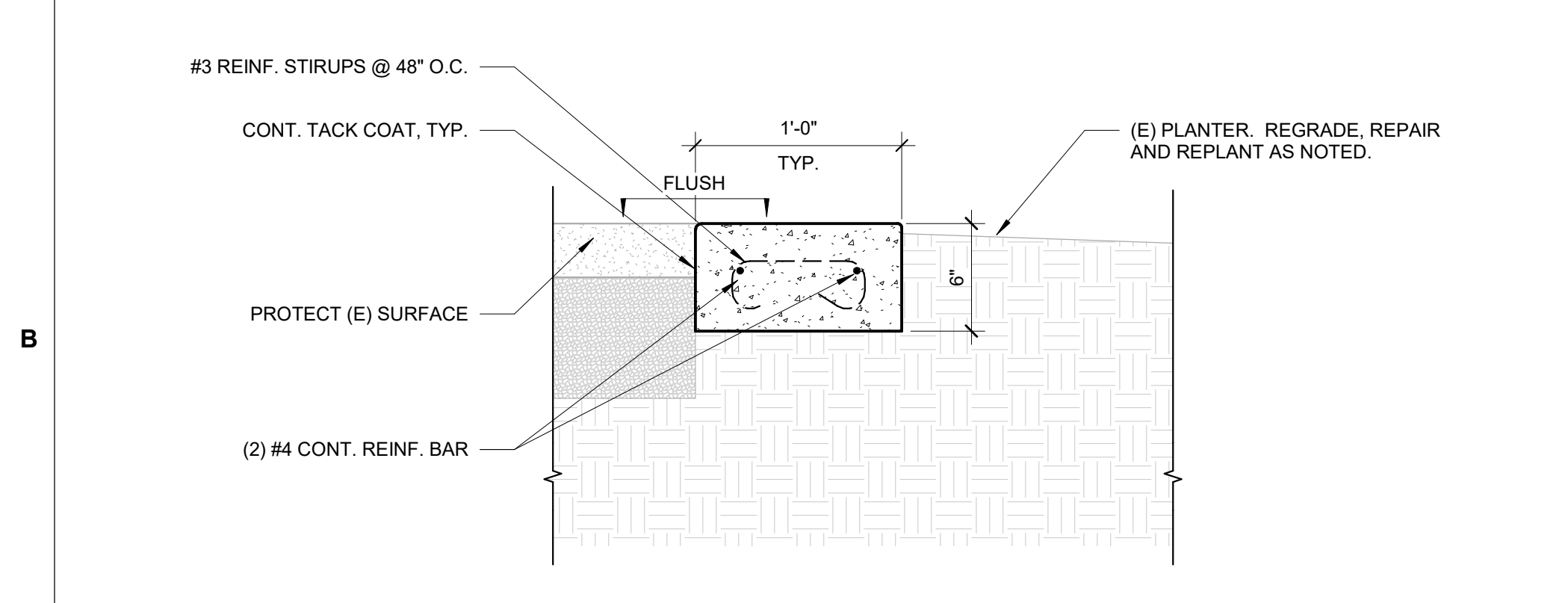
**2 MAIN PLAY APPARATUS ENLARGED ARCH'L SITE PLAN**  
 1/8" = 1'-0"  
 NORTH

PLAY STRUCTURE, NOT PART OF DSA  
 SS AND FLS APPROVAL, PER IR A-22  
 PLAY STRUCTURE TO BE EQUAL TO OR  
 LESS THAN 50% OF VERTICAL  
 PROJECTED AREA UNDER SHADE  
 STRUCTURE

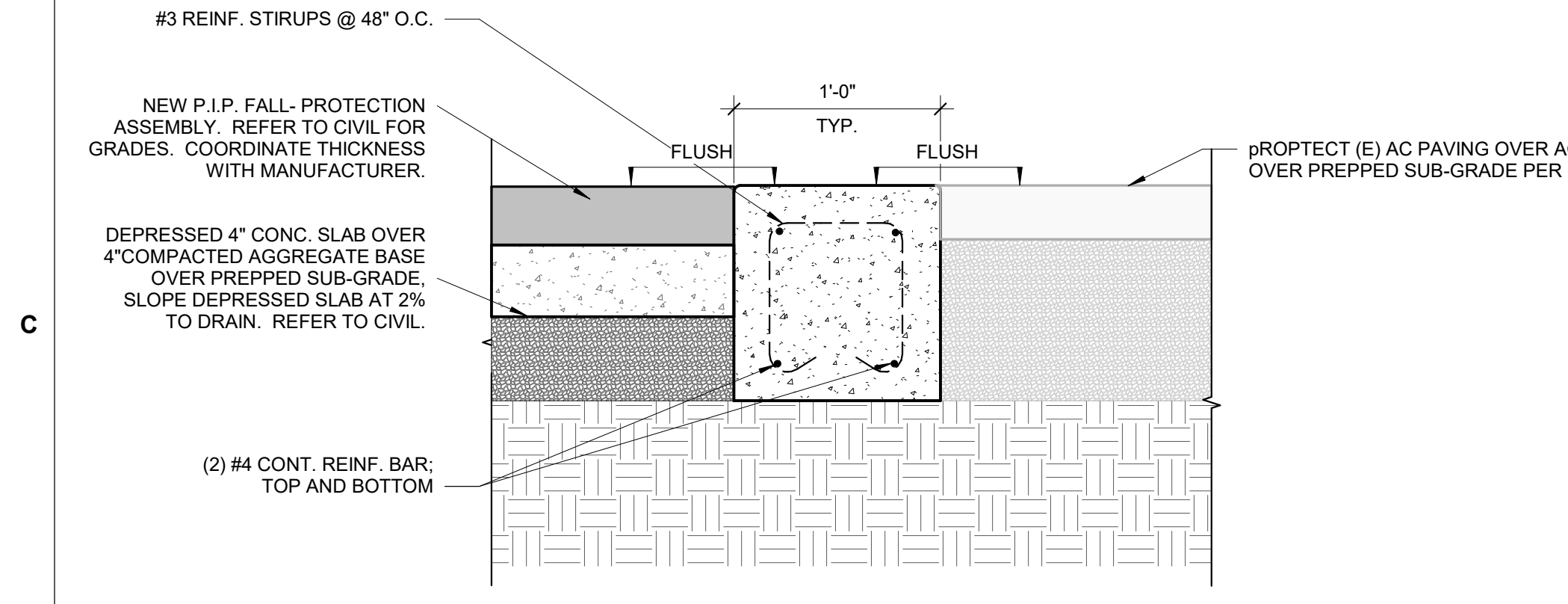
SHADE SAIL INTEGRAL WITH PLAY STRUCTURE  
 MUST BE 120SF MAX AND SELF SUPPORTED BY  
 INDEPENDENT SUPPORT STRUCTURE.  
 PLAY STRUCTURE, NOT  
 PART OF DSA SS AND FLS  
 APPROVAL, PER IR A-22



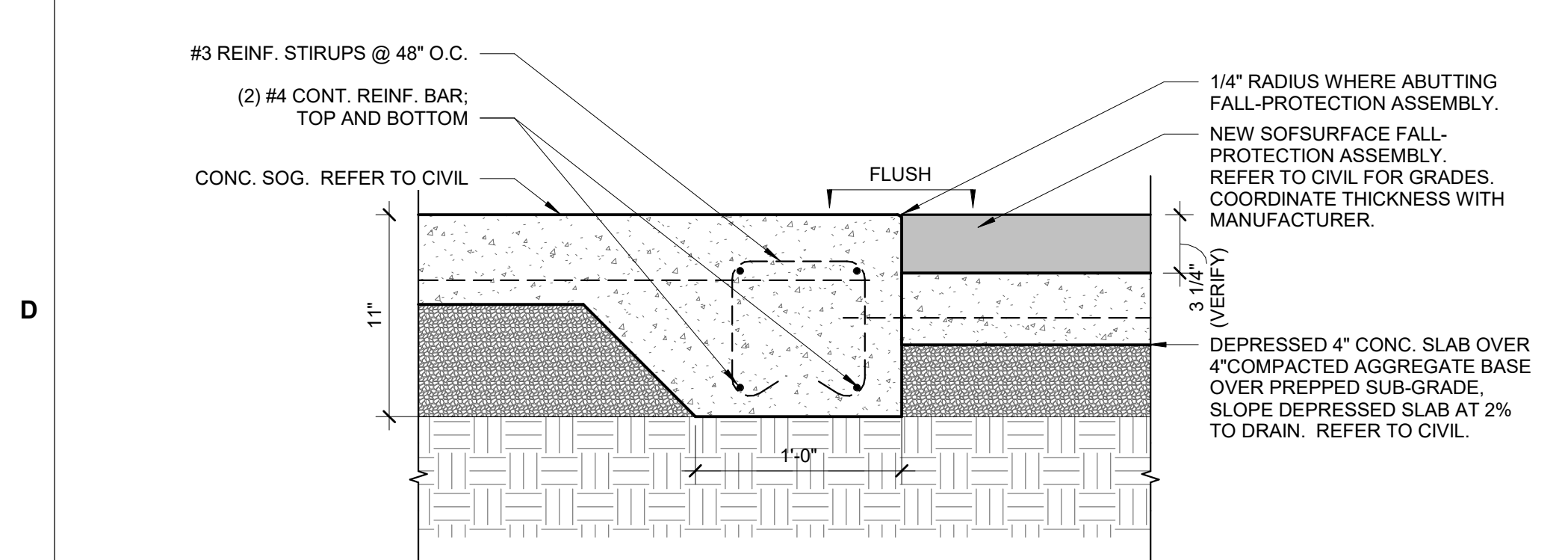
**A6** 12" CURB @ SOFSURFACE PLAY AREA TO SOD  
1 1/2" = 1'-0"



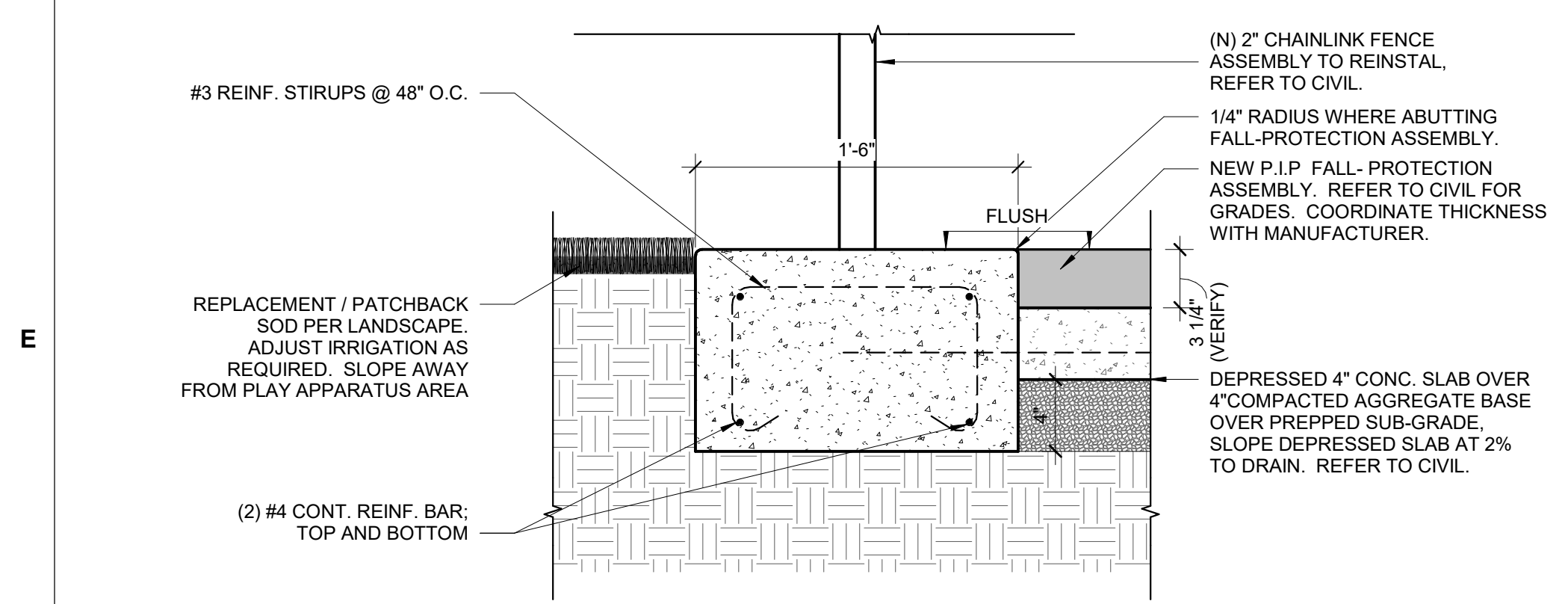
**B** 12" CURB @ EC PAVING TO SOD  
1 1/2" = 1'-0"



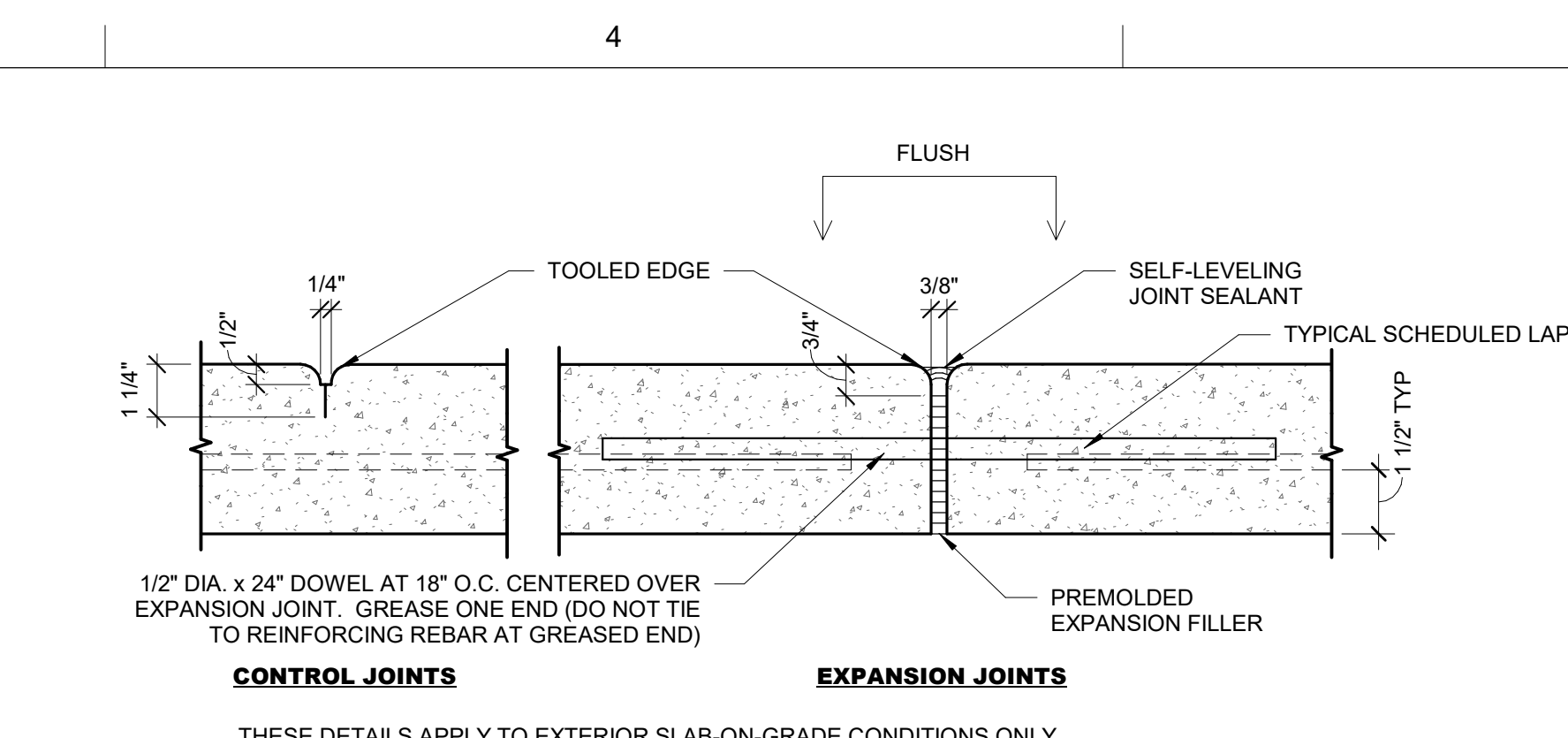
**C** 12" CURB @ AC AND D.G.  
1 1/2" = 1'-0"



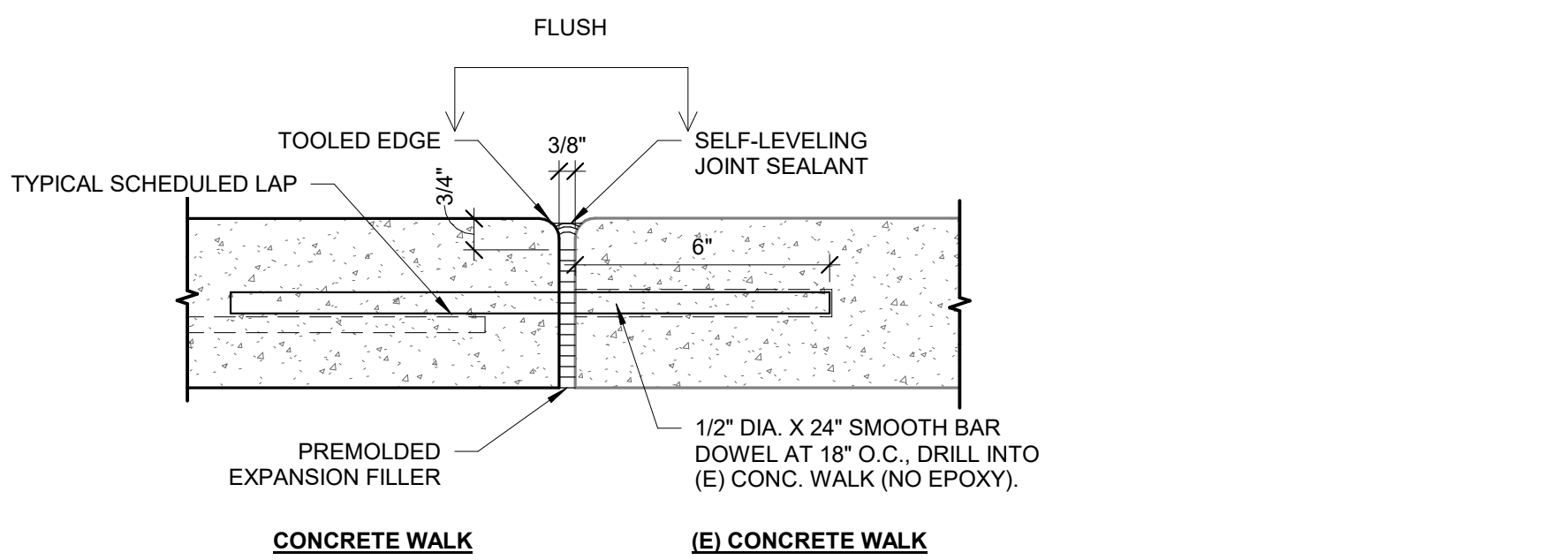
**B6** SOFSURFACE PLAY AREA TO CONC.  
1 1/2" = 1'-0"



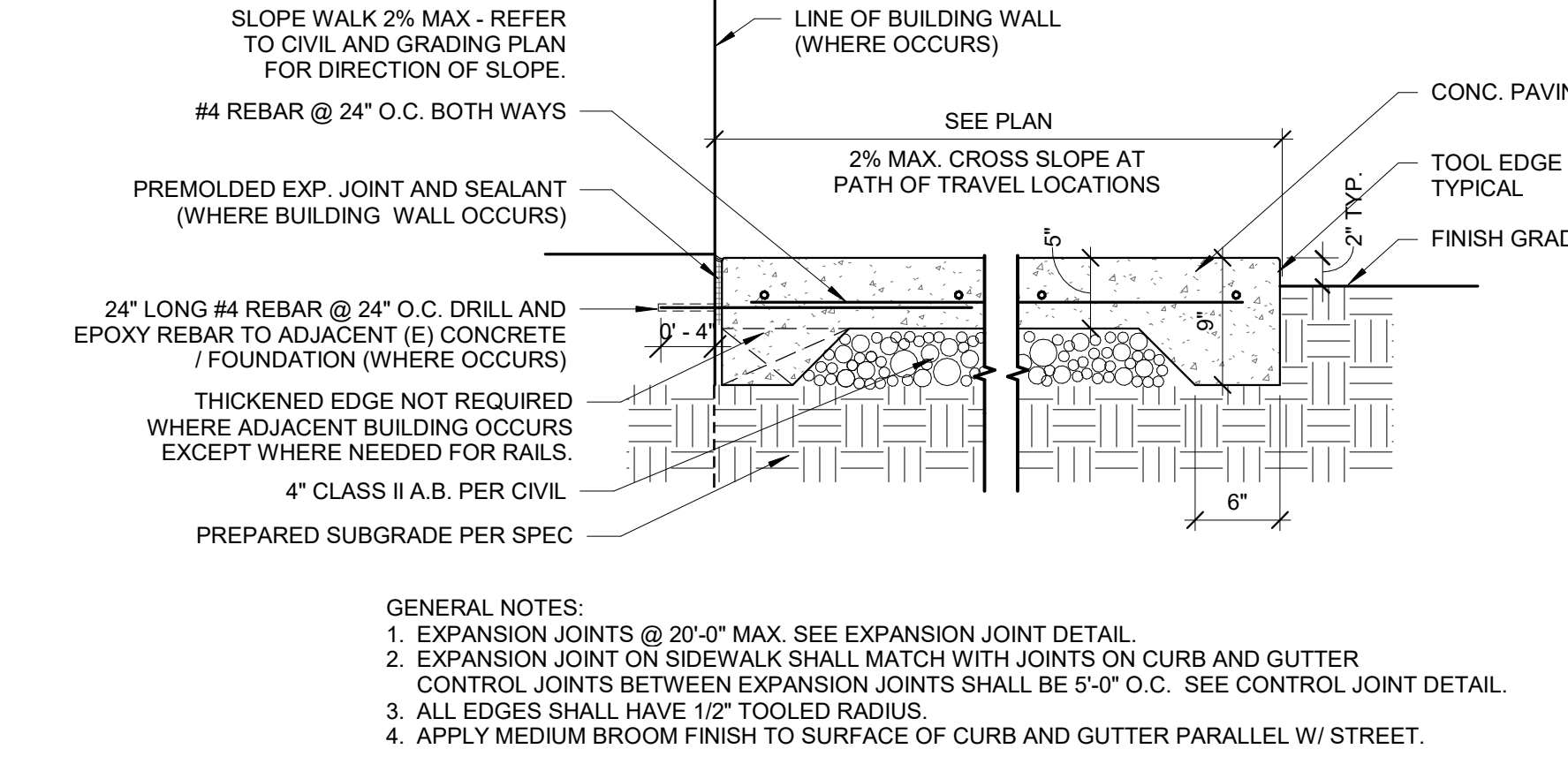
**1** 18" CURB @ SOFSURFACE PLAY AREA TO SOD FENCING  
1 1/2" = 1'-0"



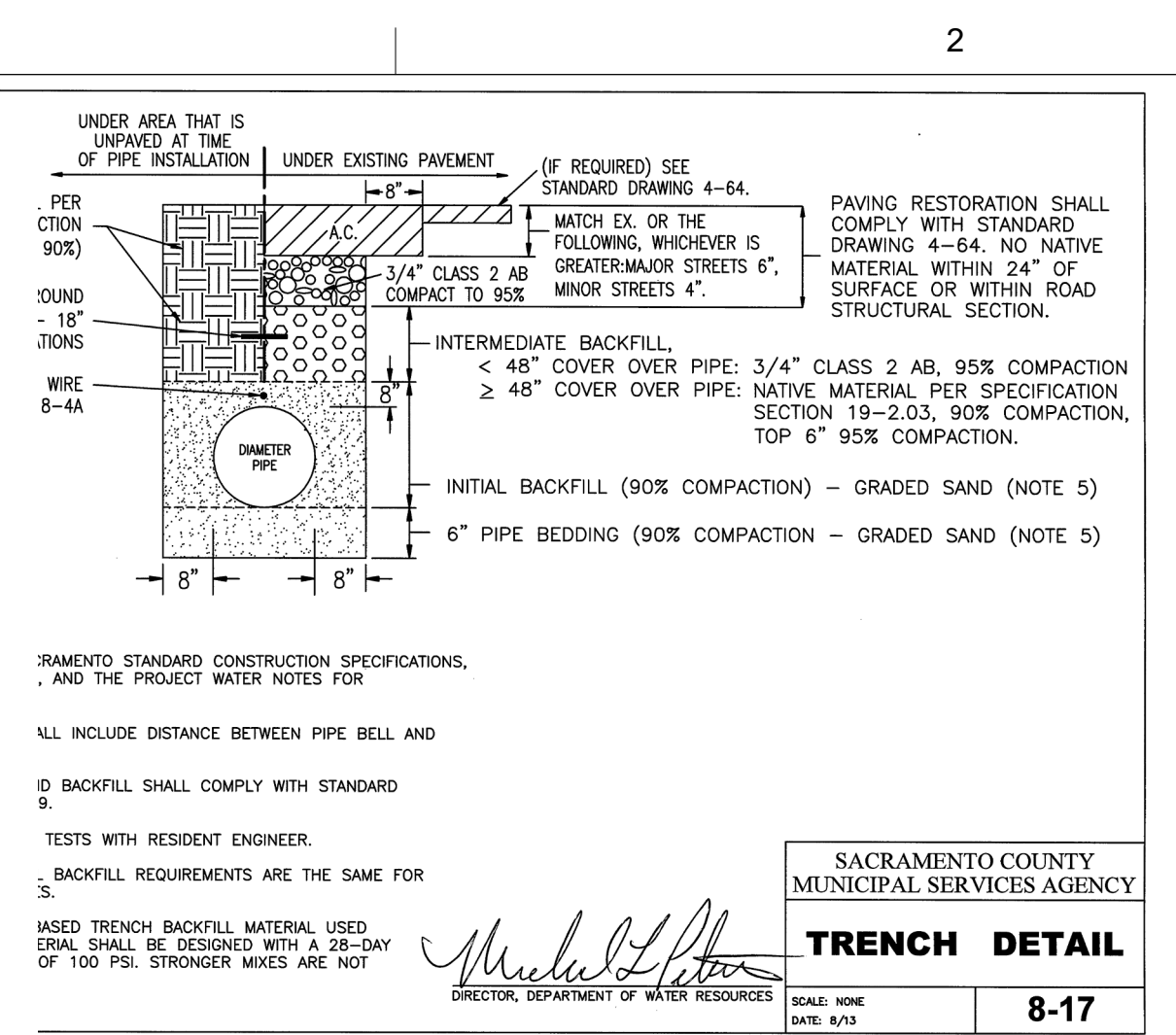
**E5** TYP. CONCRETE JOINTS  
3" = 1'-0"



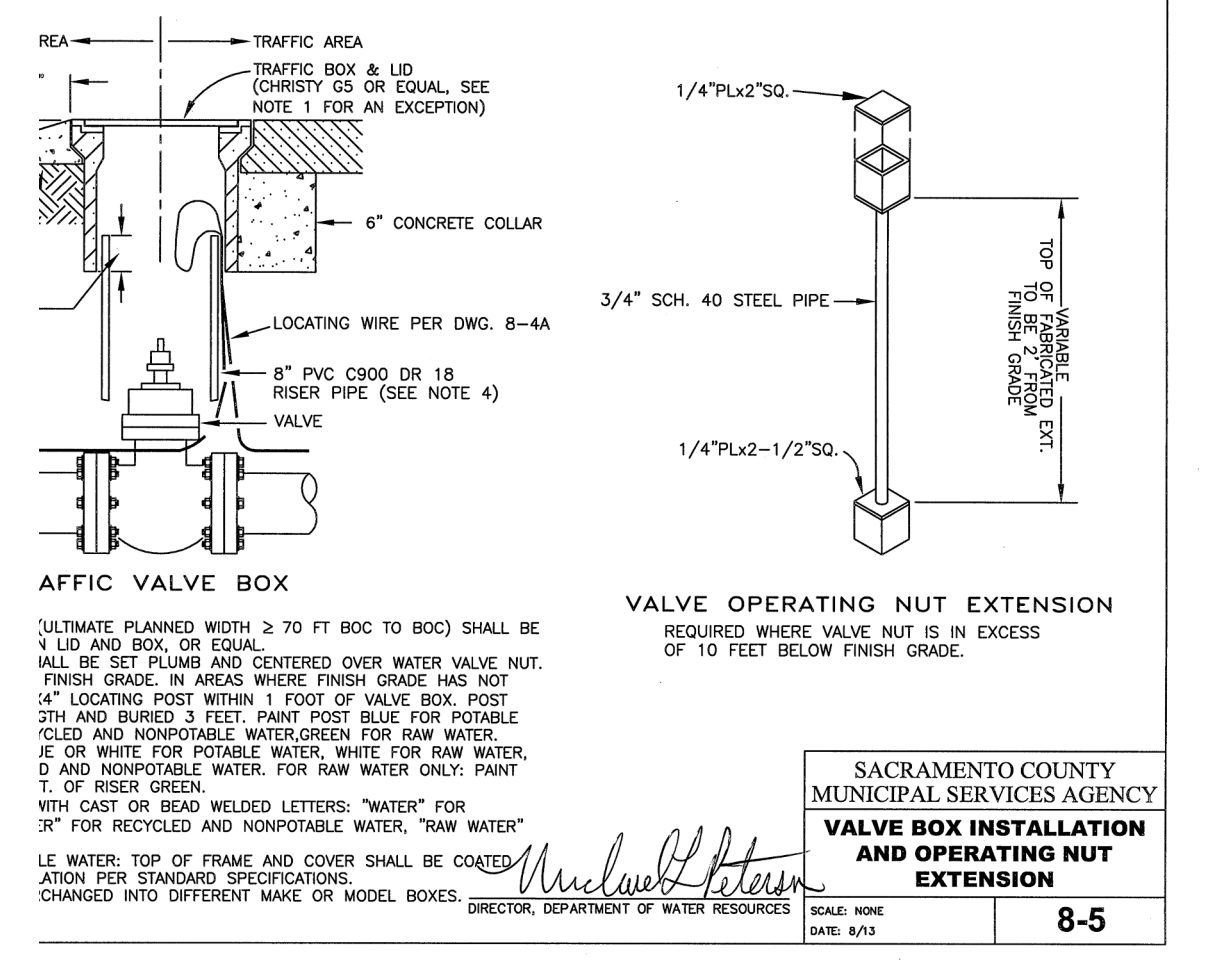
**E3** EXPANSION JOINT TO (E) CONC.  
3" = 1'-0"



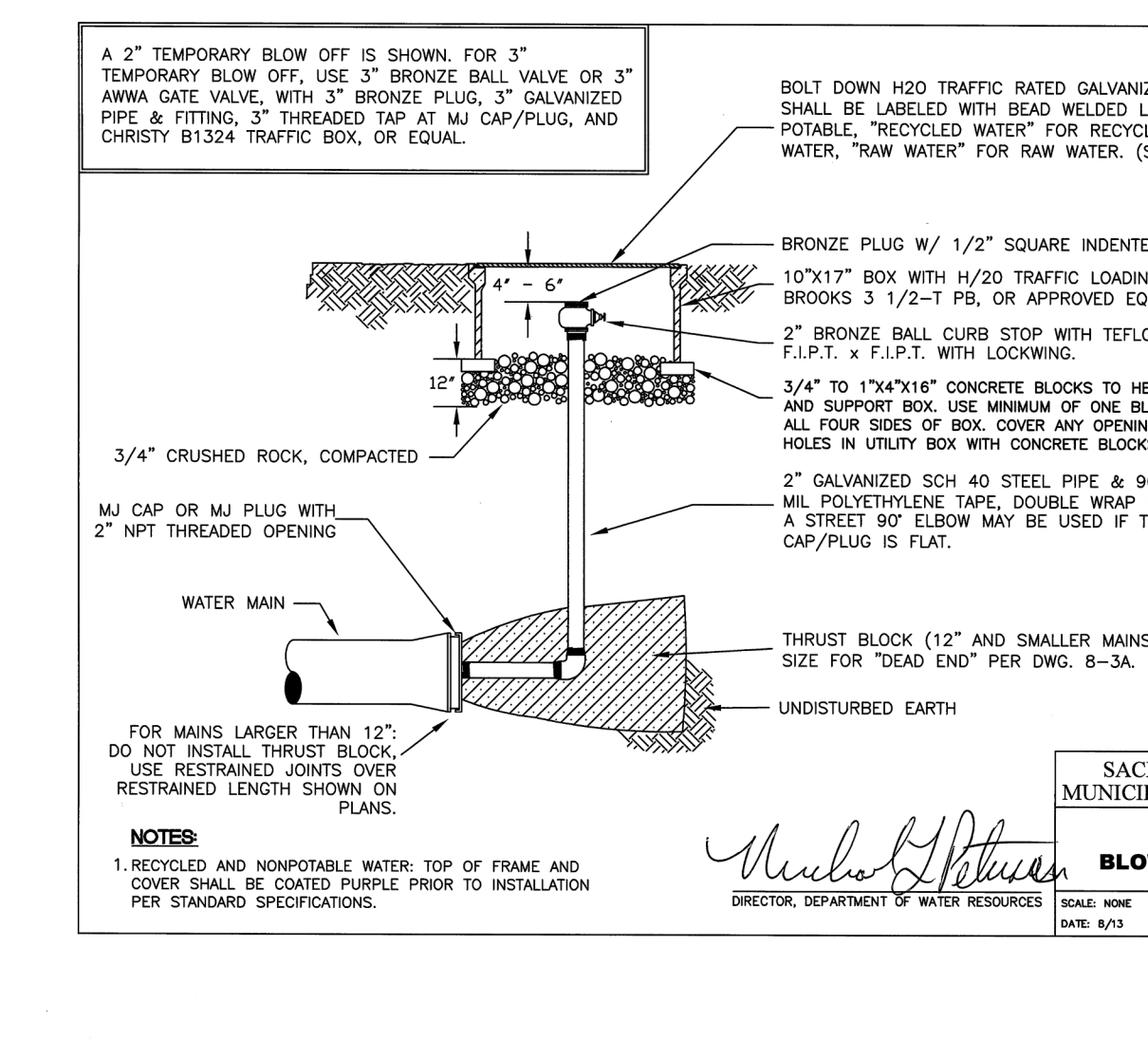
**E2** TYP CONC. PAVING  
1" = 1'-0"



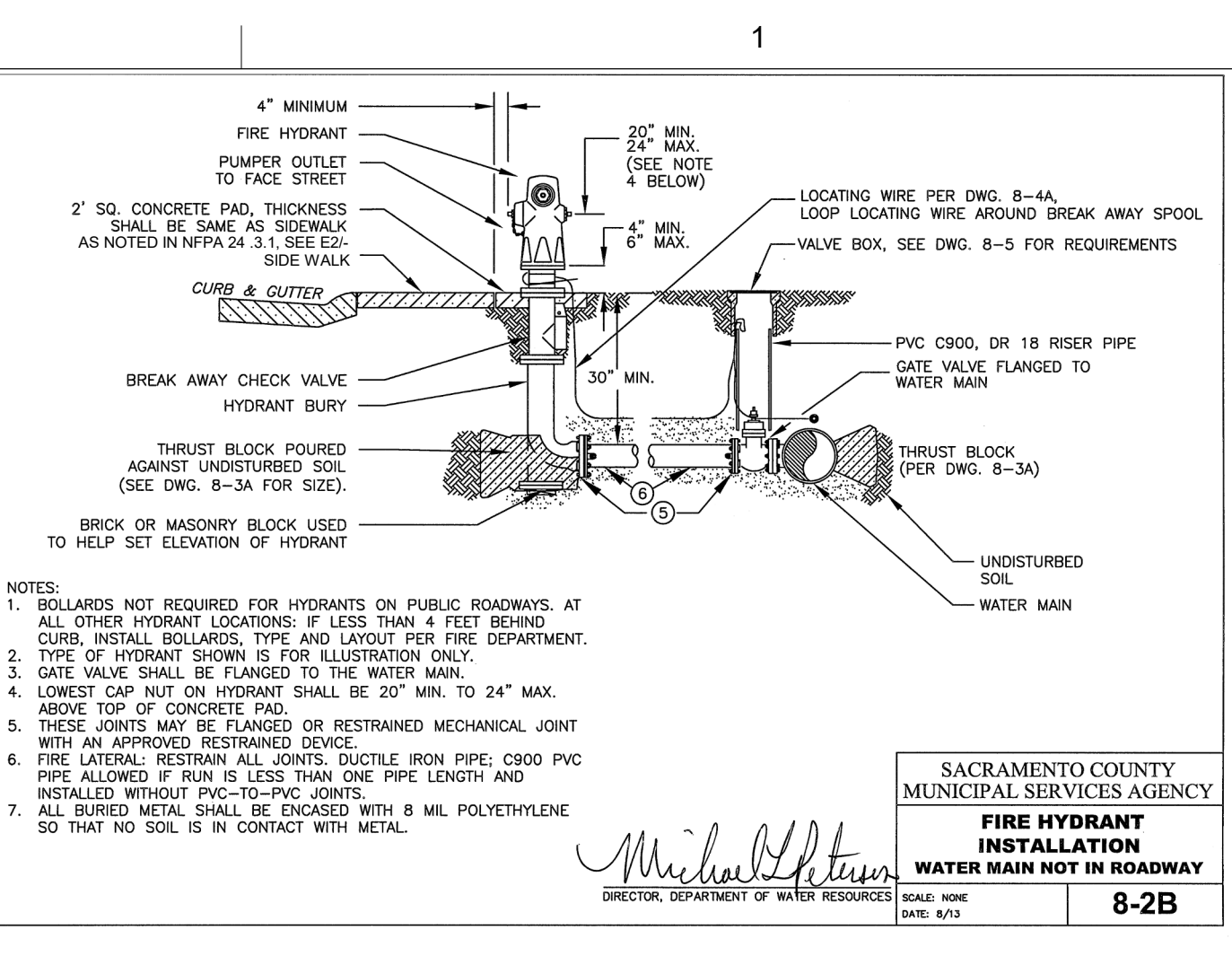
**8-17** TRENCH DETAIL



**8-5** VALVE BOX INSTALLATION AND OPERATING NUT AND EXTENSION



**8-12** TEMPORARY BLOW OFF ASSEMBLY



**8-2B** FIRE HYDRANT INSTALLATION WATER MAIN NOT IN ROADWAY

**REQUIRED BEARING AREA IN TOTAL SQUARE FEET**

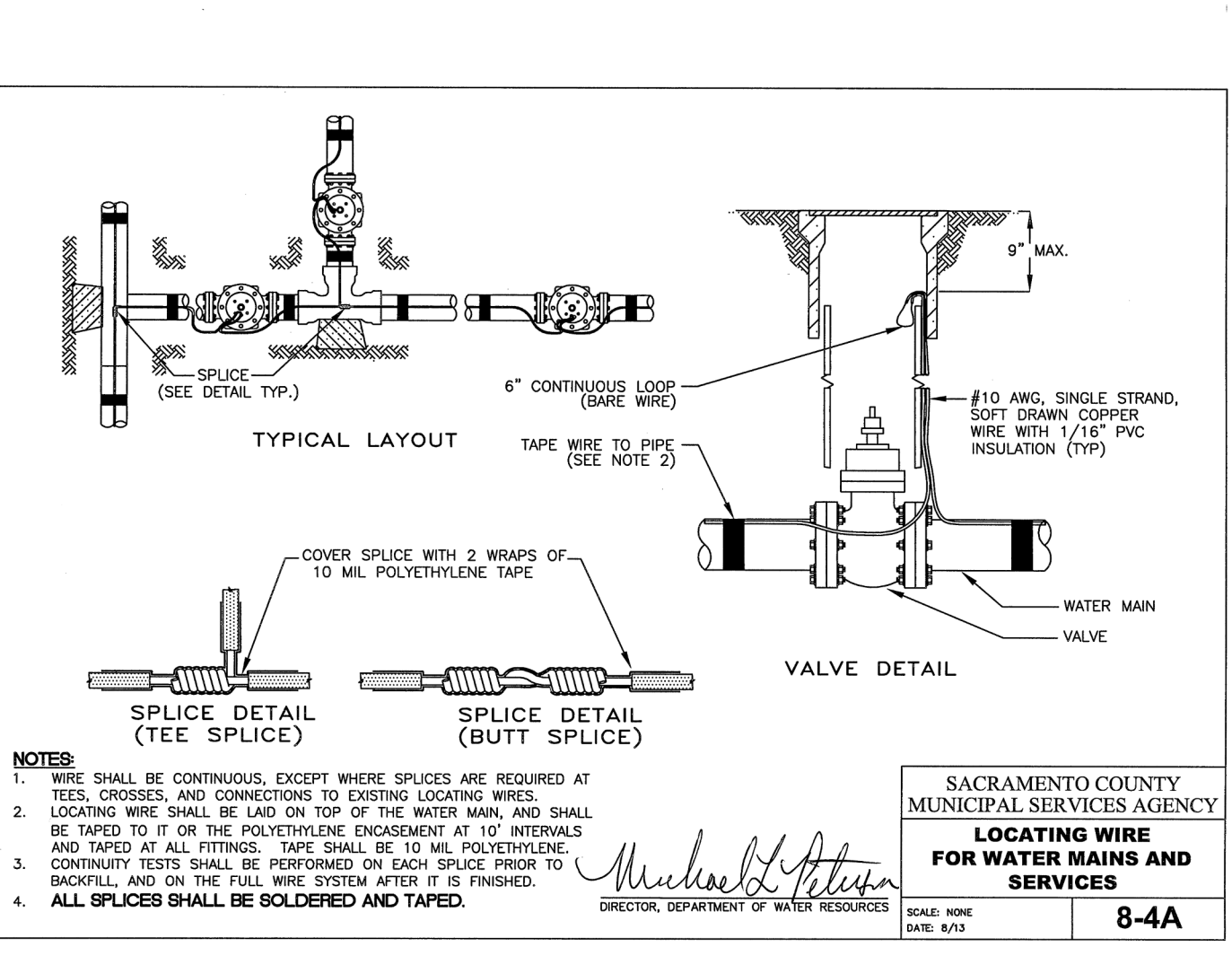
TYPE OF FITTING	90° BEND	45° BEND	11-1/4" BEND 22-1/2" DIA	TEE	DEAD END	VERTICAL DOWN BEND
4"	2	1	1	2	2	
6"	4	2	1	3	3	
8"	7	4	2	5	5	
10"	12	6	3	8	8	
12"	16	10	5	12	12	

**NOTES:**  
1. THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE.  
2. BEARING AREA SHALL BE FOR TEST PRESSURES OF 150 PSI FOR 8" DIA. WITH MINIMUM 2,000 PSI BEARING CAPACITY. IF TEST PRESSURE IS 100 PSI, BEARING AREA SHALL BE INCREASED BY 50%.  
3. THRUST BLOCKS SHALL BE PLACED ON UNDISTURBED SOIL.  
4. THRUST BLOCKS SHALL BE REINFORCED WITH 4" DIA. #4 BARS PER PLAN AND WATER NOTES.  
5. FOR DEAD ENDS: INSTALL TEMPORARY BLOW OFF PER DWG. 8-12.

**8-3A** THRUST BLOCK BEARING AREA

**RESTRAINED LENGTH IN FEET**

PIPE CONFIGURATION	30" COVER AND GREATER		60" COVER AND GREATER	
	DIP 1" PVC	DIP 1" PVC	DIP 1" PVC	DIP 1" PVC
RL = RESTRAINED LENGTH	4'	4'	4'	4'
NA = PVC PIPE NOT ALLOWED IN RESTRAINED LENGTH, USE ONLY DUCTILE IRON.	NA	NA	NA	NA
IN LINE VALVE	46	NA	24	NA
DEAD END W/ 90° THURST BLOCK	69	NA	36	NA
HORIZONTAL BEND	11	6	6	6
VERTICAL DROP OR RISE	11	10	6	9
TEE, CROSS & ASSOCIATED VALVES	12	NA	6	NA
PIPE RESTRAINT REQUIRED. SEE RESTRAINED LENGTHS SHOWN ON PLANS. (SEE NOTE 2)	11	NA	6	NA
	12	NA	10	0
	12	12	6	6



**8-4A** LOCATING WIRE FOR WATER MAINS AND SERVICES

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APP: 02-123079 INC.  
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CALIFORNIA DESIGN WEST ARCHITECTS, INC.  
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DESIGNED ARCHITECT  
JOSEPH BONNHEIM  
ELEMENTARY SCHOOL

7300 MARIN AVE  
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PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
5735 47TH AVENUE  
SACRAMENTO, CA 95824  
SACRAMENTO COUNTY

KEY PLAN:  
SHEET TITLE:  
**SITE DETAILS**

JOB NUMBER: SHEET NUMBER:  
DATE: DEC 20 2024  
REVISION:  
**AS503**

**GENERAL NOTES**

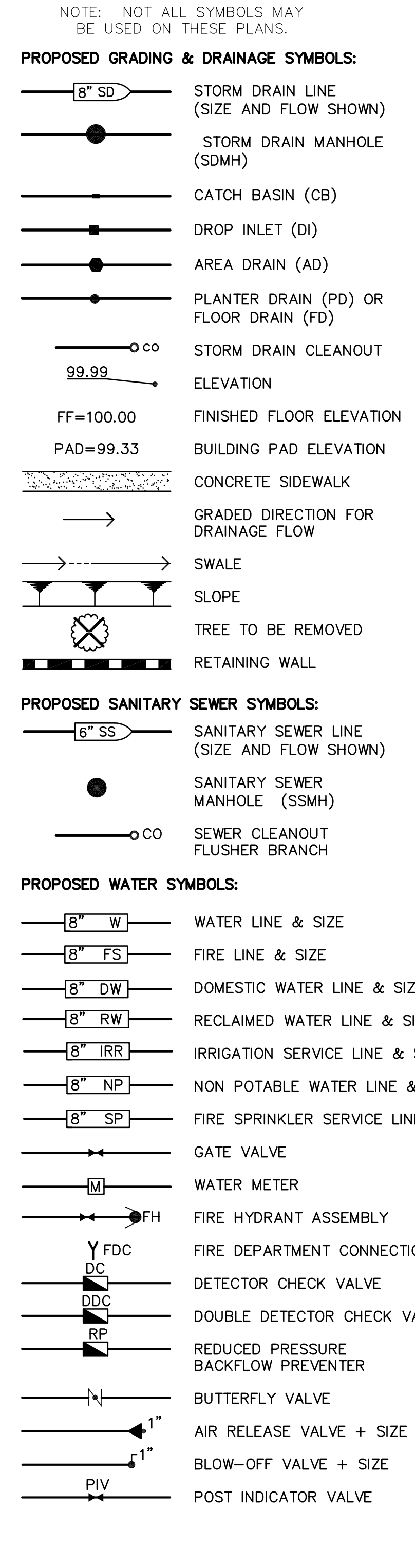
- THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
- IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
- CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
- IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
- SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCHEDULE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
- WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
- ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
- ANY SOREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.
- SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
- ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
- REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.



**CIVIL ABBREVIATIONS AND LEGEND**

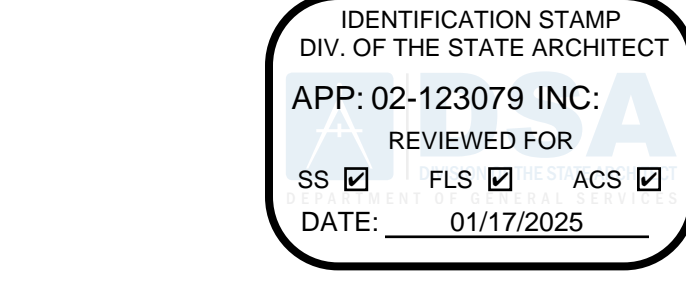
ABBREVIATIONS	
AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BW	BLOW-OFF VALVE
BY	BUTTERFLY VALVE
BO	BACK OF WALK
C/L	CENTERLINE
CB	CATCH BASIN
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
CS	CONCRETE SURFACE
DCC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DS	DOWNSPOUT
E	ELECTRIC
EP	EDGE OF PAVEMENT
GV	GATE VALVE
ASMT	ASSEMBLY
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FF	FIRE HYDRANT
G	GRATE
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
JB	JOSEPH BIBB
HDB	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INV	PIPE INVERT ELEVATION
JP	JOINT UTILITY POLE
LF	LINEAL FEET
LIP	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RM	MANHOLE RIM ELEVATION (SOLID COVER)
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RP	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TD	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TPS	TOP OF PLAY SURFACE
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALL
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UN	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WITH
W/O	WITHOUT
WV	WATER VALVE

**LEGEND**



**CIVIL SHEET INDEX**

- CO.1 - CIVIL GENERAL NOTES AND ABBREVIATIONS
- C1.1 - DEMOLITION PLAN
- C2.1 - GRADING AND UTILITY PLAN
- C3.1 - PAVING PLAN



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ARCHITECT



PROJECT NAME:  
**JOSEPH BONNHEIM  
ELEMENTARY SCHOOL**

7300 MARIN AVE.  
SACRAMENTO, CA 95820

**PLAYGROUND  
UPGRADES AND  
LANDSCAPE  
REPAIRS**

SACRAMENTO CITY UNIFIED  
SCHOOL DISTRICT

5735 47TH AVENUE  
SACRAMENTO, CA 95824  
SACRAMENTO COUNTY

**DEMOLITION GENERAL NOTES**

- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
- THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

**CONCRETE SAWCUT NOTE**  
SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS; HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

**UTILITY VERIFICATION NOTE**  
PRIOR TO THE START OF CONSTRUCTION, LOCATE AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

**IRRIGATION DEMOLITION NOTE**  
WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

**GENERAL PAVING SURFACE NOTES:**

- PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
- ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
  - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
  - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
  - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

KEY PLAN

SHEET TITLE:  
**CIVIL GENERAL NOTES  
AND ABBREVIATIONS**

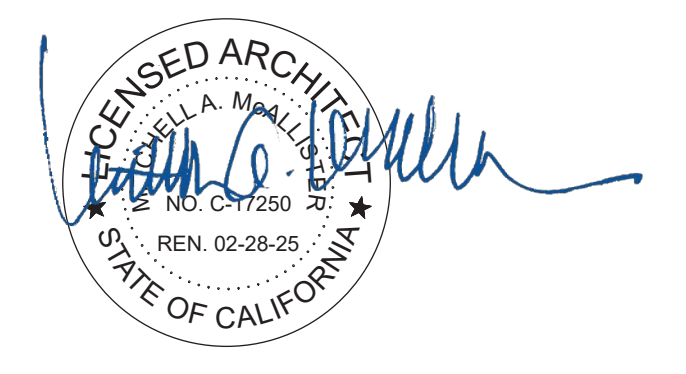
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**DESIGN WEST**  
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 2100 19th Street  
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 ARCHITECT



CONSULTANT:  
**WCE**  
 WARREN CONSULTING ENGINEERS, INC.  
 1117 WINDFIELD WAY, SUITE 110  
 EL DORADO HILLS, CA 95762 | (916) 985-1870

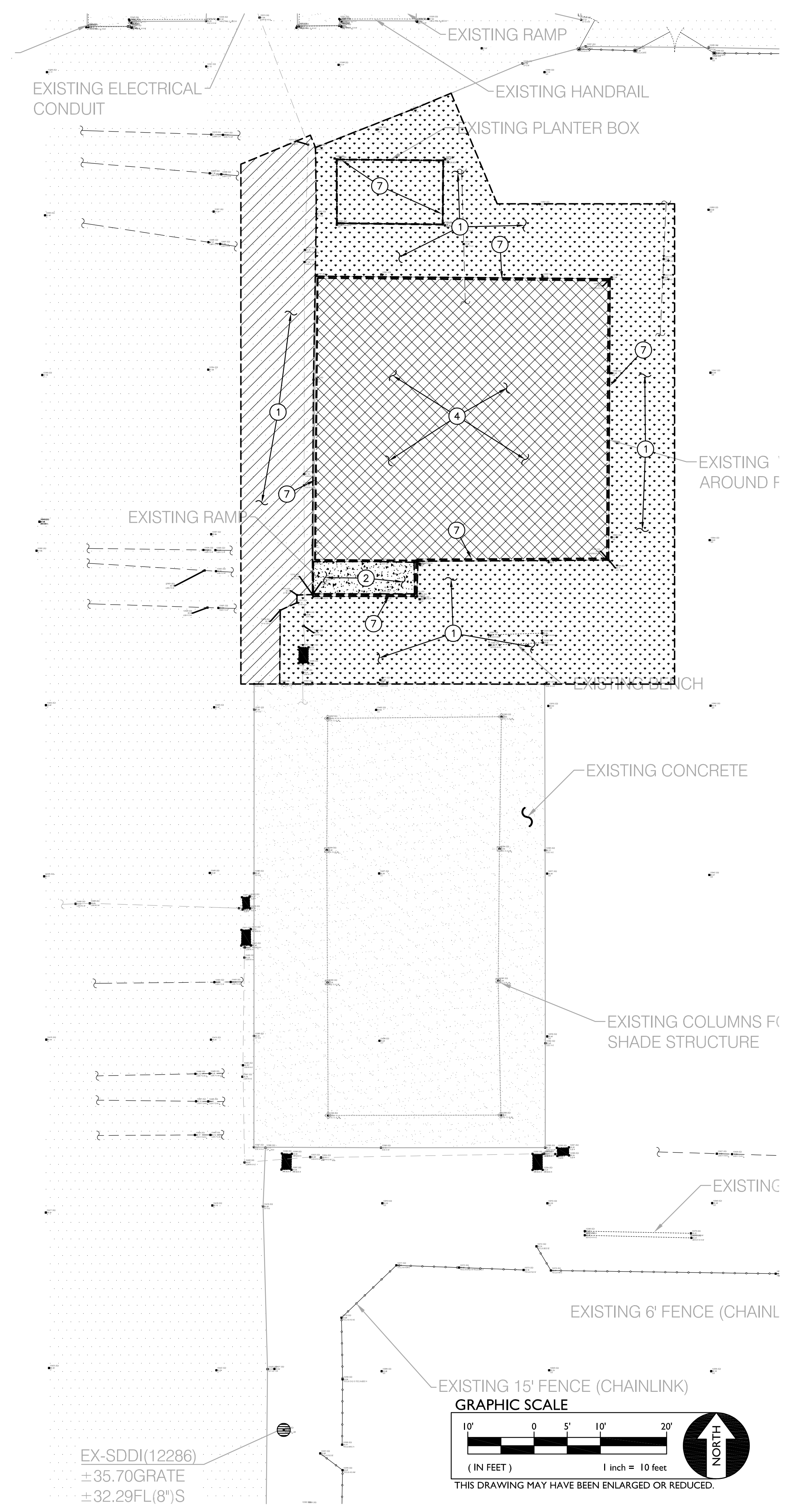
PROJECT NAME:  
**JOSEPH BONNHEIM ELEMENTARY SCHOOL**

7300 MARIN AVE.  
 SACRAMENTO, CA 95820

**PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
 5735 47TH AVENUE  
 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:	
SHEET TITLE: <b>DEMOLITION PLAN</b>	
JOB NUMBER:	SHEET NUMBER:
DATE: JAN 9, 2025	<b>C1.1</b>
REVISION:	



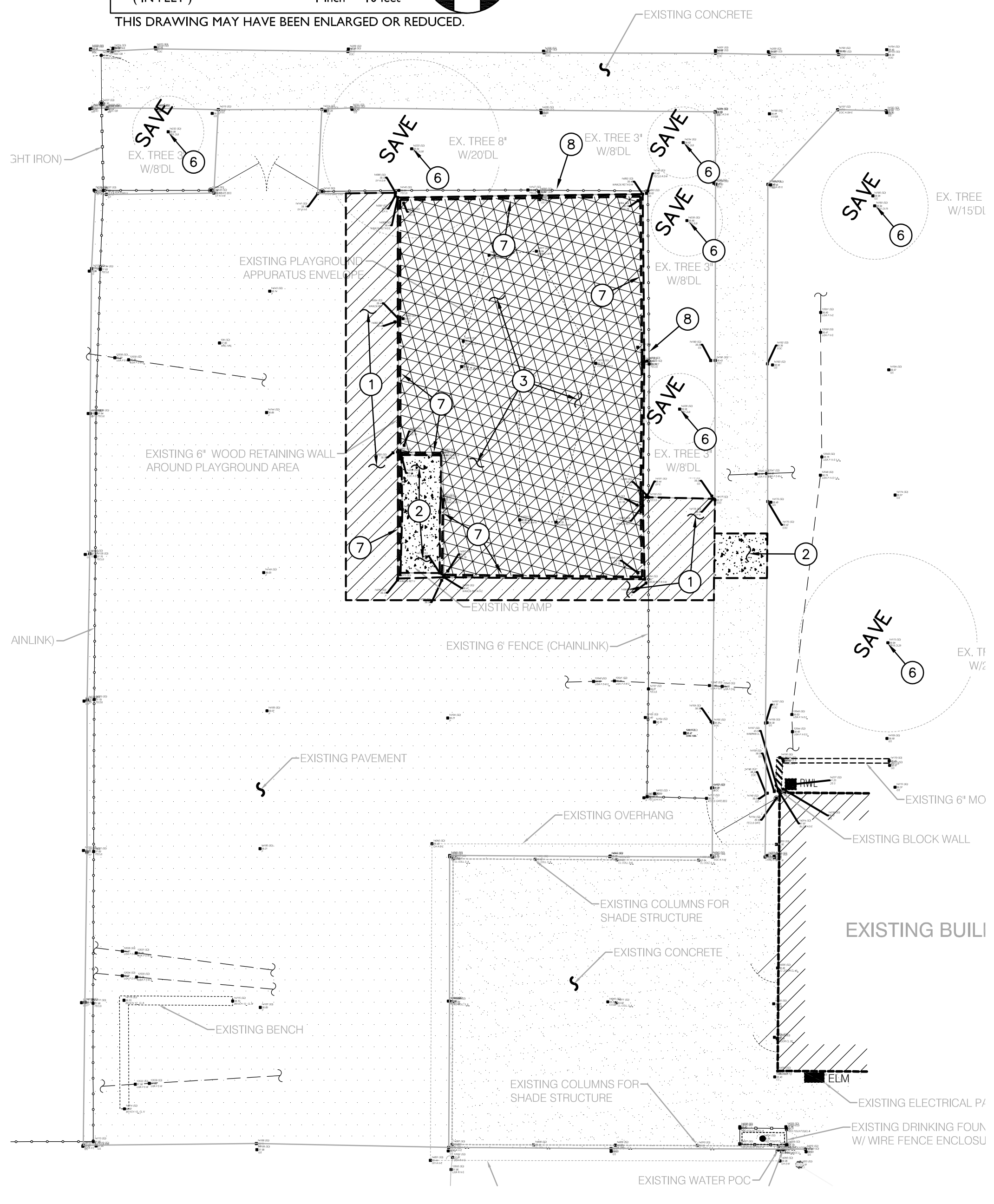
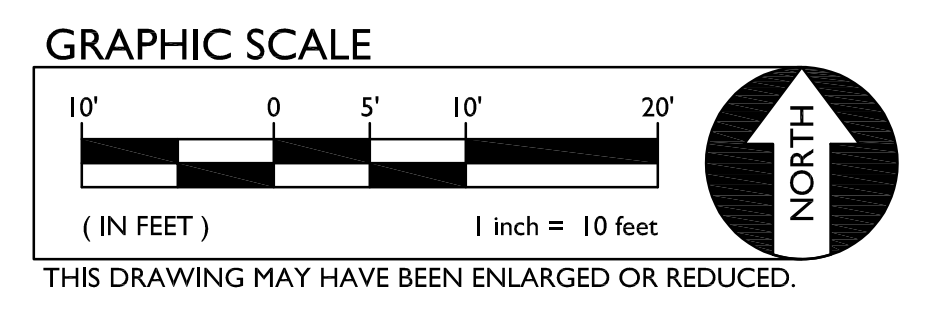
**MAIN PLAYGROUND AREA**



- DEMOLITION NOTES**
- REMOVE EXISTING ASPHALT PAVING AND AGGREGATE BASE. WHERE SAWCUT EDGES ARE SHOWN, THEY SHALL BE A NEAT STRAIGHT LINE. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED.
  - REMOVE EXISTING CONCRETE PAVING AND AGGREGATE BASE. WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
  - REMOVE AND DISPOSE OF EXISTING APPARATUS, BARK, ASPHALT AND AGGREGATE BASE.
  - REMOVE AND DISPOSE OF EXISTING APPARATUS, BARK, FILTER FABRIC, ETC.
  - CLEAR AND GRUB. MATCH EXISTING CONDITIONS UPON COMPLETION OF GRADING UNLESS OTHERWISE NOTED.
  - EXISTING TREE TO REMAIN AND TO BE PROTECTED.
  - REMOVE AND DISPOSE OF EXISTING WOOD HEADER BOARD APPARATUS BORDER.
  - CHAINLINK FENCE TO BE SAVED AND PROTECTED, REMOVE FENCE FABRIC AS NECESSARY TO PERFORM WORK AND REINSTALL UPON COMPLETION.

**FENCING NOTE**  
 SEE ARCHITECTURAL PLANS FOR EXISTING FENCING REMOVAL AND REPLACEMENT.

**IRRIGATION DEMOLITION NOTE**  
 WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION. SEE LANDSCAPE PLANS FOR FURTHER DIRECTION.

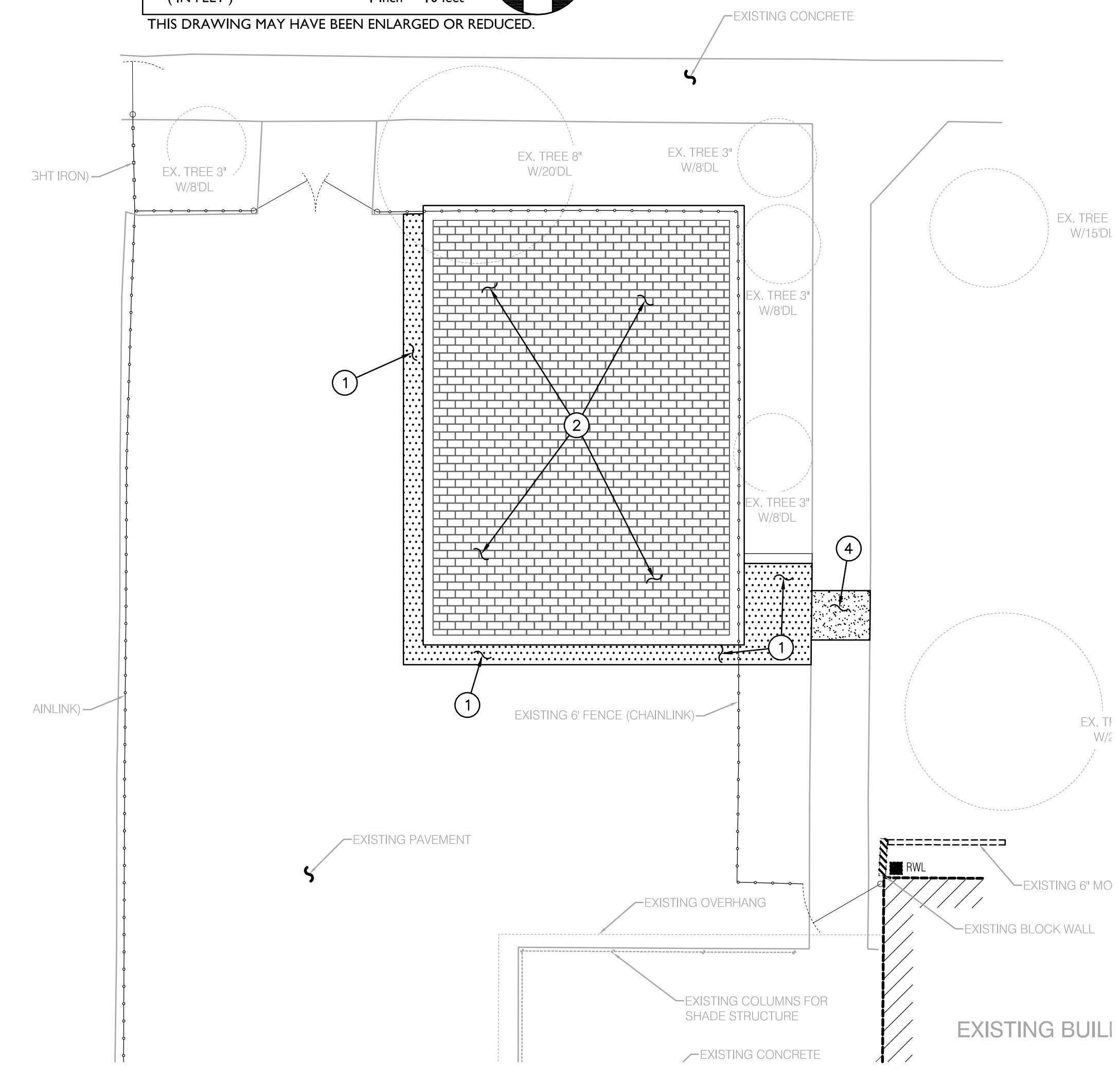
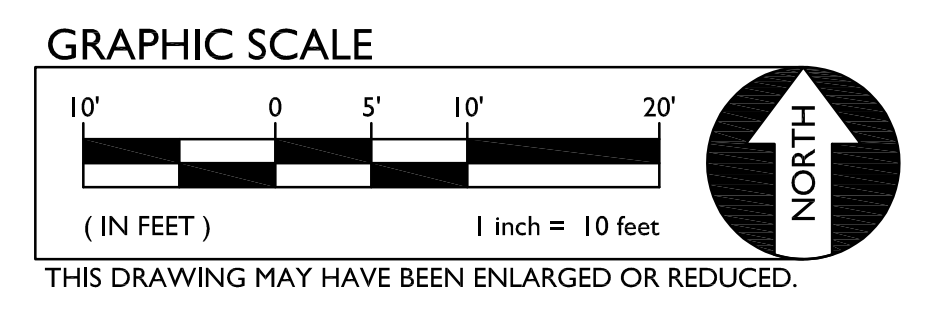


**KINDER PLAYGROUND AREA**

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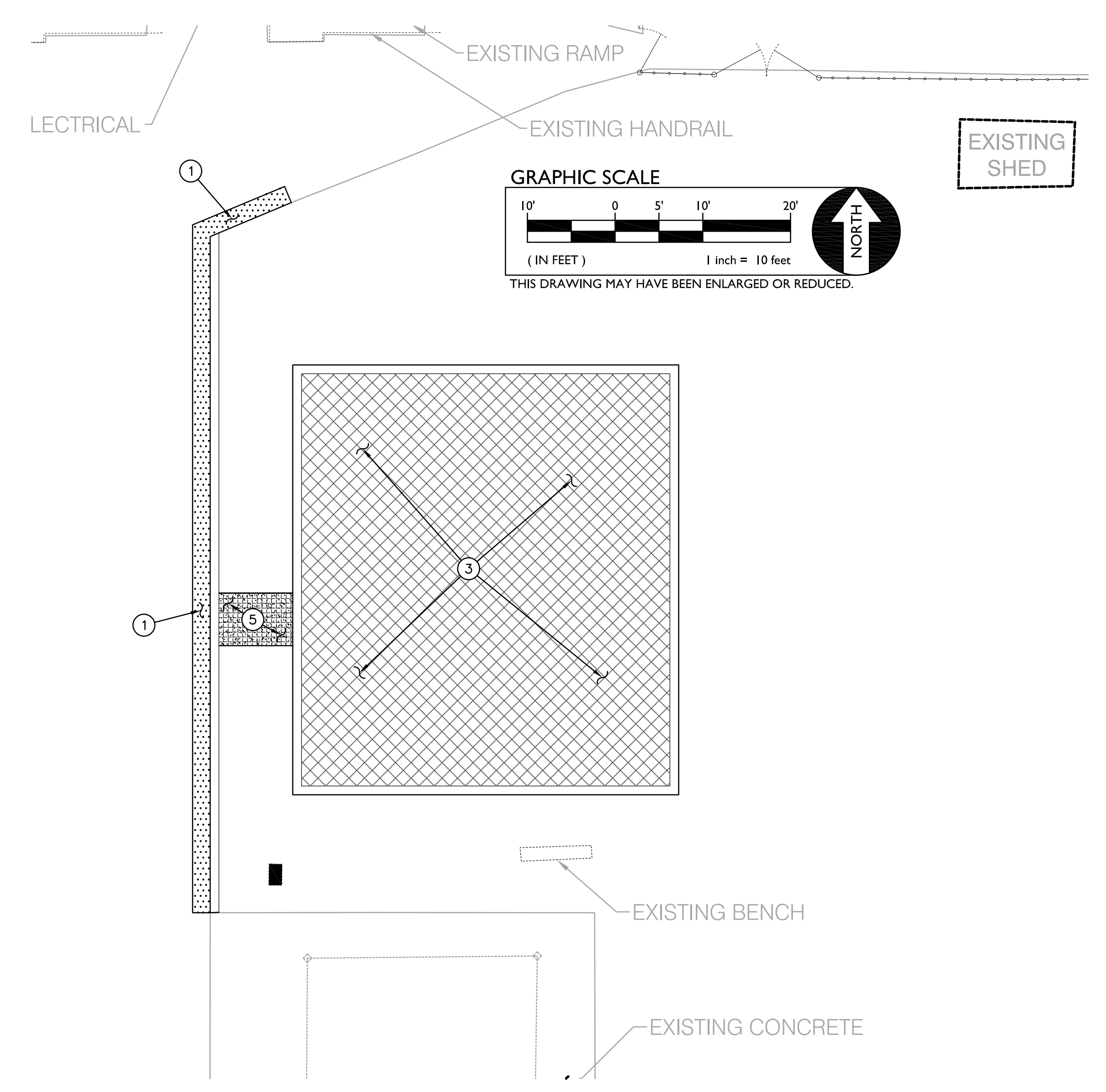
**MAIN PLAYGROUND AREA**

**PAVING LEGEND**

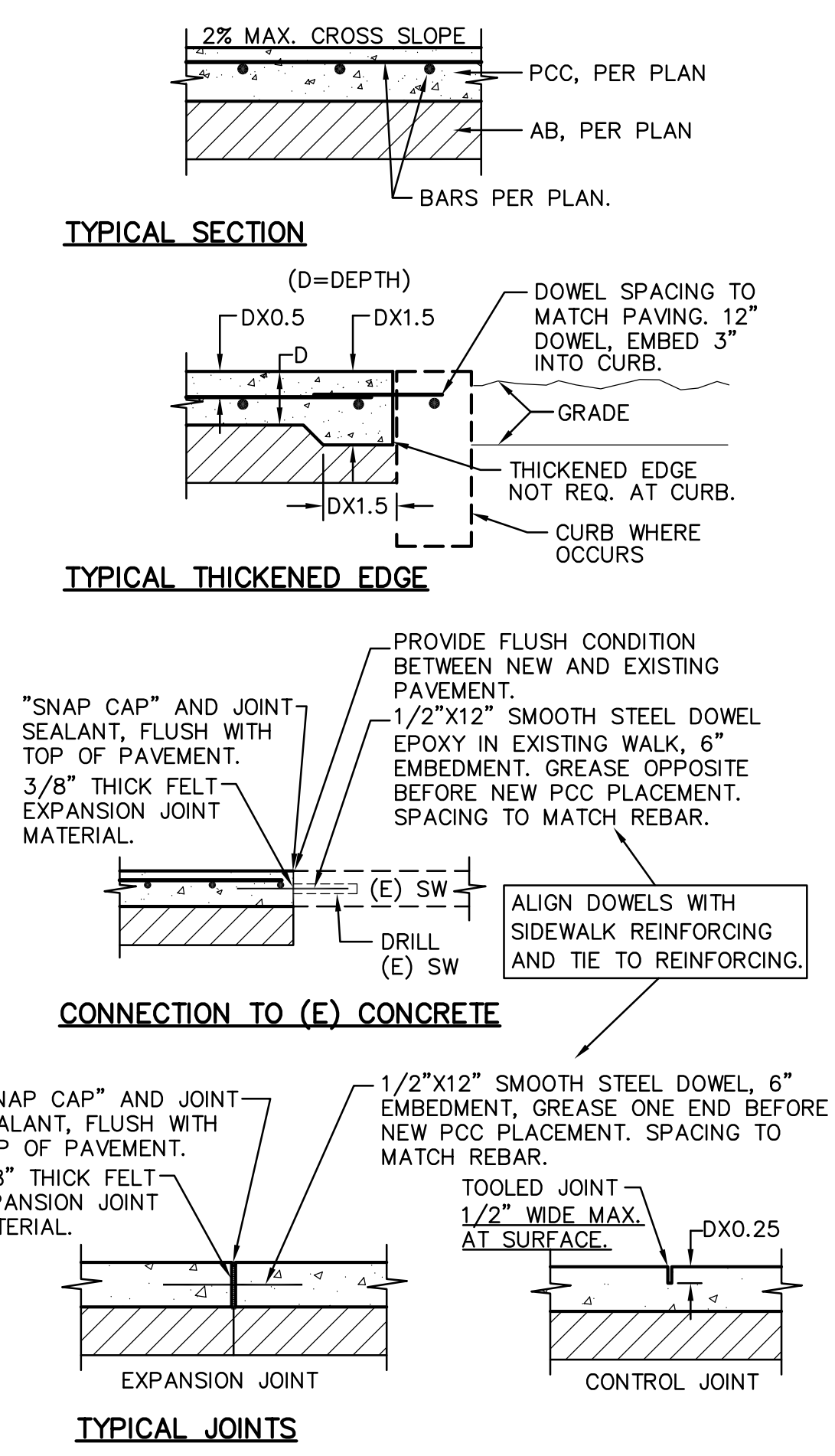
- 1 TYPE 1 PAVING  
MATCH EXISTING PAVING SECTION (MINIMUM 3" AC OVER 6" CLASS II AB) ON SUBGRADE COMPACTED TO 95%.
- 2 TYPE 2 PAVING  
PLACE 0.5" POUR IN PLACE RUBBER WEAR COURSE OVER 2.5" SBR CUSHION LAYER ON 18" OF CLASS II AB ON SUBGRADE COMPACTED TO 95%. VERIFY CUSHION LAYER THICKNESS WITH APPARATUS PLANS PRIOR TO PLACEMENT.
- 3 TYPE 3 PAVING  
PLACE 0.5" POUR IN PLACE RUBBER WEAR COURSE OVER 3.25" SBR CUSHION LAYER ON 18" OF CLASS II AB ON COMPACTED SUBGRADE. VERIFY CUSHION LAYER THICKNESS WITH APPARATUS PLANS PRIOR TO PLACEMENT.
- 4 TYPE 4 PAVING  
PLACE 5" PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 4" CLASS II AB ON SUBGRADE COMPACTED TO 95%.
- 5 TYPE 5 PAVING  
PLACE 5" PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 12" CLASS II AB ON SUBGRADE COMPACTED TO 95%.

**PAVING GENERAL NOTES:**

1. AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE.
2. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
3. RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CALTRANS SPECIFICATIONS FOR CLASS II AB.
4. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE PERFORMED AFTER:  
 A. POT HOLING ALL EXISTING UTILITIES.  
 B. THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE RESTORED.
7. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
8. ADJUST TO FINISH GRADE ALL BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN NEW ASPHALT OR CONCRETE PAVING AREAS, WHICH ARE NOT NOTED FOR REMOVAL. REPLACE PER PLAN.
9. ALL NEW ASPHALT PAVING TO BE PROVIDED WITH SEALCOAT PER SPECIFICATIONS.
10. REFER TO ARCHITECTURAL PLANS FOR CONTROL AND EXPANSION JOINTS, AND CONCRETE FINISH.
11. SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS:  
 CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL - 1.9%  
 DIRECTION OF TRAVEL - 4.9%  
 RAMP IN DIRECTION OF TRAVEL - 8.0%  
 PLAZA 1.9% - IN ANY DIRECTION
12. ALL EXPOSED ASPHALT EDGES SHALL HAVE 12" WIDE CONCRETE FLUSH CURB WHETHER SHOWN OR NOT.



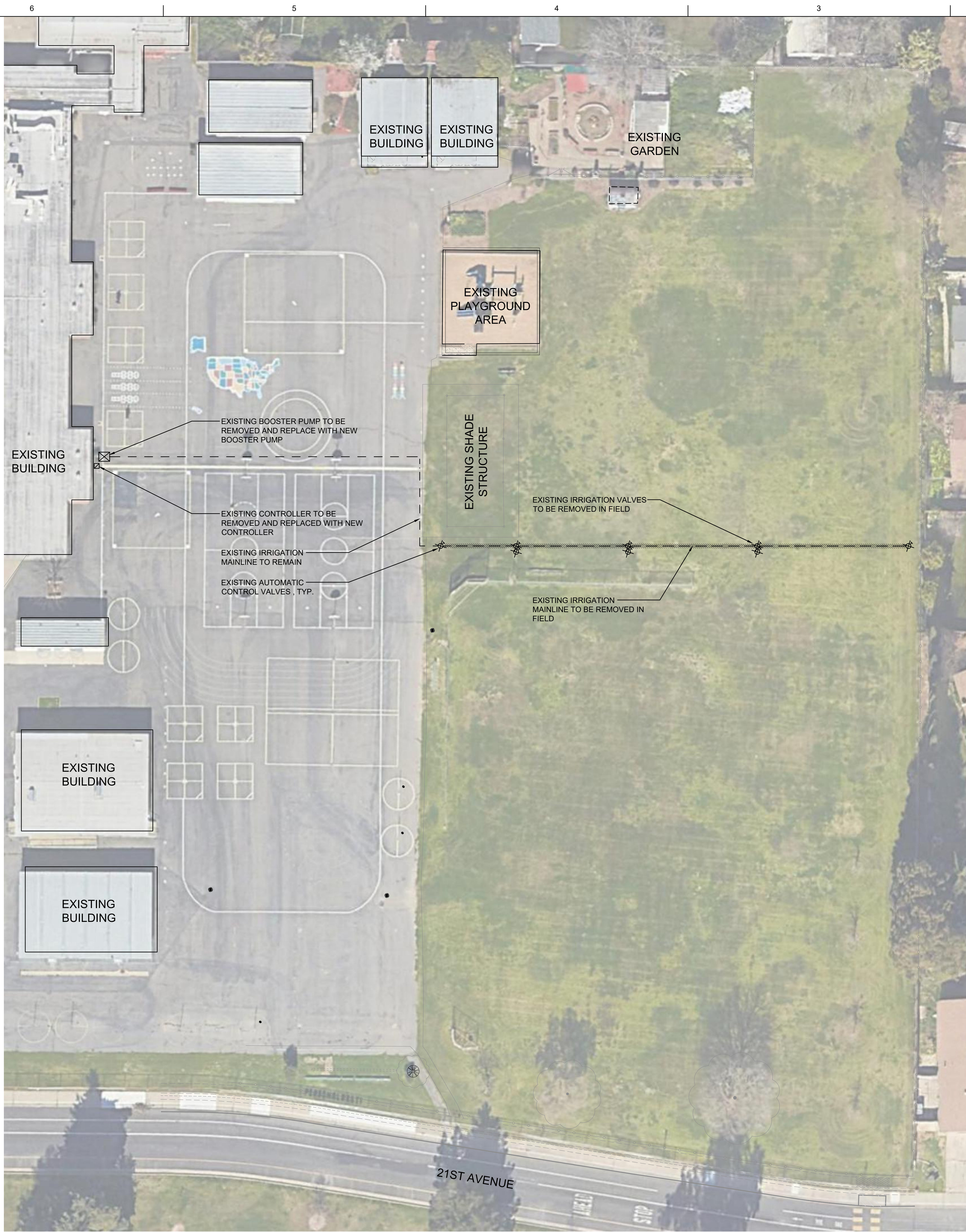
**KINDER PLAYGROUND AREA**



- NOTES:**
1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
  2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
  3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 CONCRETE SIDEWALK  
 C3.1 NO SCALE



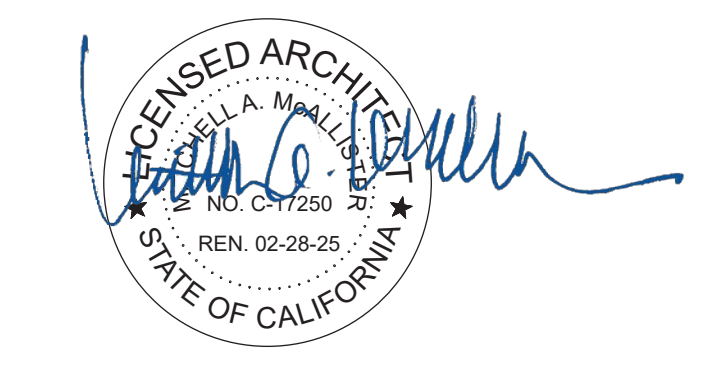


KEY	IRRIGATION DEMOLITION LEGEND
	EXISTING BOOSTER PUMP TO BE REPLACED
	EXISTING IRRIGATION CONTROLLER TO BE REPLACED
	EXISTING AUTOMATIC CONTROL VALVE TO BE REPLACED
	EXISTING AUTOMATIC CONTROL VALVE TO REMOVE
	EXISTING IRRIGATION MAINLINE TO REMAIN
	EXISTING IRRIGATION MAINLINE TO REMOVE
	EXISTING LATERAL LINE IN PLAYFIELD TO BE REMOVED

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 916.909.9900  
 PROJECT NAME:

**JOSEPH BONNHEIM  
 ELEMENTARY SCHOOL**

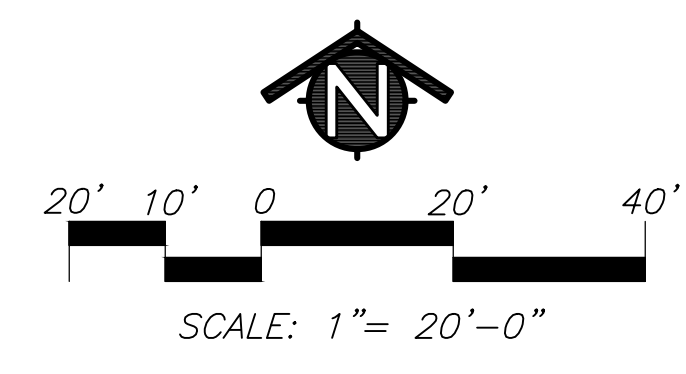
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**PLAYGROUND  
 UPGRADES AND  
 LANDSCAPE  
 REPAIRS**

SACRAMENTO CITY UNIFIED  
 SCHOOL DISTRICT  
 5735 47TH AVENUE  
 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:  
 SHEET TITLE:  
**SPRINKLER  
 IRRIGATION  
 DEMOLITION PLAN**

JOB NUMBER: SHEET NUMBER:  
 DATE: JAN 08 2025  
 REVISION:  
**L0.1**



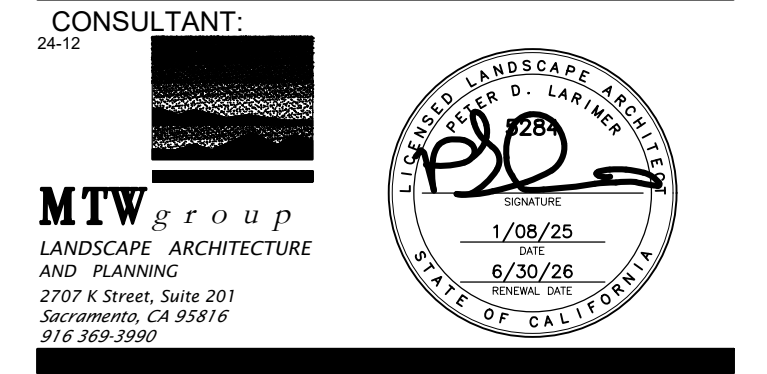
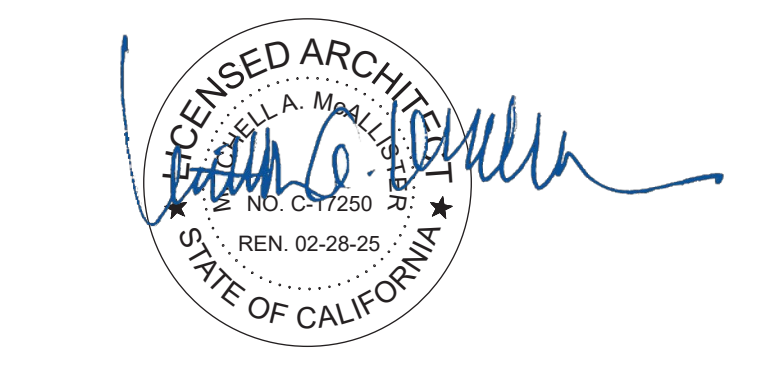


KEY	SITE LEGEND
	9" CONCRETE MOWSTRIP SEE DETAIL 1/L4.1.
	STANDARD CONCRETE PAVING SEE ARCHITECTURAL SHEETS

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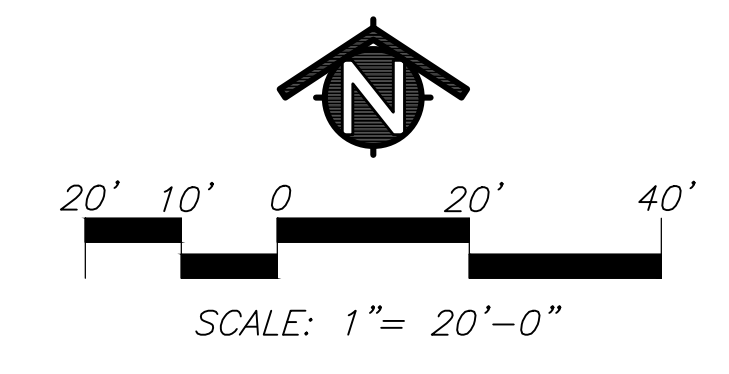
PROJECT NAME:  
**JOSEPH BONNHEIM ELEMENTARY SCHOOL**

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**PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
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 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:	
↑	
SHEET TITLE: <b>LANDSCAPE SITE PLAN</b>	
JOB NUMBER:	SHEET NUMBER:
DATE: JAN 08 2025	<b>L1.1</b>
REVISION:	





KEY	LANDSCAPE LEGEND
	LAWN (SOD)
	EXISTING AREAS TO REMAIN
	BARK MULCH ONLY 3" DEPTH. SEE DETAIL 6/L4.1.
	9" CONCRETE MOWSTRIP SEE DETAIL 1/L4.1.
	PLANT QUANTITY
	PLANT KEY
	EXISTING TREES TO REMAIN

**GENERAL LANDSCAPE REQUIREMENTS/NOTES**

- NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.
- NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- QUANTITIES SHOWN ON PLANT MATERIAL LIST ARE APPROXIMATE. PROVIDE QUANTITIES INDICATED ON LANDSCAPE PLAN.
- PLANT MATERIAL IS SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
- SEE SHEET L4.1 FOR PLANTING INSTALLATION DETAILS.

**ENVIRONMENTAL REQUIREMENTS:**

GENERAL: PROCEED WITH WORK IN ORDERLY AND TIMELY MANNER TO COMPLETE INSTALLATION OF LANDSCAPING WITHIN CONTRACT LIMITS.

**PROTECTION:**

EXISTING CONSTRUCTION: EXECUTE WORK IN AN ORDERLY AND CAREFUL MANNER TO PROTECT NEW CONCRETE WALKS, WORK OF OTHER TRADES, AND OTHER IMPROVEMENTS.

EXISTING UTILITIES: DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED, TO MINIMIZE POSSIBILITY OF DAMAGE TO UNDERGROUND UTILITIES. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED. BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES WITHIN CONSTRUCTION AREA; REPAIR DAMAGE TO UTILITIES THAT OCCUR AS A RESULT OF OPERATIONS OF THIS WORK.

LANDSCAPING: PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED AT NO ADDITIONAL COST TO CONTRACT.

ADVERSE CONDITIONS: WHEN CONDITIONS DETRIMENTAL TO SOD OR PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE STARTING WORK.

**PLANTING AND TURF INSTALLATION SEASONS AND CONDITIONS**

NO WORK SHALL BE DONE WHEN GROUND IS FROZEN, SNOW COVERED, TOO WET OR IN AN OTHERWISE UNSUITABLE CONDITION FOR AMENDING SOIL, FINISH GRADING OR PLANTING.

**SOIL TESTING/SOIL IMPROVEMENT:**

SEE SPECIFICATIONS 32 90 00, SECTION 3.02 SOIL TESTING AND SECTION 3.03 PREPARATION.

**SOIL PERCOLATION**

EXCAVATE 10 PLANTING PITS IN RANDOM AREAS OF SITE. FILL EXCAVATED PLANTING PITS WITH WATER TO 1/2 DEPTH OF PIT. PITS SHOULD DRAIN WITHIN 4 HOURS. IF PLANTING PITS DO NOT DRAIN, NOTIFY INSPECTOR IMMEDIATELY. PLANTING SHALL NOT BE STARTED UNTIL OWNER'S REPRESENTATIVE HAS RESOLVED A METHOD TO REMEDY DRAINAGE ISSUE.

**PLANT MATERIAL STANDARDS**

PLANTS SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ANSI Z60.1-AMERICAN STANDARD FOR NURSERY STOCK, EXCEPT AS OTHERWISE STATED IN SPECIFICATIONS OR SHOWN ON DRAWINGS. WHERE DRAWINGS OR SPECIFICATIONS ARE IN CONFLICT WITH ANSI Z60.1, DRAWINGS AND SPECIFICATIONS SHALL PREVAIL. PRUNE, THIN OUT AND SHAPE TREES IN ACCORDANCE WITH ANSI STANDARD HORTICULTURAL PRACTICE. PRUNE TREES TO RETAIN REQUIRED HEIGHT AND SPREAD, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. DO NOT CUT TREE LEADERS, AND REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES.

**EXISTING LANDSCAPE AND SPRINKLER IRRIGATION SYSTEM**

WORK LIMITS OF THIS PROJECT EXTEND INTO AREAS THAT WERE PREVIOUSLY DEVELOPED UNDER OTHER CONTRACTS. PRIOR TO START OF WORK, CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVE TO LOCATE ALL CONNECTIONS CALLED FOR ON DRAWINGS. WORK LIMITS/FENCING SHALL BE LAID OUT BY CONTRACTOR AND VERIFIED BY OWNER'S REPRESENTATIVE. FENCE TO BE INSTALLED AND IRRIGATION SYSTEM SHALL BE TESTED WITH CONTRACTOR, INSPECTOR, AND OWNER'S REPRESENTATIVE PRESENT. DEFICIENCIES SHALL BE NOTED AT THIS TIME AND ARE THE RESPONSIBILITY OF OWNER. AT COMPLETION OF WORK, SYSTEM WILL AGAIN BE TESTED. DEFICIENCIES NOTED AT THIS TIME THAT WERE NOT NOTED PREVIOUSLY WILL BE RESPONSIBILITY OF CONTRACTOR. EXISTING LANDSCAPE THAT HAS BEEN DAMAGED DUE TO CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. PRIOR TO MAKING ANY CONNECTION TO MAIN LINE, CONTRACTOR SHALL NOTIFY OWNER 1 WEEK IN ADVANCE SO ADJUSTMENTS TO EXISTING WATERING PROGRAMS CAN BE MADE.

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PROJECT NAME:  
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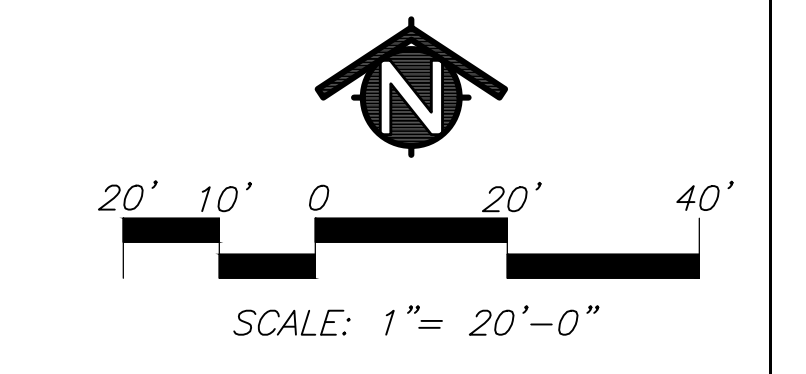
**PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE  
SACRAMENTO, CA 95824  
SACRAMENTO COUNTY

KEY PLAN:  
SHEET TITLE:  
**LANDSCAPE PLANTING PLAN**

JOB NUMBER: SHEET NUMBER:  
DATE: JAN 08 2025  
REVISION:  
**L2.1**





**KEY SPRINKLER IRRIGATION LEGEND**

- AUTOMATIC CONTROLLER:**  
 HUNTER AC2 - 24 STATION CONTROLLER  
 MODEL# A2C-1200-SS WITH A2C-LAN, ROAMXL-KIT, AND 12-STATION EXPANSION MODULE.  
 CONTROLLER TO BE ASSEMBLED IN STAINLESS STEEL STRONGBOX WALL MOUNT ENCLOSURE WITH ETHERNET MODEM, ROOM SMART PORT, AND ROAMXL TRANSMITTER, RECEIVER, AND CARRYING CASE.  
 AND GROUNDING ROD/PLATE TO BE INSTALLED AS PER THE GROUNDING DETAIL.  
 COORDINATE 110V SERVICE AND POWER CONNECTION WITH ELECTRICAL SUB-CONTRACTOR.  
 COORDINATE ETHERNET CONNECTION WITH THE ELECTRICAL SUB-CONTRACTOR.
- POINT OF CONNECTION:**  
 THIS SPRINKLER IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 70 PSI OPERATING WATER PRESSURE AND WITH A MAXIMUM FLOW OF 120 GPM.  
 CONTRACTOR SHALL LOCATE IRRIGATION MAINLINE AS SHOWN ON PLANS.  
 CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.
- NEW BOOSTER PUMP:**  
 BOOSTER PUMP SHALL BE BY V-POWER EQUIPMENT, MODEL # 120MTW01162025-1-7.5VFD-208-3  
 CONTACT CHRIS MURRAY AT 916-266-6743.  
 INLET PRESSURE: 30 PSI  
 OUTLET PRESSURE: 80 PSI  
 MIN/MAX WATER DEMAND: 35 GPM/110GPM  
 POWER INPUT: 208V, 3 PHASE  
 MAX WEIGHT: 800 LBS
- EXISTING PULL BOX:**
- EXISTING GATE VALVE:**
- GATE VALVE:**  
 TYPE:  
 LEMCO LMV-XXBB WITH A NON-RISING STEM AND OPERATING NUT.  
 GATE VALVE INSTALLED IN A VALVE BOX WITH TOP OF BOX SET FLUSH TO FINISH GRADE.  
 GATE VALVE TO BE LINE SIZE.
- QUICK COUPLER VALVE:**  
 RAINBIRD 44NP OR APPROVED EQUAL.  
 VALVES SHALL HAVE LOCKING RUBBER COVERS, INSTALLED IN VALVE BOXES. TOP OF VALVE BOX SHALL HAVE BOLT DOWN LID AND TOP SET LEVEL TO FINISH GRADE.
- EXISTING PRESSURE MAINLINE:**
- PRESSURE MAIN LINE:**  
 TYPE:  
 3" SIZE AND SMALLER: ASTM D1785, PVC SCHEDULE 40 WITH LEMCO FITTINGS.  
 4" SIZE AND LARGER: ASTM D2241, CLS 200 RING TYPE WITH LEMCO FITTINGS.  
 TRENCH DEPTH:  
 IN PLANTED AREAS: 24" MINIMUM COVER.  
 UNDER PAVED AREAS: 24" MINIMUM COVER.  
 PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
- LATERAL LINE:**  
 TYPE:  
 ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE.  
 TRENCH DEPTH:  
 IN PLANTED AREAS:  
 POP-UP SPRAY HEADS - 12" MINIMUM COVER.  
 ROTOR HEADS - 18" MINIMUM COVER.  
 BUBBLER HEADS - 12" MINIMUM COVER.  
 UNDER PAVED AREAS: 24" MINIMUM COVER.  
 PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
- EXISTING AUTOMATIC CONTROL VALVE:**
- AUTOMATIC CONTROL VALVE:**  
 HUNTER ICV-AS WITH INLINE PRESSURE REGULATOR.
- LAWN POP-UP ROTOR HEADS:**  
 FULL CIRCLE  
 HUNTER: I-40-06-SS-ON-15 (GRAY)  
 GPM/LIN/HR (50 PSI)  
 THREE QUARTER CIRCLE  
 HUNTER: I-40-06-SS-13 (LT. BLUE)  
 GPM/LIN/HR (50 PSI)  
 HALF CIRCLE  
 HUNTER: I-40-06-SS-13 (LT. BLUE)  
 GPM/LIN/HR (50 PSI)  
 QUARTER CIRCLE  
 HUNTER: I-40-06-SS-13 (LT. BLUE)  
 GPM/LIN/HR (50 PSI)
- INDICATES CONTROL VALVE:**  
 PRESSURE REGULATOR: PSI SHOWN (// IF NOT SPECIFIED, ADJ IF ADJUSTABLE)  
 STATION NUMBER  
 VALVE SIZE  
 GALLONS: GPM

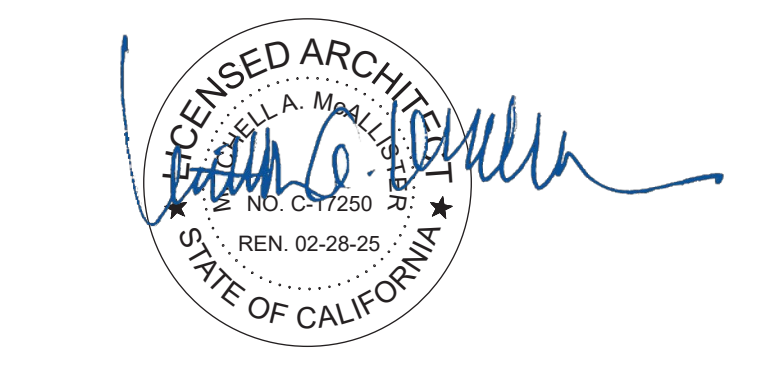
**SPRINKLER IRRIGATION NOTES**

1. COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILED OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
2. DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNERS REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNERS REPRESENTATIVE IMMEDIATELY.
6. TESTING:  
 A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:  
 SYSTEMS WITH BOOSTER PUMP:  
 MAIN LINE - AT 100 PSI FOR 4 HOURS.  
 LATERAL LINES - AT 100 PSI FOR 2 HOURS.  
 SYSTEMS WITH OUT BOOSTER PUMP:  
 MAIN LINE - AT STATIC PSI FOR 4 HOURS.  
 LATERAL LINES - AT STATIC PSI FOR 2 HOURS.  
 B. COVERAGE TEST: NOTE PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNERS REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNERS REPRESENTATIVE.
7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
9. CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
11. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
12. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNERS REPRESENTATIVE.
13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4.1.

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 LANDSCAPE ARCHITECTURE  
 AND PLANNING  
 2707A Street, Suite 201  
 Sacramento, CA 95818  
 916.668.8960  
 PROJECT NAME:

**JOSEPH BONNHEIM  
 ELEMENTARY SCHOOL**

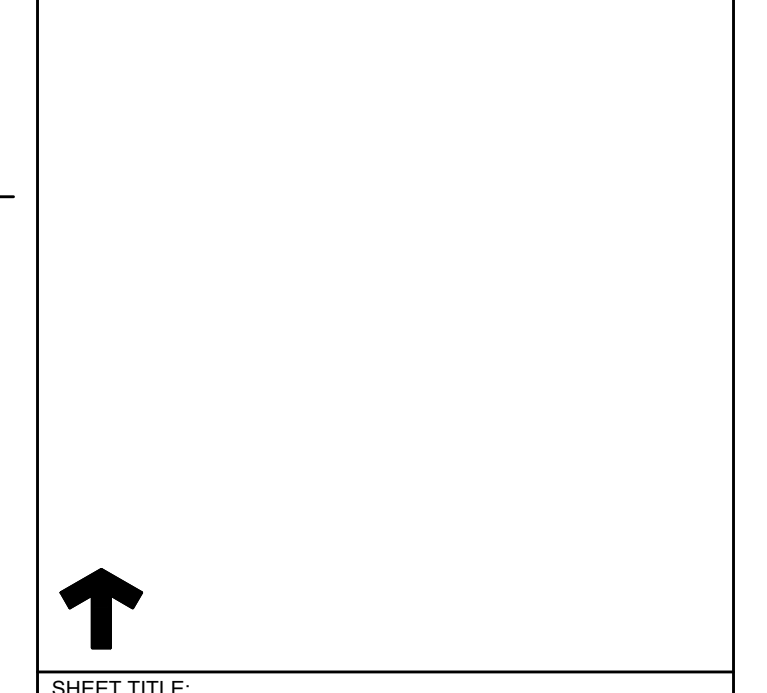
7300 MARIN AVE  
 SACRAMENTO, CA 95820

**PLAYGROUND  
 UPGRADES AND  
 LANDSCAPE  
 REPAIRS**

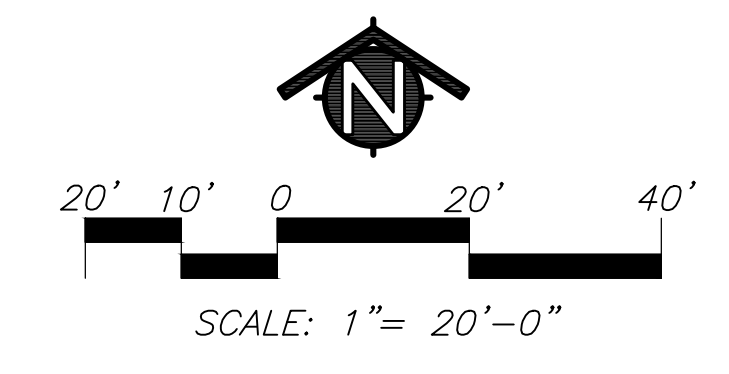
SACRAMENTO CITY UNIFIED  
 SCHOOL DISTRICT

5735 47TH AVENUE  
 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:



SHEET TITLE: <b>SPRINKLER IRRIGATION PLAN</b>	
JOB NUMBER:	SHEET NUMBER:
DATE: JAN 08 2025	<b>L3.1</b>
REVISION:	



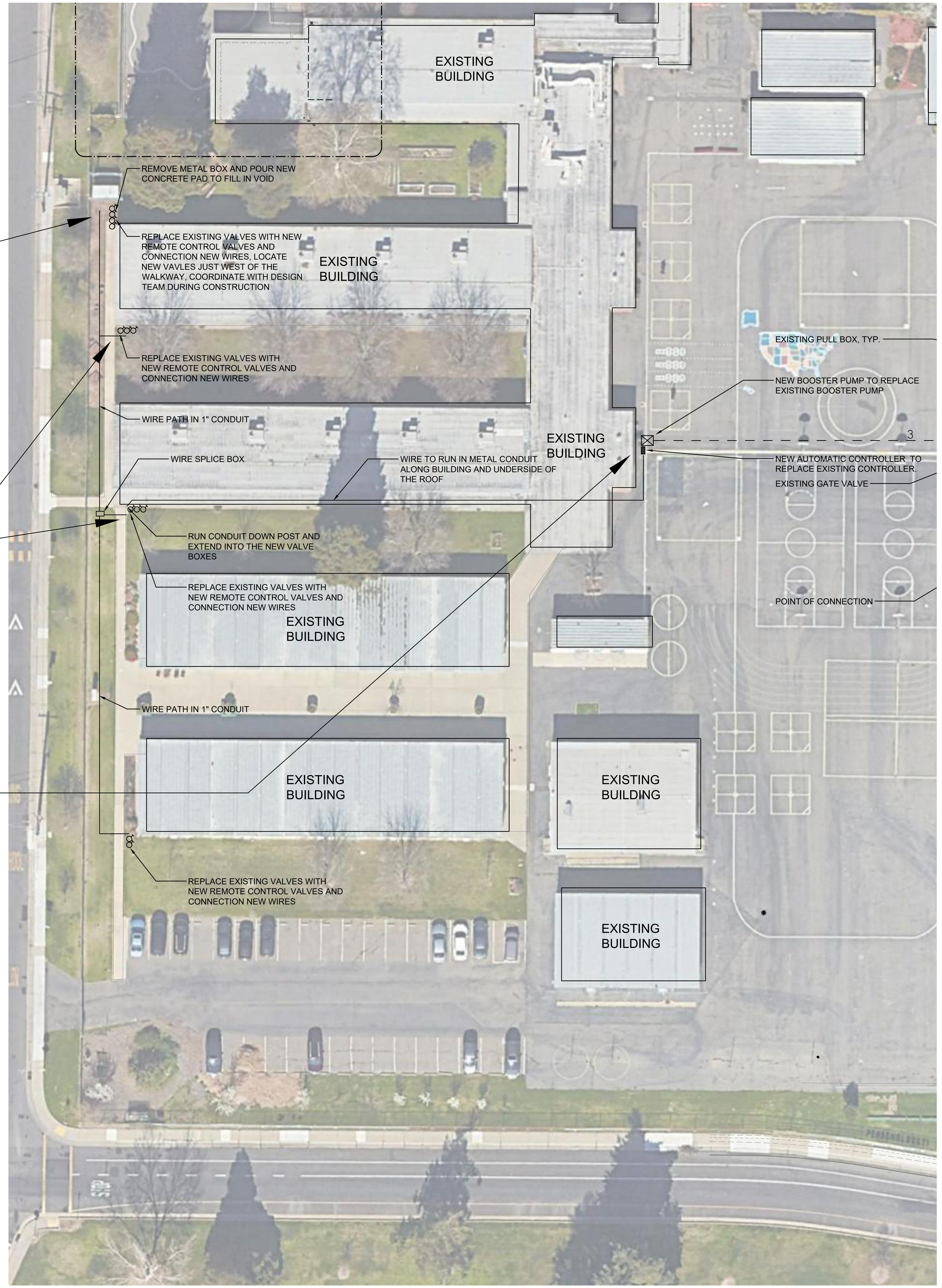
EXISTING VALVES IN CONCRETE



EXISTING VALVES



EXISTING PUMP AND CONTROLLER

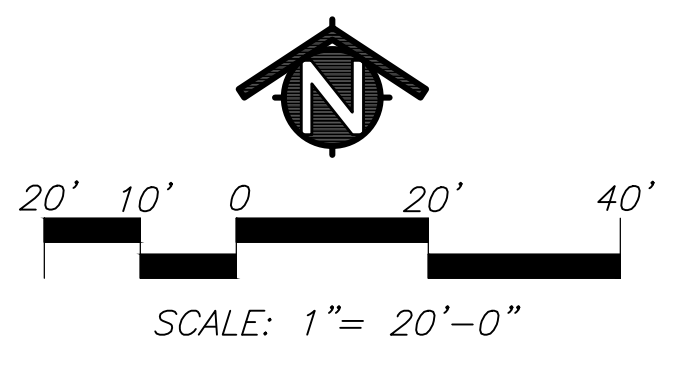


KEY SPRINKLER IRRIGATION LEGEND

Table with 2 columns: KEY and SPRINKLER IRRIGATION LEGEND. It lists various components like Automatic Controller, Point of Connection, New Booster Pump, Existing Pull Box, Gate Valve, Quick Coupler Valve, Existing Pressure Mainline, Pressure Main Line, Lateral Line, Existing Automatic Control Valve, Automatic Control Valve, Lawn Pop-up Rotor Heads, and Indicates Control Valve, each with a corresponding symbol and detailed specifications.

SPRINKLER IRRIGATION NOTES

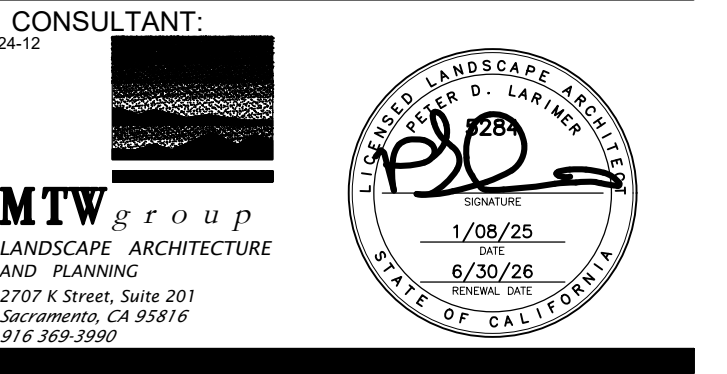
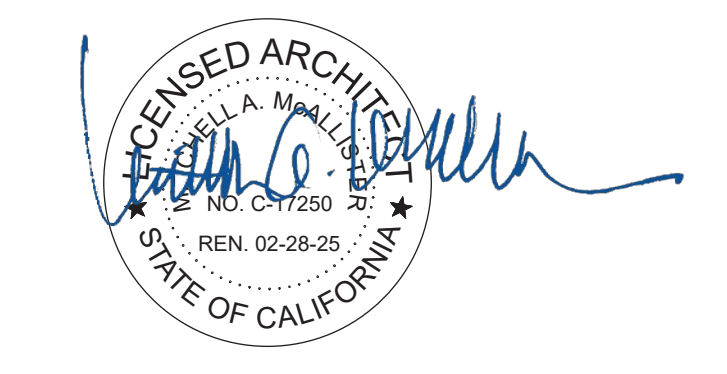
- 1. COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILED OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
2. DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACTOR.
4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
6. TESTING:
A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
SYSTEMS WITH BOOSTER PUMP:
MAIN LINE - AT 100 PSI FOR 4 HOURS.
LATERAL LINES - AT 100 PSI FOR 2 HOURS.
SYSTEMS WITH OUT BOOSTER PUMP:
MAIN LINE - AT STATIC PSI FOR 4 HOURS.
LATERAL LINES - AT STATIC PSI FOR 2 HOURS.
B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNER'S REPRESENTATIVE'S PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
9. CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
11. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
12. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4.1.



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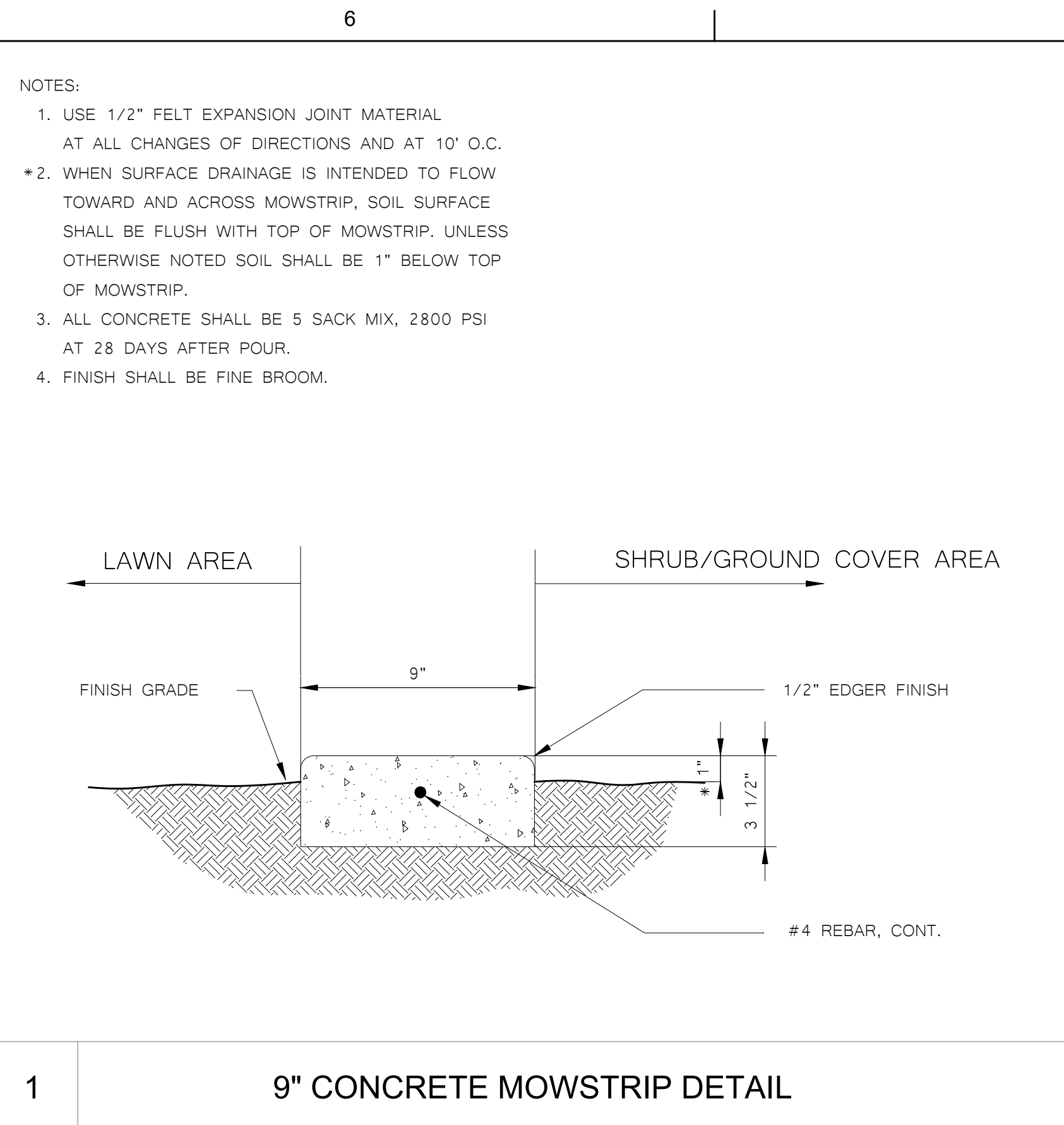
7300 MARIN AVE SACRAMENTO, CA 95820

PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS

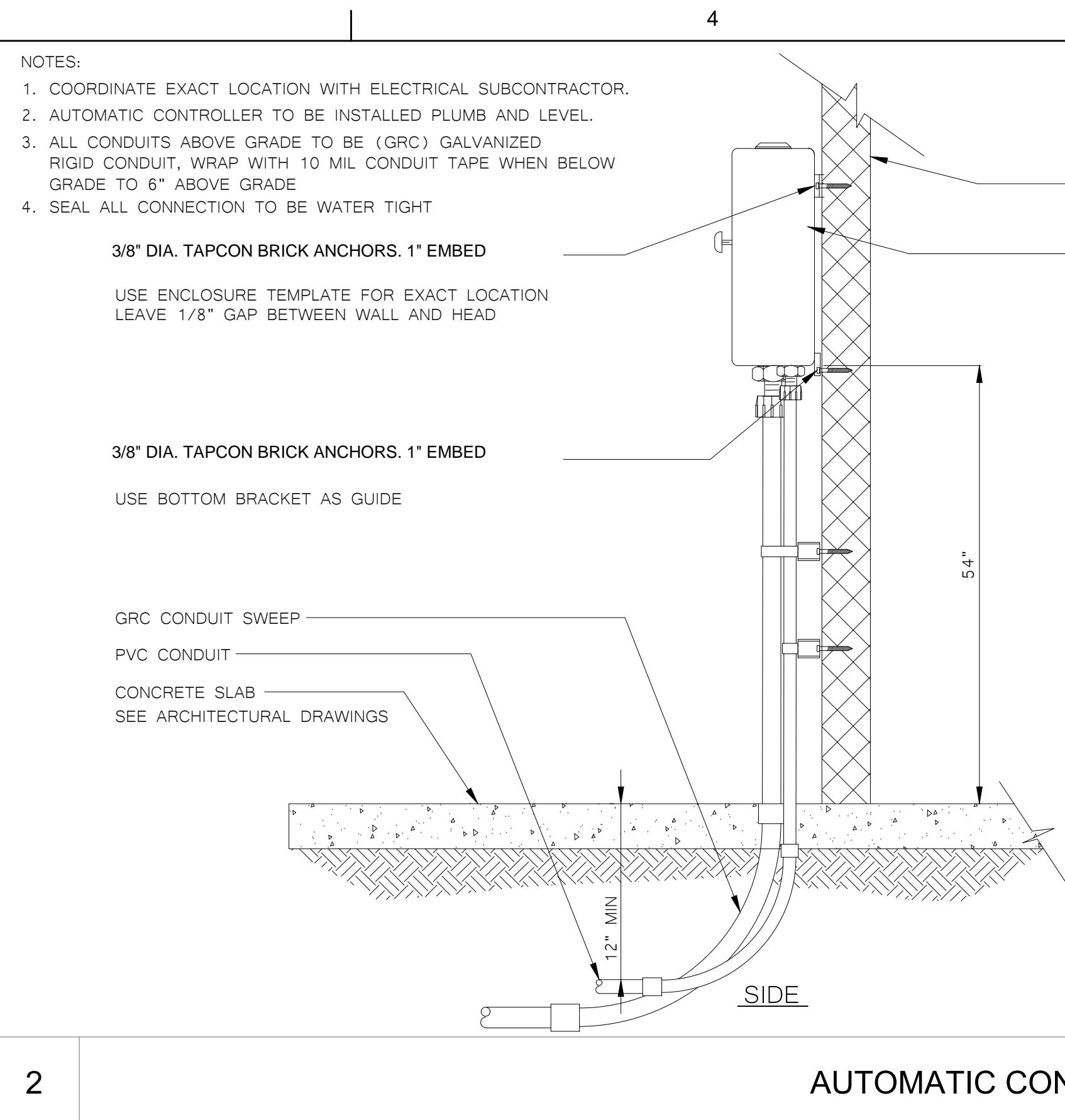
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE SACRAMENTO, CA 95824 SACRAMENTO COUNTY

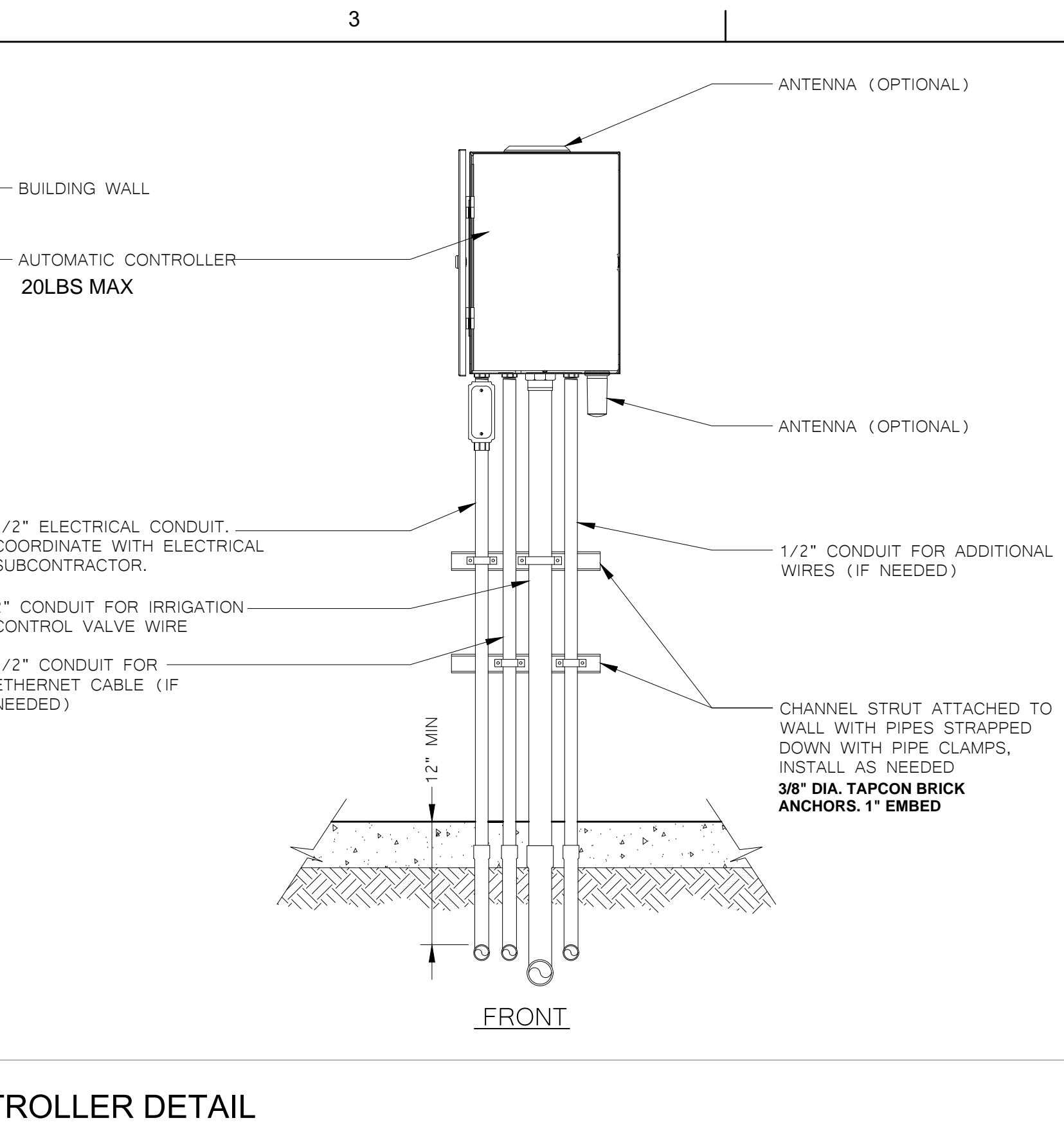
KEY PLAN: SHEET TITLE: SPRINKLER IRRIGATION PLAN. JOB NUMBER: SHEET NUMBER: DATE: JAN 08 2025. REVISION: L3.2



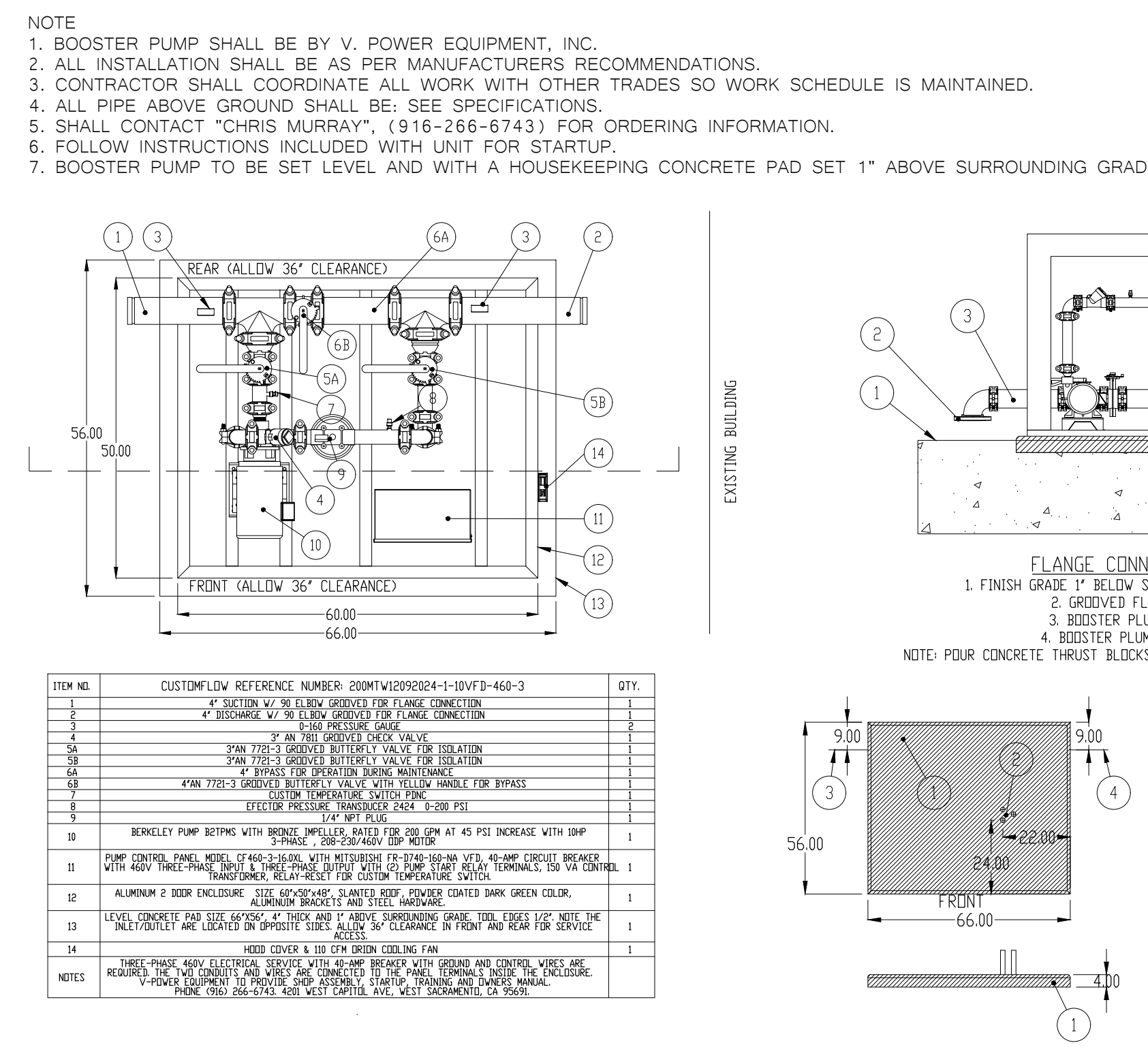
**1 9" CONCRETE MOWSTRIP DETAIL**



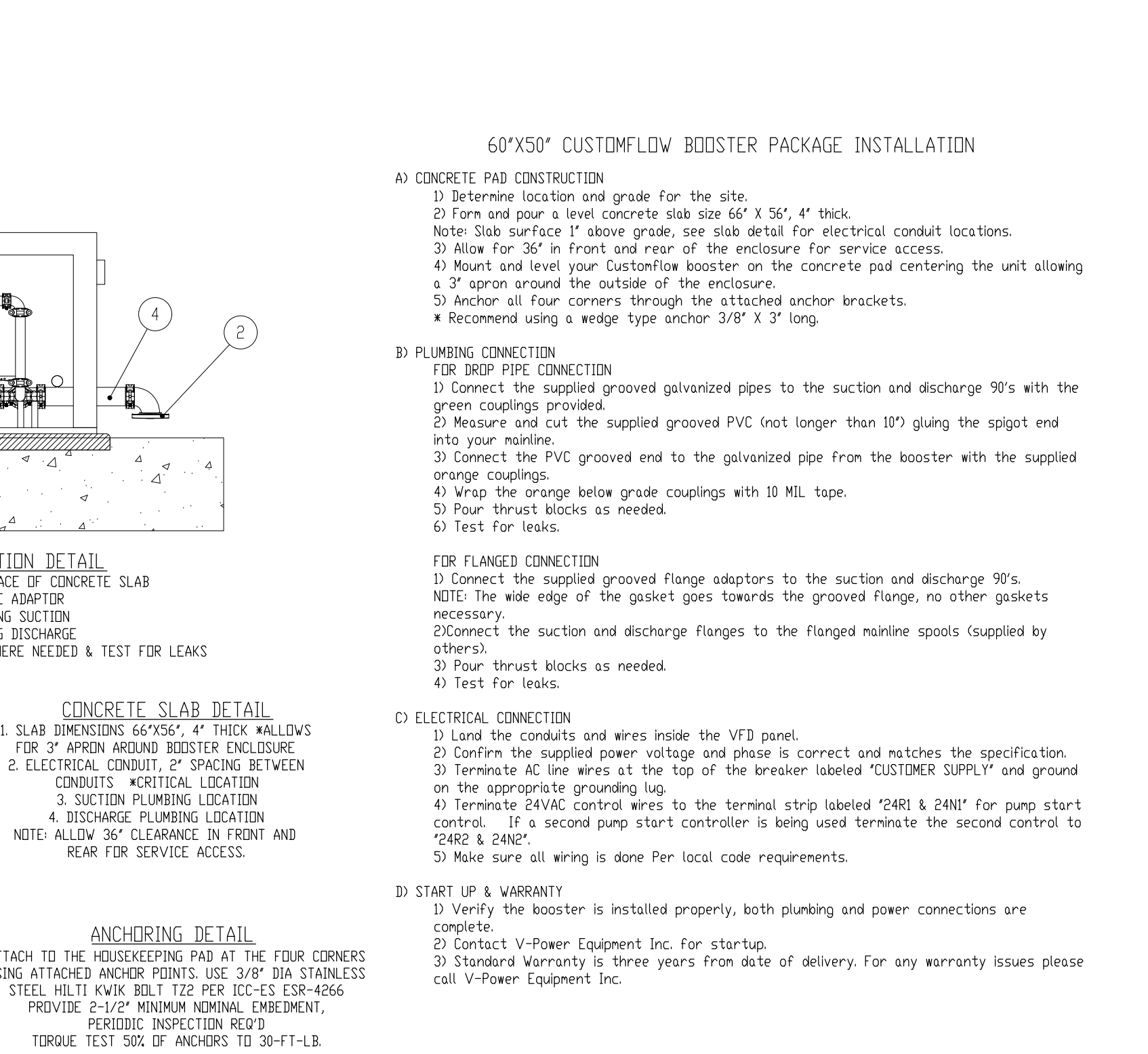
**2 AUTOMATIC CONTROLLER DETAIL**



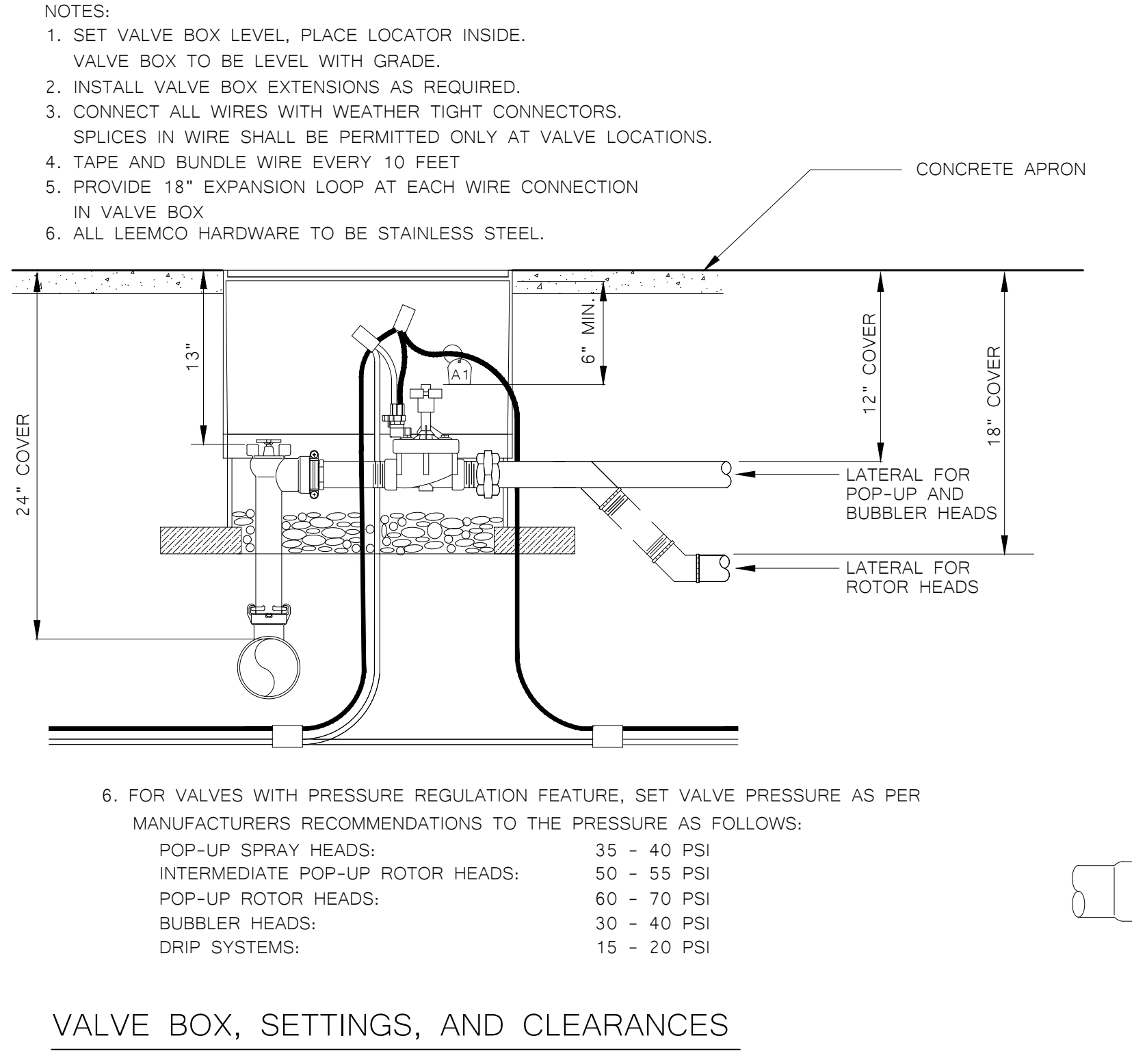
**3 LEEMCO SELF-RESTRAINED GATE VALVE DETAIL**



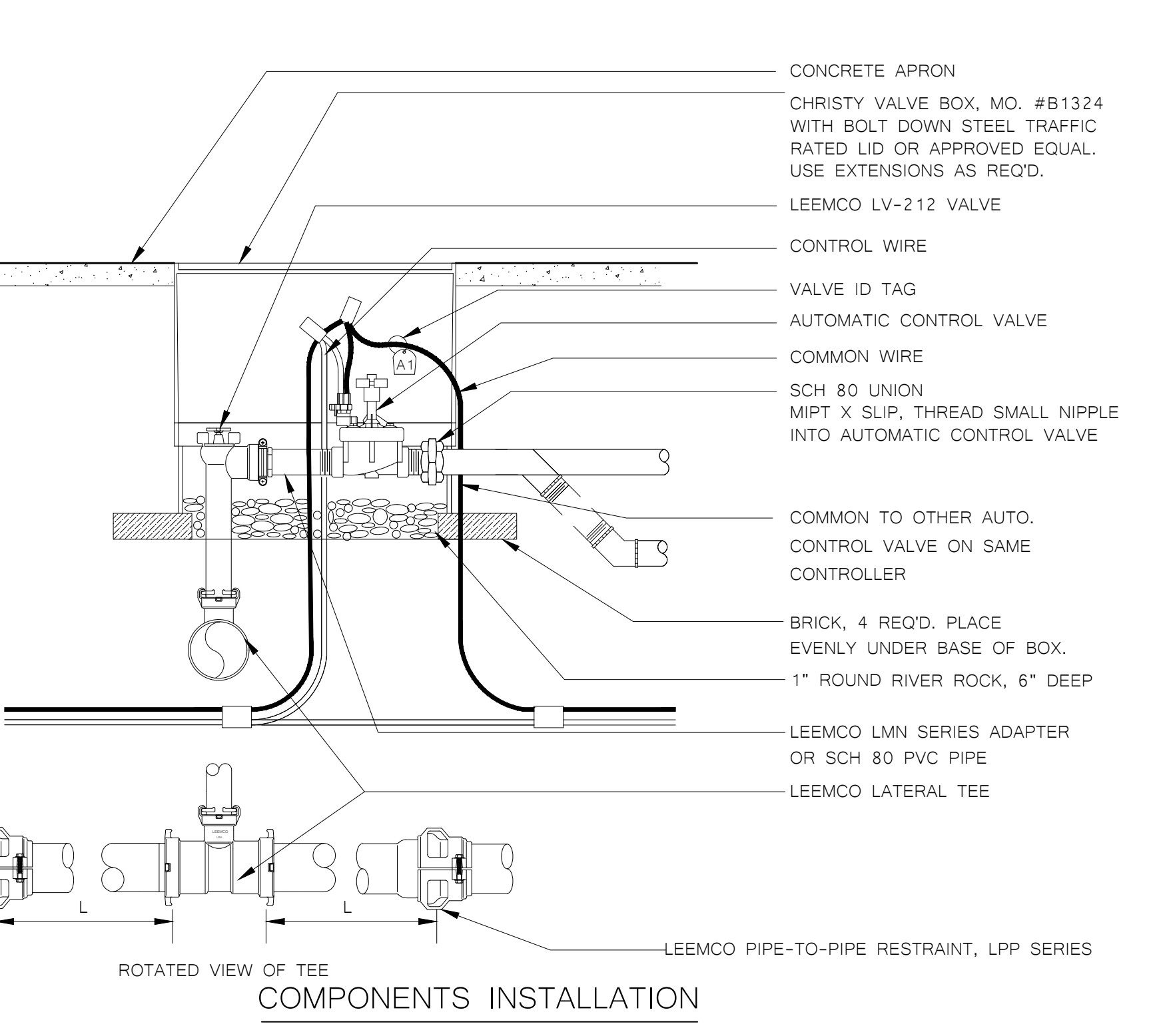
**4 BOOSTER PUMP DETAIL**



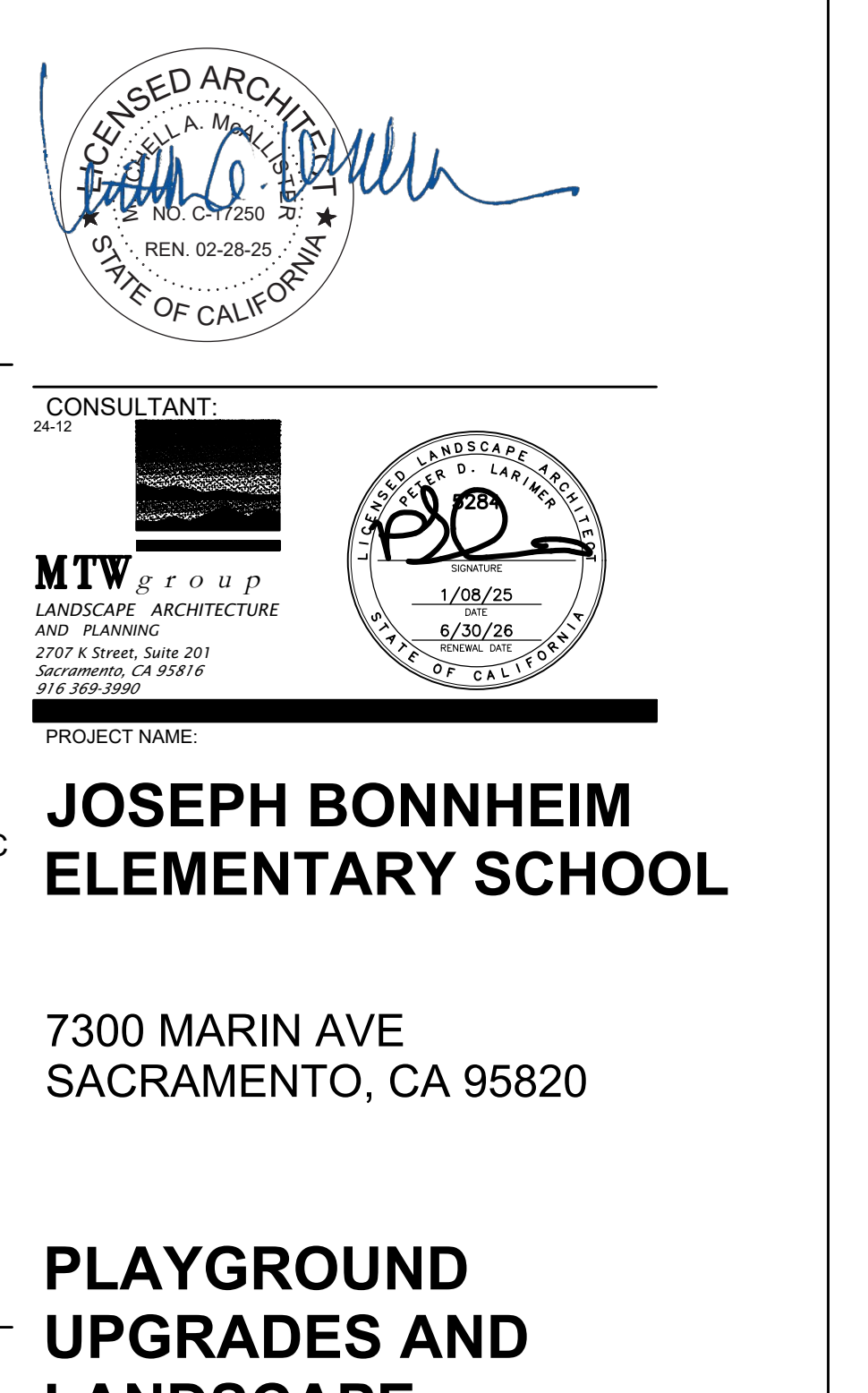
**5 AUTOMATIC CONTROL VALVE/LEEMCO ANGLE VALVE DETAIL**



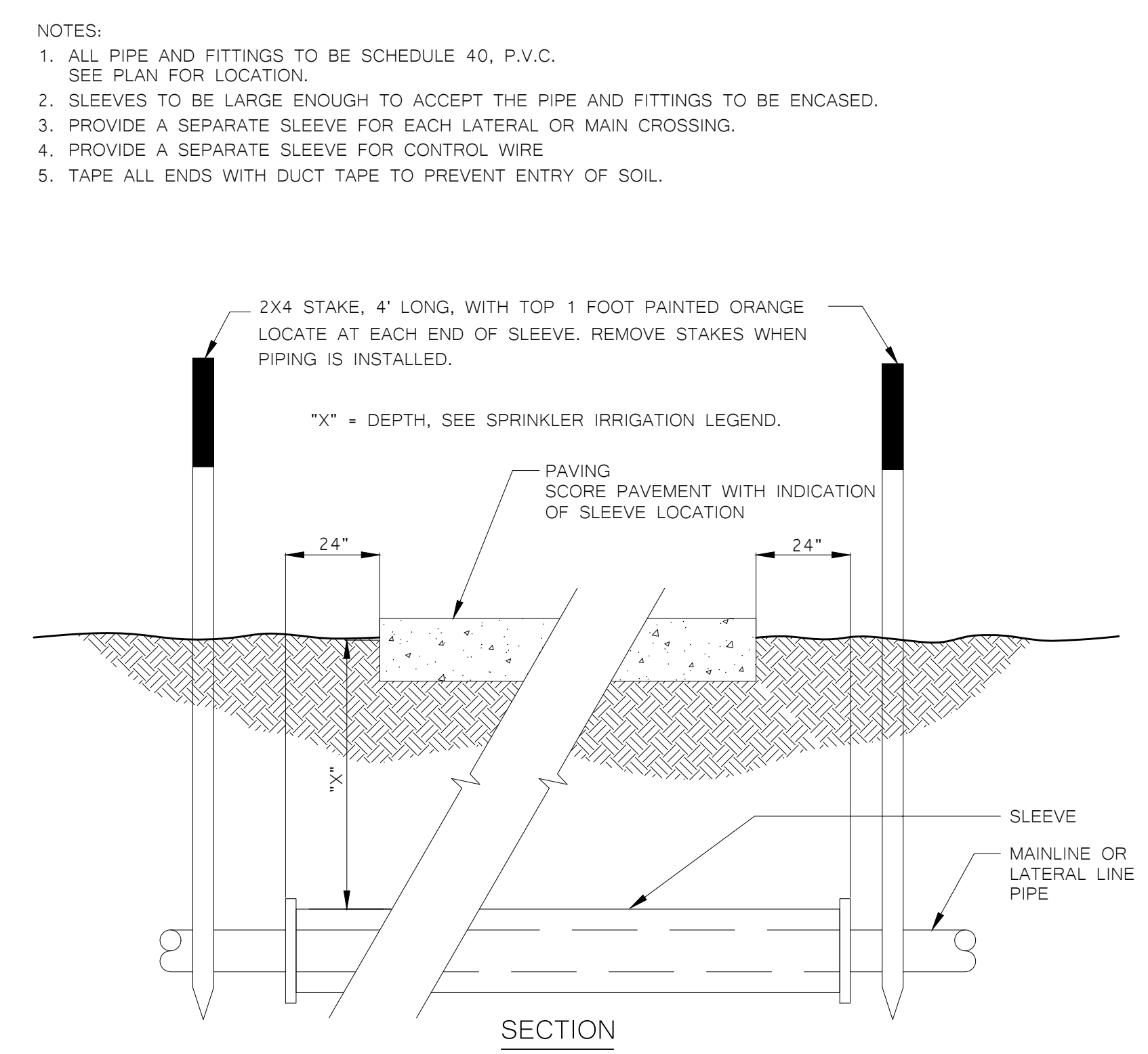
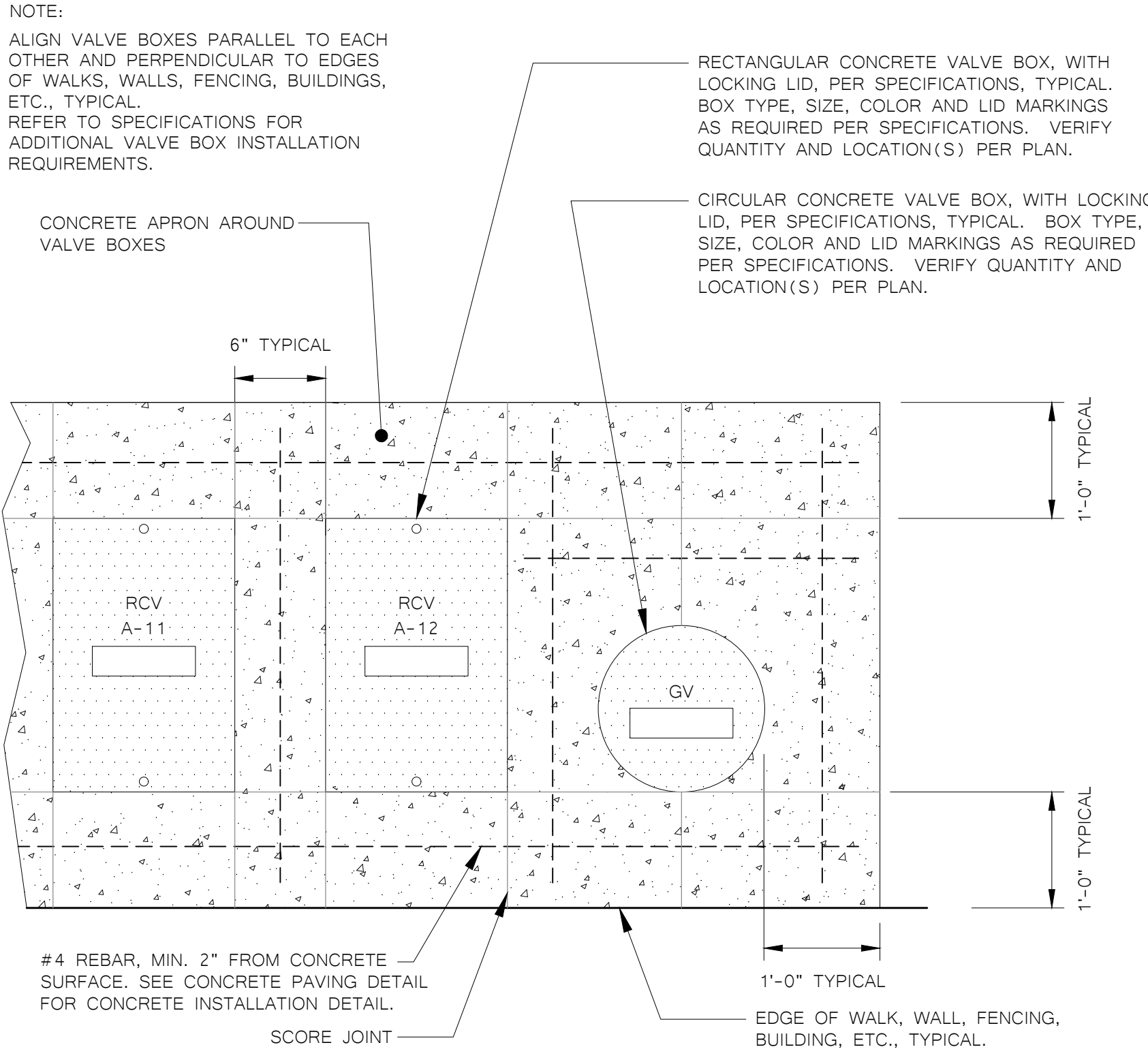
**6 TYPICAL CONCRETE VALVE BOX LAYOUT - IN LAWN**



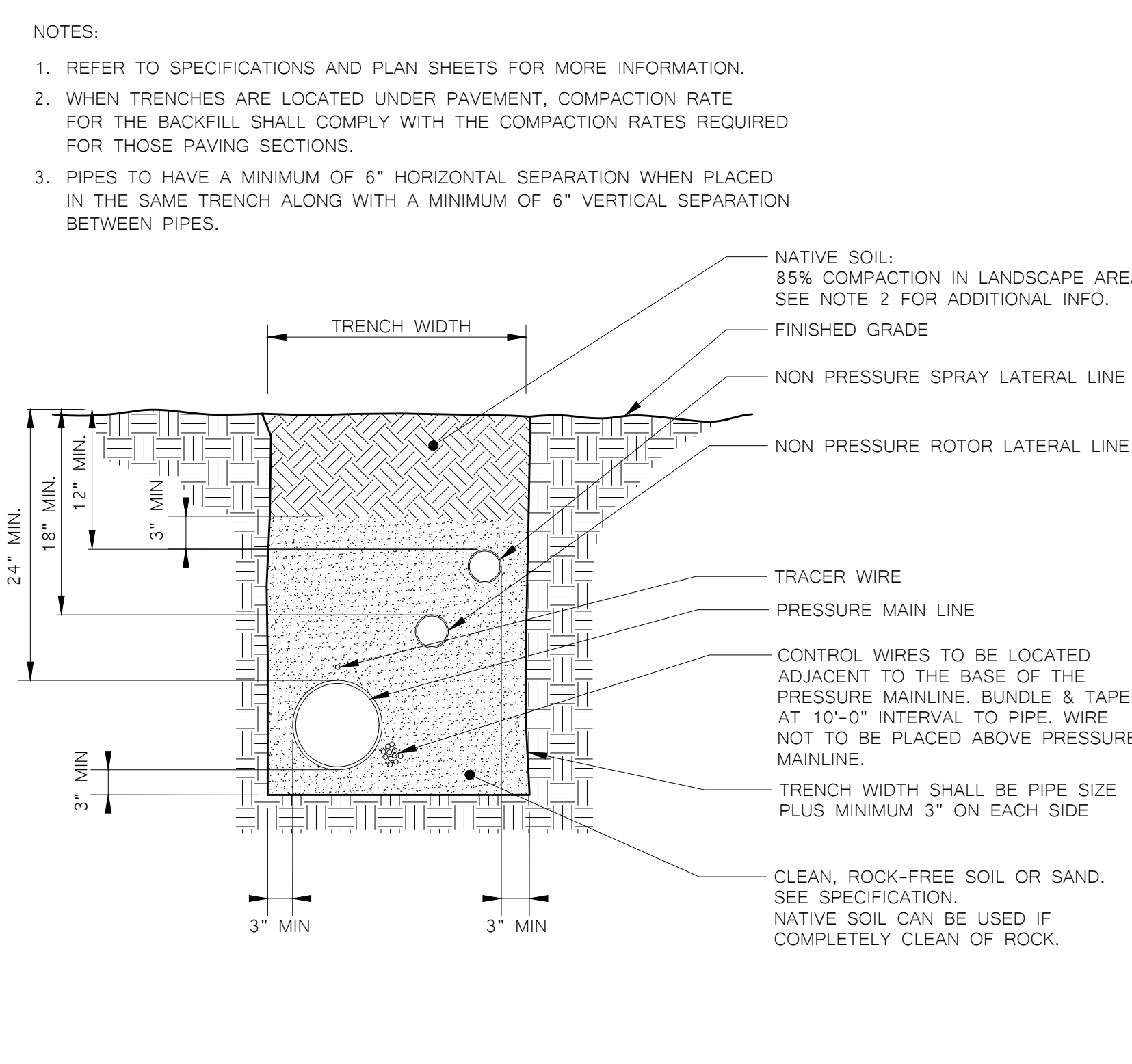
**7 SLEEVE DETAIL**



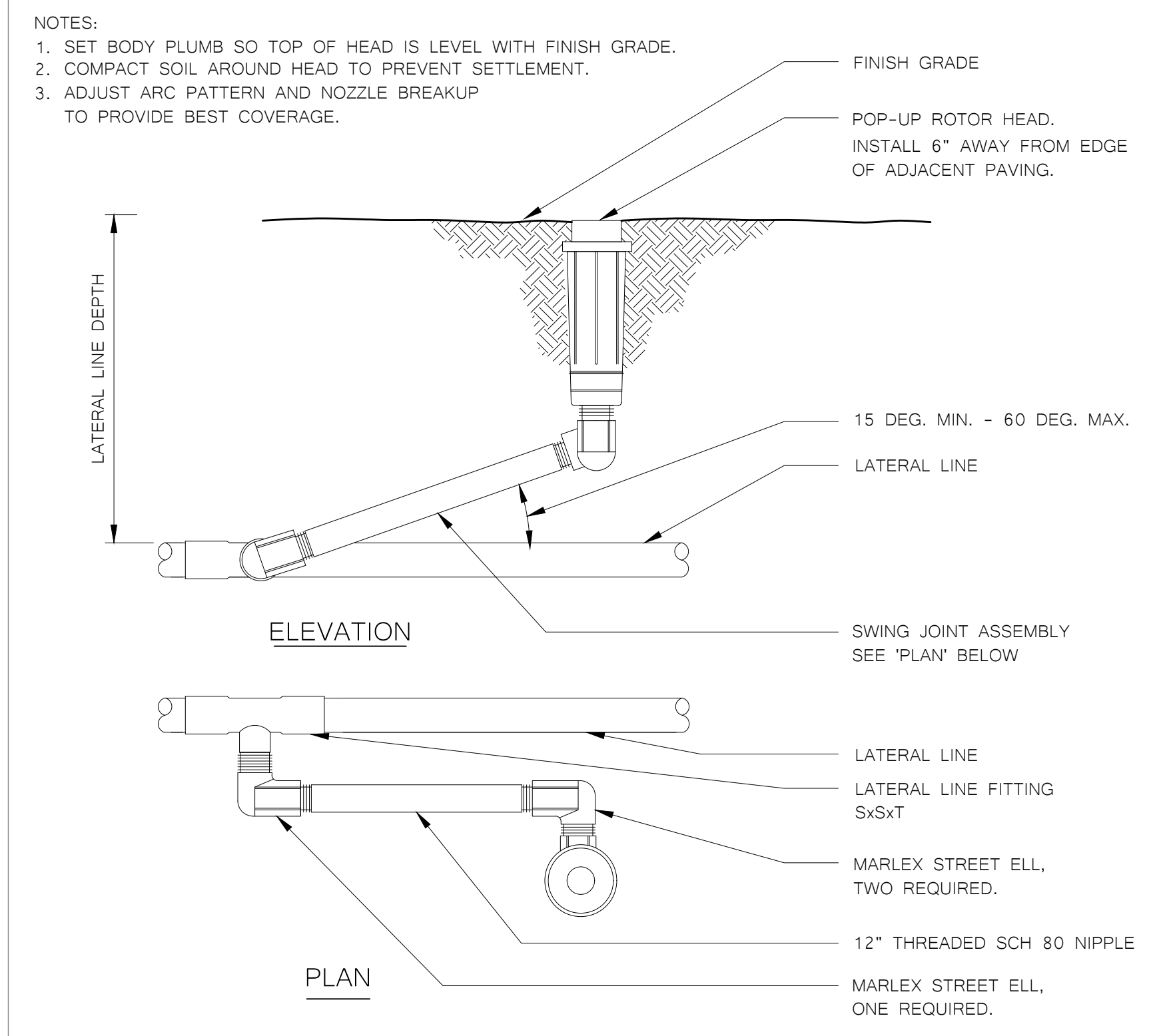
**8 PIPE TRENCH DETAIL**



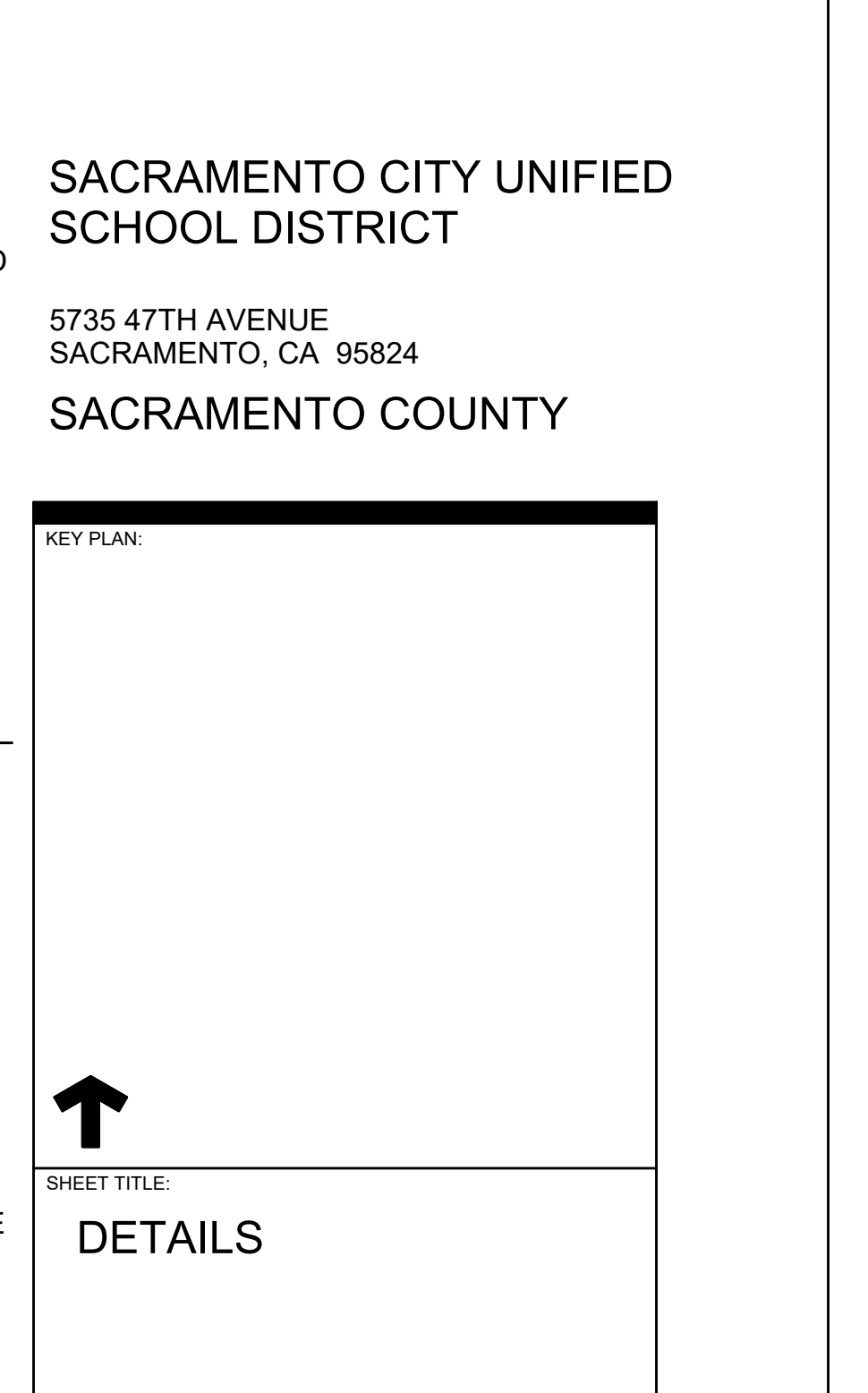
**9 POP-UP ROTOR HEAD DETAIL**



**6 TYPICAL CONCRETE VALVE BOX LAYOUT - IN LAWN**



**5 AUTOMATIC CONTROL VALVE/LEEMCO ANGLE VALVE DETAIL**



**9 POP-UP ROTOR HEAD DETAIL**

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APP: 02-123079 INC.  
REVIEWED FOR  
DATE: 01/17/2025

**DESIGN WEST**  
CALIFORNIA DESIGN WEST ARCHITECTS, INC.  
2100 19th Street  
Sacramento, CA 95818

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ARCHITECT

**SEISED ARCHITECT**  
STATE OF CALIFORNIA  
RENOVATION: 02-28-25

**CONSULTANT:**  
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1/08/25  
6/30/26

**JOSEPH BONNHEIM ELEMENTARY SCHOOL**

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**PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS**

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

5735 47TH AVENUE  
SACRAMENTO, CA 95824  
SACRAMENTO COUNTY

KEY PLAN:  
SHEET TITLE:  
**DETAILS**

JOB NUMBER: SHEET NUMBER:  
DATE: JAN 08 2025  
REVISION:  
**L4.1**



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 SS  FLS  ACS   
 DATE: 01/17/2025

IRRIGATION HYDROZONE INFORMATION TABLE

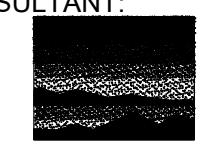
STATION #/HYDROZONE	PLANT WATER USE TYPE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) (SQ.FT.)	PF x HA (SQ.FT.)	IRRIGATION EFFICIENCY (IE)	ETWU (GALLONS)	
1	LAWN - HIGH - SLA	0.7	8,800	6160.0	0.75	264,289	
2	LAWN - HIGH - SLA	0.7	8,800	6160.0	0.75	264,289	
3	LAWN - HIGH - SLA	0.7	8,800	6160.0	0.75	264,289	
4	LAWN - HIGH - SLA	0.7	8,800	6160.0	0.75	264,289	
5	LAWN - HIGH - SLA	0.7	8,800	6160.0	0.75	264,289	
6	LAWN - HIGH - SLA	0.7	8,800	6160.0	0.75	264,289	
7	LAWN - HIGH - SLA	0.7	8,800	6160.0	0.75	264,289	
8	LAWN - HIGH - SLA	0.7	8,850	6195.0	0.75	265,790	
			TOTAL AREA	70,450	ETWU TOTAL	2,115,811	
			TOTAL AREA (SLA)	70,450			
Est (Sacramento) 51.9							
ESTIMATED TOTAL WATER USAGE (ETWU) = (ET0)(0.62)(PF)(HA)(IE+SLA) = GAL/YEAR							
MAXIMUM APPLIED WATER ALLOWANCE (MAWA) = (ET0)(0.62)((0.45 x LA)+(0.55 x SLA)) = GAL/YEAR							
						MAWA TOTAL	2,286,940

Plant Water Use Type	Plant Factor
Very Low	0 - 0.1
Low	0.2 - 0.3
Medium	0.4 - 0.6
High	0.7 - 1.0
SLA	1.0
<b>Irrigation Efficiency</b>	
Overhead	0.75
Drip	0.81

**DESIGN**  
*California*  
**WEST**  
 CALIFORNIA DESIGN  
 WEST ARCHITECTS, Inc.  
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 ARCHITECT



CONSULTANT:  
 24-12  
  
**MTW GROUP**  
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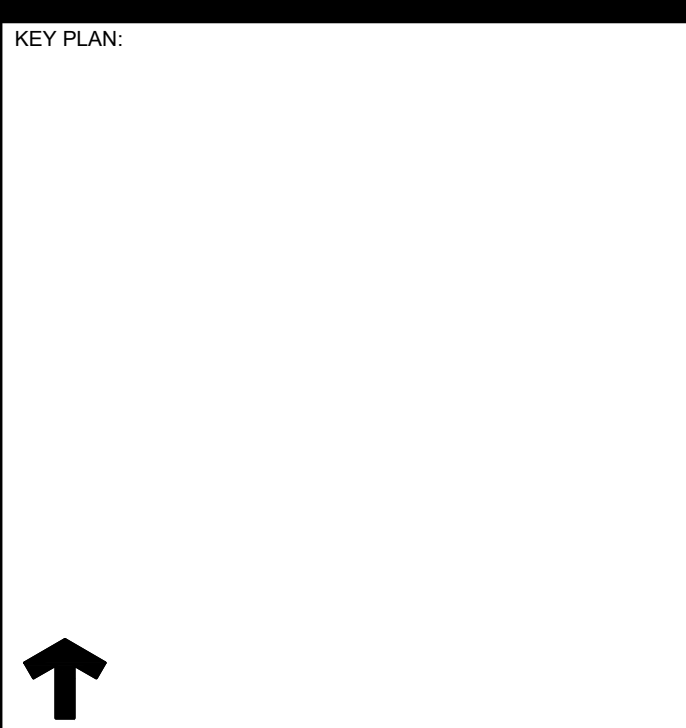
**JOSEPH BONNHEIM  
 ELEMENTARY SCHOOL**

7300 MARIN AVE  
 SACRAMENTO, CA 95820

**PLAYGROUND  
 UPGRADES AND  
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SACRAMENTO CITY UNIFIED  
 SCHOOL DISTRICT

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 SACRAMENTO COUNTY



KEY PLAN:  
 SHEET TITLE:  
**WATER EFFICIENCY  
 CHARTS AND  
 CALCULATIONS**

JOB NUMBER: SHEET NUMBER:  
 DATE: JAN 08 2025  
 REVISION:  
**L5.1**

**APPLICABLE CODES AND STANDARDS**

2022 California Administrative Code (CAC), Part 1, Title 24 CCR\*  
 2022 California Building Code (CBC), Part 2, Title 24 CCR  
 2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)  
 2022 California Electrical Code (CEC), Part 3, Title 24 CCR  
 (2020 National Electrical Code and 2022 California Amendments)  
 2022 California Mechanical Code (CMC), Part 4, Title 24 CCR  
 (2021 IAPMO Uniform Mechanical Code and 2022 California amendments)  
 2022 California Plumbing Code (CPC), Part 5, Title 24 CCR  
 (2021 IAPMO Uniform Plumbing Code and 2022 California amendments)  
 2022 California Energy Code (CEC), Part 6, Title 24 CCR  
 2022 California Fire Code (CFC), Part 9, Title 24 CCR  
 (2021 International Fire Code and 2022 California Amendments)  
 2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR  
 (2021 International Existing Building Code and 2022 California Amendments)  
 2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR  
 2022 California Referenced Standards Code, Part 12, Title 24 CCR  
 Title 19 CCR, Public Safety, State Fire Marshal Regulations  
 2019 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35)  
 Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption  
 NFPA 13 (2022) - Standard for the Installation of Sprinkler Systems (CA amended)  
 NFPA 14 (2019) - Standard for the Installation of Standpipe and Hose Systems (CA amended)  
 NFPA 17 (2021) - Standard for Dry Chemical Extinguishing Systems  
 NFPA 17A (2021) - Standard for Wet Chemical Extinguishing Systems  
 NFPA 20 (2019) - Standard for the Installation of Stationary Pumps for Fire Protection  
 NFPA 22 (2018) - Standard for Water Tanks for Private Fire Protection  
 NFPA 24 (2019) - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)  
 NFPA 72 (2022) - National Fire Alarm and Signaling Code (CA amended)  
 NFPA 80 (2019) - Standard for Fire Doors and Other Opening Protectives  
 NFPA 2001 (2018) - Standard on Clean Agent Fire Extinguishing Systems (CA amended)  
 UL 300 (2005, R2010) - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Equipment  
 UL 464 (2003) - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories  
 UL 521 (1999) - Standard for Heat Detectors for Fire Protective Signaling Systems  
 UL 1971 (2002, R2010) - Standard for Signaling Devices for the Hearing Impaired  
 ICC 300 (2017) - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands

**ABBREVIATIONS & SYMBOLS**

A	AREA	S	SECTION
DIM.	DIMENSION	SHT.	SHEET
EA.	EACH	SIM.	SIMILAR
EXT.	EXTERIOR	SO.	SQUARE
FT.	FOOT OR FEET	Std.	STANDARD
GA	GAGE	STRUC.	STRUCTURAL
INSP.	INSPECTIONS	SYM.	SYMMETRICAL
INT.	INTERIOR	t	THICKNESS
KSI	KIPS PER SQUARE INCH	TYP.	TYPICAL
I	MOMENT OF INERTIA	U.O.N.	UNLESS OTHERWISE NOTED
LB	POUND	xS	EXTRA STRONG
MAX.	MAXIMUM	Ø	DIAMETER
MIN.	MINIMUM	#	NUMBER
NA	NOT APPLICABLE	<	LESS THAN
NO.	NUMBER	>	GREATER THAN
OZ.	OUNCES	≤	LESS THAN OR EQUAL TO
PL	PLATE	≥	GREATER THAN OR EQUAL TO
PSF	POUND PER SQUARE FOOT		

**DESIGN CRITERIA**

- VERTICAL LOADS
  - CANOPY LIVE LOAD = 5 psf (NON-REDUCIBLE)
  - CANVAS DEAD LOAD = 0.069 psf
  - SUPERIMPOSED LOAD = 0.5 psf (TEMPORARY LOAD)
  - LIVE LOAD = 5 psf
  - GROUND SNOW LOAD = 0 psf
- LATERAL LOADS
  - WIND (ASCE/SEI 7-16 DIRECTIONAL PROCEDURE)
    - ULTIMATE DESIGN WIND SPEED:  $V_{ULT} = 110$  mph
    - NOMINAL DESIGN WIND SPEED:  $V_{SD} = 85$  mph
    - EXPOSURE CATEGORY = "C"
    - RISK CATEGORY = II
    - CLASSIFICATION: OPEN STRUCTURE (CLEAR WIND FLOW),  $K_{zt} = 1.0$
    - WIND VELOCITY PRESSURE:  $q_h = 0.00256 K_z K_{zt} V^2 = 22.38$  psf
    - NOTE: WIND IS BASED ON OPEN STRUCTURE WITH CLEAR WIND FLOW
  - EARTHQUAKE (EQUIVALENT LATERAL FORCE PROCEDURE)
    - MAPPED SPECTRAL RESPONSE ACCELERATIONS:  $S_s = 2.500$ ,  $S_1 = 0.750$
    - SITE CLASS = "D", UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE  $S_{M1}$  VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.
    - RISK CATEGORY = II
    - SEISMIC DESIGN CATEGORY (SDC) = "E"
    - ORDINARY STEEL CANTILEVERED COLUMN SYSTEM
    - SPECTRAL RESPONSE COEFFICIENTS,  $F_a = 1.2$ ,  $F_v = 1.7$ ,  $S_{D5} = 2.0$ ,  $S_{D1} = 0.850$
    - REDUNDANCY FACTOR: FOR HIP STYLE  $\rho = 1.0$ , FOR UMBRELLA STYLE  $\rho = 1.3$
    - IMPORTANCE FACTOR:  $I_e = 1.0$
    - OVERSTRENGTH FACTOR:  $\Omega_p = 1.25$
    - RESPONSE MODIFICATION FACTOR:  $R = 1.25$
    - SEISMIC RESPONSE COEFFICIENT:  $C_s = 1.6$
    - SEISMIC BASE SHEAR:  $V = 1.6W$  (STRENGTH LEVEL)
    - MAXIMUM FUNDAMENTAL PERIOD OF STRUCTURE: 0.25 seconds
    - HORIZONTAL OR VERTICAL IRREGULARITY: NONE
- ULTIMATE REACTION LOADS (MAX. LOADS)
  - HIP SHADE (PER COLUMN)
    - DEAD: 0.57 k
    - LIVE: 1.84 k
    - WIND (LRFD):
      - 2.2 k (DOWN)
      - 1.1 k (UPLIFT)
      - 7.6 k (HORIZONTAL)
      - 89.9 k-ft (MAX. MOMENT)
    - SEISMIC(LRFD):
      - 0.83 k (HORIZONTAL)
      - 9.9 k-ft (MAX. MOMENT)
  - UMBRELLA SHADE (PER COLUMN)
    - DEAD: 1.04 k
    - LIVE: 2.81 k
    - WIND (LRFD):
      - 4.87 k (DOWN)
      - 3.24 k (UPLIFT)
      - 3.3 k (HORIZONTAL)
      - 27.6 k-ft (MAX. MOMENT)
    - SEISMIC (LRFD):
      - 1.64 k (HORIZONTAL)
      - 19.88 k-ft (MAX. MOMENT)
- PIER FRICTION RESISTANCE
  - PIER FRICTION COEFFICIENT:  $\mu = 0.3$
  - MAXIMUM PIER FRICTION RESISTANCE:  $f = 28$  k
- MINIMUM CLEARANCES
  - AS PER IR PC-4 5.4.5: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE CANOPIES IS: 8 x PIER DIAMETER (16', 20', OR 24' FROM PIER TO PIER).
  - THE MINIMUM SEISMIC SEPARATION BETWEEN ADJACENT SHADE STRUCTURES IS 4 INCHES.

**GENERAL NOTES**

- MATERIAL SPECIFICATIONS
  - SOIL (NO SOIL REPORT PROVIDED): SOIL BEARING PRESSURE = 1500 PSF AT 24" BELOW THE LOWEST GRADE. LATERAL BEARING PRESSURE = 200 PSF/FT (CLASS 5), INCREASED PER CBC SECTION 1806A.3.4. A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION WHEN USING LOAD-BEARING VALUES ABOVE THE STATED MAXIMUMS FOR CLASS 5 SOIL. ALL ALLOWABLE PIER FRICTIONAL UPLIFT CAPACITY = 250 PSF. 1/3 INCREASE FOR SHORT TERM LOADS IS NOT ALLOWED.
  - CONCRETE:  $f_c = 4,500$  psi MIN. @ 28 DAYS (SPECIAL INSPECTION REQUIRED). CONCRETE SHALL BE MADE WITH TYPE V CEMENT, PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7 OF ACI 318 TABLE 19.3.2.1. WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.45. SITE-SPECIFIC GEOTECHNICAL REPORT MUST BE PROVIDED IF A LOWER  $f_c$  IS DESIRED. APPLICABLE EXPOSURE LEVELS = S2. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3. ADMIXTURES CONTAINING CALCIUM AND CHLORIDE ARE PROHIBITED.
  - REINFORCING STEEL: ASTM A615, GRADE 60, EXCEPT STIRRUPS AND TIES SHALL BE GRADE 40.
  - PLATE STEEL: ASTM A36,  $F_y = 36$ ksi
  - SCHEDULE PIPE: ASTM A500 GRADE B&C,  $F_y = 46$  ksi
  - STRUCTURAL TUBES: ASTM A500 GRADE B,  $\phi < 3"$ ,  $F_y = 50$  ksi,  $\phi \geq 3"$ , 46 ksi. CORROSION PROTECTION SHALL BE TRIPLE COATED FLO-COAT® HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 1057/A1057M.
  - MACHINED BOLTS: ASTM F593C/304 OR F593D/304 (LOCK NUTS ARE REQUIRED).
  - LOCK NUTS: ASTM F594; ASME B18.16.6
  - SELF-TAP SCREWS: AISI 410 SS
  - ANCHOR BOLTS: ASTM F1554 GRADE 36 MINIMUM
  - ANCHOR NUTS: ASTM A633
  - CABLE STEEL: 7x19 OR 8x36 CLASS IWRC (TYPICALLY REFERRED TO AS AIRCRAFT CABLE), CABLE SHALL BE AISI 304 STAINLESS STEEL, ASTM A240, NOMINAL CABLE STRENGTH FOR 3/16"Ø  $F_u = 3.7k$ , 1/4"Ø  $F_u = 6.4k$ , 5/16"Ø  $F_u = 9k$ , 3/8"Ø  $F_u = 12k$ , 7/16"Ø  $F_u = 16.3k$ . ALLOWABLE STRENGTH FOR 3/16"Ø  $S_a = 1.23k$ , 1/4"Ø  $S_a = 2.18k$ , 5/16"Ø  $S_a = 3.07k$ , 3/8"Ø  $S_a = 4.09k$ , 7/16"Ø  $S_a = 6.3k$ . MIN. PRE TENSION FORCE ON 1/4"Ø = 0.10k, ON 5/16"Ø = 0.15k, ON 3/8"Ø = 0.20k, ON 7/16"Ø = 0.25k. MAX. PRE TENSION FORCE ON 1/4"Ø = 0.15k, ON 5/16"Ø = 0.23k, ON 3/8"Ø = 0.30k, ON 7/16"Ø = 0.35k. WELDING ELECTRODES SHALL BE GMAW/ SEMI-AUTOMATIC, GRADE ER70S-6 PER AWS A-5.18 GROUT: NON-SHRINK, NON-METALLIC GROUT, SHALL MEET ASTM C1107, MIN.  $F_c = 5,000$  psi. EXPOSED STEEL FASTENERS: ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), OR HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329 OR ASTM A325 HIGH STRENGTH)
- WELDING
  - WORKMANSHIP AND TECHNIQUE OF WELDING ARE TO CONFORM TO THE 2022 C.B.C. SECTION 2204A.1. ALL WELDS SHALL BE INSPECTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2022 C.B.C. CHAPTER 17A, SECTION 1705A.2.5
- CABLE CLIPS & TURNBUCKLES
  - CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL SPECIFICATION FF-C-450 TYPE 1, CLASS 1 INSTALLED WITH THE U-BOLT ON THE CABLE DEAD END (SEE SPECIFICATION SHEET ON FINAL SHEET OF THIS SUBMITTAL). CABLE CLIPS WILL DEVELOP THE ALLOWABLE STRENGTH OF THE CABLE WHEN PROPER QUANTITY AND BOLT TORQUE IS USED.
  - 3/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 1/4"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 5/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 3/8"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, AND 7/16"Ø CABLE REQUIRES A MINIMUM OF 4 CLIPS.
  - BOLT TORQUE FOR 3/16"Ø CABLE CLIPS = 7 lb-ft, FOR 1/4"Ø CABLE CLIPS = 15 lb-ft, FOR 5/16"Ø CABLE CLIPS = 30 lb-ft, FOR 3/8"Ø CABLE CLIPS = 45 lb-ft, FOR 7/16"Ø CABLE CLIPS = 65 lb-ft.
  - TURNBUCKLES SHALL BE AISI 316 STAINLESS STEEL. ALLOWABLE STRENGTH FOR 1/2"Ø  $S_a = 1.54k$ , 5/8"Ø  $S_a = 2.46k$ , FOR 3/4"Ø  $S_a = 3.52k$ .
- BOLT HOLES
  - ANCHOR BOLT HOLE DIAMETERS SHALL BE 1/8" LARGER THAN THE BOLT DIAMETER. ALL OTHER CONNECTION BOLT HOLE DIAMETERS SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER
- CORROSION PROTECTION
  - ALL STEEL MEMBERS (U.N.O.) SHALL BE POWDER COATED WITH A ZINC RICH PRIMER AND TGIC POLYESTER TOP COAT MEETING ASTM B117, ASTM D2247, AND ASTM D4587-05
- FABRIC MATERIAL
  - FABRIC MATERIAL SHALL BE COMMERCIAL NINETYFIVE 340 FR FABRIC
  - MAXIMUM MODULUS OF ELASTICITY = 657 LB/IN PER FABRIC THICKNESS
  - THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER
  - NOMINAL WEIGHT = 10 oz/yd<sup>2</sup>
  - MIN. ULTIMATE BREAKING STRENGTH PER ASTM D 5034: WARP = 158.6 lbs, WEFT = 412.3 lbs
  - MAX. ELONGATION: WARP = 49%, WEFT = 89%
  - MIN. ULTIMATE TEAR STRENGTH PER ASTM D 2261: WARP = 43.0 lbf, WEFT = 39.6 lbf
  - ALLOWABLE STRENGTH OF SEAMS: 67.3 lb/in
  - FIRE RETARDANT RATING PER CSFM - TITLE 19, (LICENSE # : F-037801).
  - FABRIC SHADE STRUCTURES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CBC SECTION 3102 AND 3105
  - FABRIC MATERIAL SHALL COMPLY WITH CBC SECTIONS 3102.3.1, 3105.3, AND CCR, TITLE 19, DIVISION 1, CHAPTER 8
- QUALITY CONTROL
  - QUALITY CONTROL PERFORMED BY THE SUPPLIER SHALL INCLUDE VISUAL AND/OR INSTRUMENTED VERIFICATION OF THE FOLLOWING ASPECTS, IF APPLICABLE: MATERIAL TRACEABILITY, WELD QUALITY, DIMENSIONAL ACCURACY, COATINGS, ASSEMBLY, PACKING, AND SHIPPING.
  - ALL MANUFACTURER PERSONNEL SHALL RECEIVE TRAINING AS MANDATED BY SUPERIOR RECREATIONAL PRODUCTS. QUALITY PERSONNEL WILL BE CONTINUALLY TRAINED, INCLUDING PROCESS AUDITS THROUGHOUT THE PRODUCT REALIZATION. QUALITY ASSURANCE AUDITS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN SRP AND LABCS CERTIFIED INSPECTOR.
  - ALL WELDED STEEL PRODUCTS SHALL RECEIVE QUALITY ASSURANCE AUDITS AFTER WELDING TO ENSURE DIMENSIONAL ACCURACY AND WELD QUALITY. PAINTED STEEL PRODUCTS SHALL RECEIVE RANDOM QUALITY ASSURANCE AUDITS USING A FILM THICKNESS GAUGE 250 TIMES PER DAY ON PRIMER COAT AND 250 PER DAY ON TOP COAT TO ENSURE PROPER COATING THICKNESS. STANDARDS FOR EXECUTION OF THE WORK SHALL FOLLOW SUPERIOR RECREATIONAL PRODUCTS' WORK INSTRUCTIONS, QUALITY PROCEDURES, AND DSA APPROVED SEALED DRAWINGS. MANUFACTURER SHALL ADHERE TO DIMENSIONAL TOLERANCES AS SPECIFIED ON APPLICABLE DRAWINGS AND DOCUMENTATION.
- STANDARD NOTES
  - ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
  - CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
  - A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR
  - A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT
  - SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.
  - THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c) PART 1, TITLE 24, CCR)
  - GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
  - AS PER IR PC-4 1.7: FLOOD ZONE: DESIGN SHALL COMPLY WITH CBC SECTION 1612A AND PROCEDURE PR 14-01: FLOOD DESIGN AND PROJECT SUBMITTAL REQUIREMENTS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.
  - AS PER IR PC-4 1.8: GEOHAZARD REPORTS: GEOHAZARD REPORTS ARE NOT REQUIRED FOR OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQ. FT. UP TO A MAXIMUM OF 4,000 SQ. FT. AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.
  - AS PER IR PC-4 5.4.5: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE CANOPIES IS: 8 x PIER DIAMETER (16', 20', OR 24' FROM PIER TO PIER)
  - THE MINIMUM SEISMIC SEPARATION BETWEEN ADJACENT SHADE STRUCTURES IS 4 INCHES. AS PER IR PC-4 5.7: PIER 8 SHALL ALLOW SPREAD FOOTINGS MAY BE COMBINED WITH THE SAME SHADE STRUCTURE IF ALL COLUMNS IN THE SHADE STRUCTURE HAVE THE SAME HEIGHT.
  - SHADE STRUCTURE APPROVAL FOR WILDLAND-URBAN INTERFACE PER CBC 7A TO BE FIELD VERIFIED. THIS PC HAS NOT BEEN APPROVED FOR USE IN A FIRE HAZARD SEVERITY ZONE PER CBC CHAPTER 7A.
  - MINIMUM SETBACK LIMIT FOR THE SHADE STRUCTURES AS PER FIGURE 1:

INDEX (Sheet Count: 5)	
#	Drawing Title
S1	COVER SHEET AND NOTES
S2	ELEVATION DETAILS
S3	TYPICAL DETAILS
S4	REFERENCE TABLES
S5	SPECIFICATION INFORMATION
S6	EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

**DESIGN PARAMETER CHECKLIST FOR OVER-THE-COUNTER REVIEW**

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE-SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.

THIS PRE-CHECKED SUBMITTAL IS APPLICABLE UNDER THE FOLLOWING CIRCUMSTANCES:

- THE CONSTRUCTION TYPE IS "IIB"
- THE RISK CATEGORY IS "II" OR LESS
- THE WIND EXPOSURE CATEGORY IS "C" OR LESS
- THE SOIL CLASS IS "D" OR BETTER
- THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS  $\leq 110$  mph
- THE PROJECT SITE SEISMIC DESIGN CATEGORY IS "E" OR LESS
- THE PROJECT SITE IS NOT IN A FLOOD ZONE (WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN PC ARE STILL APPLICABLE)
- THE PROJECT SITE IS NOT IN AN AREA CLASSIFIED AS A WILD LAND URBAN INTERFACE FIRE AREA (A FIRE HAZARD SEVERITY ZONE)
- NONE OF THE MAXIMUM DESIGN CRITERIA ARE EXCEEDED
- ALLOWABLE SOIL COMPRESSIVE STRENGTH IS 1,500 psf OR GREATER
- LATERAL BEARING PRESSURE SHALL BE 200 PSF/FT (INCREASED PER CBC SECTION 1806A.3.4) OR GREATER
- PIER FRICTIONAL RESISTANCE SHALL BE LARGER THAN USED IN DESIGN
- IF THE CANOPY SIZE IS  $\leq 1,600$  ft<sup>2</sup> IN AREA, COMPLYING WITH THE REQUIREMENTS OF DSA IR A-4 SECTION 3.1.1, SUPPORTED ON ALL CORNERS (3 COLUMNS MINIMUM), A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED -OR-
- IF THE CANOPY SIZE IS  $< 4,000$  ft<sup>2</sup> IN AREA AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUEFACTION EXISTS, A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED
- THE CANOPY SIZE PROVIDES THE MINIMUM REQUIRED AREA FOR THE SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE SELECTION CHECKLIST)

**OCCUPANCY USE SELECTION CHECKLIST**

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED OCCUPANCY USE FOR THIS FABRIC CANOPY.

- ASSEMBLY GROUP A-2
- ASSEMBLY GROUP A-3
- BUSINESS GROUP B
- EDUCATIONAL GROUP E
- INTENDED OCCUPANCY LOAD 60 PERSONS

**SITE-SPECIFIC CODE ANALYSIS**

THIS SECTION IS TO BE FILLED OUT BY THE ARCHITECT OF RECORD FOR SITE-SPECIFIC APPROVAL  
 TYPE OF CONSTRUCTION: TYPE IIB  
 FIRE SPRINKLER: NO  
 ALLOWABLE AREA = 1200 ft<sup>2</sup>

CODE ANALYSIS			
OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (ft <sup>2</sup> )
E	20	60	1200

NOTE: THE INTENDED USE AND OCCUPANCY TO BE SPECIFIED ON SITE-SPECIFIC APPLICATION DRAWINGS.

**CANOPY SIZE SELECTION CHECKLIST**

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED SIZES USED FOR THIS FABRIC CANOPY SUBMITTAL. SELECT ONE STYLE/SIZE AND ONE HEIGHT.

- NOTES:
- HEIGHT OPTIONS ARE FROM 9FT TO 12FT.
  - INTERMEDIATE SIZES MAY USE THE MEMBER SIZES OF THE NEXT LARGEST CANOPY WITH AN IDENTICAL WIDTH TO LENGTH RATIO.

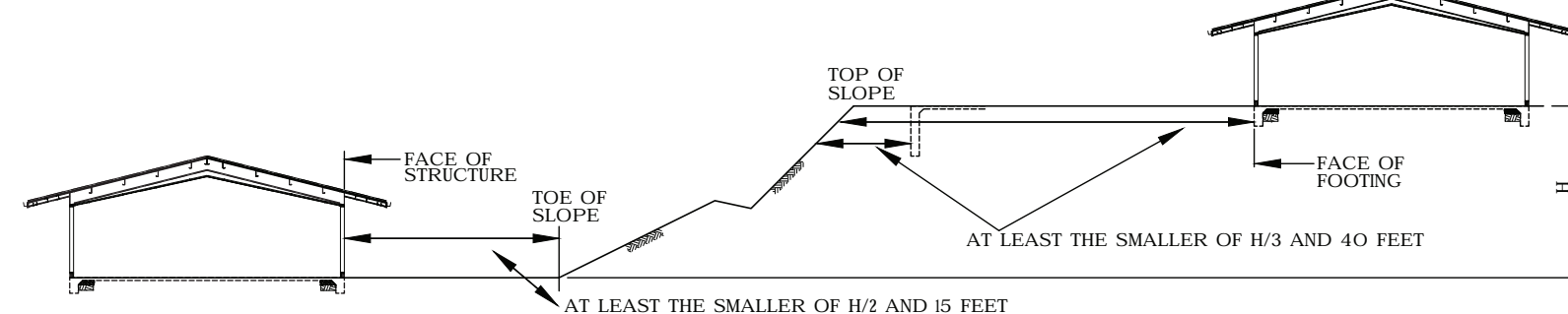
**HIP STYLE SIZE**

- |   |   |
|---|---|
| <input type="checkbox"/> 10' x 20'            | <input type="checkbox"/> 9'             |
| <input type="checkbox"/> 15' x 20'            | <input type="checkbox"/> 10'            |
| <input type="checkbox"/> 18' x 36'            | <input checked="" type="checkbox"/> 12' |
| <input type="checkbox"/> 20' x 20'            |   |
| <input type="checkbox"/> 20' x 30'            |   |
| <input type="checkbox"/> 20' x 40'            |   |
| <input type="checkbox"/> 25' x 25'            |   |
| <input type="checkbox"/> 25' x 30'            |   |
| <input type="checkbox"/> 30' x 30'            |   |
| <input checked="" type="checkbox"/> 30' x 40' |   |

**UMBRELLA STYLE SIZE**

- |                              |                              |
|------------------------------|------------------------------|
| <input type="checkbox"/> 12' | <input type="checkbox"/> 9'  |
| <input type="checkbox"/> 20' | <input type="checkbox"/> 10' |
|                              | <input type="checkbox"/> 12' |

FIG. 1: FOUNDATION CLEARANCES FROM SLOPE



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FABRIC CANOPIES DSA PC - BP COVER SHEET

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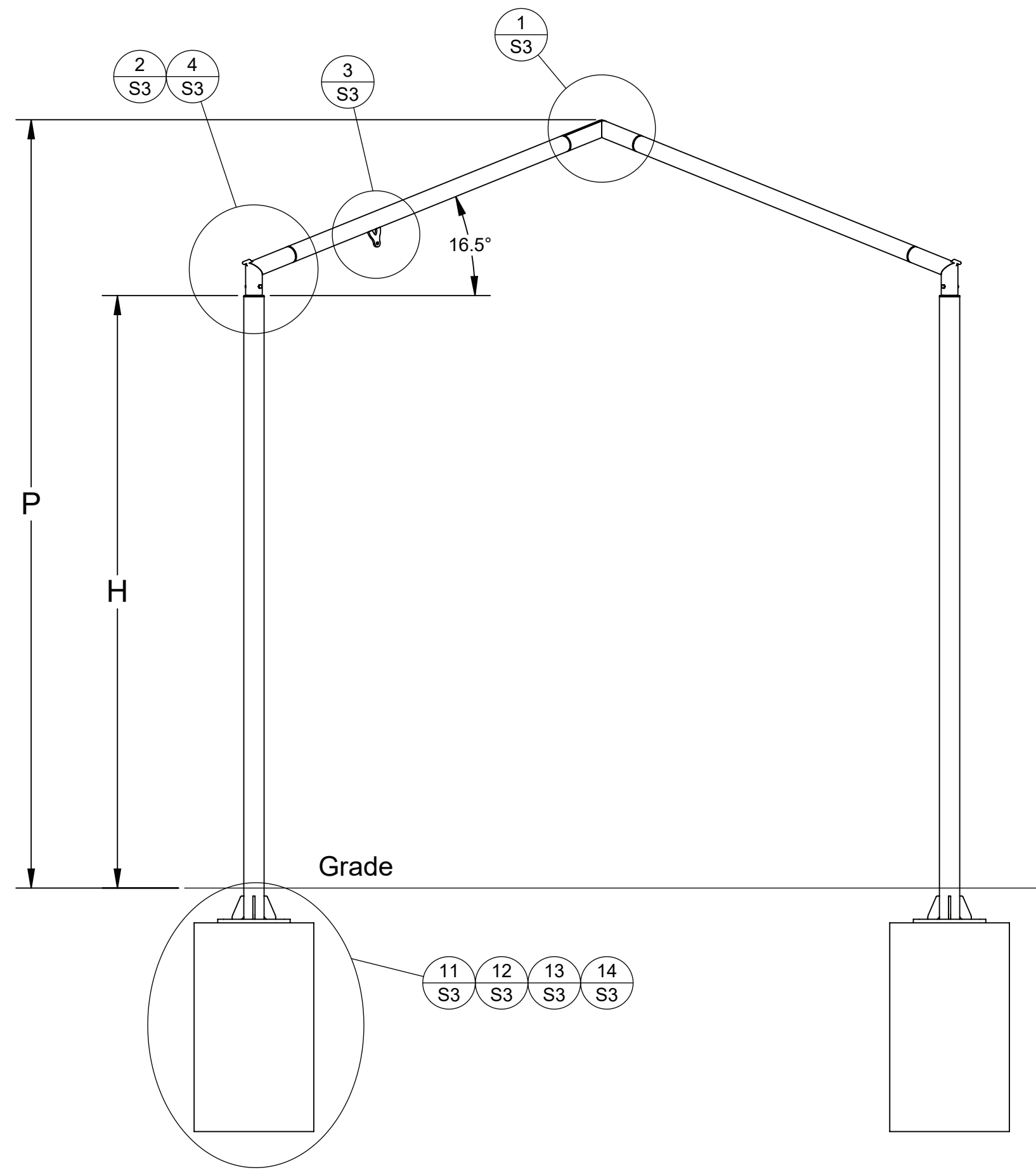
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**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

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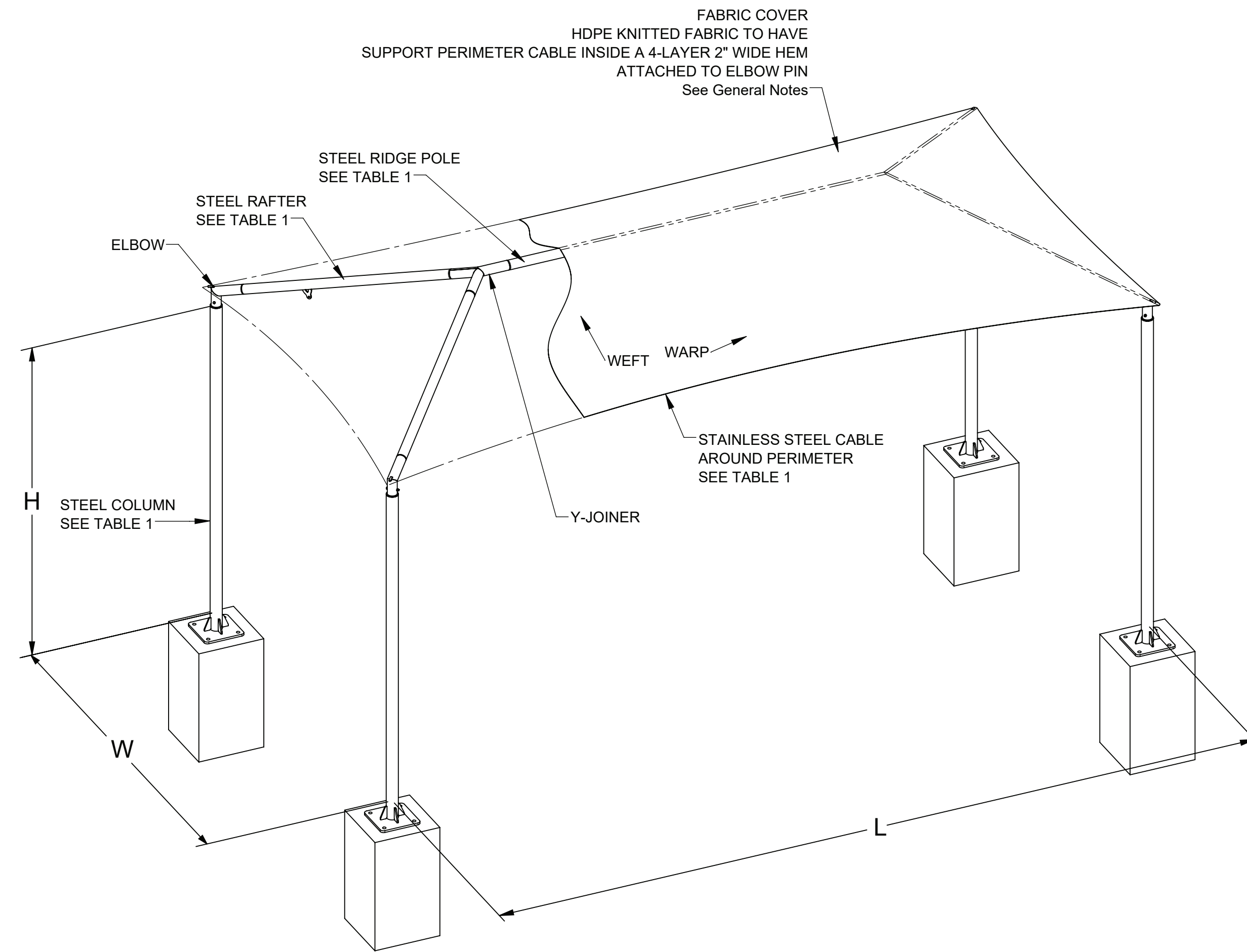
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1	8/16/2023	KJK

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 Date: 12/8/2022  
 Chkd: Zhisong Zhao  
 Date: 1/19/2023  
 Job Number:

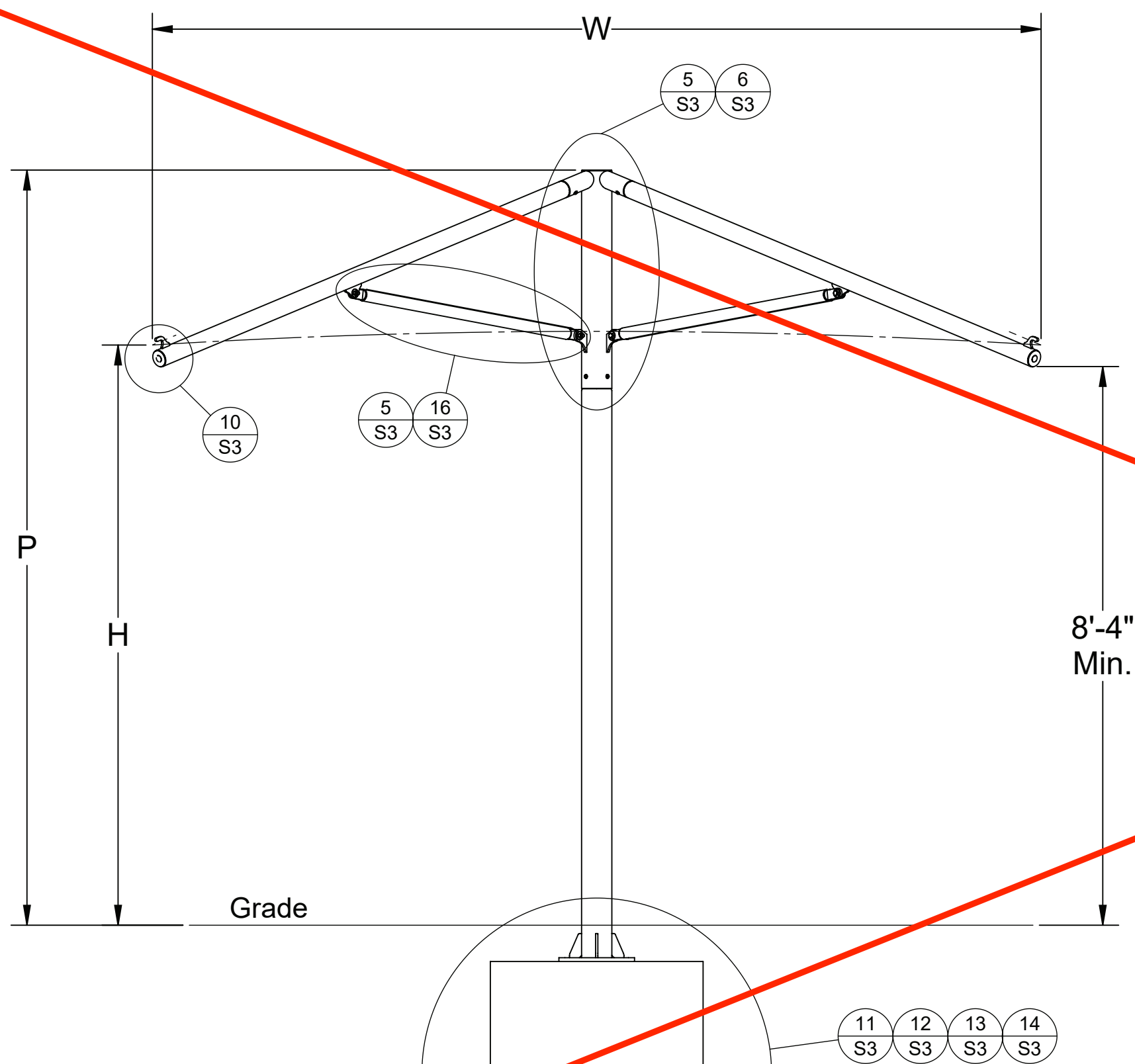
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 Sheet No.



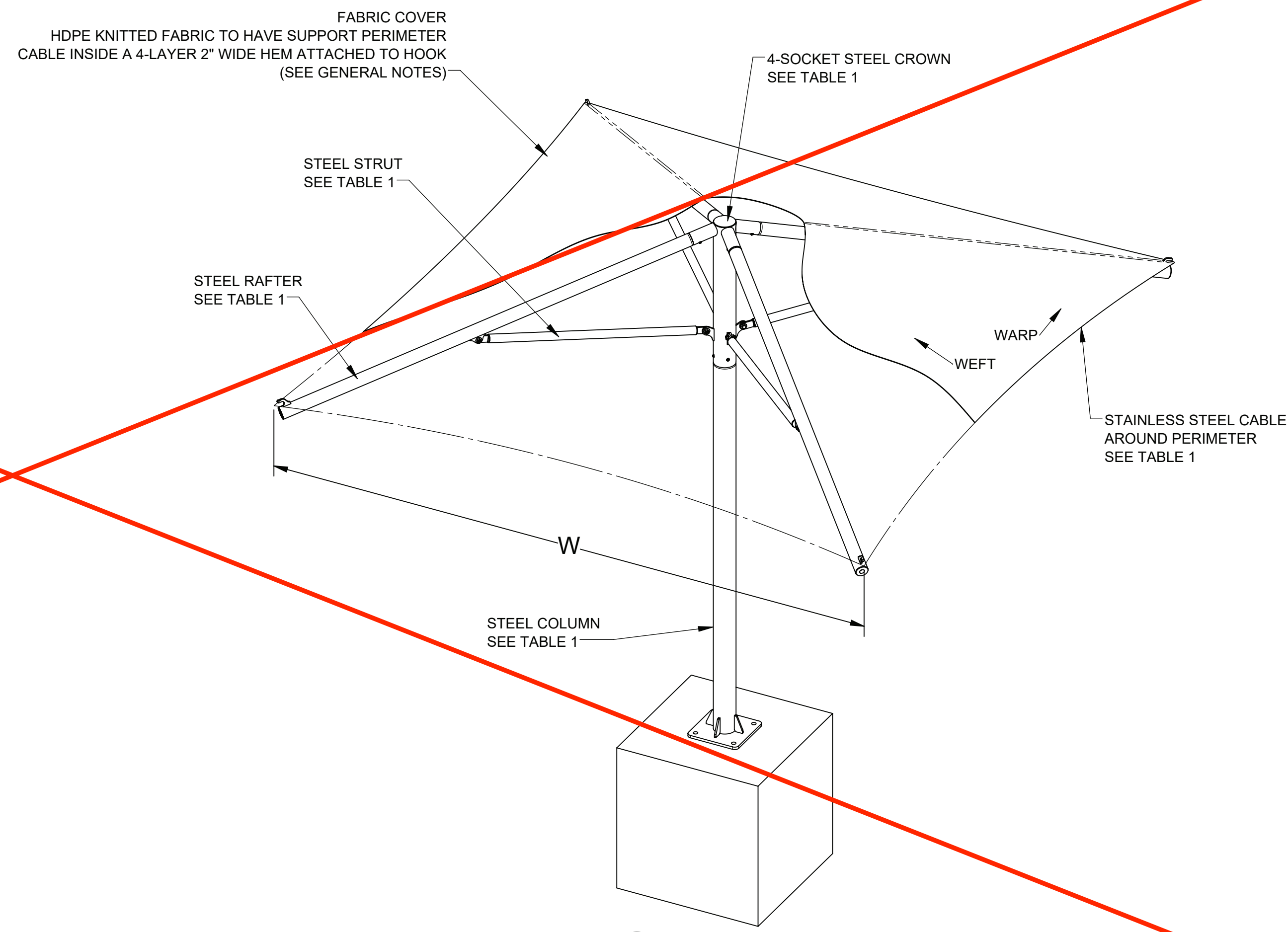
2 HIP FRAME ELEVATION  
S2



1 HIP SHADE STRUCTURE  
S2



4 UMBRELLA FRAME ELEVATION  
S2



3 UMBRELLA SHADE STRUCTURE  
S2

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DISTRICT/OWNER:  
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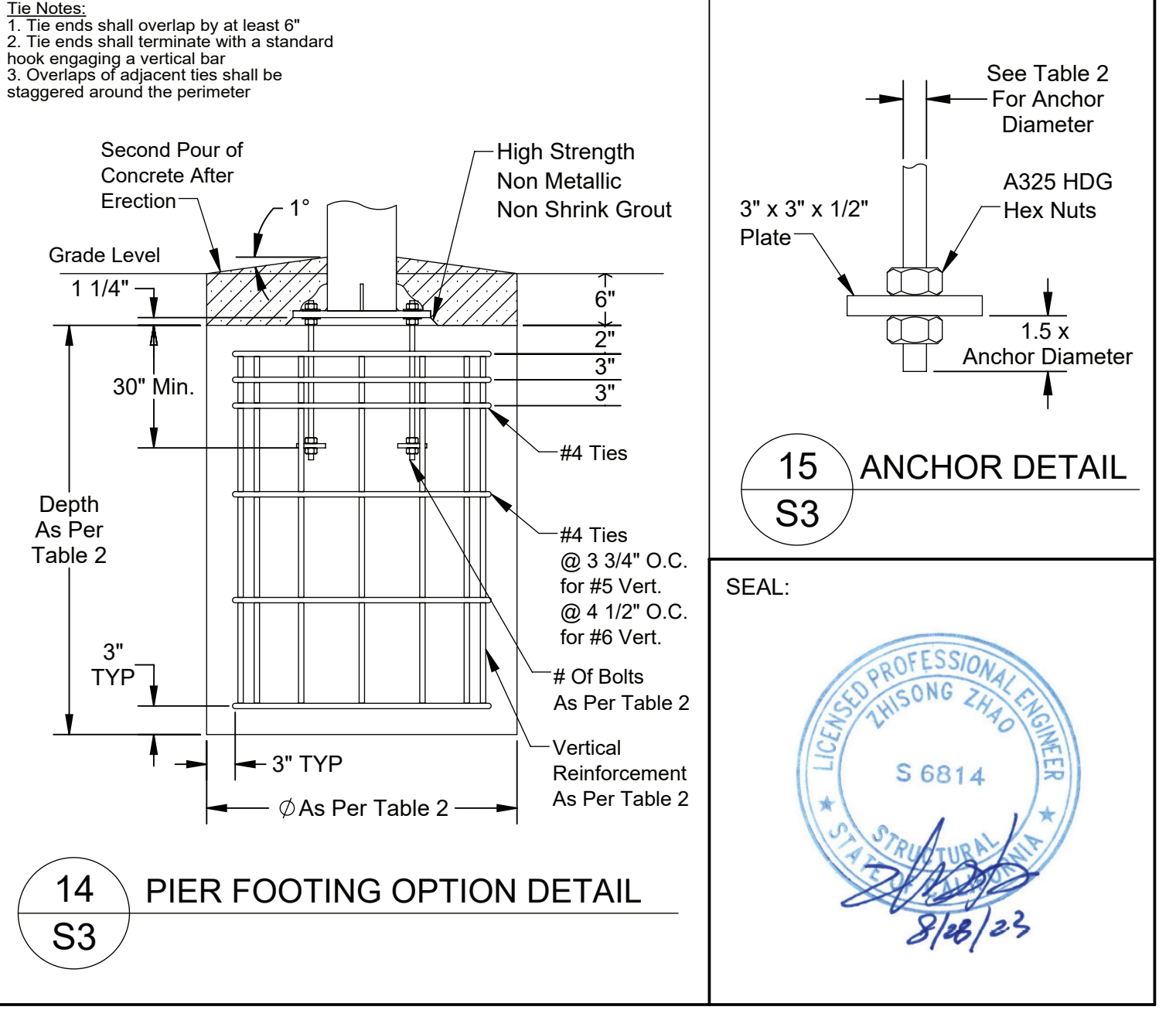
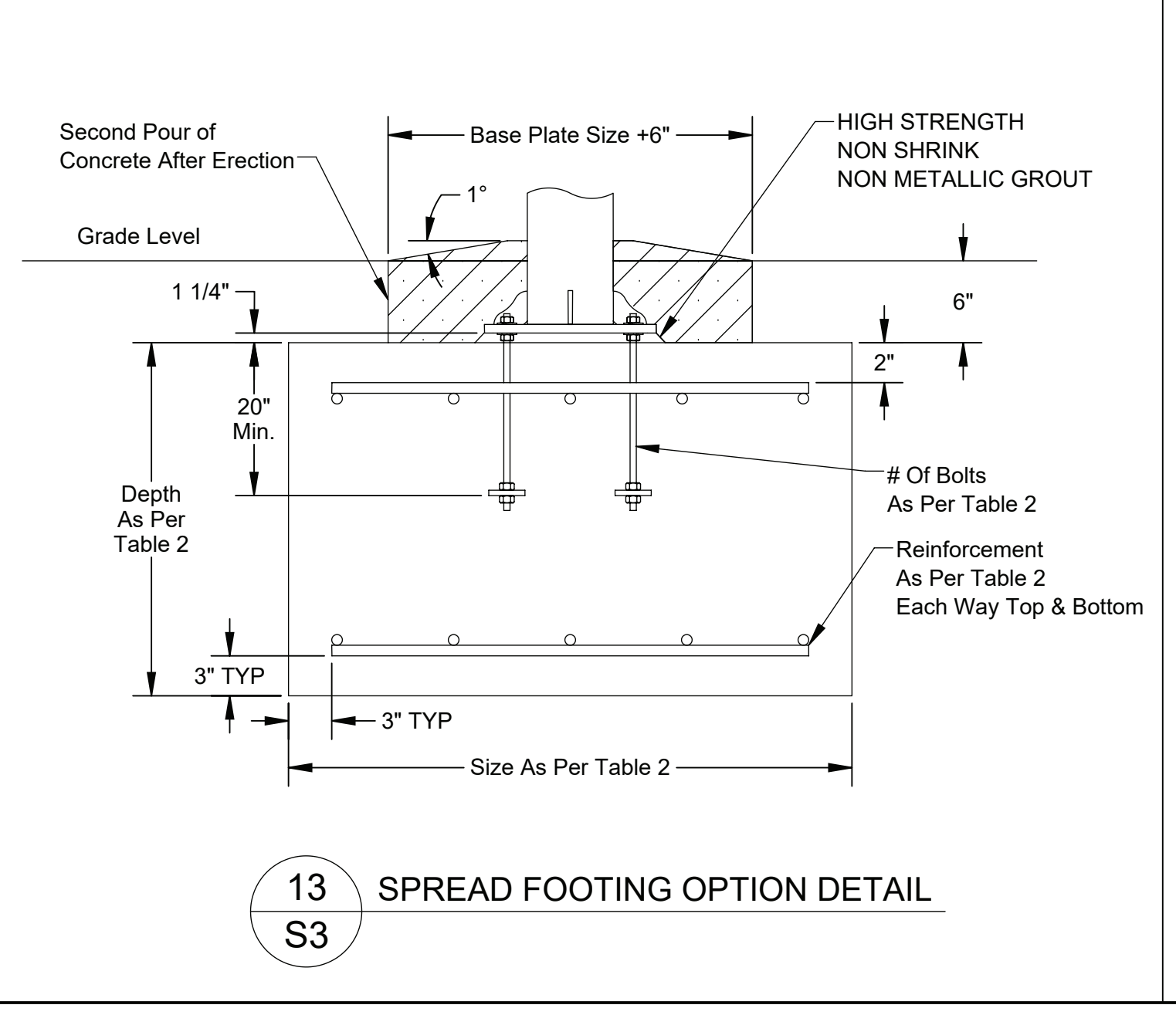
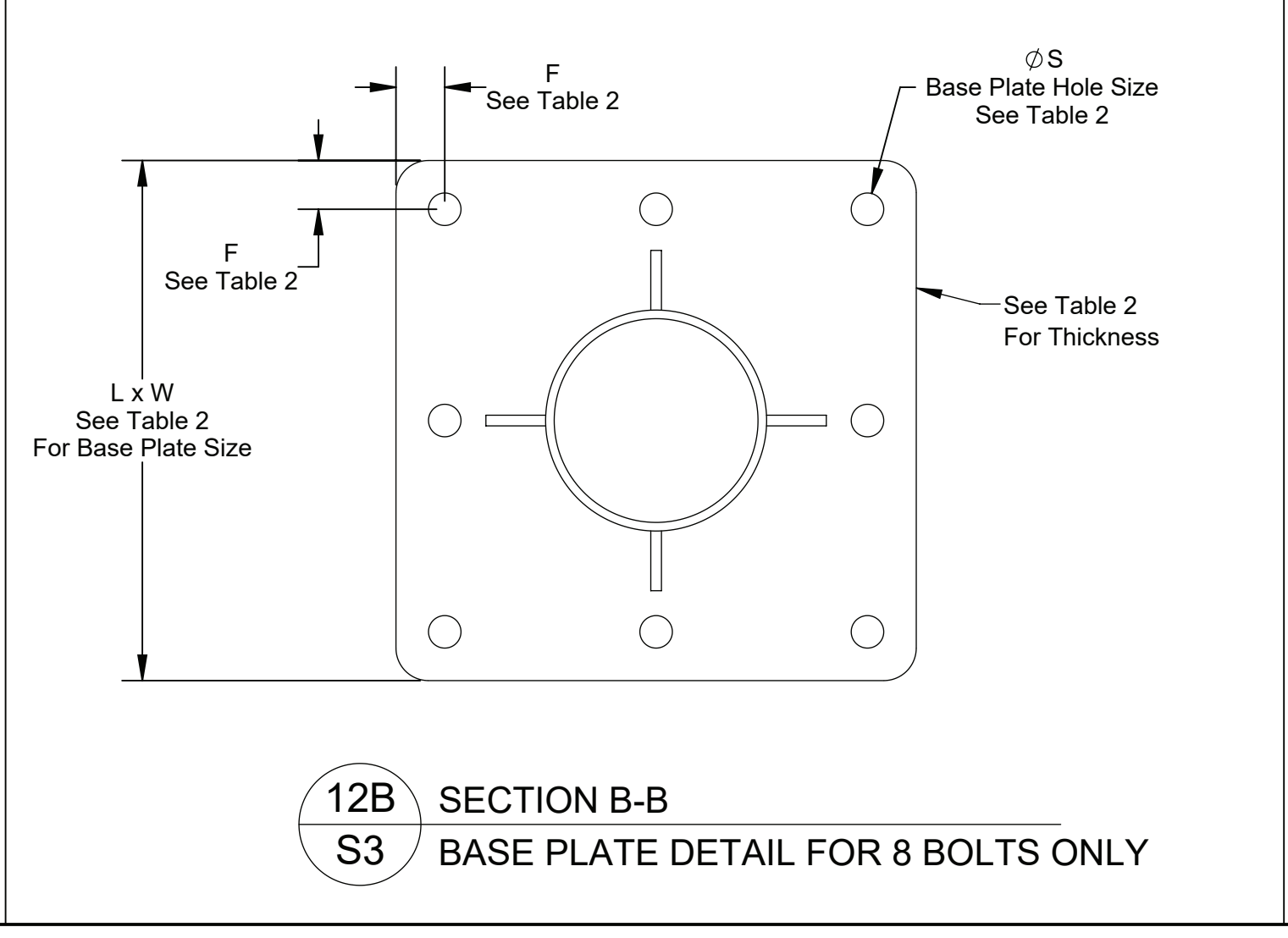
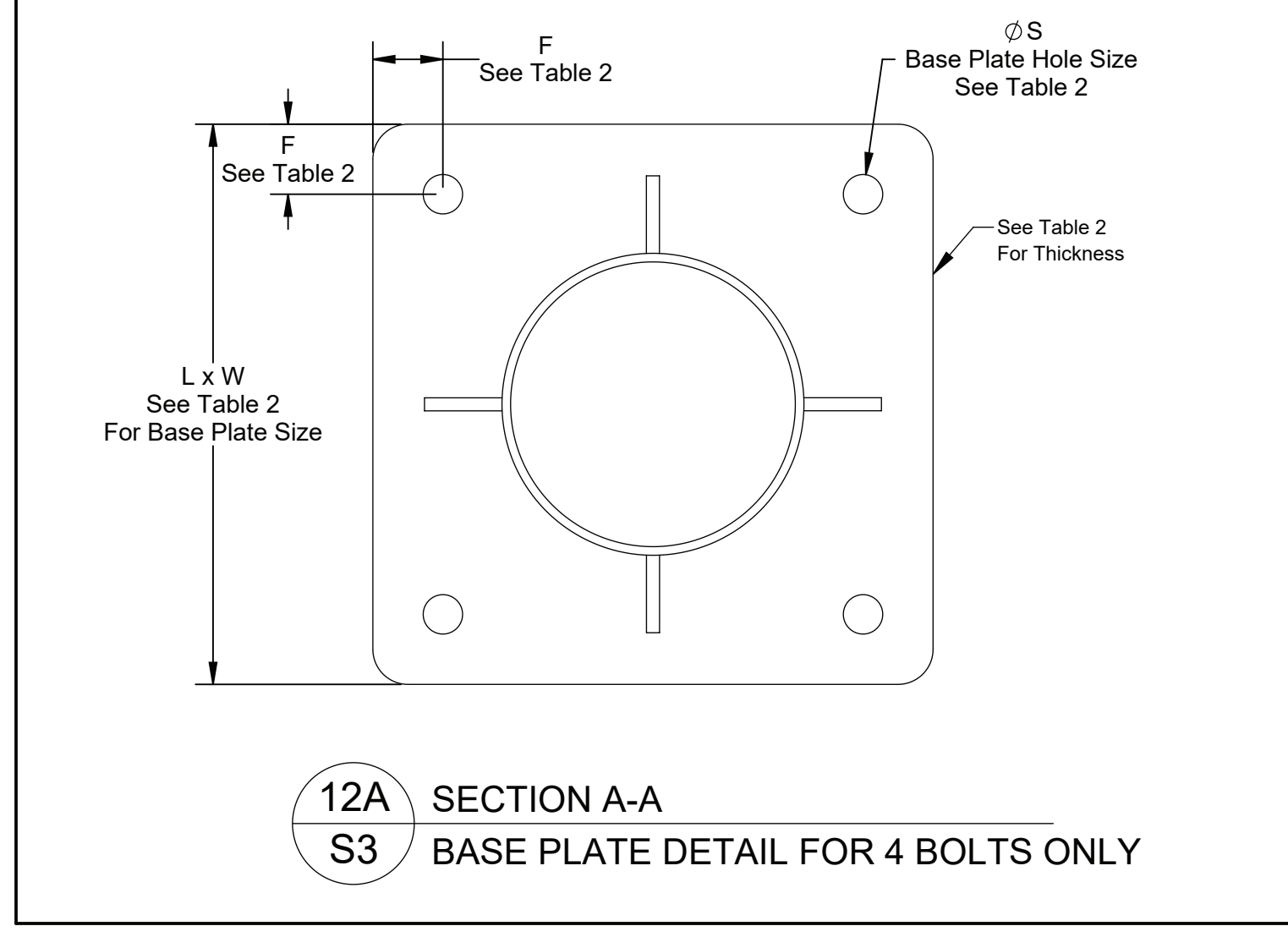
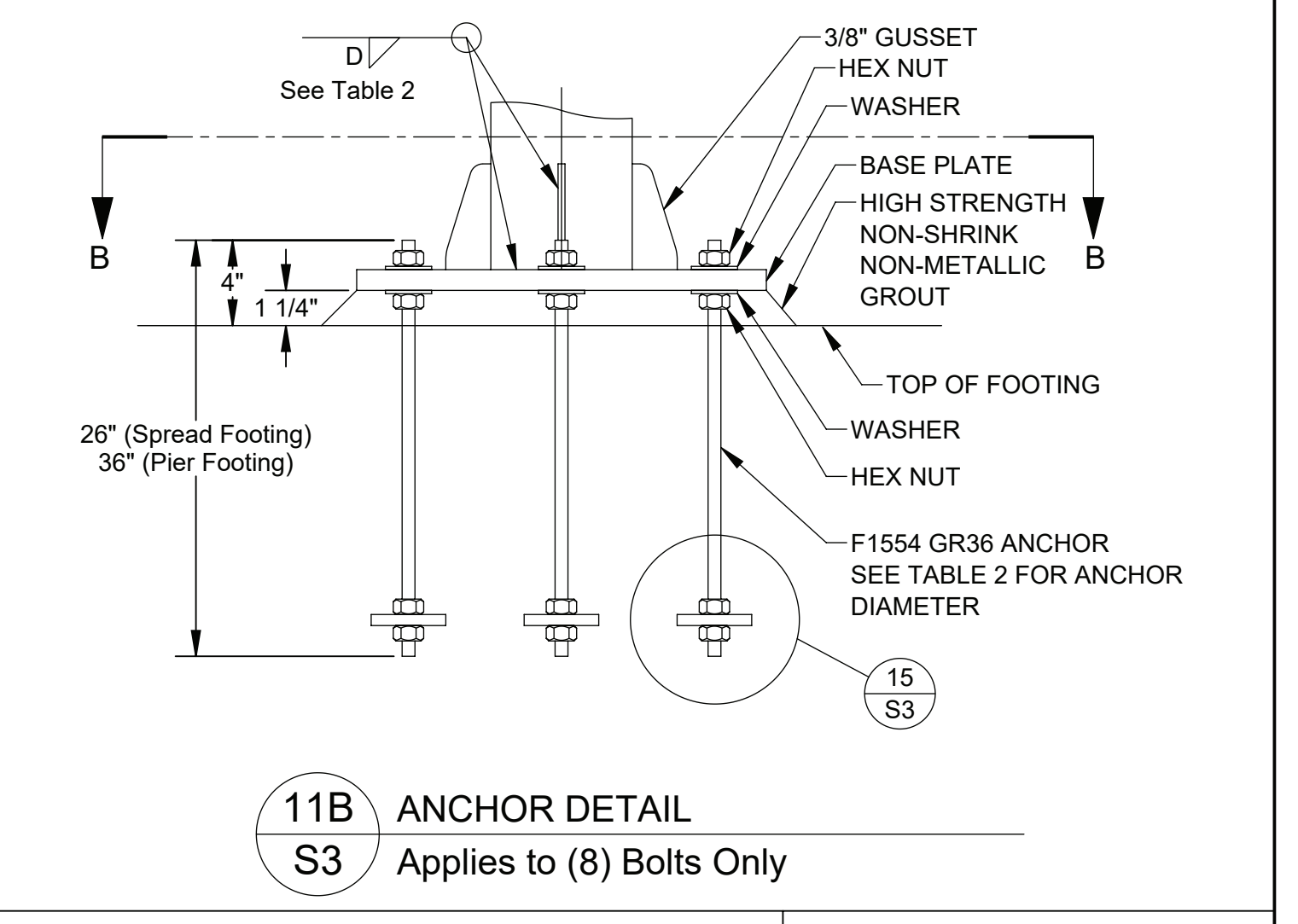
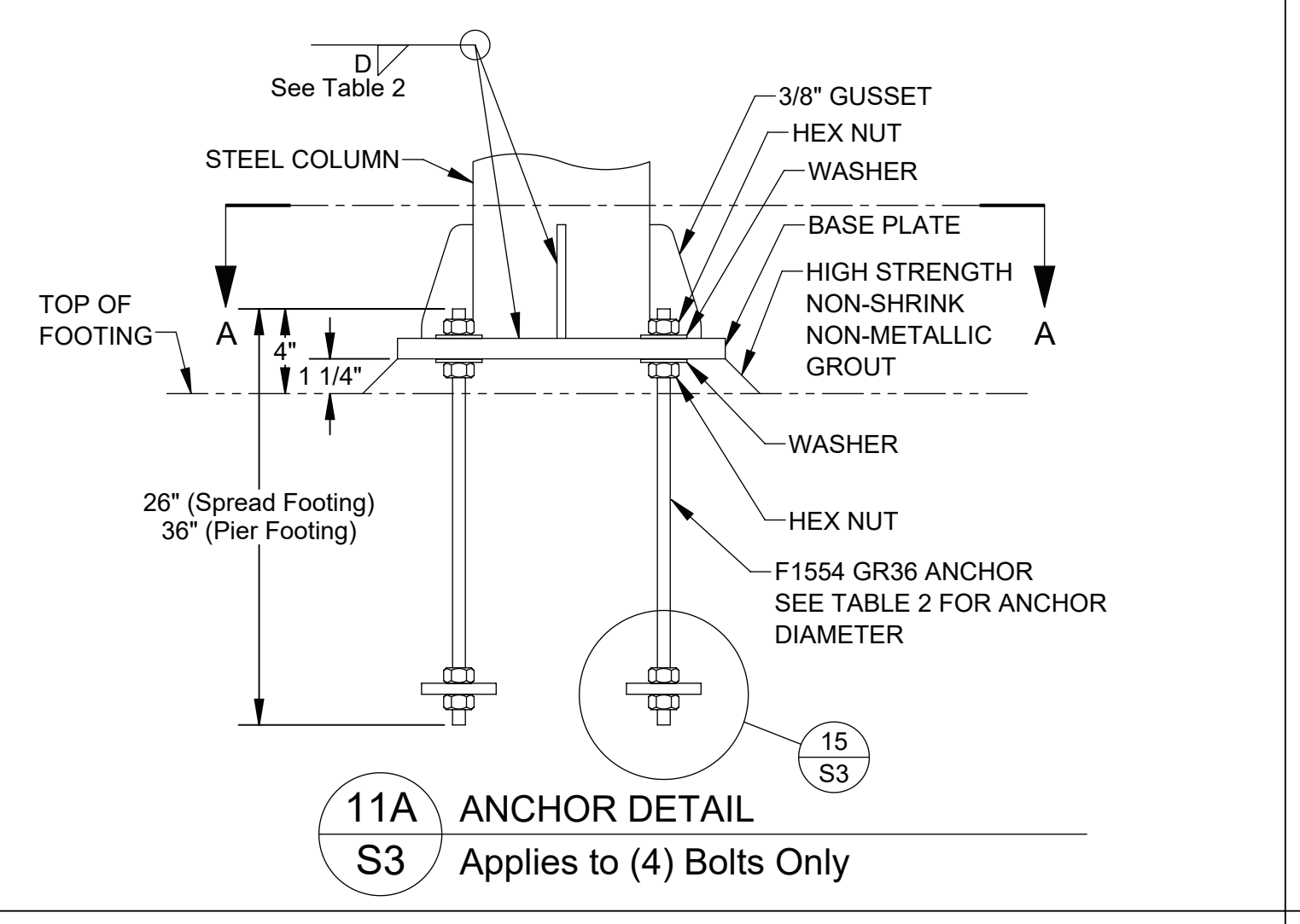
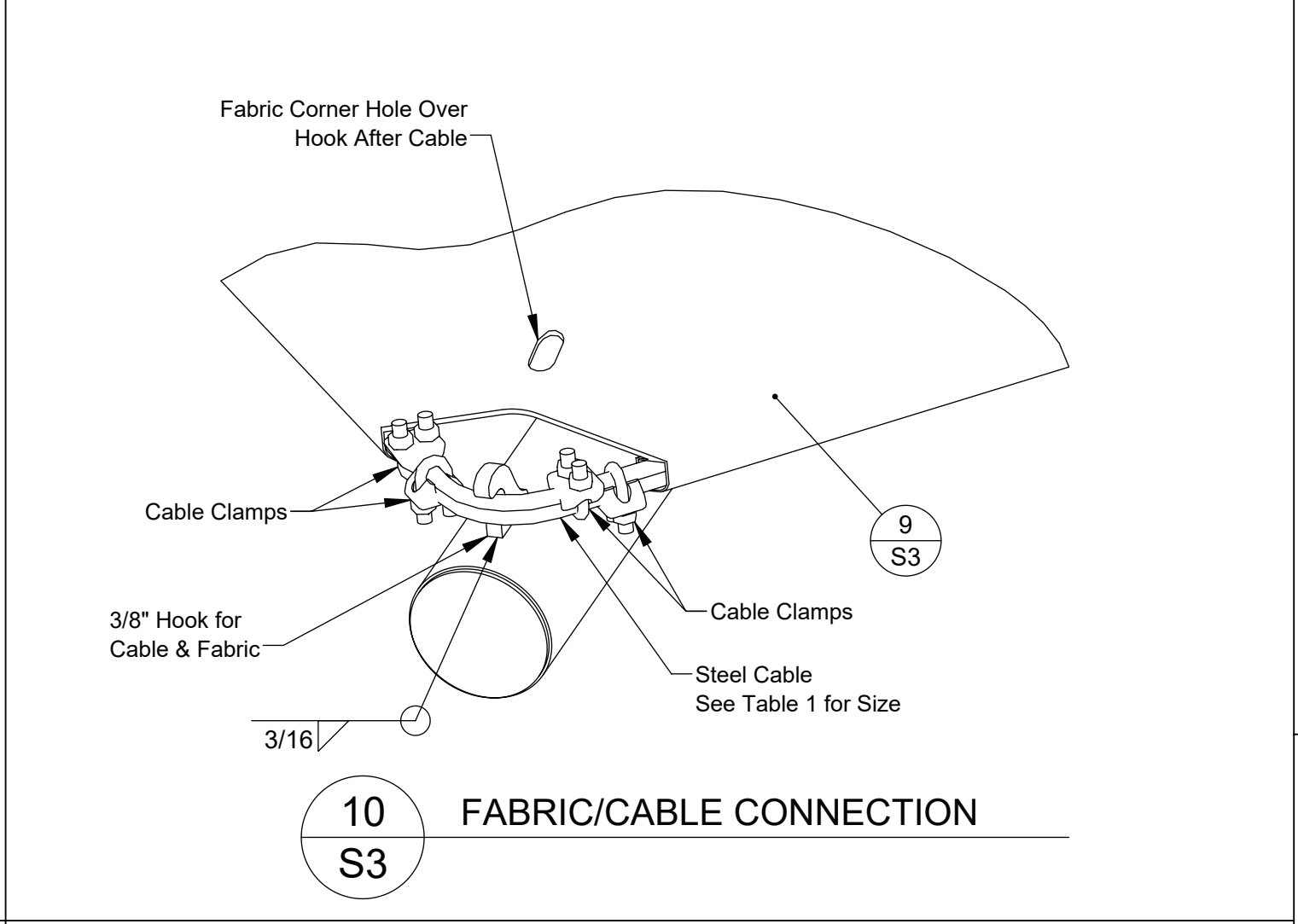
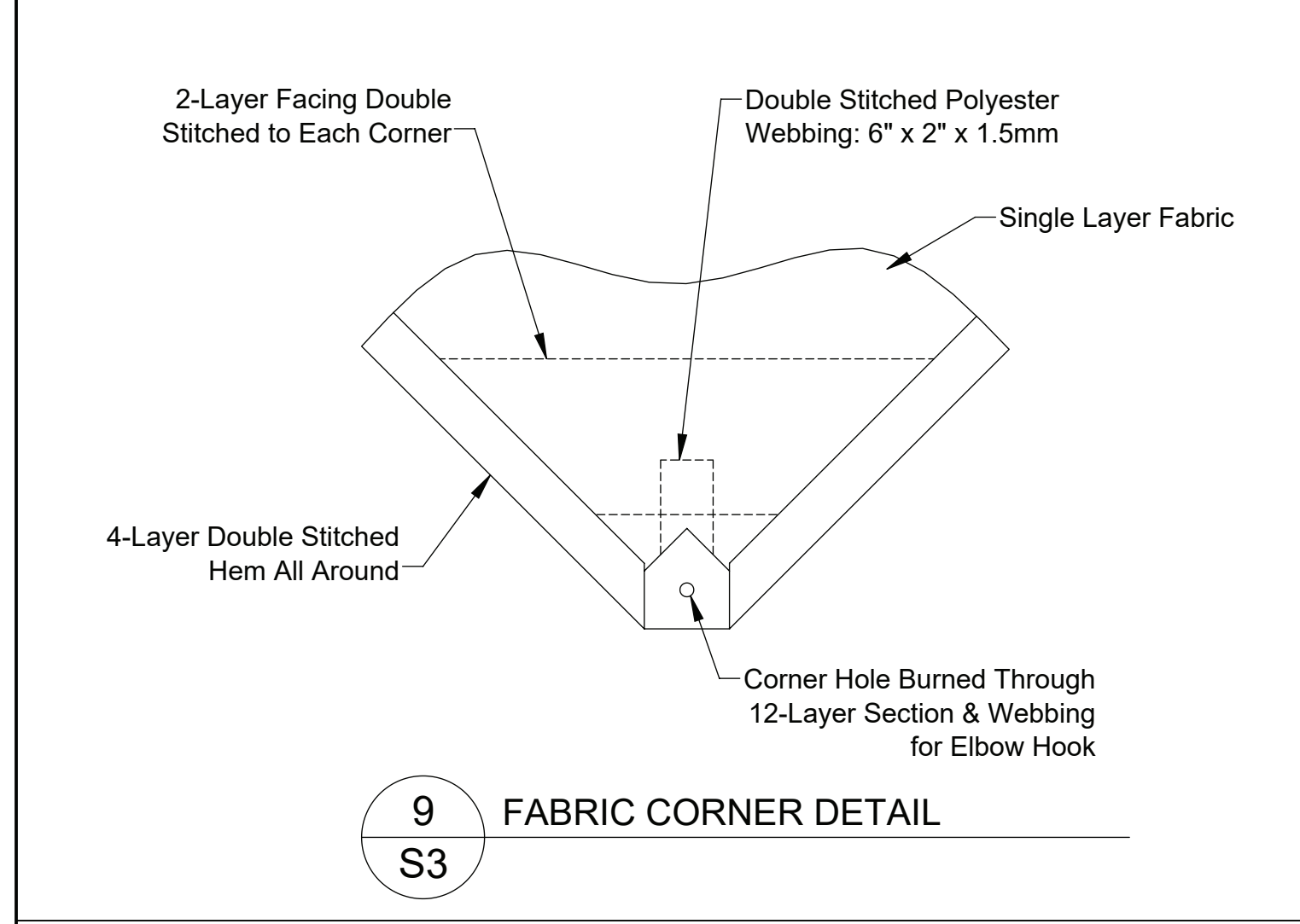
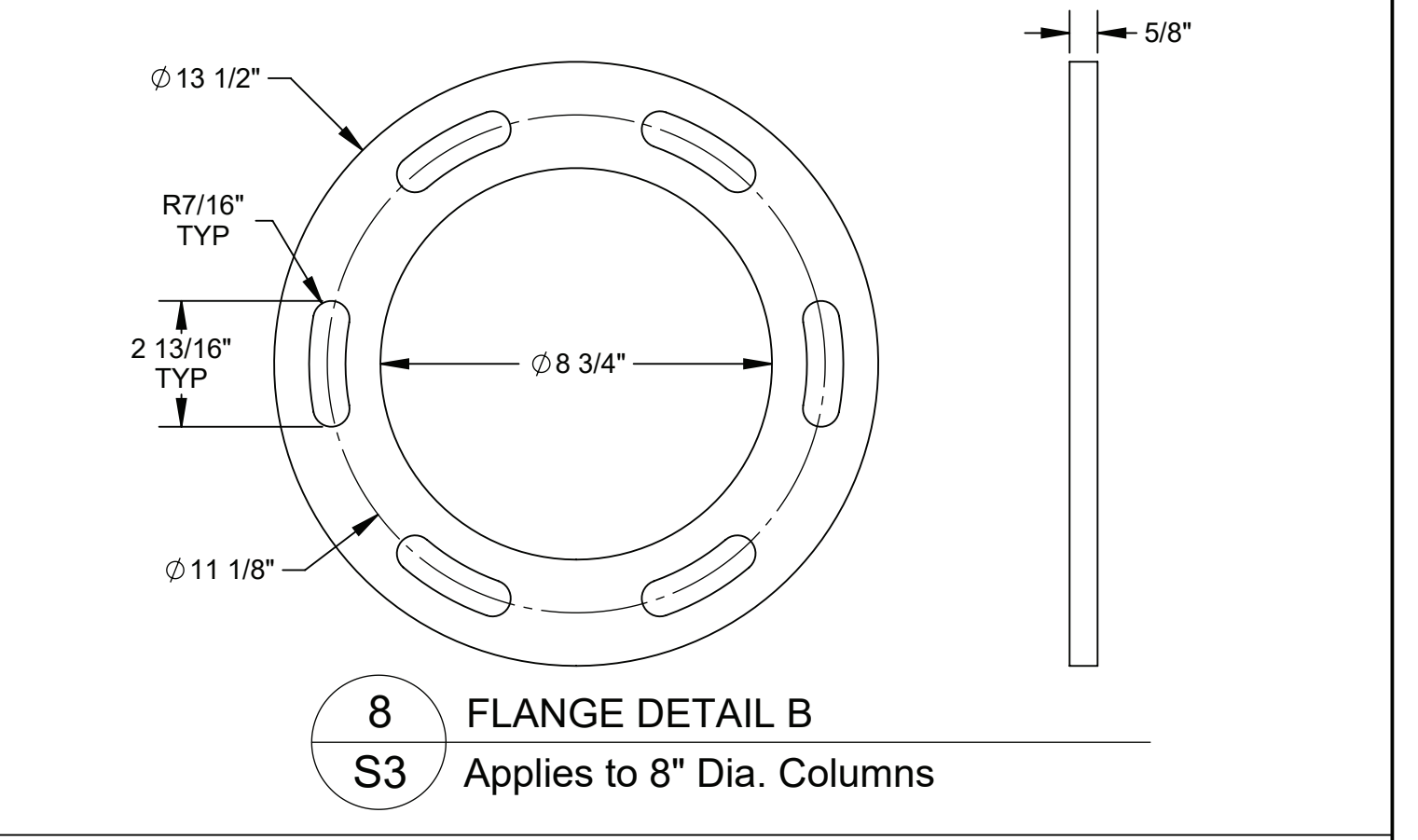
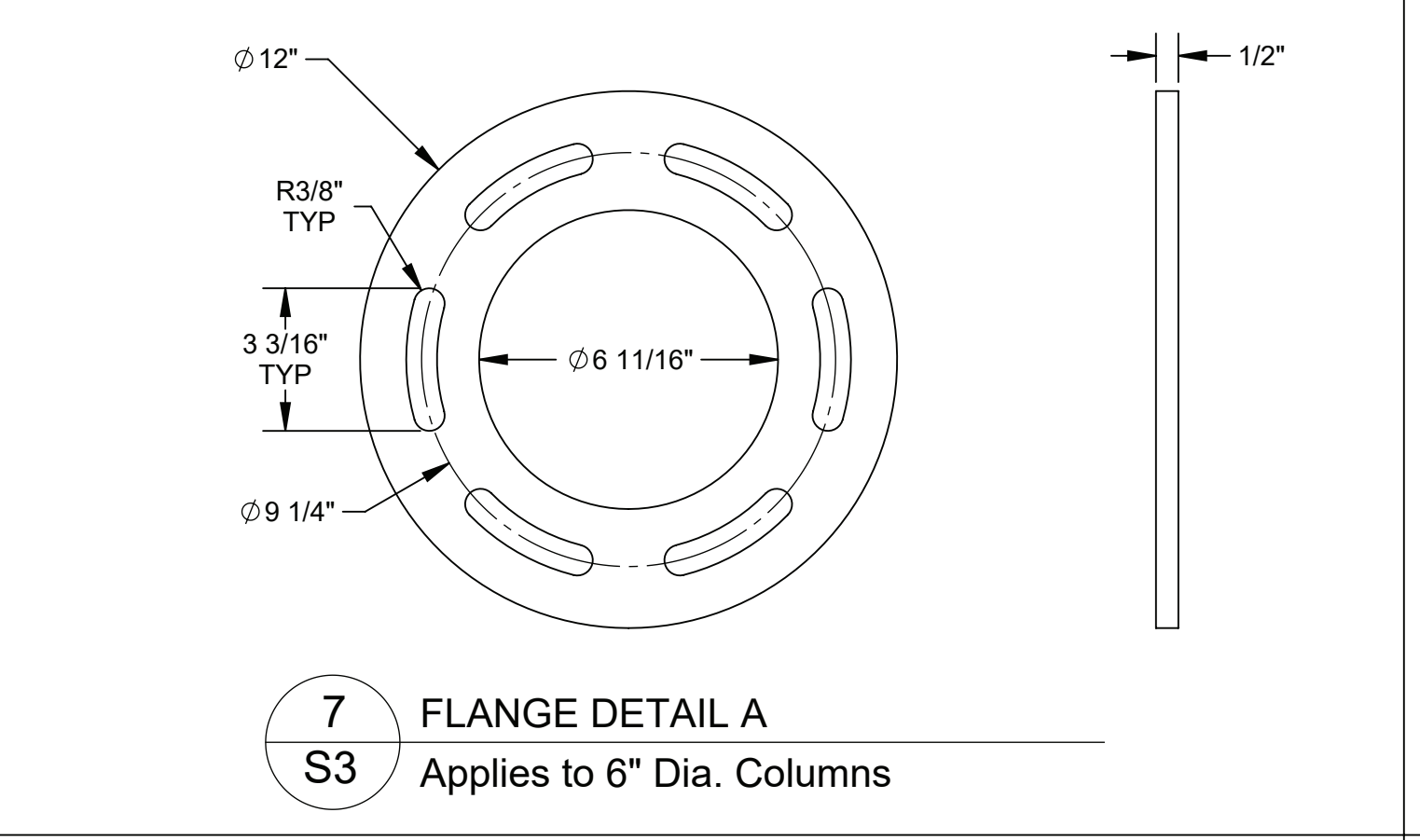
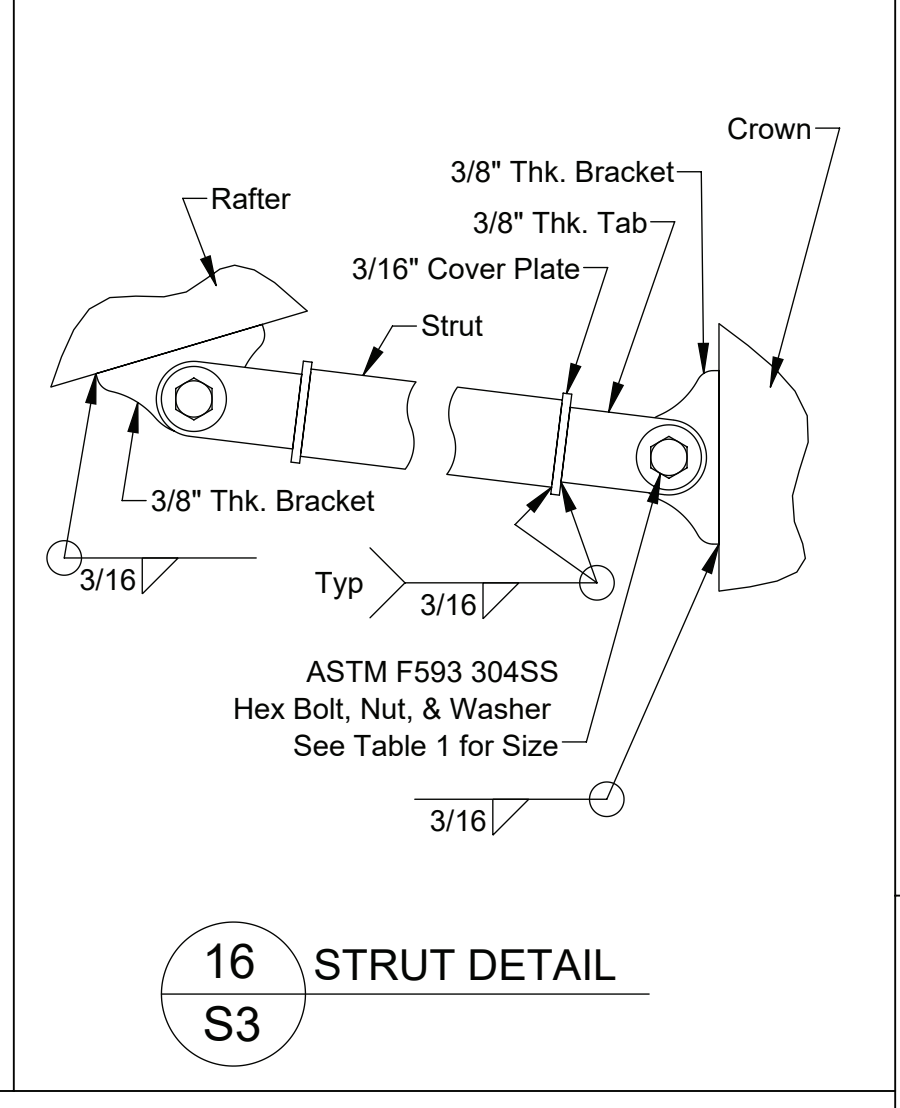
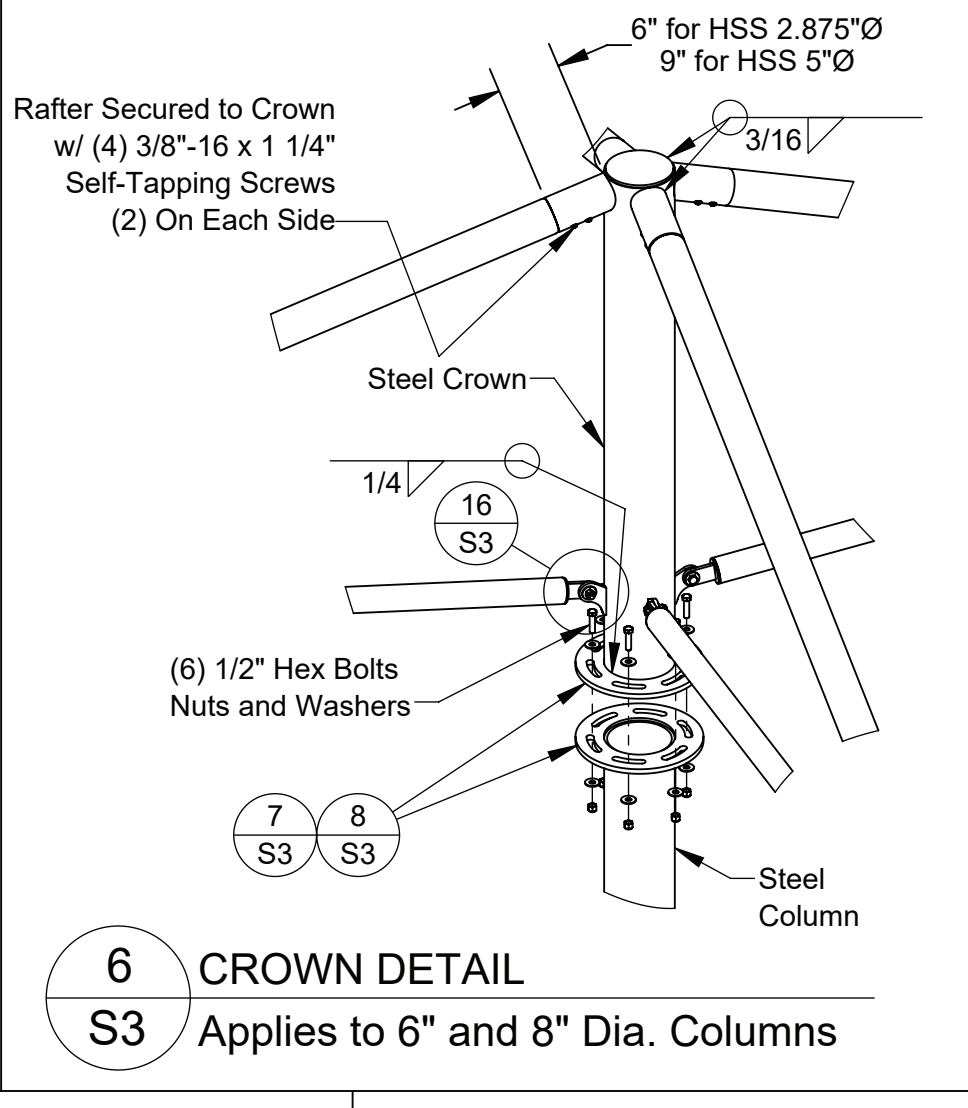
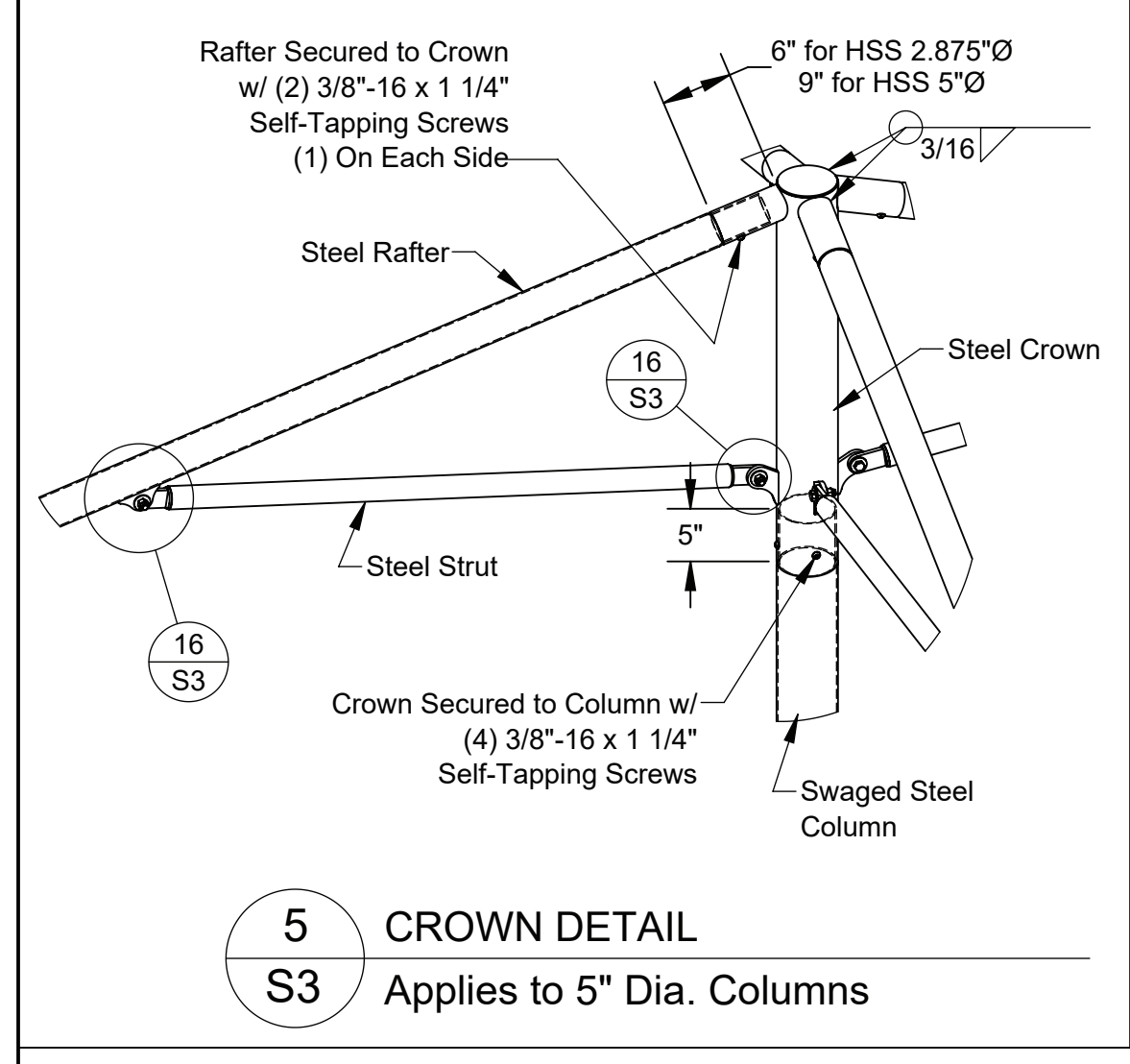
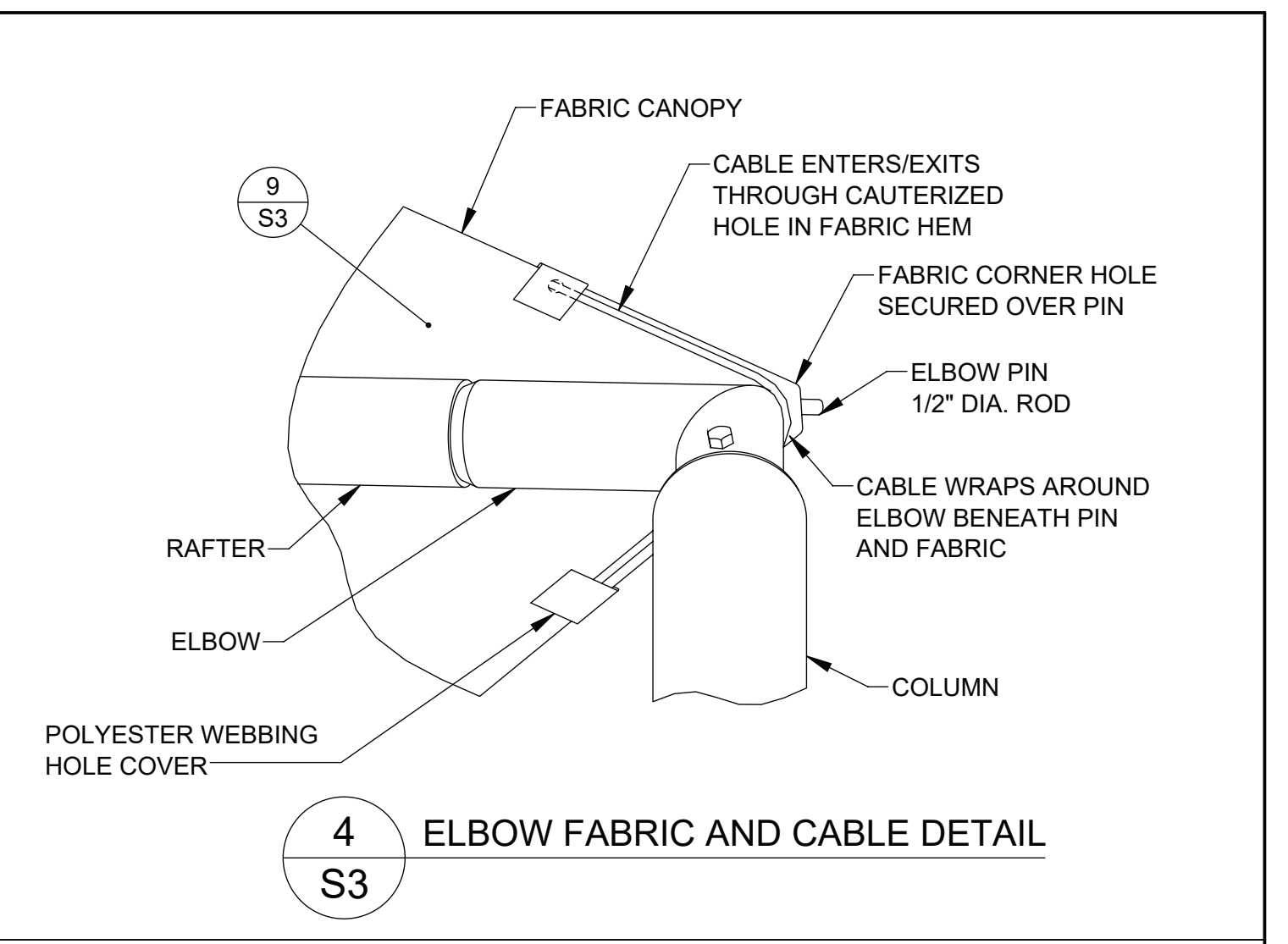
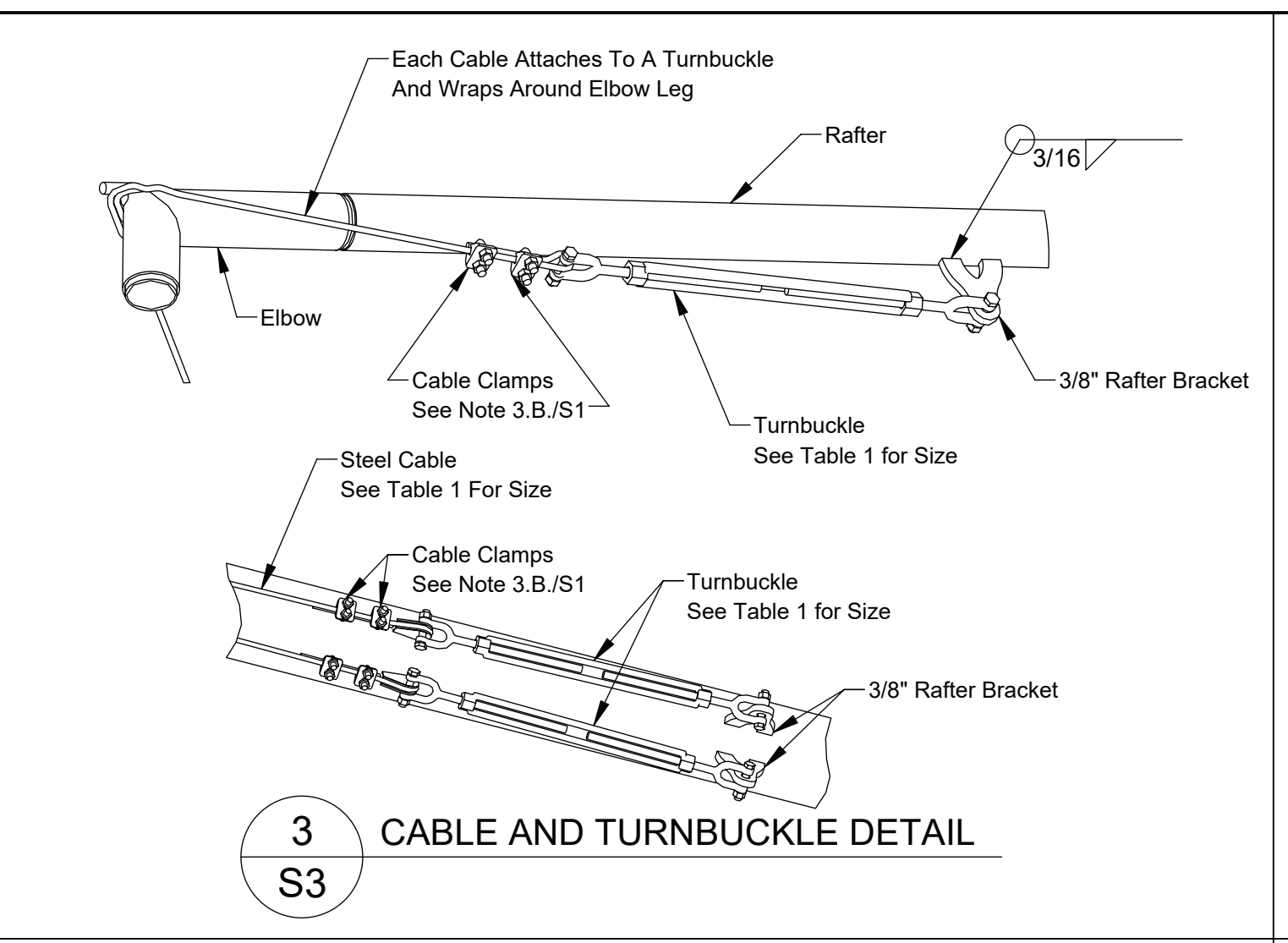
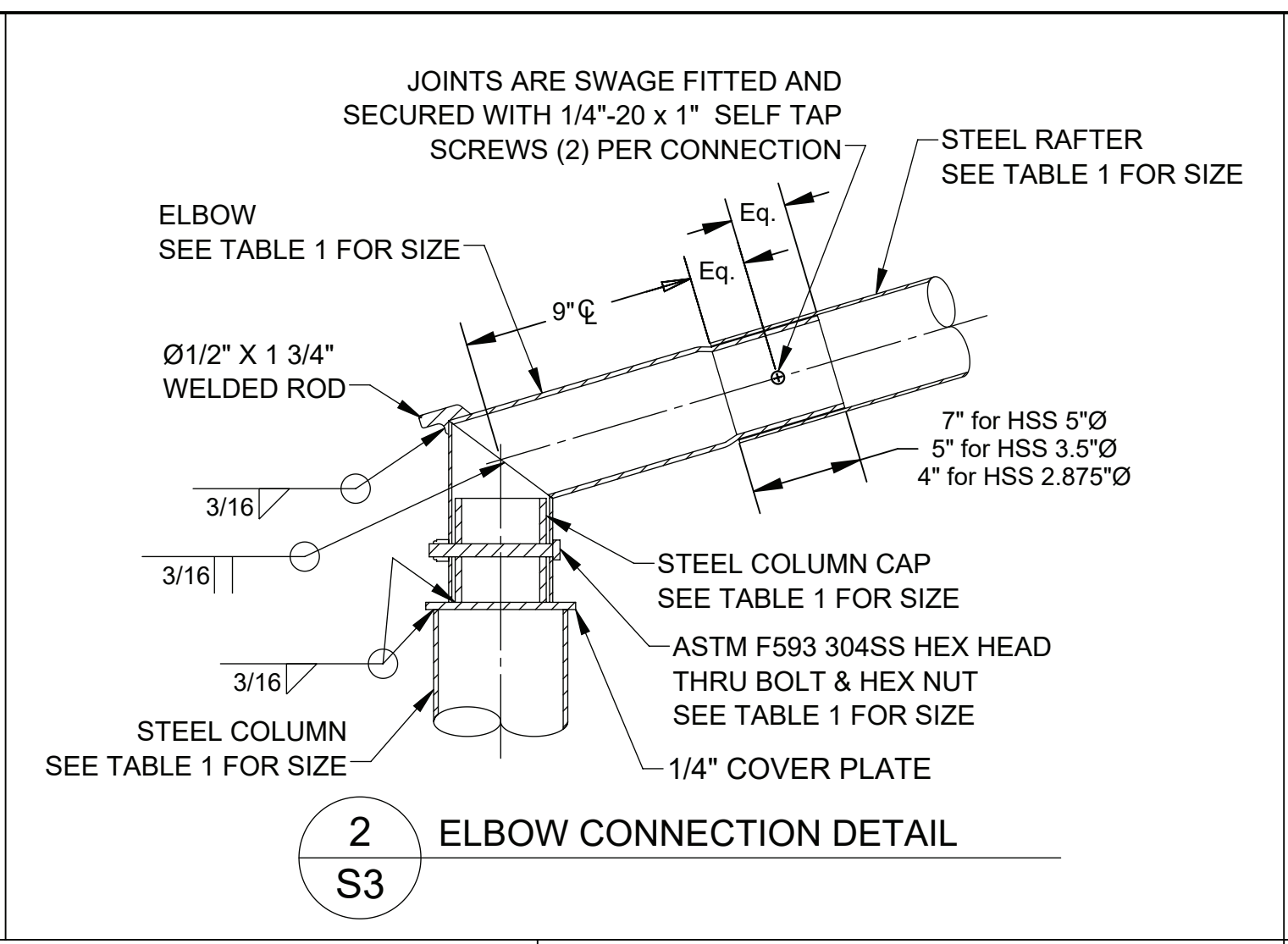
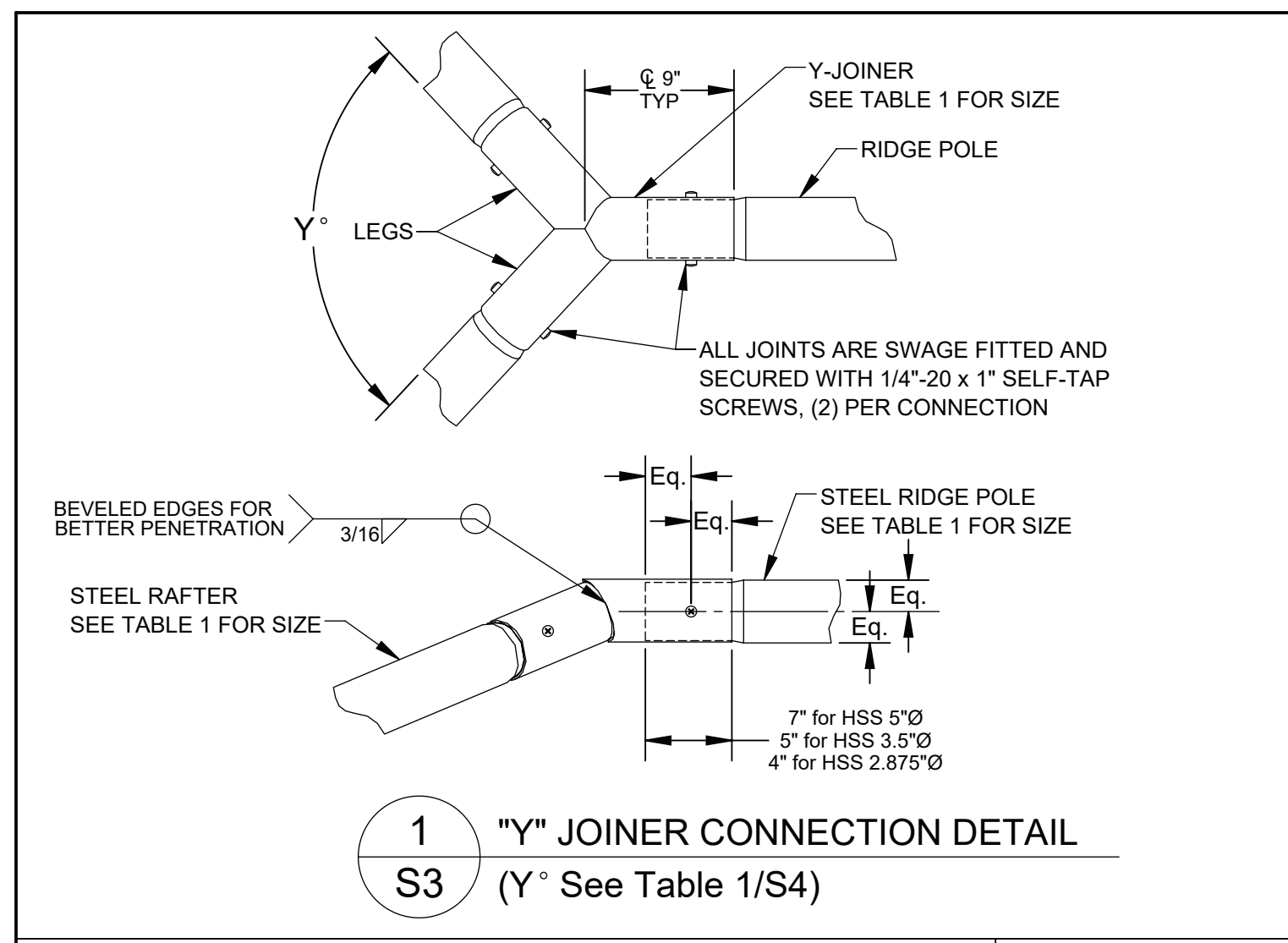
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Date: 1/19/2023  
Job Number:

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S2  
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Revisions		
Date:	By:	
0 12/18/2022	KJK	
1 8/16/2023	KJK	

Drawn: KJK  
 Date: 12/8/2022  
 Chkd: Zhisong Zhao  
 Date: 1/19/2023  
 Job Number:

**S3**  
 Sheet No.

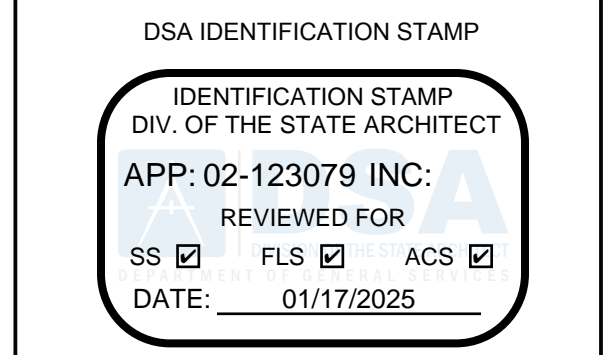
TABLE 1 : Shade Member Sizes

✓	Shade Number	Width (W)	Length (L)	Height (H)	Peak Height (P)	Steel Column	Steel Rafter	Steel Ridge	Elbow & Y-Joiner	Cable Size	Turnbuckle Size	Y° (See detail 1/S3)	Elbow Bolt Size (See Detail 2/S3)	Column Cap Material (See Detail 2/S3)
	DSARD102009SN	10'	20'	9'	11.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
	DSARD152009SN	15'	20'	9'	12.03'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
	DSASD202009SN	20'	20'	9'	12.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
	DSASD252509SN	25'	25'	9'	13.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
	DSARD203009SN	20'	30'	9'	13.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD253009SN	25'	30'	9'	14.05'	Pipe 8" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSASD303009SN	30'	30'	9'	14.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
	DSARD183609SN	18'	36'	9'	12.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD204009SN	20'	40'	9'	13.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD304009SN	30'	40'	9'	15.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD102010SN	10'	20'	10'	12.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
	DSARD152010SN	15'	20'	10'	13.03'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
	DSASD202010SN	20'	20'	10'	13.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
	DSASD252510SN	25'	25'	10'	14.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
	DSARD203010SN	20'	30'	10'	14.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD253010SN	25'	30'	10'	15.05'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSASD303010SN	30'	30'	10'	15.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
	DSARD183610SN	18'	36'	10'	13.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD204010SN	20'	40'	10'	14.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD304010SN	30'	40'	10'	16.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD102012SN	10'	20'	12'	14.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
	DSARD152012SN	15'	20'	12'	15.03'	Pipe 5" x Sch 40	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
	DSASD202012SN	20'	20'	12'	15.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
	DSASD252512SN	25'	25'	12'	16.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
	DSARD203012SN	20'	30'	12'	16.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD253012SN	25'	30'	12'	17.05'	Pipe 8" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSASD303012SN	30'	30'	12'	17.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
	DSARD183612SN	18'	36'	12'	15.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
	DSARD204012SN	20'	40'	12'	16.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
X	DSARD304012SN	30'	40'	12'	18.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40

	Shade Number	Width (W)	Length (L)	Height (H)	Peak Height (P)	Steel Column	Steel Rafter	Steel Crown	Steel Strut	Cable Size	Strut Bolt (See Detail 16/S3)
	DSASU121209SN	12'	12'	9'	11.42'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 11 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"
	DSASU121210SN	12'	12'	10'	12.42'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 11 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"
	DSASU121212SN	12'	12'	12'	14.42'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 7 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"
	DSASU202009SN	20'	20'	9'	13.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"
	DSASU202010SN	20'	20'	10'	14.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"
	DSASU202012SN	20'	20'	12'	16.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"

TABLE 2 : Shade Foundation

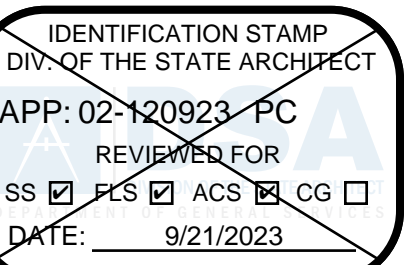
Style	Shade Number	Base Plate Size (L x W)	Base Plate Thickness	Base Plate Weld Size (D)	Base Plate Anchor Bolt Hole Size Ø (S)	Base Plate Hole Offset (F)	Anchor Diameter	Anchor Number	Spread Footing Depth	Spread Foot Size	Spread Footing Reinforcement	Pier Footing Depth	Pier Footing Diameter	Pier Footing Reinforcement
	DSARD102009SN	12" x 12"	1"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	3.5' x 3.5'	5 #5	5.75'	Ø 2'	8 #6
	DSARD152009SN	12" x 12"	1"	1/4"	1"	1 1/2"	7/8"	4	3.0'	4' x 4'	6 #5	6.75'	Ø 2'	8 #6
	DSASD202009SN	14" x 14"	1"	1/4"	1 1/8"	2"	1"	4	3.0'	5.5' x 5.5'	7 #5	7.75'	Ø 2'	8 #6
	DSASD252509SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
	DSARD203009SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	5.5' x 5.5'	7 #5	8.75'	Ø 2.5'	10 #6
	DSARD253009SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6.5' x 6.5'	9 #5	9.25'	Ø 3'	12 #6
	DSASD303009SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	7.25' x 7.25'	10 #5	9.5'	Ø 3'	12 #6
	DSARD183609SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6' x 6'	8 #5	9.25'	Ø 3'	12 #6
	DSARD204009SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	6.5' x 6.5'	9 #5	10'	Ø 3'	12 #6
	DSARD304009SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	7.25' x 7.25'	10 #5	11'	Ø 3'	12 #6
	DSARD102010SN	12" x 12"	1"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	3.5' x 3.5'	5 #5	5.75'	Ø 2'	8 #6
	DSARD152010SN	12" x 12"	1"	1/4"	1"	1 1/2"	7/8"	4	3.0'	4' x 4'	6 #5	6.75'	Ø 2'	8 #6
	DSASD202010SN	14" x 14"	1"	1/4"	1 1/8"	2"	1"	4	3.0'	5.75' x 5.75'	8 #5	7.75'	Ø 2'	8 #6
	DSASD252510SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
	DSARD203010SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	5.75' x 5.75'	8 #5	8.75'	Ø 2.5'	10 #6
	DSARD253010SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6.25' x 6.25'	8 #5	9.25'	Ø 3'	12 #6
	DSASD303010SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	7.25' x 7.25'	10 #5	9.75'	Ø 3'	12 #6
	DSARD183610SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6.5' x 6.5'	9 #5	9.5'	Ø 3'	12 #6
	DSARD204010SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	7' x 7'	9 #5	10'	Ø 3'	12 #6
	DSARD304010SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	7.5' x 7.5'	10 #5	11'	Ø 3'	12 #6
	DSARD102012SN	12" x 12"	1"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	3.75' x 3.75'	5 #5	6'	Ø 2'	8 #6
	DSARD152012SN	12" x 12"	1"	1/4"	1"	1 1/2"	7/8"	4	3.0'	4.5' x 4.5'	6 #5	7'	Ø 2'	8 #6
	DSASD202012SN	14" x 14"	1"	1/4"	1 1/8"	2"	1"	4	3.0'	6.25' x 6.25'	8 #5	7.75'	Ø 2'	8 #6
	DSASD252512SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
	DSARD203012SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	6.25' x 6.25'	8 #5	9'	Ø 2.5'	10 #6
	DSARD253012SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6.5' x 6.5'	9 #5	9.25'	Ø 3'	12 #6
	DSASD303012SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	7.5' x 7.5'	10 #5	9.75'	Ø 3'	12 #6
	DSARD183612SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6.75' x 6.75'	8 #5	10'	Ø 3'	12 #6
	DSARD204012SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	7.25' x 7.25'	10 #5	10'	Ø 3'	12 #6
X	DSARD304012SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	7.5' x 7.5'	10 #5	11'	Ø 3'	12 #6
	DSASU121209SN	10" x 10"	5/8"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	4' x 4'	6 #5	5.25'	Ø 2'	8 #6
	DSASU121210SN	12" x 12"	5/8"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	4.25' x 4.25'	6 #5	5.5'	Ø 2'	8 #6
	DSASU121212SN	14" x 14"	5/8"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	4.5' x 4.5'	6 #5	6'	Ø 2'	8 #6
	DSASU202009SN	18" x 18"	1"	5/16"	1"	1 1/2"	7/8"	8	3.0'	5.5' x 5.5'	7 #5	7'	Ø 2.5'	10 #6
	DSASU202010SN	18" x 18"	1"	5/16"	1"	1 1/2"	7/8"	8	3.0'	5.75' x 5.75'	8 #5	7.5'	Ø 2.5'	10 #6
	DSASU202012SN	18" x 18"	1"	5/16"	1"	1 1/2"	7/8"	8	3.0'	6.25' x 6.25'	8 #5	8'	Ø 2.5'	10 #6



SUPERIOR SHADE  
150 Adamson Industrial Blvd.  
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - BP  
REFERENCE TABLES

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SITE PROJECT NAME:  
JOSEPH BONNHEIM ELEMENTARY SCHOOL:  
PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS  
DISTRICT/OWNER:  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
LOCATION/ADDRESS:  
7300 MARIN AVE  
SACRAMENTO, CA 95820

Revisions	
Date:	



# FLAME RETARDANT

## Fabric Registration

LICENSE NUMBER: F-094501

EXTRA BLOCK SHADECLOTH

### Product Marketed by:

ALNET PTY (LTD)  
MOORSOM AVENUE, EPPING, INDUSTRY II  
CAPE TOWN, S. AFRICA

Issue Date : 03/25/2024  
Expiration Date : 06/30/2025

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

C Walker

Issued By Courtney Walker  
Fire Engineering License Manager  
Fire Engineering & Investigations Division

Patricia J. Setter

Reviewed and Approved By Patricia Setter  
Deputy State Fire Marshal III  
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit [cafire.gov/motus.org](http://cafire.gov/motus.org) for more information on Licensing and Permitting with CAL FIRE

### Commercial NinetyFive 340FR PRODUCT SPECIFICATION

Commercial NinetyFive 340 FR, the flame retardant version of the most trusted HDPE shade fabric in the industry, is a mid-weight, flame retardant fabric that delivers the utmost in versatility. Available in 22 vibrant and on-trend colors, Commercial NinetyFive 340 FR can fulfill almost any HDPE design requirement.

**PERFORMANCE**

**ASTM D5034**  
Tensile Strength and Elongation  
Maximum Force – Warp (Mean) 158.6 lbf  
Elongation at Maximum Force (Mean) 89%  
Maximum Force – Weft (Mean) 412.3 lbf  
Elongation at Maximum Force – Warp (Mean) 49%

**ASTM D2261**  
Tearing Strength – Tongue (Single Rip)  
Mean Force – Warp 43.0 lbf  
Mean Force – Weft 39.6 lbf

**ASTM D6797**  
Bursting Strength – Ball Burst (Constant Rate of Extension)  
Mean Force 408 lbf

**AS 4174-2018**  
Shade Protection Fabric Performance

Colour	Cover Factor	Shade Trans %	UV-A% Trans %	UVR Trans %	UVE% Trans %	Protection Category	
Aquatic Blue	92	88.1	11.9	8.5	91.5	91	Very Effective
Black	95	94.8	5.2	5.0	95.0	94	Very Effective
Bright Green	90	87.3	12.7	9.0	91.0	90	Effective
Brown	96	94.3	5.7	4.0	96.0	96	Most Effective
Brunswick Green	93	92.9	7.1	6.4	93.6	92	Very Effective
Cayenne	93	87.3	12.7	6.7	93.3	92	Very Effective
Cedar	93	88.4	11.6	6.4	93.6	93	Very Effective
Charcoal	93	93.6	6.4	6.1	93.8	92	Very Effective
Cherry Red	90	89.0	20.0	10.0	90.0	90	Effective
Deep Olive	91	90.5	9.5	8.3	91.7	90	Effective
Desert Sand	93	86.1	13.9	6.6	93.4	92	Very Effective
Gun Metal	96	94.5	5.5	3.5	96.5	96	Most Effective
Natural	94	78.3	21.7	6.5	93.5	92	Very Effective
Navy Blue	94	93.1	6.9	6.2	93.8	93	Very Effective
Orange	92	80.8	19.2	7.6	92.4	91	Very Effective
Rivergreen	94	89.7	10.3	6.0	94.0	93	Very Effective
Royal Purple	91	87.9	12.1	8.6	91.4	90	Effective
Sky Blue	94	91.3	8.7	6.0	94.0	93	Very Effective
Steel Grey	92	89.7	10.3	7.6	92.4	91	Very Effective
Turquoise	94	89.5	10.5	6.6	93.4	93	Very Effective
White	95	76.5	23.5	5.4	94.6	94	Very Effective
Yellow	93	77.5	22.5	6.8	93.2	92	Very Effective

**FLAMMABILITY**  
CSFM Title 19 1237.1  
NFPA 701 Test Methods 1 & 2  
ASTM E84 198

Each color individually tested and passes all certification criteria for above. Test results available upon request.  
NFPP-203 Class M1 in process

**FABRIC PROPERTIES**  
ISO 2001 2 13 Mils per unit  
Nominal fabric mass 340 gsm ± 20 / 10 oz/yd<sup>2</sup>  
Approximate thickness 0.06 in / 1.6 mm

**ROLL SPECIFICATIONS**  
Nominal width: 9 ft / 3.0m (folded)  
Length: 131 ft 3 in / 40m  
Approx. roll weight: 97 lbs / 44 kg  
Approx. roll diameter: 1.23 ft / 0.38 m  
Core diameter: 1.38 in / 35 mm

**USAGE INSTRUCTIONS**  
Do not use against flames. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty. Biased elastic material properties available on request.

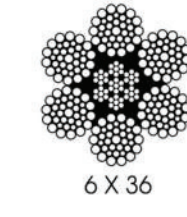
**SUGGESTED SPECIFICATION**  
Shade cloth fabric shall be compliant to Australian standard AS 4174-2018 and shall be GALE Pacific Commercial NinetyFive 340 FR Knitted HDPE monofilament & tape shade fabric offering a UV Protection from 90 to 98%.

USA P 1800 550 4687 F +1 407 772 0553  
AU P 1800 331 521 F +61 3 9516 3398  
NZ P 0800 255 171 F 0909 355 172  
UAE P +971 4 881 7114 F +971 4 881 7167  
www.galecommercial.com

Rev 1 - US 3/20



7 x 19



6 X 36



Stainless Steel Wire Rope Clips



Stainless Steel Jaw & Jaw Turnbuckle

### 7X19 Stainless Steel Cable

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
3/16	6.50	3,700	3,210
7/32	8.60	5,000	4,350
1/4	11.00	6,400	5,600
5/16	17.30	9,000	8,200
3/8	24.30	12,000	11,000

### 6X19/37 Class Stainless Steel Wire Rope

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
7/16	35.0	16,300	14,800

### Stainless Steel Wire Rope Clips

Precision Cast Type 316

Size (Inch)	Size (mm)	Min Clips Required	Weight (Lbs)
3/16	5	3	0.08
1/4	6	3	0.09
5/16	8	3	0.19
3/8	10	3	0.38
1/2	12	4	0.53
5/8	16	4	0.90
3/4	20	5	1.06

### Stainless Steel Jaw & Jaw Turnbuckle

T316, Forged

Size X Take Up (Inch)	Working Load Limit (Lbs)	Weight per Each (Lbs)
1/4 x 4	500	0.528
5/16 x 4-1/2	800	0.726
3/8 x 6	1,200	0.880
1/2 x 12	2,200	2.394
5/8 x 12	3,500	4.664
3/4 x 12	5,200	7.042
1 x 12	8,000	11.24

DSA IDENTIFICATION STAMP  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-123079 INC:  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 01/17/2025



Shade  
SUPERIOR SHADE  
150 Adamson Industrial Blvd.  
Carrollton, GA 30117

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PC IDENTIFICATION STAMP  
PRE-CHECK (PC) DOCUMENT  
CODE: 2022 CBC  
A separate project application  
for construction is required

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120923-PC  
REVIEWED FOR  
SS  FLS  ACS  CG   
DATE: 9/21/2023

SITE PROJECT NAME:  
JOSEPH BONNHHEIM ELEMENTARY SCHOOL:  
PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS  
DISTRICT/OWNER:  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
LOCATION/ADDRESS:  
7300 MARIN AVE  
SACRAMENTO, CA 95820

Revisions

Date:	By:
0 12/18/2022	KJK
1 8/16/2023	KJK

Drawn: KJK  
Date: 12/8/2022  
Chkd: Zhisong Zhao  
Date: 1/19/2023  
Job Number:

SEAL:



S5  
Sheet No.

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC**

Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

**2022 CBC**

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**\*\*NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

**KEY TO COLUMNS**

1. TYPE	2. PERFORMED BY
<b>Continuous</b> - Indicates that a continuous special inspection is required	<b>GE (Geotechnical Engineer)</b> - Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. <b>LOR (Laboratory of Record)</b> - Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CBC Section 4-335.
<b>Periodic</b> - Indicates that a periodic special inspection is required	<b>PI (Project Inspector)</b> - Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
<b>Test</b> - Indicates that a test is required	<b>SI (Special Inspection)</b> - Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC**

Table 1705A.6, Table 1705A.7, Table 1705A.8  
 Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

**Geotechnical Reports:** Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

S1. GENERAL:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify that: - Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. - Foundation excavations are extended to proper depth and have reached proper material. - Materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
<input type="checkbox"/> b. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
<input checked="" type="checkbox"/> c. Verify use of proper materials, densities and inspect lift thickness, placement and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
<input checked="" type="checkbox"/> d. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC**

Table 1705A.6, Table 1705A.7, Table 1705A.8  
 Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

**S3. DRIVEN DEEP FOUNDATIONS (PILES):**

**S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**

Test or Special Inspection	Type	Performed By	Code References and Note
<input checked="" type="checkbox"/> a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/> b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/> c. Confirm adequate end-stata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/> d. Concrete piers.			Provide tests and inspections per CONCRETE section below.

**S5. RETAINING WALLS:**

**S6. OTHER SOILS:**

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC**

Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13  
 Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/> b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/> c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5.8 & 26.12.
<input checked="" type="checkbox"/> d. Test concrete (f'c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
<input type="checkbox"/> e. Batch plant inspection.	See Notes	SI	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
<input type="checkbox"/> f. Welding of reinforcing steel.			Provide special inspection per STEEL, Category S/A4(d), (e) and/or S/A5(g) & (h) below.

**C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):**

**C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):**

**C4. SHOTCRETE (IN ADDITION TO SECTION C1):**

**C5. POST-INSTALLED ANCHORS:**

**C6. OTHER CONCRETE:**

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**

Table 1705A.2.1, AISI 303-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  
 Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify identification of all materials and - Mill certificates indicate material properties that comply with requirements. - Material sizes, types and grades comply with requirements.	Periodic	LOR	Table 1705A.2.1 Item 3a, 3c, 2202A.1; AISI 5100-20 Section A3.1 & A3.2; AISI 5100-20 Section A3 & A5; AISI 5220-20 Sections A4 & A6; * By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/> b. Test unidentified materials.	Test	LOR	2202A.1.
<input checked="" type="checkbox"/> c. Examine seam welds of HSS shapes.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
<input type="checkbox"/> e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

**S/A2. HIGH-STRENGTH BOLTS:**

**S/A3. WELDING:**

Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
<input checked="" type="checkbox"/> b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**

Table 1705A.2.1, AISI 303-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  
 Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1-4; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/> b. Inspect single pass fillet welds < 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
<input type="checkbox"/> c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.4; AISI 360-16 (and AISI 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
<input checked="" type="checkbox"/> d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/> e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1905A.8; AWS D1.4; DSA IR 17-3.

**S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):**

**S/A6. NONDESTRUCTIVE TESTING:**

**S/A7. STEEL JOISTS AND TRUSSES:**

**S/A8. SPRAYED FIRE-RESISTANT MATERIALS:**

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**

Table 1705A.2.1, AISI 303-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  
 Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
<input type="checkbox"/> b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

**S/A10. STORAGE RACK SYSTEMS:**

**S/A11. Other Steel**

**Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections**

Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

Exempt Items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

**SOILS:**

**CONCRETE/MASONRY:**

**WELDING:**

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2022 CBC**

Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

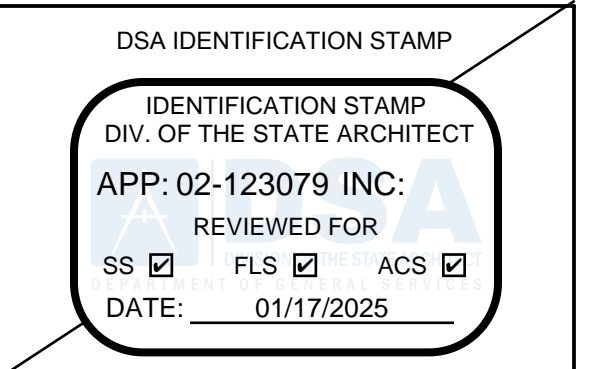
Signature of Architect or Structural Engineer: Date:

**Note:** To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends using signed electronic or digital signatures.

**DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022**

Application Number: School Name: School District:  
 DSA File Number: Increment Number: Date Created:

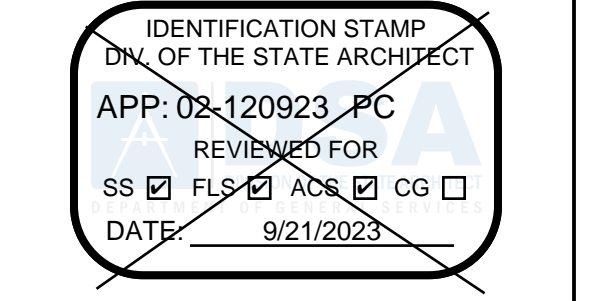
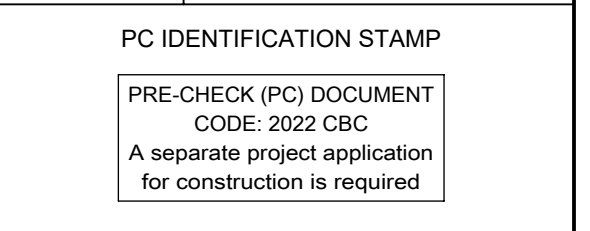
- Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
- Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
- Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
- Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently conducting SI, Special Inspection Verified Report Form DSA 292



SUPERIOR SHADE  
 150 Adamson Industrial Blvd.  
 Carrollton, GA 30117

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 EXAMPLE FORM DSA 103 -  
 TESTS & INSPECTIONS**

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SITE PROJECT NAME:  
**JOSEPH BONNHEIM ELEMENTARY SCHOOL:  
 PLAYGROUND UPGRADES AND LANDSCAPE REPAIRS**

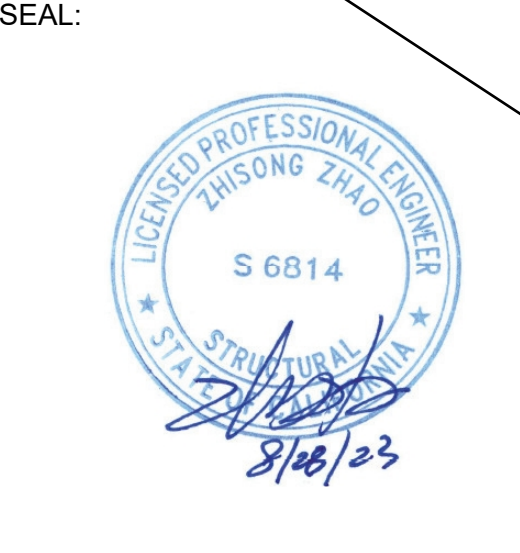
DISTRICT/OWNER:  
**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

LOCATION/ADDRESS:  
**7300 MARIN AVE  
 SACRAMENTO, CA 95820**

Revisions		
Date:	By:	
0	12/18/2022	KJK
1	8/16/2023	KJK

Drawn: KJK  
 Date: 12/8/2022  
 Chkd: Zhisong Zhao  
 Date: 1/19/2023  
 Job Number:

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**S6**  
 Sheet No.