G0.00 - TITLE SHEET

TWIN RIVERS USD

MADISON ES - UTK NEW CLASSROOM BLDG - INC.1 SITE PACKAGE

04/08/2024

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
2. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
3. REFER TO THE PROJECT MANUAL (SPECIFICATIONS) FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS.
4. THE CONSTRUCTION DOCUMENT DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
5. THE CONTRACTOR SHALL:
   A. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
   B. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEER'S DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
   C. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY THE CONTRACTOR AS DIRECTED BY THE ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
   D. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS.
   E. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES. AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE WORK ACCORDINGLY.
   F. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION, AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT.
   G. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH OWNER FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL.
   H. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL (SPECIFICATIONS).
   I. ENACT ALL MEASURES TO PROTECT IN PLACE AND SAFEGUARD ALL ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR ELEMENTS DAMAGED BY THE EXECUTION OF THE CONTRACT TO EQUAL OR LIKE NEW CONDITION.
   J. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER.
   K. COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER BUILDING SYSTEMS WITH THE ARCHITECT.
   L. ENSURE ALL CONSTRUCTION REMAINS ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.
   M. STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO OWNER.
6. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
7. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.
8. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL ELEMENT UNLESS NOTED OTHERWISE.
9. ALL PLAN DIMENSIONS FOR MASONRY AND CONCRETE REPRESENT FACE OF MATERIAL AND OPENING UNLESS NOTED OTHERWISE.
10. ALL PLAN DIMENSIONS FOR STUD WALLS REPRESENT FACE OF STUD UNLESS NOTED OTHERWISE.
11. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF THE ARCHITECT UNLESS NOTED (±) OR "VERIFY". DIMENSIONS NOTED "HOLD" SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAYOUT CONTROL UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
12. ANY ITEM, CONDITION OR DIMENSION NOTED AS "FIELD VERIFY" OR "VERIFY IN FIELD" SHALL BE CONFIRMED ON SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT OF RECORD BEFORE INCORPORATING INTO THE WORK.
13. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS NOTED "AFF" (ABOVE FINISH FLOOR)
14. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", THE CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
15. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.
16. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
17. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.
18. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY
19. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF PBK ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF PBK ARCHITECTS, INC.
20. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PBK ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS PBK ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.
21. FIRE SAFETY DURING CONSTRUCTION:
   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.
   B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTERS, SECTION 501.4 AND CHAPTER 33, SECTION 3310.
   C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATION IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3312.
   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.
   E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
   F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.
22. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
23. CUTTING, BORING, SAW-CUTTING OR DRILLING THROUGH STRUCTURAL ELEMENTS SHALL NOT COMMENCE UNTIL THE DRAWINGS HAVE BEEN SUMITTED, REVIEWED, AND APPROVED BY THE ARCHITECT OF RECORD.
24. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6);

    THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

    ENVELOPE MANDATORY MEASURES:

   A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
   B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.
   C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
   D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
   E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 110.6.
   F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.
   G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).
25. INSPECTOR OF RECORD REQUIREMENTS:
   A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.
   B. INSPECTOR SHALL BE CERTIFIED AS A CLASS __1___ INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPACTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.
26. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
27. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24; CCR, PART 1, SECTION 4-338.
28. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
29. DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.
30. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND THE CALIFORNIA RETAIL FOOD FACILITIES LAW.
31. 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 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 THE DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
32. ALL SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING INDICATED ON THESE DRAWINGS WAS DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ACCESSIBILITY STANDARDS OF THE CALIFORNIA BUILDING CODE (CBC) TITLE 24, PART 2, CHAPTER 11B OF THE CALIFORNIA CODE OF REGULATIONS (CCR); STRICT EXECUTION OF THE SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD A CONDITION PRESENT ITSELF THAT WOULD RESULT IN AN INSTALLATION OTHER THAN WHAT IS INDICATED IN THESE DRAWINGS, PBK ARCHITECTS INC. SHALL BE NOTIFIED IN WRITING AND A COMPLIANT RESOLUTION WILL BE FORMULATED.
33. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
34. DEFERRED APPROVAL ITEMS:

    INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF DESIGN AND SIGNED BY A CALIFORNIA REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

    DEFFERED APPROVAL ITEMS SHALL BE SUBMITTED FOR REVIEW NO LATER THAN 30 DAYS AFTER THE NOTICE TO PROCEED.
35. "NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA TERMINATION OF EXISTING UTILITIES SERVING THE DEMOLISHED BUILDING, AND /OR ANY CONSTRUCTED OR INSTALLED ELEMENTS TO HOUSE TERMINATIONS.

PROJECT TEAM

OWNER
TWIN RIVERS UNIFIED SCHOOL DISTRICT
3222 WINONA WAY, SUITE 200
NORTH HIGHLANDS, CA 95660
916-566-1600 x50261 PH
916-566-1784 FX

ARCHITECT
PBK ARCHITECTS
1110 IRON POINT RD SUITE 200,
FOLSOM, CA 95630
916-355-9922 PH

CIVIL ENGINEER
WARREN CONSULTING ENGINEERS
1117 WINDFIELD WAY
EL DORADO HILLS, CA 95762
916-985-1870 PH

ELECTRICAL ENGINEER
LEAF ENGINEERS
1110 IRON POINT RD SUITE 200,
FOLSOM, CA 95630
916-355-9922 PH

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 HIGH STREET
AUBURN, CA 95603
530-885-0040 PH

GOVERNING AGENCIES

DIVISION OF THE STATE ARCHITECT
1102 Q STREET, SUITE 5200
SACRAMENTO, CA 95814
916-445-8730

STRUCTURAL TESTS & SPECIAL INSPECTIONS EXEMPT ITEMS

SOILS:

1. DEEP FOUNDATIONS ACTING AS A CANTILEVER FOOTING WITH A DESIGN BASED ON MINIMUM ALLOWABLE PRESSURES PER CBC TABLE 1806A.2 AND WITHOUT A GEOTECHNICAL REPORT FOR THE FOLLOWING CASES: A) FREE STANDING SIGN OR SCOREBOARD, B) CELL OR ANTENNA TOWERS AND POLES LESS THAN 35'-0" TALL (E.G., LIGHTING POLES, FLAG POLES, POLES SUPPORTING OPEN MESH FENCES, ETC.), C) SINGLE-STORY STRUCTURE WITH DEAD LOAD LESS THAN 5 PSF (E.G., OPEN FABRIC SHADE STRUCTURE), OR D) COVERED WALKWAY STRUCTURE WITH AN APEX HEIGHT LESS THAN 10'-0" ABOVE ADJACENT GRADE.

CONCRETE / MASONRY:

2. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1705A.3.3.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION.
4.EPOXY SHEAR DOWELS IN SITE FLATWORK AND/OR OTHER NON-STRUCTURAL CONCRETE.

WELDING:

1. SOLID-CLAD AND OPEN-MESH FENCES, GATES WITH MAXIMUM LEAF SPAN OF 10', AND GATES WITH A MAXIMUM ROLLING SECTION OF 10' ALL HAVING AN APEX HEIGHT LESS THAN 6'-0" ABOVE LOWEST ADJACENT GRADE. WHEN LOCATED ABOVE CIRCULATION OR OCCUPIED SPACE BELOW, THESE GATES/FENCES ARE NOT LOCATED WITHIN 1.5X GATE/FENCE HEIGHT (MAX 6'-0") TO THE EDGE OF FLOOR OR ROOF.

CODES & STANDARDS

PARTIAL LIST OF APPLICABLE CODES

2022 California Administrative Code (CAC)	(Part 1, Title 24, CCR)
2022 California Building Code (CBC) (2021 International Building Code Volumes 1 & 2 with 2022 California Amendments)	(Part 2, Title 24, CCR)
2022 California Electrical Code (CEC) (2020 National Electrical Code with 2022 California Amendments)	(Part 3, Title 24, CCR)
2022 California Mechanical Code (CMC) (2021 IAPMO Uniform Mechanical Code with 2022 California Amendments)	(Part 4, Title 24, CCR)
2022 California Plumbing Code (CPC) (2021 IAPMO Uniform Plumbing Code with 2022 California Amendments)	(Part 5, Title 24, CCR)
2022 California Energy Code (CEC)	(Part 6, Title 24, CCR)
2022 California Fire Code (CFC) (2021 International Fire Code with 2022 California Amendments)	(Part 9, Title 24, CCR)
2022 California Existing Building Code (CEBC) (2021 International Existing Building Code with 2022 California Amendments)	(Part 10, Title 24, CCR)
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 Marshall Regulations	
2019 ASME A17.1/CSA B44-16 Safety Code For Elevators and Escalators	

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 ..... Standard for the Installation of Sprinkler Systems (as amended) *	(2022 Edition)
NFPA 14 ..... Standard for the Installation of Standpipe and Hose Systems (as amended) *	(2019 Edition)
NFPA 17 ..... Standard for Dry Chemical Extinguishing Systems	(2021 Edition)
NFPA 17A ..... Standard for Wet Chemical Extinguishing Systems	(2021 Edition)
NFPA 20 ..... Standard for the Installation of Stationary Pumps for Fire Protection	(2019 Edition)
NFPA 22 ..... Standard for Water Tanks for Private Fire Protection	(2013 Edition)
NFPA 24 ..... Standard for the Installation of Private Fire Service Mains and Their Appurtenances (as amended)*	(2019 Edition)
NFPA 25 ..... Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems with California Amendments (Based on NFPA 25, 2011 Edition)	(2019 Edition)
NFPA 72 ..... National Fire Alarm and Signaling Code (as amended) *	(2022 Edition)
NFPA 80 ..... Fire Doors and Other Opening Protectives	(2019 Edition)
NFPA 92 ..... Standard for Smoke Control Systems	(2018 Edition)
NFPA 253 ..... Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source	(2019 Edition)
NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems (as amended) *	(2018 Edition)
ICC 300 ..... ICC Standard on Bleachers, Folding and Telescoping Seating and Grandstands	(2017 Edition)
UL 300 ..... Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment—with Revisions through December 2014	2005 (R2010)
UL 464 ..... Audible Signal Appliances—with Revisions through October 10, 2003	(2003 Edition)
UL 521 ..... Heat Detectors for Fire Protective Signaling Systems—with Revisions through July 20, 2005	(1999 Edition)
UL 1971 ..... Standard for Signaling Devices for the Hearing Impaired	2002(R2012)

* See CBC Chapter 35, Referenced Standards for State of California amendments to the NFPA Standards.
For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code (CFC) Chapter 80.

SCOPE OF WORK

THE SCOPE OF WORK AS STATE BELOW IS FOR PLAN REVIEW PURPOSES ONLY AND DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

INCREMENT ONE:
SCOPE OF WORK INCLUDES ALL CONSTRUCTION AND SERVICES REQUIRED TO PROVIDE:
1. SITE RELATED IMPROVEMENTS.

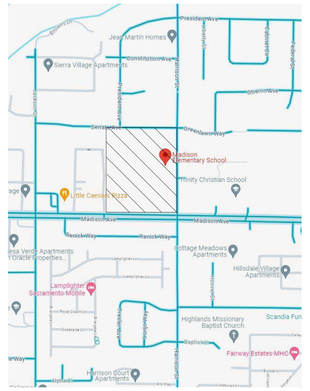
SITE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO; WALKWAYS, FENCING, UTILITIES, LANDSCAPING AND DRIVEWAYS/FIRE LANES

INCREMENT TWO:
SCOPE OF WORK INCLUDES ALL CONSTRUCTION AND SERVICES REQUIRED TO PROVIDE:
1. CONSTRUCTION AND INSTALLATION OF TWO (2) NEW MODULAR CLASSROOM BUILDINGS..

DEFERRED SUBMITTALS

DEFERRED APPROVAL ITEMS FOR THIS PROJECT ARE THE FOLLOWING ITEMS: NONE

VICINITY MAP



GOOGLE MAP
ADDRESS: 5241 HARRISON ST, NORTH HIGHLANDS, CA 95660

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

MADISON ES -TK NEW CLASSROOM BLDG- INC.1 SITE PACKAGE
TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN: #76505-334
INC 1

INC 1

TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
ANTHONY JULES HARRIS
C-31264
09-30-25
RENEWAL DATE
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: MS CHKED BY: AH

REVISIONS

#	DESCRIPTION	DATE

INC 1

This document is for plan review only

TITLE SHEET

G0.00

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DRAWING CONVENTIONS

- ENLARGED PLAN / DETAIL ENLARGEMENT (1 / A101)
- EXTERIOR ELEVATION (1 / A6.00)
- BUILDING SECTION (1 / A7.10)
- WALL SECTION (1 / A7.10)
- DETAIL SECTION (1 / A6.00)
- INTERIOR ELEVATIONS (106 / A6.00)
- ROOM NAME & NUMBER (ROOM NAME / 106)
- MATCH LINE (1 / A2.00)
- FLOOR / DATUM LINE (NAME / ELEVATION)
- GRID / COLUMN LINE (A)
- EXISTING GRID / COLUMN LINE (A)
- NEW PARTITION
- PARTITION TYPE (S6.1 / 1' 0") *REFER TO SHEET* **A7.00** *FOR DEFINITION*
- EXISTING PARTITION
- DOOR DESIGNATION (106B)
- WINDOW DESIGNATION (A)
- DIMENSIONS (6'-6" + 5'-6" = 12'-0") *NOTE: ALL DIMENSIONS TO FACE OF STUD / ℄ OF COLUMN UNLESS NOTED OTHERWISE*
- W.I. CABINET REFERENCE (302 / 36"x24"x30") *WIDTH x DEPTH x HEIGHT*
- EQUIPMENT DESIGNATION (TA3)
- CONSTRUCTION KEYNOTE (09 21.00)
- DEMOLITION KEYNOTE (D.00)
- REVISION / REVISION NUMBER (1)
- NORTH ARROWS (REFERENCE NORTH / TRUE NORTH)

SHEET NUMBERING

A2.01

- **SEQUENCE** (.01 - .99.....etc.)
- **SHEET TYPE**
  - 1 - SITE PLANS & DETAILS
  - 2 - FLOOR PLANS
  - 3 - ROOF
  - 4 - ENLARGED PLANS
  - 5 - PLAN DETAILS
  - 6 - BUILDING SECTIONS, EXTERIOR/INTERIOR ELEVATIONS
  - 7 - PARTITION TYPES & WALL SECTIONS
  - 8 - CASEWORK DETAILS
  - 9 - WINDOWS, DOORS, FRAME ELEVATIONS & DETAILS
  - 10 - REFLECTED CEILING, FLOOR FINISH PLANS & DETAILS
  - 11 - EQUIPMENT AND FURNITURE PLANS
- **DISCIPLINE**
  - G - GENERAL
  - C - CIVIL
  - L - LANDSCAPE
  - D - DEMO
  - A - ARCHITECTURAL
  - S - STRUCTURAL
  - M - MECHANICAL
  - P - PLUMBING
  - FP - FIRE PROTECTION
  - E - ELECTRICAL
  - T - TECHNOLOGY
  - FA - FIRE ALARM
  - FS - FOOD SERVICE

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECT/ENGINEERS WHO UTILZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

Application No. 02-122237 File No. 34-70

☒ The drawings or sheets listed on the cover or index sheet (see asterisk *)
☐ This drawing, page of specifications / calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1. design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2. coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I find that:

☒ The drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☒ is/are in general conformance and
☒ have been coordinated

Signature — 04/01/2024 Date
Architect or Engineer designated to be in general responsible charge

Anthony J. Harris Print Name — 04/01/2024 Date

C-31264 License Number — 09-30-2025 Expiration Date

DRAWING INDEX

TOTAL SHEETS: 29

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
A.H.J.	AUTHORITY HAVING JURISDICTION
AC	ASPHALT CONCRETE PAVEMENT
ACC	ACCESSIBLE, ACCESSIBILITY
ACP	ACOUSTICAL PANEL
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADA	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
ADJ	ADJACENT
ALT	ALTERNATE
ALUM	ALUMINUM
ASPH	ASPHALT
B.O.D.	BOTTOM OF DECK
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BUR	BUILT-UP ROOF
C	CHANNEL
CAB, CABT	CABINET
CBC	CALIFORNIA BUILDING CODE / TITLE 24, CALIFORNIA CODE OF REGULATIONS
CFMF	COLD-FORMED METAL FRAMING
CFSF	COLD-FORMED STEEL FRAMING
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSIBLE
CONC	CONCRETE
COND	CONDITION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET (ED)
CT	CERAMIC TILE
CTSK	COUNTER SINK
CW	COLD WATER
D	DRYER
D.A.	DISABLED ACCESS(IBILITY)
DF	DRINKING FOUNTAIN
DIA / Ø	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION (HEIGHT)
ELEC	ELECTRICAL
ELECT	ELECTRICAL
ELEV	ELEVATION (DRAWING)
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH (ED)
FIXT	FIXTURE
FLR	FLOOR (ING)
FLUOR	FLUORESCENT
FRP	FIBER-REINFORCED PLASTIC
GA	GAUGE
GALV	GALVANIZED
GCMU	GLAZED CONCRETE MASONRY UNIT
GEN	GENERAL
GI	GALVANIZED IRON
GL	GLASS / GLAZING
GL	GLASS
GR	GRADE
GTP	GLAZED TILE PAVER
GYP	GYPSUM DRYWALL
HM	HOLLOW METAL FRAME
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
INSUL	INSULATE (ED), (ION)
INT	INTERIOR
IPS	IRON PIPE SIZE
JT	JOINT
LA	LANDSCAPED AREA
LAM	LAMINATE (D)
LAV	LAVATORY
LT	LIGHT
LT WT	LIGHTWEIGHT
M.O.	MASONRY OPENING
MAS	MASONRY
MATL	MATERIAL (S)
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEPT	MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY
MEZZ	MEZZANINE
MFR / MANUF	MANUFACTURE (R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODULAR
MTL	METAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM	NOMINAL
O.C.	ON CENTER (S)
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OPNG	OPENING
OPP	OPPOSITE
P. LAM / PLAM	PLASTIC LAMINATE
PCC	PORTLAND CEMENT CONCRETE PAVING
PL	PLATE
PLUMB	PLUMBING
POL	POLISHED
PR	PAIR
PREFIN	PRE-FINISHED
PT	POINT
PT	PRESSURE-TREATED
PTD	PAINTED
PWD / PLYWD	PLYWOOD
QT	QUARRY TILE
R / RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE / REF	REFER TO / REFERENCE / SEE
RECP	RECEPTACLE
REINF	REINFORCE (D), (ING)
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION (S), REVISED
SC	SEALED CONCRETE
SCHED	SCHEDULE
SD	SOAP DISPENSER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SND	SANITARY NAPKIN DISPOSAL
SPC	SPECIAL COATING SYSTEM
SPEC	SPECIFICATION (S)
SQ	SQUARE
SS	STAINLESS STEEL
STL	STEEL
STR / STRUCT	STRUCTURAL
SUSP	SUSPENDED
SVF	SHEET VINYL FLOORING
T.O.	TOP OF
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
TB	TACK BOARD
TEL	TELEPHONE
TERR	TERRAZZO
THK	THICK (NESS)
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITION TILE
VENT	VENTILATING, VENTILATED
VER	VERIFY
VERT	VERTICAL
VWC	VINYL WALL COVERING
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH
∠	ANGLE

INC 1

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

MADISON ES -TK NEW CLASSROOM BLDG- INC.1 SITE
PACKAGE
TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN #76505-334
INC 1

KEY PLAN — PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
ANTHONY JULES HARRIS
C-31264
09-30-25
RENEWAL DATE
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: MS CHKED BY: AH

REVISIONS

#	DESCRIPTION	DATE

INC 1

SHEET INDEX & DRAWING CONVENTIONS

This document is for plan review only

G0.01

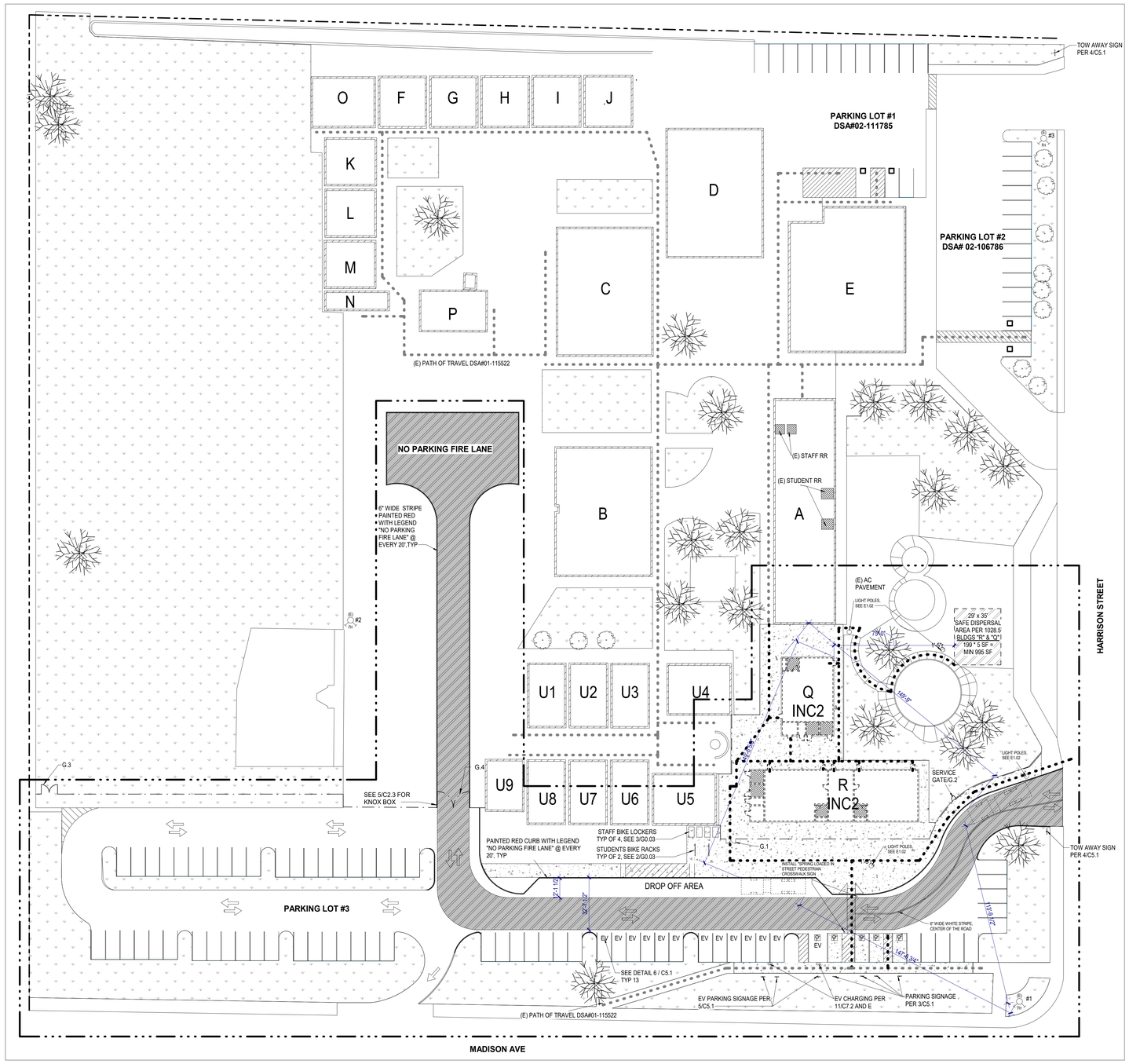
G0.02 - CAMPUS PLAN

GATE SCHEDULE

G.1	EXIT GATE W/PANIC HARDWARE (DOUBLE)	SEE 1/C7.3
G.2	SERVICE GATE (SINGLE)	SEE 2/C7.3
G.3	SERVICE GATE (DOUBLE)	SEE 4/C7.3
G.4	VEHICULAR GATE(DOUBLE)	SEE 4/C7.3

CAMPUS BUILDING INDEX

BLDG ID	DESCRIPTION	STORIES	OCCUPANCY	CONSTRUCTION TYPE	DSA #
1	UNIT 1	1	E	V-B	02-102482
2	UNIT 2	1	E	V-B	02-102482
3	UNIT 3	1	E	V-B	02-102482
4	UNIT 4	1	E	V-B	68119
5	UNIT 5	1	E	V-B	68119
6	UNIT 6	1	E	V-B	02-102482
7	UNIT 7	1	E	V-B	02-102482
8	UNIT 8	1	E	V-B	58828
9	UNIT 9	1	E	V-B	02-102482
A	ADMINISTRATION	1	B	V-B	02-110167
B	CLASSROOM BUILDING	1	E	V-B	02-110167
C	CLASSROOM BUILDING	1	E	V-B	02-106786
D	CLASSROOM BUILDING	1	E	V-B	02-110167
E	MULTI PURPOSE BLDG	1	A3	V-B	20512
F	CLASSROOM BUILDING	1	E	V-B	52098
G	CLASSROOM BUILDING	1	E	V-B	45723
H	CLASSROOM BUILDING	1	E	V-B	45166
I	CLASSROOM BUILDING	1	E	V-B	45166
J	CLASSROOM BUILDING	1	E	V-B	45166
K	CLASSROOM BUILDING	1	E	V-B	52090
L	CLASSROOM BUILDING	1	E	V-B	58621
M	CLASSROOM BUILDING	1	E	V-B	58621
N	CLASSROOM BUILDING	1	E	V-B	57438
O	CLASSROOM BUILDING	1	E	V-B	66119
P	CLASSROOM BUILDING	1	E	V-B	100670



ACCESS SITE PLAN LEGEND

- ASSUMED PROPERTY LINE
- APPROXIMATE LIMITS OF WORK
- EGRESS ROUTE
- ACCESSIBLE PATH OF TRAVEL
- (E) ACCESSIBLE PATH OF TRAVEL
- 150' FIRE ACCESS ROUTE W/ TRAVEL DISTANCE
- G ACCESSIBLE GATE RE: GATE SCHEDULE
- (E) BUILDING NOT IN SCOPE
- (E) / NEW FIRE HYDRANT
- PROPOSED BUILDING INCREMENT TWO
- FDC FIRE DEPARTMENT CONNECTION / P.I.V.
- FIRE ACCESS LANE
- (N) CONCRETE
- ACCESSIBLE TOILET ROOM
- LANDSCAPED AREA

PATH OF TRAVEL NOTES

ACCESSIBLE PATH OF TRAVEL (P.O.T.):
THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WITH.

SURFACE IS STABLE, FIRM AND SLIP RESISTANT, CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.

ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80".

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE P.O.T. INDENTIFIED 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 P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 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 NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. 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 P.O.T. 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 COMPLIANT WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PARKING CALCULATION

(E) PARKING LOT 1:
STANDARD STALLS 14
ACCESSIBLE STALLS REQ 2

TOTAL P-LOT 1 STALLS **16**

(E) PARKING LOT 2:
STANDARD STALLS 12
ACCESSIBLE STALLS REQ..... 2

TOTAL P-LOT 2 STALLS **14**

(E) PARKING LOT 3:
STANDARD STALLS 69
ACCESSIBLE STALLS REQ..... 4 (1 VAN ACCESSIBLE)

TOTAL P-LOT 3 STALLS **73**

*CALGREEN TABLE 5.106.5.3.1 REQUIREMENTS 51-75 = 13 EV STALLS (3 WITH CHARGING STATION)

TOTAL STALLS ON SITE 103

DSA 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	TWIN RIVERS UNIFIED SCHOOL DISTRICT
Project Name/School	MADISON ELEMENTARY SCHOOL
Project Address	5241 HARRISON ST, NORTH HIGHLANDS, CA 95660

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 ☑	No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐	No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐	No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐ Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*	WIFA ☐	

General Manager: Daniel R. York

SACRAMENTO SUBURBAN WATER DISTRICT — CLEARLY REFRESHING SERVICE

Board of Directors: President - Kevin M. Thomas; Vice President - Robert P. Wichert; Jay N. Boatwright; David A. Jones; Craig M. Locke

February 20, 2024

Warren Consulting Engineers, Inc.
Attn: Anthony Tassano
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762

via email: anthony@wceinc.com

Subject: Hydrant Flow Analysis for 5241 Harrison Street, APN: 228-0131-008-0000

Dear Anthony Tassano,

As requested, a hydrant flow analysis for the subject location was completed. The following information provides the data and results of the analysis:

Data:

Main Size (in.):	10	**Number of Hydrants:**	1
Type of Analysis:	Hydraulic Model	**Hydrant Type:**	Steamer

Analysis Result:

Pressure Condition	Pressure (psi)	Flowrate (gpm)
Static	71	0
Residual	20	≥4,000

psi = pounds per square inch gpm = gallons per minute

The flowrate listed is anticipated to be sustainable for 4 hours under normal conditions. However, reduction and loss of flow and pressure in the distribution system can be caused by many factors, including abnormal demands on the water system (such as simultaneous fires); damage to and failure of Sacramento Suburban Water District facilities (such as water main breaks); malfunctions of existing water production wells and pumps; and acts of terrorism and vandalism.

If you have any questions or need additional information, please do not hesitate to contact the Engineering Project Coordinator at 916.416.2713 or epc@sswd.org.

Sincerely,

Mitchell McCarthy, P.E.
Senior Engineer

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

MADISON ES -TK NEW CLASSROOM BLDG- INC.1 SITE PACKAGE
TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237; PTN #76505-334
INC 1

KEY PLAN — PLAN NORTH — TRUE NORTH

LICENSED ARCHITECT ANTHONY JULES HARRIS C-31264 09-30-25 RENEWAL DATE STATE OF CALIFORNIA

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: MS CHKED BY: AH
REVISIONS

#	DESCRIPTION	DATE

INC 1

CAMPUS PLAN

This document is for plan review only

G0.02

1 CODE ANALYSIS SITE PLAN
SCALE: 1" = 30'-0"

C:\Users\mehmaz.shahmiri\Documents\Madison Elementary School_mehmaz.shahmiri.rvt
6/24/2024 10:26:04 AM

SITE PLAN LEGEND

- ASSUMED PROPERTY LINE
- PROPERTY LINE - ASSUMED
- ACCESSIBLE PATH OF TRAVEL
- 150' FIRE ACCESS ROUTE W/ TRAVEL DISTANCE
- (E) BUILDING NOT IN SCOPE
- PROPOSED BUILDING INCREMENT TWO
- (E) FIRE ACCESS LANE
- AC PAVING
- APPROXIMATE LIMITS OF WORK
- (E) ACCESSIBLE PATH OF TRAVEL
- G ACCESSIBLE GATE RE: GATE SCHEDULE
- (E) / NEW FIRE HYDRANT
- FDC FIRE DEPARTMENT CONNECTION / P.I.V.
- ACCESSIBLE TOILET ROOM
- LANDSCAPED AREA

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CODE ANALYSIS - BLDG Q

1. GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE (CBC)
2. OCCUPANCY TYPE: (CBC 302) E
3. CONSTRUCTION TYPE: (CBC TABLE 601) TYPE VB WITHOUT AUTOMATIC FIRE SPRINKLER SYSTEM
4. BASIC ALLOWABLE HEIGHT & BUILDING AREA: (CBC TABLES 504.3, 504.4, 506.2)

OCCUPANCY GROUP	ALLOWABLE BLDG AREA	ALLOWABLE # OF STORIES	ALLOWABLE BLDG HEIGHT
GROUP E	9,500 SF	1	40'-0"
	0 SF		0'-0"
	0 SF		0'-0"

5. ACTUAL BUILDING DATA:

OCCUPANCY GROUP	ACTUAL BLDG AREA	ACTUAL # OF STORIES	ACTUAL BLDG HEIGHT
GROUP E	1,633 SF	1	18'-0"
GROUP E/OH	400 SF	1	18'-0"
N/A	0 SF		0'-0"

6. NONSEPARATED SPACES: (CBC 508.3& 506.2)

TOTAL: 2,033 SF

7. FIRE RESISTANCE REQUIREMENTS: (CBC TABLE 601)

STRUCTURAL FRAME:	0 HOURS
BEARING WALLS - EXTERIOR:	0 HOURS
BEARING WALLS - INTERIOR:	0 HOURS
NON-BEARING WALLS & PARTITIONS - EXTERIOR: (CBC TABLE 705.5)	FIRE RATING BASED ON FIRE SEPARATION DISTANCE: X<5' 1 HOURS; 5'≤X<10' 1 HOURS; 10'≤X<30' 0 HOURS; 30'<X 0 HOURS
ACTUAL SEPARATION DIST:	**≤10'-0" 0 HOURS**
NON-BEARING WALLS & PARTITIONS - INTERIOR:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
SHAFT ENCLOSURES: (CBC 713)	0 HOURS
PROJECTIONS: (CBC 705.2)	0 HOURS - MAY BE OF ANY APPROVED MATERIALS
EXTERIOR OPENINGS: (CBC TABLE 705.8)	UNPROTECTED , NONSPRINKLERED 45% (20'≤X<25')
CORRIDORS (CBC TABLE 1020.2)	0 HOURS

8. OCCUPANT LOAD: (CBC TABLE 1004.5) SHOWN ON PLAN
9. TOTAL EGRESS WIDTH REQUIRED: (CBC 1005.1) SHOWN ON INC 2 PLAN
10. COMMON PATH OF EGRESS TRAVEL: (CBC TABLE 1006.2.1) TWO EXITS OR EXIT ACCESS DOORWAYS FROM A SPACE SHALL BE PROVIDED WHERE THE COMMON PATH OF TRAVEL EXCEEDS 75'
11. FIRE HYDRANTS (TABLE BB105.1 & CC105.1) TYPE V-B MIN. REQUIRED FIRE FLOW & FLOW DURATION: 75' SF 0-3,600 / 1500 GPM / 2 HOURS NUMBER OF HYDRANTS AND DISTRIBUTION OF HYDRANTS : 1,750 OR LESS / 1 HYDRANT / 500 FT AVERAGE SPACE BETWEEN

CODE ANALYSIS - BLDG R

1. GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE (CBC)
2. OCCUPANCY TYPE: (CBC 302) E
3. CONSTRUCTION TYPE: (CBC TABLE 601) TYPE VB WITHOUT AUTOMATIC FIRE SPRINKLER SYSTEM
4. BASIC ALLOWABLE HEIGHT & BUILDING AREA: (CBC TABLES 504.3, 504.4, 506.2)

OCCUPANCY GROUP	ALLOWABLE BLDG AREA	ALLOWABLE # OF STORIES	ALLOWABLE BLDG HEIGHT
GROUP E	9,500 SF	1	40'-0"
	0 SF		0'-0"
	0 SF		0'-0"

5. ACTUAL BUILDING DATA:

OCCUPANCY GROUP	ACTUAL BLDG AREA	ACTUAL # OF STORIES	ACTUAL BLDG HEIGHT
GROUP E	3,480 SF	1	18'-0"
GROUP E/ OH	850 SF	1	18'-0"
N/A	0 SF		0'-0"
	0 SF		0'-0"

6. NONSEPARATED SPACES: (CBC 508.3& 506.2)

TOTAL: 4,330 SF

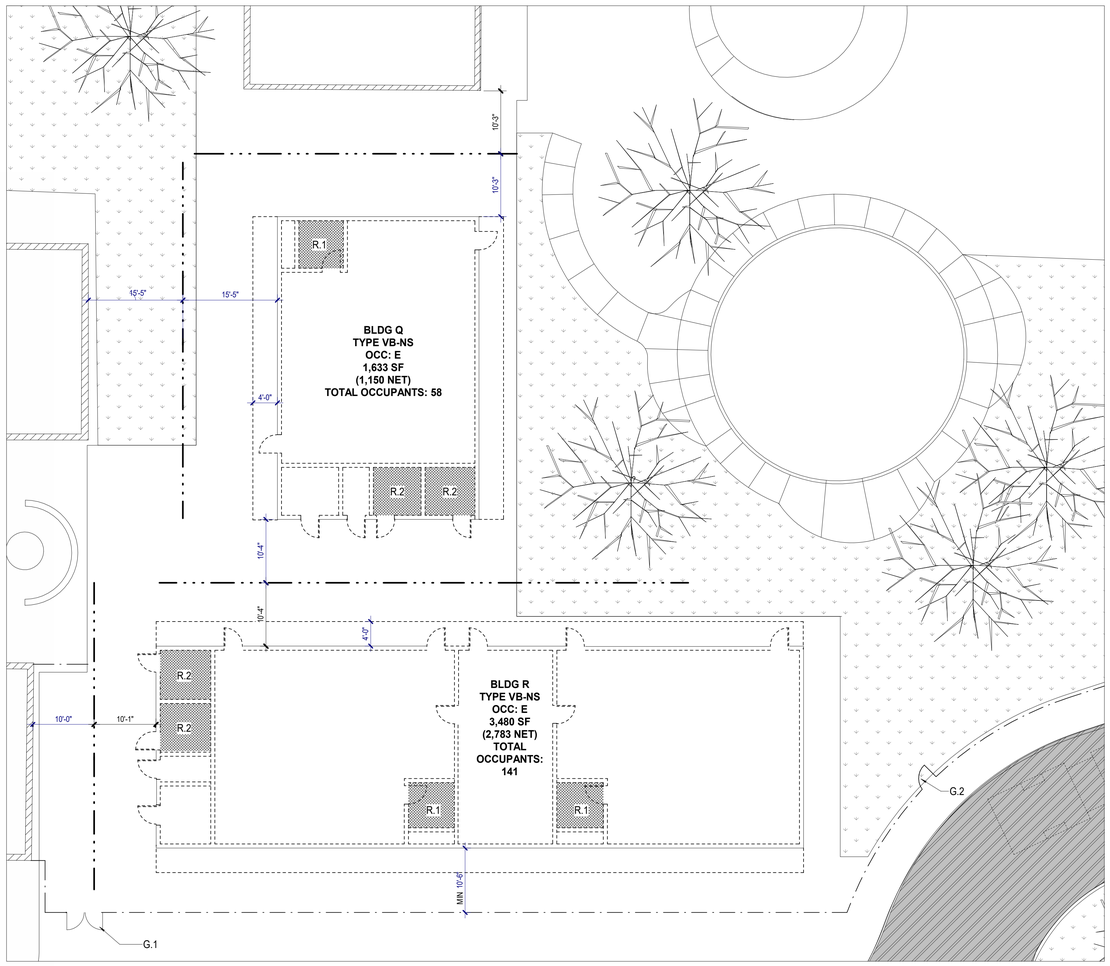
7. FIRE RESISTANCE REQUIREMENTS: (CBC TABLE 601)

STRUCTURAL FRAME:	0 HOURS
BEARING WALLS - EXTERIOR:	0 HOURS
BEARING WALLS - INTERIOR:	0 HOURS
NON-BEARING WALLS & PARTITIONS - EXTERIOR: (CBC TABLE 705.5)	FIRE RATING BASED ON FIRE SEPARATION DISTANCE: X<5' 1 HOURS; 5'≤X<10' 1 HOURS; 10'≤X<30' 0 HOURS; 30'<X 0 HOURS
ACTUAL SEPARATION DIST:	**≤10'-0" 0 HOURS**
NON-BEARING WALLS & PARTITIONS - INTERIOR:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
SHAFT ENCLOSURES: (CBC 713)	0 HOURS
PROJECTIONS: (CBC 705.2)	0 HOURS - MAY BE OF ANY APPROVED MATERIALS
EXTERIOR OPENINGS: (CBC TABLE 705.8)	UNPROTECTED , NONSPRINKLERED 45% (20'≤X<25')
CORRIDORS (CBC TABLE 1020.2)	0 HOURS

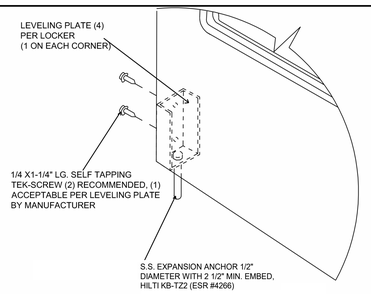
8. OCCUPANT LOAD: (CBC TABLE 1004.5) SHOWN ON PLAN
9. TOTAL EGRESS WIDTH REQUIRED: (CBC 1005.1) SHOWN ON INC 2 PLAN
10. COMMON PATH OF EGRESS TRAVEL: (CBC TABLE 1006.2.1) TWO EXITS OR EXIT ACCESS DOORWAYS FROM A SPACE SHALL BE PROVIDED WHERE THE COMMON PATH OF TRAVEL EXCEEDS 75'
11. FIRE HYDRANTS (TABLE BB105.1 & CC105.1) TYPE V-B MIN. REQUIRED FIRE FLOW & FLOW DURATION: 75' SF 0-3,600 / 1500 GPM / 2 HOURS NUMBER OF HYDRANTS AND DISTRIBUTION OF HYDRANTS : 1,750 OR LESS / 1 HYDRANT / 500 FT AVERAGE SPACE BETWEEN

KEYNOTES

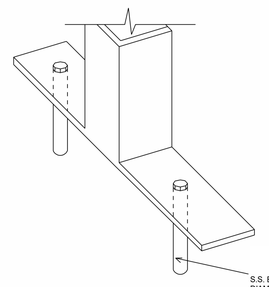
R.1 ACCESSIBLE STUDENTS RESTROOM
R.2 ACCESSIBLE STAFF RESTROOM



1 CODE ANALYSIS SITE PLAN
SCALE: 1" = 10'-0"



3 BIKE LOCKER -SURFACE MOUNT
SCALE: NTS



2 BIKE RACK -SURFACE MOUNT
SCALE: NTS

PBK

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MADISON ES -TK NEW CLASSROOM BLDG- INC.1 SITE PACKAGE
TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN #76505-334
INC 1

TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN
PLAN NORTH / TRUE NORTH

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: MS CHKED BY: AH

REVISIONS

#	DESCRIPTION	DATE

INC 1

SITE DATA & CODE REVIEW

This document is for plan review only

G0.03

SYMBOLS LEGEND TOPOGRAPHIC

= PROPERTY LINE
= CENTERLINE
= EASEMENT
= PROPERTY CORNER FOUND AS NOTED
= PROPERTY CORNER NOTHING FOUND OR SET
= TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
= SWALE OR DRAINAGE FLOW
= DRAINAGE FLOW
= FENCE (TYPE NOTED)
= TREE (SIZE/TYPE INDICATED)
= SLOPE
= CONTOUR
= CONCRETE SURFACE
= EDGE OF ASPHALT
= EDGE OF BUILDING
= SIGN
= POST OR BOLLARD
= GROUND ELEVATION
= HARD SURFACE ELEVATION

EXISTING UTILITIES

= STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
= STORM DRAIN LINE (RECORD INFORMATION)
= STORM DRAIN LINE (UNDERGROUND LOCATING)
= STORM DRAIN MANHOLE
= STORM DRAIN CLEANOUT
= DROP INLET
= AREA DRAIN
= RAIN WATER LEADER
= DOWNSPOUT
= SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
= SANITARY SEWER LINE (RECORD INFORMATION)
= SANITARY SEWER LINE (UNDERGROUND LOCATING)
= SANITARY SEWER MANHOLE
= SANITARY SEWER CLEANOUT
= WATER LINE (SIZE INDICATED)
= WATER LINE (RECORD INFORMATION)
= WATER LINE (UNDERGROUND LOCATING)
= WATER MANHOLE
= WATER VALVE
= WATER METER
= WATER BOX
= IRRIGATION CONTROL VALVE
= FIRE HYDRANT
= BACKFLOW PREVENTER
= SPRINKLER
= HOSE BIBB
= OVERHEAD ELECTRIC LINE
= UNDERGROUND ELECTRIC LINE
= UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
= UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
= ELECTRIC MANHOLE
= UTILITY POLE (WITH GUY WIRE)
= ELECTRIC METER
= ELECTRIC BOX
= STREET LIGHTING BOX
= LIGHT STANDARD
= SIGNAL LIGHT
= FLOOD LIGHT
= ELECTRICAL OUTLET
= GAS LINE (SIZE INDICATED)
= GAS LINE (RECORD INFORMATION)
= GAS LINE (UNDERGROUND LOCATING)
= GAS MANHOLE
= GAS VALVE
= GAS METER
= TELEPHONE LINE
= TELEPHONE LINE (RECORD INFORMATION)
= TELEPHONE LINE (UNDERGROUND LOCATING)
= STORM DRAIN BOX
= TRAFFIC SIGNAL BOX

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
7	CPS CHISELED "+"	9786.22	9989.29	101.34
10	CPS CHISELED "+"	9748.04	9818.01	97.15
11	CPS PK+WASHER	9711.92	9574.89	95.79
12	CPS CHISELED "+"	10067.61	9755.14	97.02
14	CPS CHISELED "+"	9901.22	9757.11	97.00
16	CPS CHISELED "+"	10200.43	9533.28	97.59
17	CPS PK+WASHER	10138.03	9632.85	96.46

A.P.N. 228-0131-008

BENCHMARK NO. **ASSUMED** ELEV. 100.00

ABBREVIATIONS TOPOGRAPHIC

AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
APP	APPARATUS
BBALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL	BLOCK
BLDG	BUILDING
BOL	BOLLARD
BOV	BLOW-OFF VALVE
BR.	BRICK
B.W.F.	BARBED WIRE FENCE
C	COMMUNICATION
C/L	CENTERLINE
CATV	CABLE TELEVISION
CIP	CAPPED IRON PIPE
C.L.F.	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CONC.	CONCRETE
COND.	CONDENSATE
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
D	DEPTH
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRB	GROUND ROD BOX
GROD	GROUND ROD
GV	GAS VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
HWF	HOG WIRE FENCE
IC	IN CONCRETE
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LNDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
OSPH	OLD STEEL POST HOLE
P/L	PROPERTY LINE
PA	PLANTER AREA
PB	PARKING BUMPER
PH	POSTHOLE
PIV	POST INDICATOR VALVE
PP	POWER POLE
PRKG	PARKING
PUE	PUBLIC UTILITY EASEMENT
PV	PAVERS
PVC	POLYVINYL CHLORIDE
R	RUBBER
RG	ROLLING GATE
RIM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RW	RETAINING WALL
RWD	REDWOOD
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL.	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TOW	TOP OF WALL
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
V	VENT
VBALL	VOLLEYBALL
W	WATER
W/	WITH
WD.	WOOD
WF	WOOD FENCE
W.I.F.	WROUGHT IRON FENCE
W.R.F.	WOOD RAIL FENCE
XF	TRANSFORMER
XWALK	CROSSWALK

SYMBOLS LEGEND

NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

8" SD — STORM DRAIN LINE (SIZE AND FLOW SHOWN)
STORM DRAIN MANHOLE (SDMH)
CATCH BASIN (CB)
DROP INLET (DI)
AREA DRAIN (AD)
PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
CO — STORM DRAIN CLEANOUT
99.99 — ELEVATION
FF=100.00 — FINISHED FLOOR ELEVATION
PAD=99.33 — BUILDING PAD ELEVATION
CONCRETE SIDEWALK
GRADED DIRECTION FOR DRAINAGE FLOW
SWALE
SLOPE
TREE TO BE REMOVED
RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS:

6" SS — SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
2" FM — SANITARY FORCE MAIN (SIZE AND FLOW SHOWN)
SANITARY SEWER MANHOLE (SSMH)
CO — SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

8" W — WATER LINE & SIZE
8" FS — FIRE LINE & SIZE
8" DW — DOMESTIC WATER LINE & SIZE
8" RW — RECLAIMED WATER LINE & SIZE
8" IRR — IRRIGATION SERVICE LINE & SIZE
8" NP — NON POTABLE WATER LINE & SIZE
8" SP — FIRE SPRINKLER SERVICE LINE & SIZE
GATE VALVE
M — WATER METER
FH — FIRE HYDRANT ASSEMBLY
Y FDC — FIRE DEPARTMENT CONNECTION
DC — DETECTOR CHECK VALVE
DDC — DOUBLE DETECTOR CHECK VALVE
RP — REDUCED PRESSURE BACKFLOW PREVENTER
BUTTERFLY VALVE
1" — AIR RELEASE VALVE + SIZE
1" — BLOW-OFF VALVE + SIZE
PIV — POST INDICATOR VALVE

ABBREVIATIONS

NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	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
DC	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
ESMT	EASEMENT
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GAS
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIBB
HBD	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
RIM	MANHOLE RIM ELEVATION
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SI	SIDE INLET
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TR	TOP OF RAMP
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALK
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/	WITH
W/O	WITHOUT
WV	WATER VALVE

GENERAL NOTES

1. 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.

811 Know what's below. Call before you dig.

2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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 SCORE 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
20. 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 SLAB CONSTRUCTION.
21. 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.
22. 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.
23. 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.

GENERAL PAVING SURFACE NOTES:

1. 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.
2. 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.

SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-882-9494 P

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

UTK BUILDINGS - INC. 1 SITE PACKAGE
TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, FTN #75050-334
INC 1

TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: AT CHKED BY: AT
REVISIONS

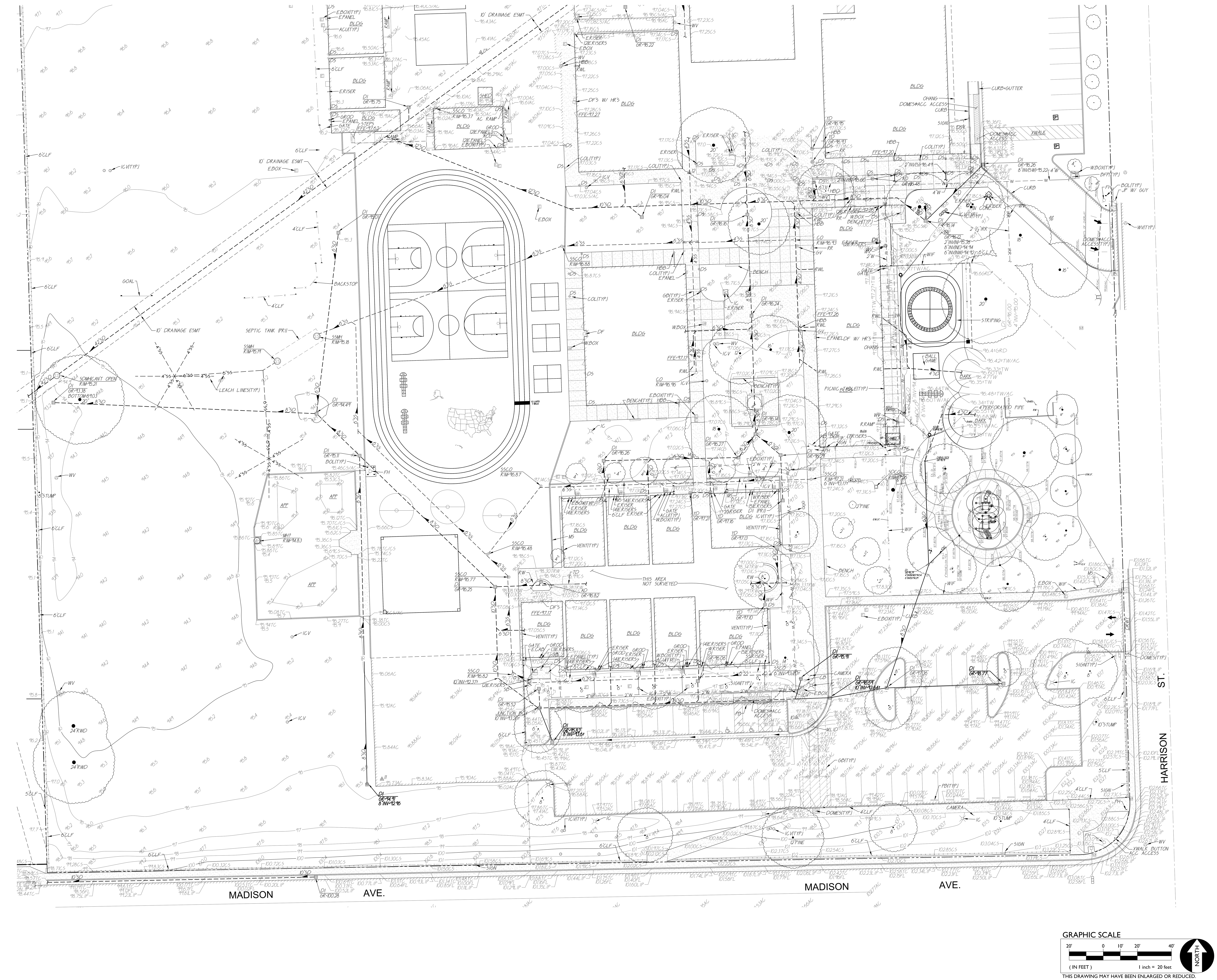
#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

CIVIL GENERAL NOTES AND ABBREVIATIONS

C0.1

FILENAME: I:\24-023\CIVIL\DWG\24-023-C01.DWG



FILENAME: I:\24-023\CIVIL\DWG\24-023-C02.DWG

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
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SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

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2520 Venture Oaks Way, Suite 440
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WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

UTK BUILDINGS - INC. 1 SITE PACKAGE
TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN #76505-334
INC 1

TwinRivers
UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
CIVIL
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS USD

PROJECT NUMBER
240008

DATE	04/08/2024
DRAWN BY: AT	CHKED BY: AT

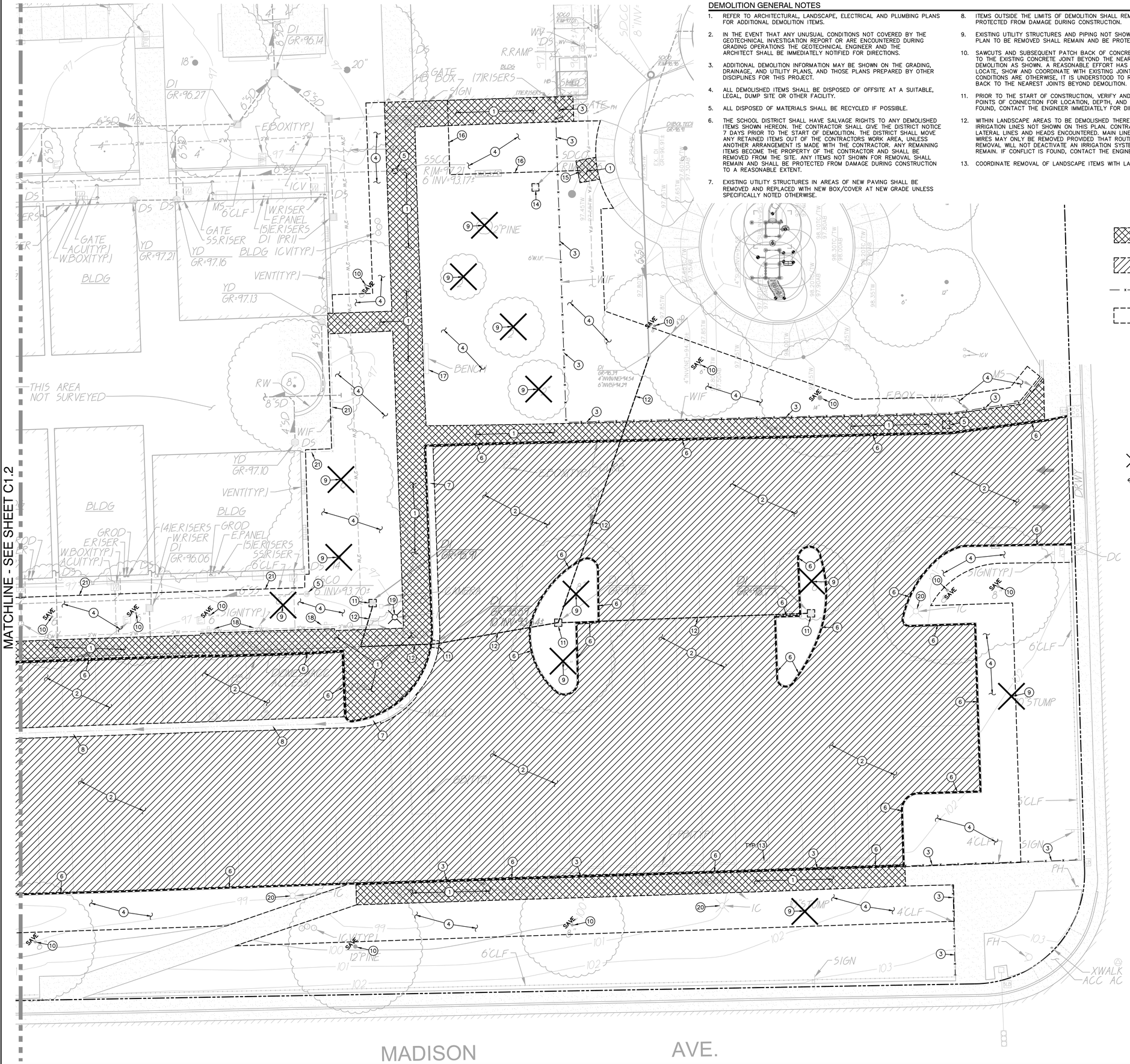
REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

TOPOGRAPHIC SURVEY

C0.2



DEMOLITION GENERAL NOTES

1. REFER TO ARCHITECTURAL, LANDSCAPE, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.
2. 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.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. 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.
7. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
8. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
9. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.
10. 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.
11. PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.
12. 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.
13. COORDINATE REMOVAL OF LANDSCAPE ITEMS WITH LANDSCAPE PLANS.

DEMOLITION NOTES

1. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
2. SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
3. REMOVE AND DISPOSE OF EXISTING FENCE, GATES, POSTS AND ASSOCIATED FOOTINGS TO EXTENT SHOWN.
4. REMOVE AND DISPOSE OF TURF/MULCH/VEGETATION AS REQUIRED TO ALLOW FOR PROPOSED CONSTRUCTION. IRRIGATION PIPING AND SPRINKLER HEADS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED AND REPLACED OUTSIDE OF NEW WORK TO ALLOW FOR CONTINUED COVERAGE OF TURF. PATCH BACK TURF AREAS DAMAGED/REMOVED FOR CONSTRUCTION WITH NEW SOD AND/OR MULCH TO MATCH EXISTING CONDITIONS WHICH ARE NOT ALREADY SHOWN FOR IMPROVEMENTS ON LANDSCAPE PLANS.
5. REMOVE EXISTING UTILITY BOX AND/OR FRAME AND COVER AND PROVIDE NEW. NEW BOX SHALL BE SIMILAR IN SIZE, BUT WITH TRAFFIC RATING AND SLIP RESISTANT COVER.
6. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
7. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
8. REMOVE AND DISPOSE OF EXISTING CONCRETE VALLEY GUTTER.
9. REMOVE AND DISPOSE OF EXISTING TREE, TRUNK AND ASSOCIATED ROOTS.
10. EXISTING TREE TO REMAIN.
11. REMOVE AND DISPOSE OF EXISTING DRAINAGE INLET.
12. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE TO EXTENT SHOWN.
13. REMOVE AND DISPOSE OF EXISTING PARKING BUMPER.
14. REMOVE AND DISPOSE OF EXISTING DRINKING FOUNTAIN DRYWELL.
15. EXISTING DRINKING FOUNTAIN TO REMAIN.
16. REMOVE AND DISPOSE OF EXISTING WATER PIPE TO EXTENT SHOWN.
17. REMOVE AND DISPOSE OF EXISTING BENCH.
18. REMOVE AND DISPOSE OF EXISTING SIGN, POST AND ASSOCIATED FOOTING.
19. REMOVE AND DISPOSE OF EXISTING LIGHT POLE AND ASSOCIATED FOUNDATION.
20. EXISTING LIGHT POLE TO REMAIN.
21. EXISTING FENCE TO REMAIN.

GRAPHIC SCALE
10' 0 5' 10' 20'
(IN FEET) 1 inch = 10 feet
NORTH
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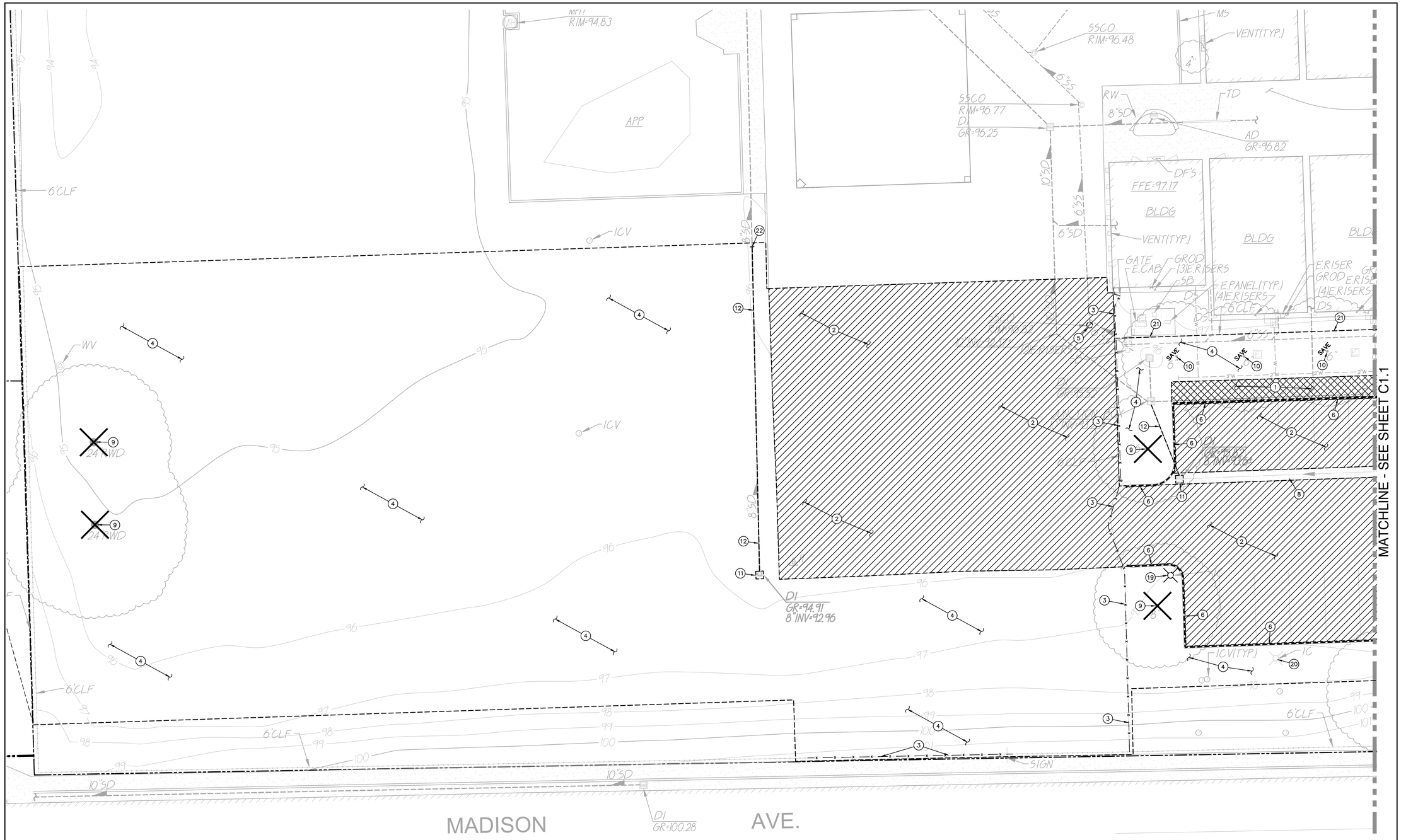
C1.1



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10. EXISTING TREE TO REMAIN.
11. REMOVE AND DISPOSE OF EXISTING DRAINAGE INLET.
12. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE TO EXTENT SHOWN.
19. REMOVE AND DISPOSE OF EXISTING LIGHT POLE AND ASSOCIATED FOUNDATION.
20. EXISTING LIGHT POLE TO REMAIN.
21. EXISTING FENCE TO REMAIN.
22. CAP LINE IN PLACE.
23. PROTECT EXISTING SIGN IN PLACE.

GRAPHIC SCALE

10' 0 5' 10' 20'

(IN FEET) 1 inch = 10 feet

NORTH

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DSA #02-122237, PTN #50305-334
INC 1

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ANTHONY J. TASSANO
NO. C74696
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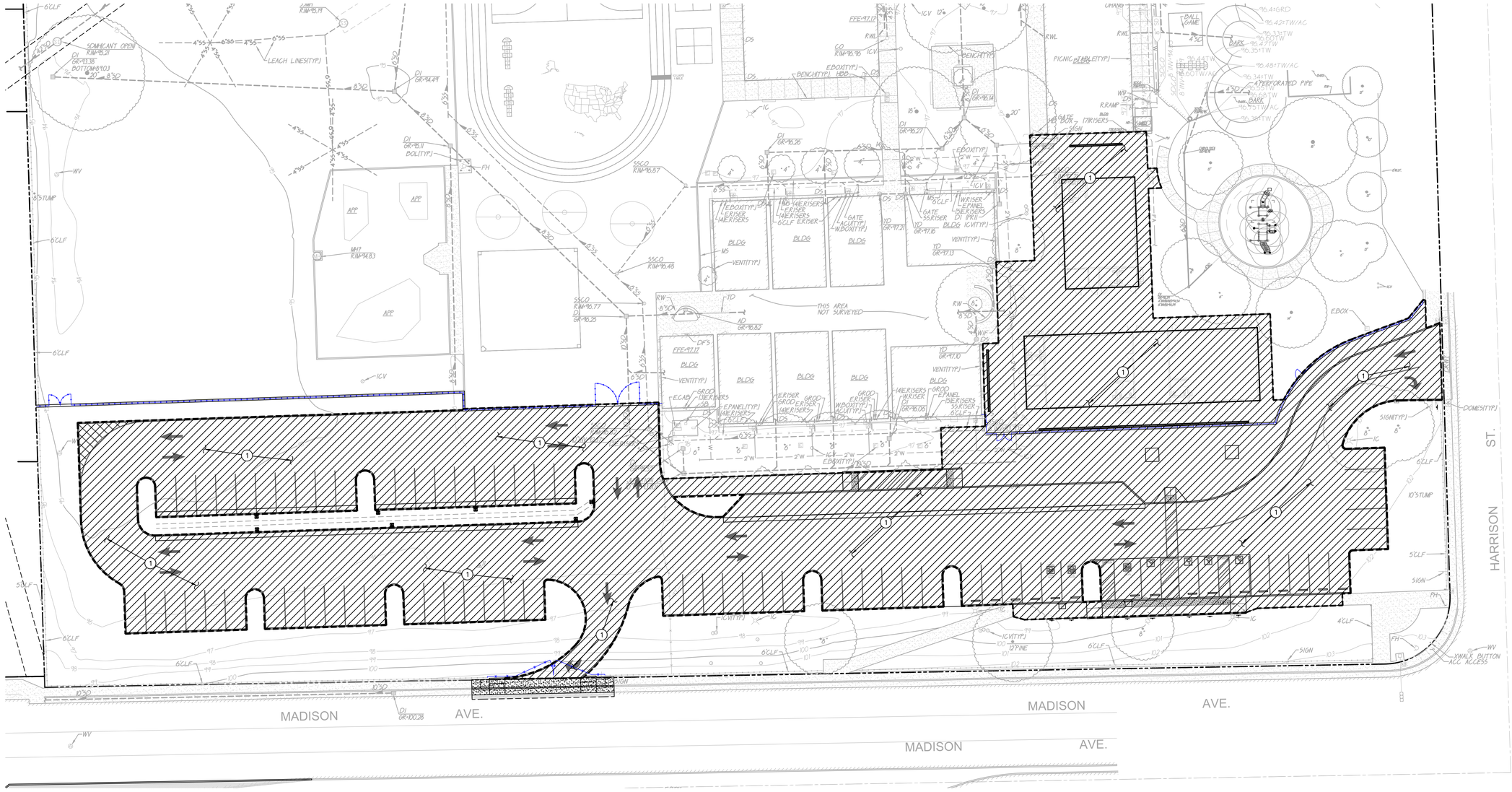
CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

C1.2



SUBGRADE PREPARATION

1 FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES:

EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES.

FOR AREAS TO BE FILLED TO ACHIEVE SUBGRADE, SCARIFY EXPOSED SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO BETWEEN 0–2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. FILL MATERIAL SHALL BE PLACED IN LEVEL LAYERS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS. FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

THE UPPER 12 INCHES OF PROPOSED SUBGRADE SHALL BE TREATED WITH 5.0 POUNDS OF LIME PER CUBIC FOOT (BY DRY WEIGHT OF SOIL) AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION AT A MOISTURE CONTENT OF AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

SUBGRADE PREPARATION SHALL EXTEND AT LEAST 2 FEET BEYOND EDGE OF PROPOSED ASPHALT AND CONCRETE PAVING WHEN NOT ABUTTING EXISTING PAVING. PRIOR TO LANDSCAPING, LIME TREATED SOILS WITHIN LANDSCAPED AREAS SHALL BE REMOVED AND DISPOSED OF OFF–SITE AND REPLACED WITH TOP SOIL.

GENERAL NOTES

1. 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.
2. NO BURNING SHALL BE PERMITTED.
3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLAN 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.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

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CONSTRUCTION DOCUMENTS

ENGINEERED FILL PLAN

C1.3

GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. CONSTRUCT CONCRETE SIDEWALK PER (1 C7.1)
3. CONSTRUCT CONCRETE CURB PER (2 C7.1)
4. PLACE TRUNCATED DOMES PER (4 C7.1)
5. CONSTRUCT ACCESSIBLE CURB RAMP # 1 PER (5 C7.1)
6. CONSTRUCT 40FT WIDE ACCESSIBLE LOADING/UNLOADING AREA PER (6 C7.1)
7. PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN 1/4" BELOW FINISH FLOOR ELEVATION.
8. CONSTRUCT ACCESSIBLE CURB RAMP # 2 PER (7 C7.1)
9. CONSTRUCT CONCRETE VALLEY GUTTER PER (3 C7.1)
10. CONSTRUCT 12" WIDE CONCRETE RETAINING CURB PER (9 C7.1)
11. PLACE SOD AND/OR BARK MULCH, WHICHEVER PREVIOUSLY EXISTED IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE PAVEMENT THAT ARE NOT SHOWN TO BE RESTORED IN LANDSCAPE PLANS. PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO ACHIEVE PROPER COVERAGE.
12. CONSTRUCT SWALE.
17. PROVIDE AND INSTALL POST/BOLLARD MOUNTED ELECTRICAL VEHICLE CHARGER, SINGLE OR DUAL (PER PLAN) CHARGING HEAD AND 6' TALL CABLE SUPPORT, CHARGEPOINT CT4000 SERIES, (MODEL CT4011) PER THE DETAIL PROVIDED. CONTRACTOR TO CONFIRM ALL DIMENSIONS AND SETBACKS BEFORE STUBBING ELECTRICAL AND FORMING PAD. SEE DETAIL PROVIDED AND ELECTRICAL PLANS AND SPECS FOR ADDITIONAL INFO.
PROVIDE TWO (2) PIPE BOLLARDS AT CHARGER FOR PROTECTION PER (12 C7.2) (11 C7.2)

MATCHLINE - SEE SHEET C2.2

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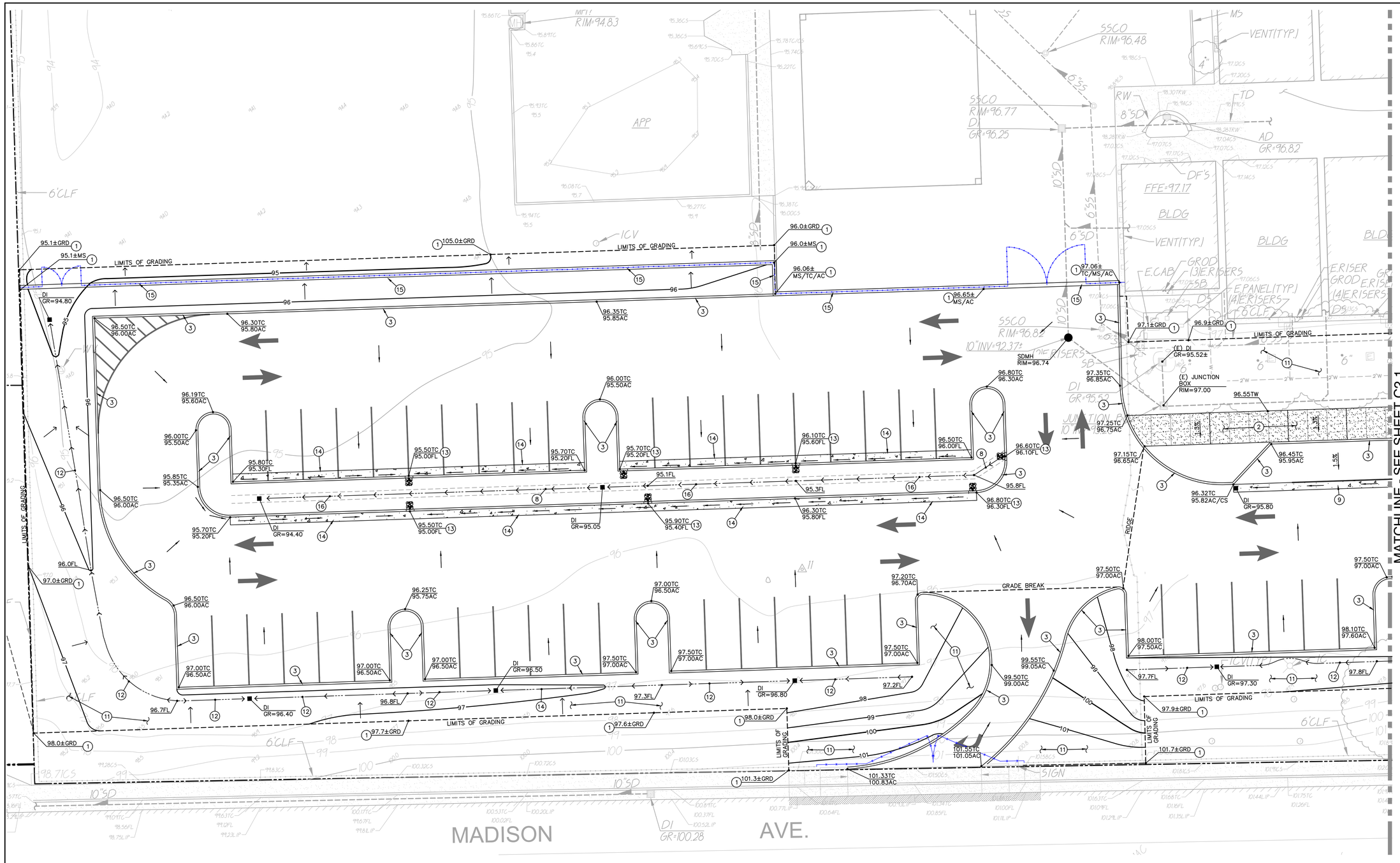

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3. CONSTRUCT CONCRETE CURB PER (2 / C7.1)
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12. CONSTRUCT SWALE.
13. CONSTRUCT 24" WIDE CURB OPENING PER (10 / C7.1)
14. CONSTRUCT CONCRETE CURB AND GUTTER PER (13 / C7.1)
15. CONSTRUCT 12" CONCRETE MOWSTRIP (8 / C7.1)
16. CONSTRUCT 24" WIDE DRAINAGE SWALE WITH SUBDRAIN PER (11 / C7.1)

GRAPHIC SCALE

10' 0 5' 10' 20'

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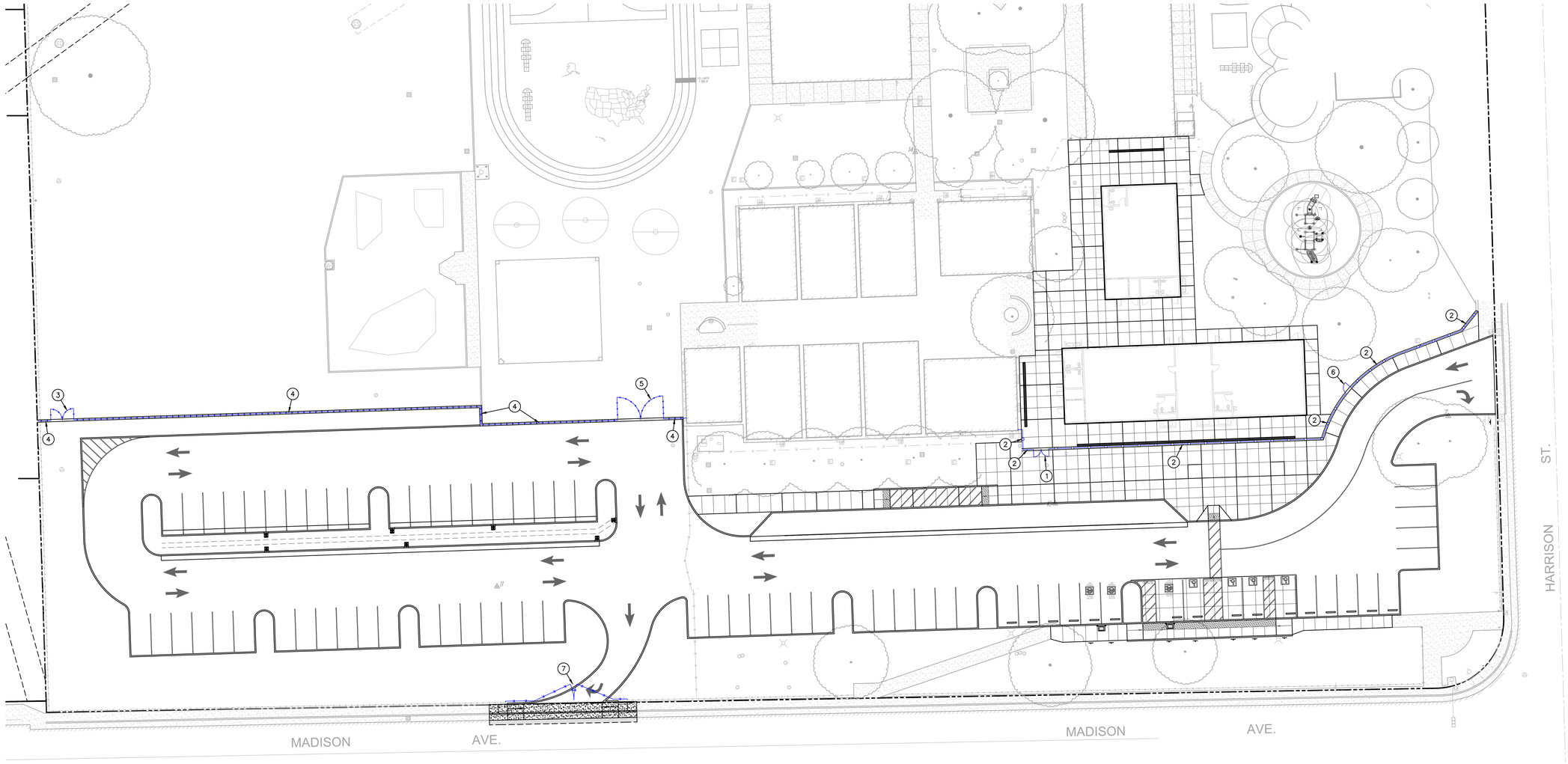

PART 1 - GENERAL
1.01 WORK INCLUDED
The contractor shall provide all labor, materials and appurtenances necessary for installation of the welded ornamental steel fence system defined herein at (specify project site).

1.02 RELATED WORK
Section - Earthwork
Section – Site Concrete

1.03 SYSTEM DESCRIPTION
The manufacturer shall supply a total fence system of (specify Montage Plus® standard picket space or Montage Plus® Pool, Pet & Play® 3" air space) ***Welded and Rackable*** (ATF – All Terrain Flexibility) Ornamental Steel (for standard picket space, specify Classic™, Majestic™, Genesis™, or Warrior™; for 3" air space, specify Classic™, Majestic™, or Genesis™) design. The system shall include all components (i.e., panels, posts, gates and hardware) required.

1.04 QUALITY ASSURANCE
The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.05 REFERENCES
- ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
- ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
- ASTM D523 - Test Method for Specular Gloss
- ASTM D714 - Test Method for Evaluating Degree of Blistering in Paint.
- ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
- ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
- ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.
- ASTM F2408 – Ornamental Fences Employing Galvanized Steel Tubular Pickets.

1.06 SUBMITTAL
The manufacturer's literature shall be submitted prior to installation.

1.07 PRODUCT HANDLING AND STORAGE
Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism and theft.

1.08 PRODUCT WARRANTY
A. All structural fence components (i.e. rails, pickets, and posts) shall be warranted within specified limitations, by the manufacturer for a period of 20 years from date of original purchase. Warranty shall cover any defects in material finish, including cracking, peeling, chipping, blistering or corroding.

B. Reimbursement for labor necessary to restore or replace components that have been found to be defective under the terms of manufactures warranty shall be guaranteed for five (5) years from date of original purchase.

PART 2 - MATERIALS
2.01 MANUFACTURER
The fence system shall conform to (specify Montage Plus standard picket space or Montage Plus Pool, Pet & Play 3" air space) ***Welded and Rackable*** (ATF – All Terrain Flexibility) Ornamental Steel, (for standard picket space, specify Classic, Majestic, Genesis or Warrior; for 3" air space, specify Classic, Majestic, or Genesis) design, (specify extended picket or flush) bottom rail treatment, (specify 2-Rail, 3-Rail or 3-Rail with Double Rings) style manufactured by Ameristar Fence Products, Inc., in Tulsa, Oklahoma.

2.02 MATERIAL
A. Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (310 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.60 oz/ft² (184 g/m²), Coating Designation G-60.

B. Material for pickets shall be 3/4" square x 18 Ga. tubing. The rails shall be steel channel, 1.5" x 1.4375" x 14 Ga. Picket holes in the rail shall be spaced (specify 4.675" o.c. for standard picket space or 3.500" o.c. for 3" air space). Fence posts and gate posts shall meet the minimum size requirements of Table 1.

2.03 FABRICATION
A. Pickets, rails and posts shall be pre-cut to specified lengths. Rails shall be pre-punched to accept pickets.

B. Pickets shall be inserted into the pre-punched holes in the rails and shall be aligned to standard spacing using a specially calibrated alignment fixture. The aligned pickets and rails shall be joined at each picket-to-rail intersection by Ameristar's proprietary fusion welding process, thus completing the rigid panel assembly (Note: The process produces a virtually seamless, spatter-free good-neighbor appearance, equally attractive from either side of the panel).

C. The manufactured panels and posts shall be subjected to an inline electrode position coating (E-Coat) process consisting of a multi-stage pretreatment/wash, followed by a duplex application of an epoxy primer and an acrylic topcoat. The minimum cumulative coating thickness of epoxy and acrylic shall be 2 mils (0.058 mm). The color shall be (specify Black or Bronze). The coated panels and posts shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2 (Note: The requirements in Table 2 meet or exceed the coating performance criteria of ASTM F2408).

D. The manufactured fence system shall be capable of meeting the vertical load, horizontal load, and infill performance requirements for Commercial weight fences under ASTM F2408.

E. Gates with an out to out leaf dimension less than and including 72 inches shall be fabricated using Montage Plus ornamental panel material and 1-3/4" sq. x 14ga. gate ends. Gate leafs greater than 72 inches shall be fabricated using ForeRunner rails, 17 gauge pickets, intermediate uprights, gussets and 1-3/4" sq. x 14ga. gate ends. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding.

PART 3 - EXECUTION
3.01 PREPARATION
All new installation shall be laid out by the contractor in accordance with the construction plans.

3.02 INSTALLATION
Fence post shall be spaced according to Table 3, plus or minus ½". For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade. Fence panels shall be attached to posts with brackets supplied by the manufacturer. Posts shall be set in concrete footers having a minimum depth of 36" (Note: In some cases, local restrictions of freezing weather conditions may require a greater depth). The "Earthwork" and "Concrete" sections of this specification shall govern material requirements for the concrete footer. Posts setting by other methods such as plated posts or grouted core-drilled footers are permissible only if shown by engineering analysis to be sufficient in strength for the intended application.

3.03 FENCE INSTALLATION MAINTENANCE
When cutting/drilling rails or posts adhere to the following steps to seal the exposed steel surfaces; 1) Remove all metal shavings from cut area. 2) Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry. 3) Apply 2 coats of custom finish paint matching fence color. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Ameristar spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Ameristar parts or components will negate the manufactures' warranty.

CONSTRUCTION NOTES

1. CONSTRUCT 80" WIDE ACCESSIBLE DOUBLE LEAF ORNAMENTAL MANGATE WITH CLOSURE AND PANIC HARDWARE PER 1/C7.3
2. PLACE 6' ORNAMENTAL FENCE PER 2/C7.3
3. CONSTRUCT 10' WIDE DOUBLE SWING CHAIN LINK GATE PER 4/C7.3
4. CONSTRUCT 6FT TALL, BLACK VINYL COATED, 2" MESH CHAIN LINK FENCE PER 5/C7.3
5. CONSTRUCT 20' WIDE DOUBLE SWING CHAIN LINK GATE PER 4/C7.3
   KNOX BOX AND LOCK TO BE FURNISHED AND INSTALLED BY TRUSD.
6. CONSTRUCT 40" WIDE ORNAMENTAL MAINTENANCE GATE PER 6/C7.3
7. CONSTRUCT 34' WIDE DOUBLE SWING GATE PER 4/C7.3

GRAPHIC SCALE
20' 0 10' 20' 40'
(IN FEET) 1 inch = 20 feet
NORTH
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DATE: 06/26/2024

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UTK BUILDINGS - INC. 1 SITE PACKAGE

TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL

5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, FTH #76085-334
INC 1

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74626
STATE OF CALIFORNIA

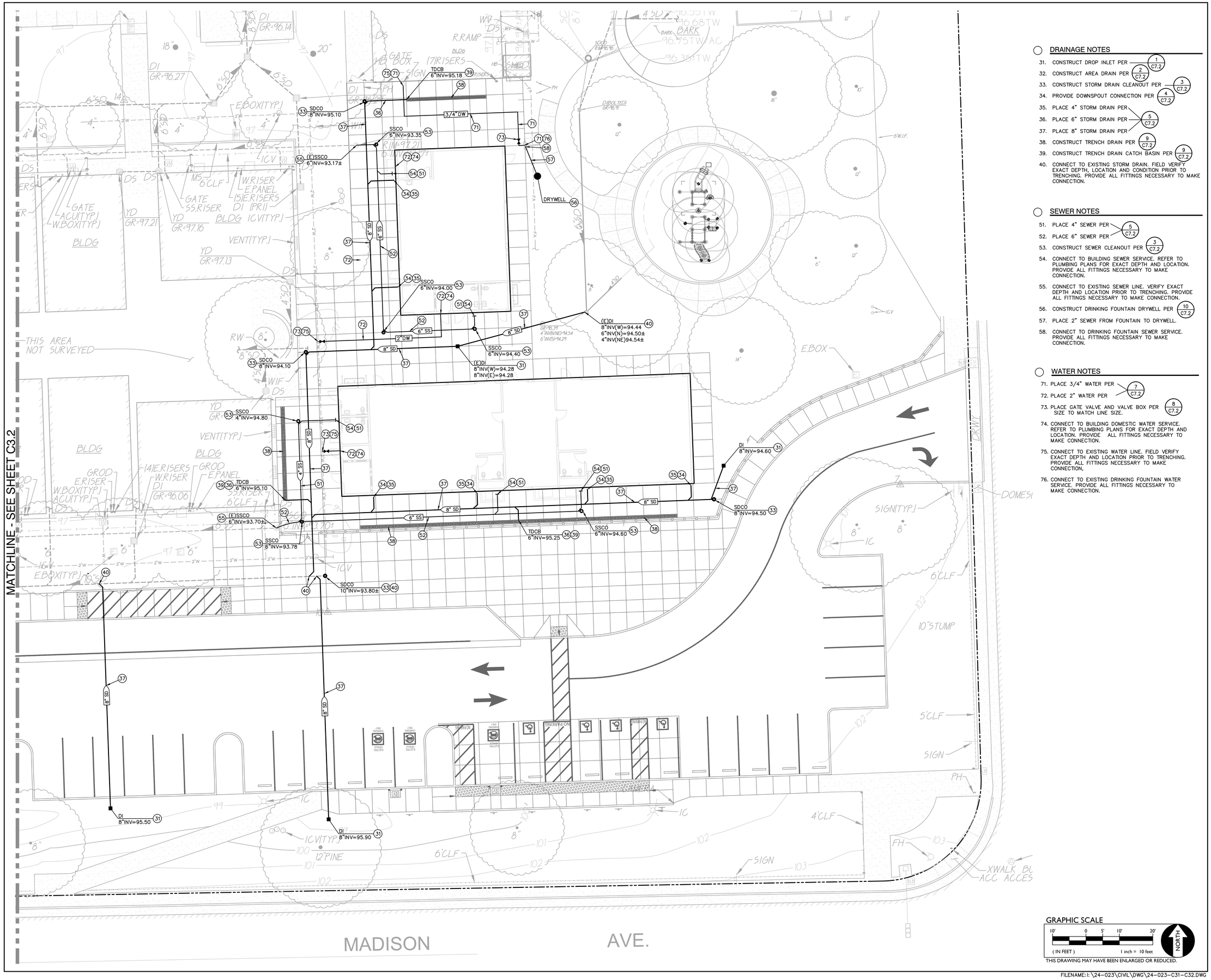
CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: AT CHKED BY: AT
REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

FENCING AND GATE PLAN

C2.3



DRAINAGE NOTES

31. CONSTRUCT DROP INLET PER (1 C7.2)
32. CONSTRUCT AREA DRAIN PER (2 C7.2)
33. CONSTRUCT STORM DRAIN CLEANOUT PER (3 C7.2)
34. PROVIDE DOWNSPOUT CONNECTION PER (4 C7.2)
35. PLACE 4" STORM DRAIN PER (5 C7.2)
36. PLACE 6" STORM DRAIN PER
37. PLACE 8" STORM DRAIN PER
38. CONSTRUCT TRENCH DRAIN PER (9 C7.2)
39. CONSTRUCT TRENCH DRAIN CATCH BASIN PER (9 C7.2)
40. CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

SEWER NOTES

51. PLACE 4" SEWER PER (5 C7.2)
52. PLACE 6" SEWER PER (3 C7.2)
53. CONSTRUCT SEWER CLEANOUT PER
54. CONNECT TO BUILDING SEWER SERVICE. REFER TO PLUMBING PLANS FOR EXACT DEPTH AND LOCATION. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
55. CONNECT TO EXISTING SEWER LINE. VERIFY EXACT DEPTH AND LOCATION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
56. CONSTRUCT DRINKING FOUNTAIN DRYWELL PER (10 C7.2)
57. PLACE 2" SEWER FROM FOUNTAIN TO DRYWELL.
58. CONNECT TO DRINKING FOUNTAIN SEWER SERVICE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

WATER NOTES

71. PLACE 3/4" WATER PER (7 C7.2)
72. PLACE 2" WATER PER
73. PLACE GATE VALVE AND VALVE BOX PER (8 C7.2) SIZE TO MATCH LINE SIZE.
74. CONNECT TO BUILDING DOMESTIC WATER SERVICE. REFER TO PLUMBING PLANS FOR EXACT DEPTH AND LOCATION. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
75. CONNECT TO EXISTING WATER LINE. FIELD VERIFY EXACT DEPTH AND LOCATION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION,
76. CONNECT TO EXISTING DRINKING FOUNTAIN WATER SERVICE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

GRAPHIC SCALE
10' 0 5' 10' 20'
(IN FEET) 1 inch = 10 feet
NORTH
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TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
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No. C74696
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TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
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REVISIONS

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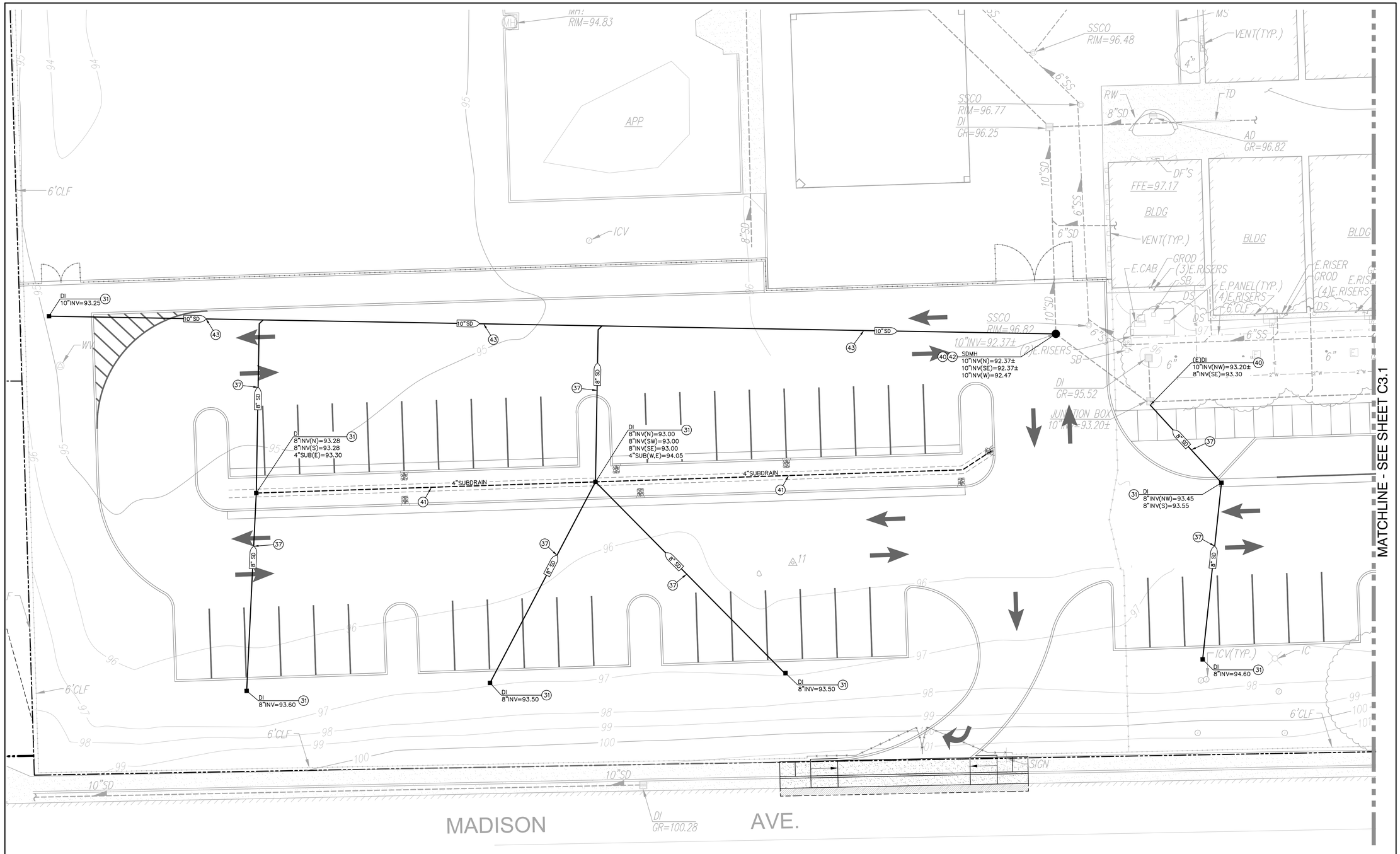
CONSTRUCTION DOCUMENTS

UTILITY PLAN

C3.1



DRAINAGE NOTES

31. CONSTRUCT DROP INLET PER (1/C7.2)
37. PLACE 8" STORM DRAIN PER (5/C7.2)
40. CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
41. PLACE 4" SUBDRAIN PER (12/C7.1)
42. CONSTRUCT STORM DRAIN MANHOLE PER (6/C7.2)
43. PLACE 10" STORM DRAIN PER (5/C7.2)

GRAPHIC SCALE

10' 0 5' 10' 20'

(IN FEET) 1 inch = 10 feet

NORTH

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TwinRivers UNIFIED SCHOOL DISTRICT

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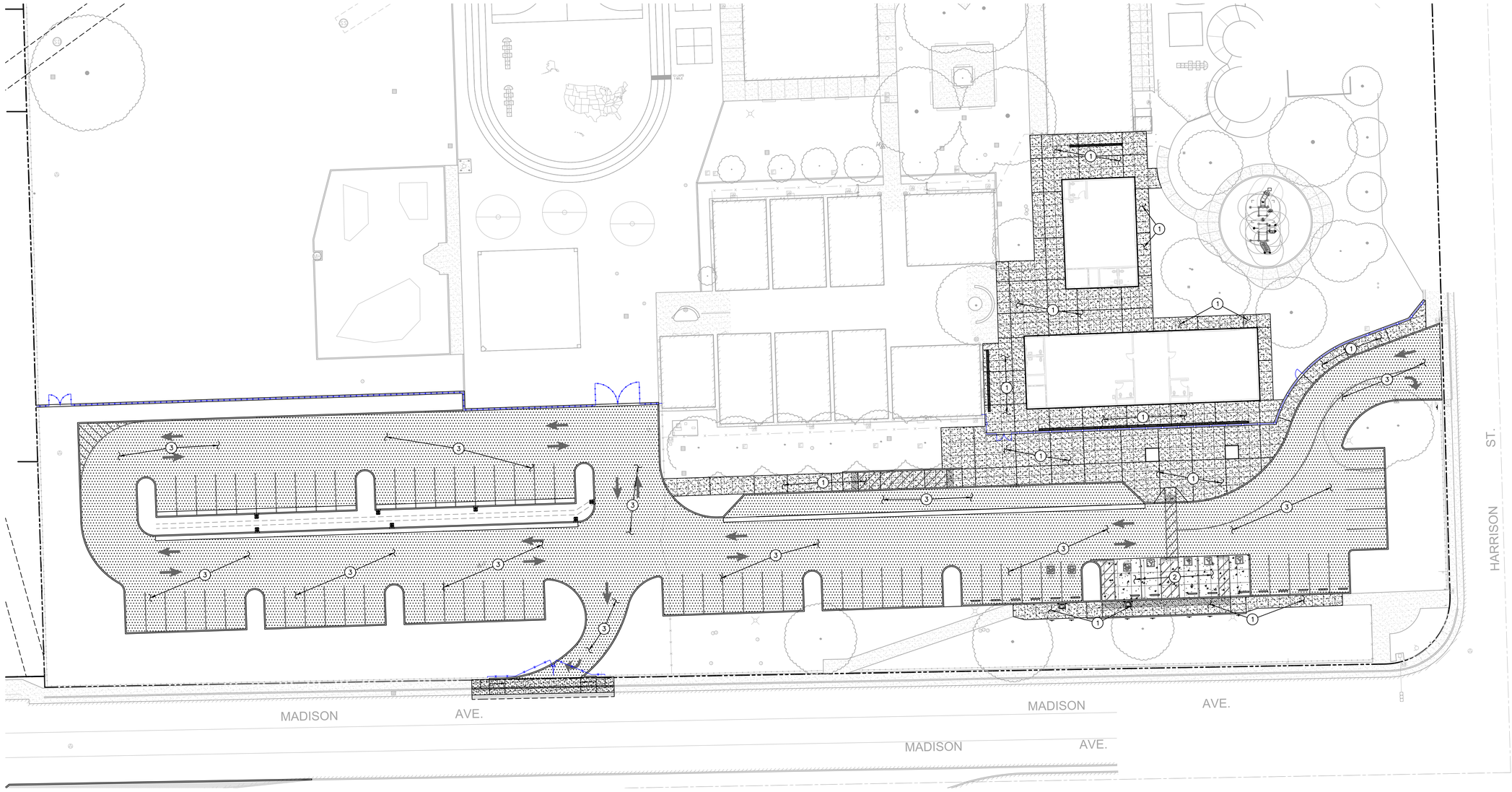
CONSTRUCTION DOCUMENTS

UTILITY PLAN

C3.2



PAVING GENERAL NOTES:

1. ALL NEW ASPHALT PAVING TO BE PROVIDED WITH SEALCOAT PER SPECIFICATIONS.
2. PRIOR TO NEW SEALCOAT ON EXISTING ASPHALT SURFACES, FILL ALL CRACKS 1/4" INCHES OR WIDER WITH AN APPROVED CRACK FILLER.
3. SLOPE IN ACCESSIBLE STALLS AND UNLOAD ZONES SHALL NOT EXCEED 1.9% IN ANY DIRECTION.
4. 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

5. ADJUST TO FINISH GRADE ALL UTILITY BOXES, FRAMES, COVERS SLEEVES, POST HOLES GRATES, ETC. FOUND IN AREA OF WORK, WHETHER SHOWN OR NOT. CLEAN OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.

PAVING LEGEND

(1) TYPE 1 PAVING
PLACE 5" PCC WITH #4 REBAR @ 18" O.C.E.W. OVER 4" CLASS II AB ON LIME TREATED SUBGRADE.

(2) TYPE 2 PAVING
PLACE 6" PCC WITH #4 REBAR @ 18" O.C.E.W. OVER 6" CLASS II AB ON LIME TREATED SUBGRADE.

(3) TYPE 3 PAVING
PLACE 4" AC OVER 4" CLASS II AB ON LIME TREATED SUBGRADE. PLACE TWO (2) APPLICATIONS OF SEAL COAT.

GRAPHIC SCALE
20' 0 10' 20' 40'
(IN FEET) 1 inch = 20 feet
NORTH
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NO. C74696
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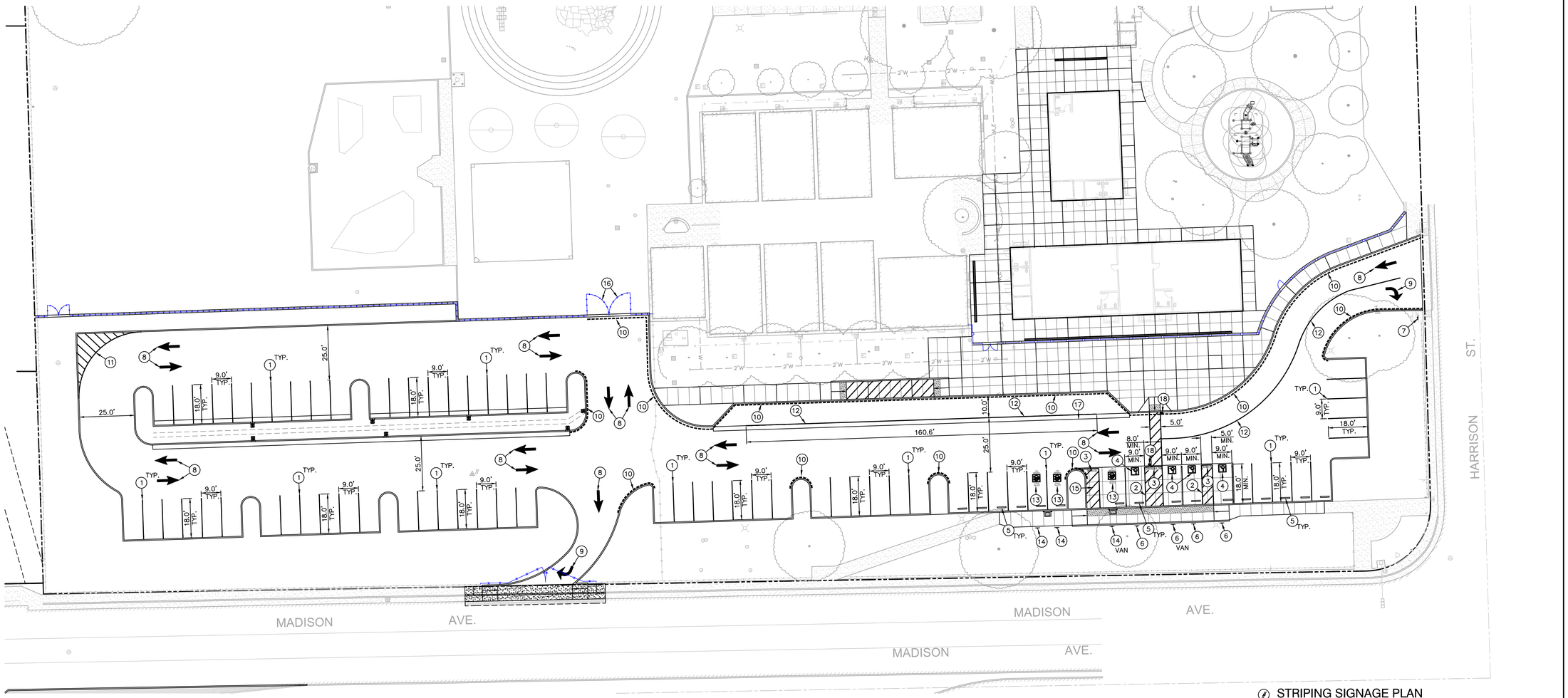
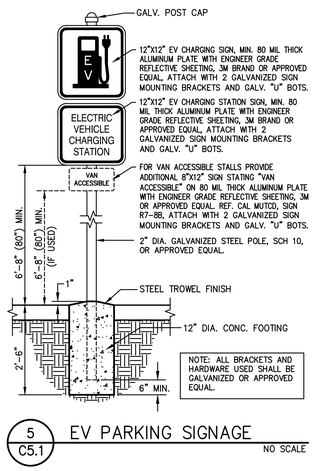
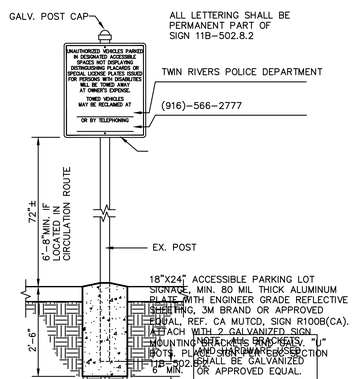
PAVING PLAN

C4.1

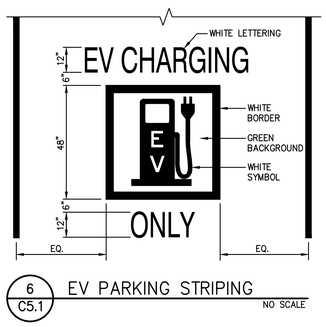




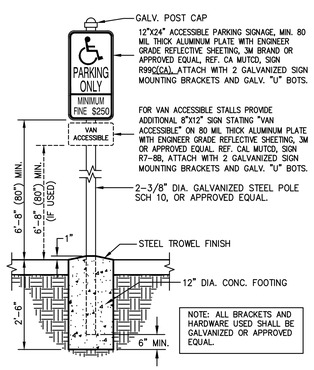
5 C5.1 EV PARKING SIGNAGE NO SCALE



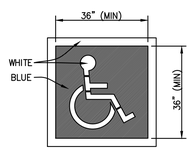
4 C5.1 TOW-AWAY SIGN (CALIFORNIA ONLY)



6 C5.1 EV PARKING STRIPING NO SCALE

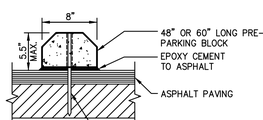


3 C5.1 PARKING SIGNAGE ACCESSIBLE STALLS (CALIFORNIA ONLY) NO SCALE



NOTES:
1. THIS PARKING SYMBOL IS ALSO KNOWN AS THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA).

1 C5.1 ACCESSIBLE STRIPING NO SCALE



2 C5.1 CONCRETE WHEEL STOP NO SCALE

STRIPING SIGNAGE PLAN

1. PAINT 4" WIDE WHITE STRIPING IN LAYOUT AND PER THE DIMENSIONS SHOWN.
2. PAINT 4" WIDE BLUE STRIPING AROUND PERIMETER OF ACCESSIBLE LOADING AREA WITH BLUE CROSS HATCH STRIPING. STRIPES SHALL BE 4" WIDE AND 36" O.C. AND 30° FROM PERPENDICULAR WITH PERIMETER STRIPING.
3. PAINT 12" HIGH WHITE LETTERING EXPRESSING "NO PARKING".
4. PAINT INTERNATIONAL SYMBOL FOR ACCESSIBILITY PARKING STALL SYMBOL IN ACCORDANCE WITH THE DIMENSIONS AND COLORING SHOWN IN THE PROVIDED DETAIL. (1 C5.1)
5. PLACE 48" LONG CONCRETE WHEEL STOP PER THE DETAIL PROVIDED. (2 C5.1)
6. INSTALL ACCESSIBLE PARKING SIGN PER THE DETAIL PROVIDED. WHERE SHOWN ON PLAN AS "VAN" ACCESSIBLE STALL, PROVIDE EXTRA "VAN ACCESSIBLE" SIGN AS SHOWN IN DETAIL. MOUNT AT HEIGHT PER DETAIL WITH APPROPRIATE STAINLESS SCREWS. (3 C5.1)
7. REMOVE EXISTING TOW-AWAY SIGN AND INSTALL NEW ACCESSIBLE PARKING TOW AWAY SIGN ON EXISTING POST PER THE DETAIL PROVIDED. (4 C5.1)
8. PAINT CALTRANS STANDARD TYPE I ARROW, CALTRANS STANDARD A24A.
9. PAINT CALTRANS STANDARD TYPE IV(RT) ARROW, CALTRANS STANDARD A24A.
10. PAINT CURB RED WITH 4" HIGH, 3/4" WIDE STROKE SAYING "NO PARKING – FIRE LANE". MARKINGS SHALL BE LOCATED EVERY 25'.
11. PAINT 4" WIDE WHITE STRIPE WITH 4" WIDE WHITE CROSS HATCH STRIPING AT 45° @ 36" O.C.
12. PROVIDE 4" WIDE WHITE STRIPE.
13. PAINT EV CHARGING STALL PAINTING PER THE DETAIL PROVIDED. (6 C5.1)
14. INSTALL CARPOOL/VANPOOL LEV PARKING SIGN PER THE DETAIL PROVIDED. WHERE SHOWN ON PLAN AS "VAN" ACCESSIBLE STALL, PROVIDE EXTRA "VAN ACCESSIBLE" SIGN AS SHOWN IN DETAIL. (7 C5.1)
15. PAINT 4" WIDE GREEN STRIPING AROUND PERIMETER OF EV PARKING ACCESSIBLE LOADING AREA AND 4" WIDE GREEN CROSS HATCH STRIPING AT 36" O.C.
16. PROVIDE SIGN ON EACH GATE LEAF STATING "FIRE LANE–NO PARKING" MUTCD R8-31.
17. PAINT ASPHALT RED WITH 6" WIDE STRIPE AND WHITE 4" HIGH, 3/4" WIDE STROKE SAYING "NO PARKING – FIRE LANE". MARKINGS SHALL BE LOCATED EVERY 25'.
18. PROVIDE SPRING LOADED CROSSWALK YIELD SIGN.

GRAPHIC SCALE
20' 0 10' 20' 40'
(IN FEET) 1 inch = 20 feet
NORTH

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UTK BUILDINGS - INC. 1 SITE PACKAGE

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TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. 074695
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
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REVISIONS

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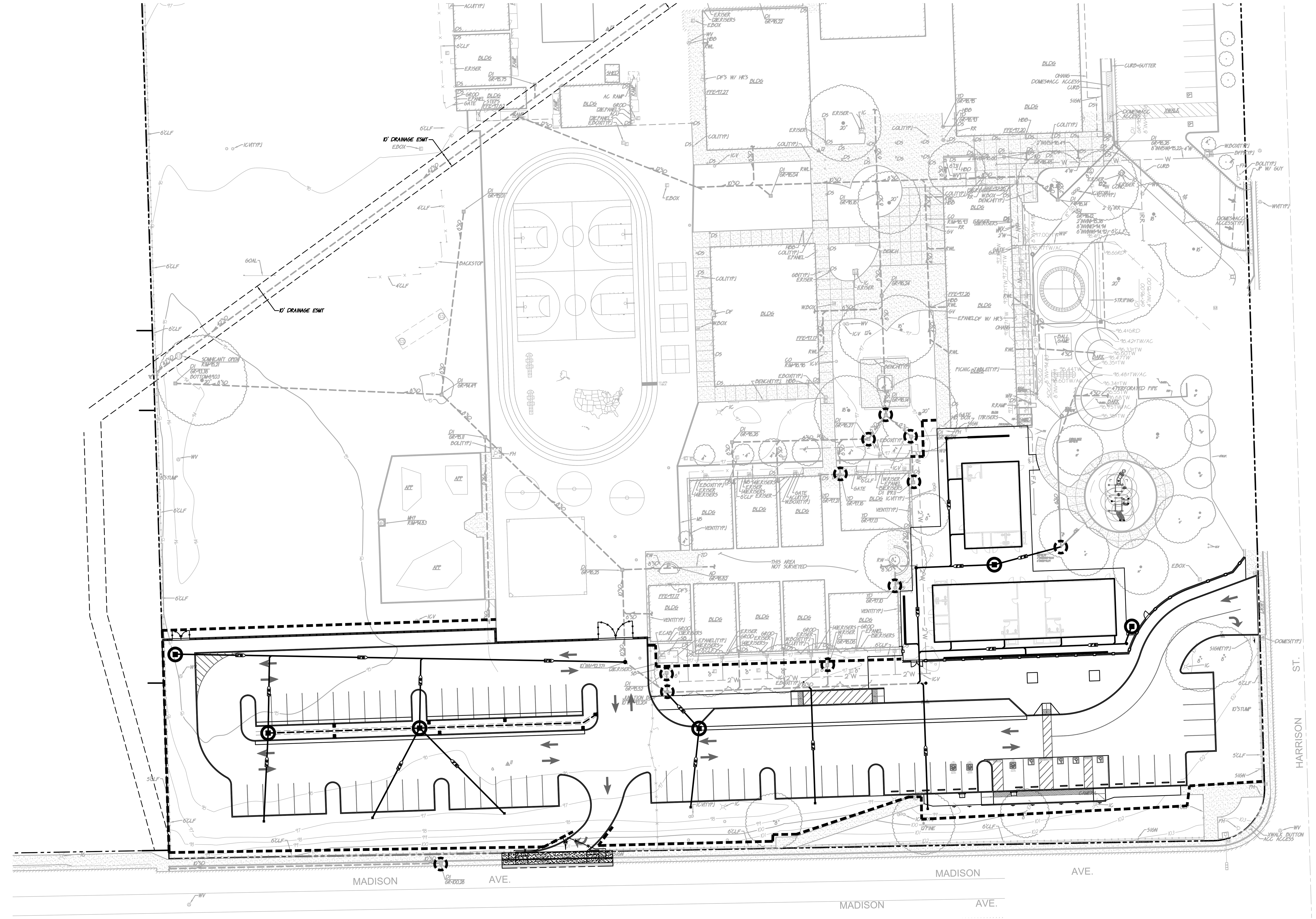
CONSTRUCTION DOCUMENTS

STRIPING AND SIGNAGE PLAN

C5.1



EROSION CONTROL NOTES

NOTE: EXACT LOCATION WILL BE COORDINATED BY CONTRACTOR AND PROJECT QSP.

LEGEND

NEW EX

1. CONTRACTOR SHALL PROVIDE STRAW WATTLE BARRIER AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF ON-SITE WORK PER THE DETAIL PROVIDED. IN ADDITION TO WATTLE, PROVIDE FILTER BAG AT EACH INLET. STRAW WATTLES NOT REQUIRED AT INLETS IN PAVED AREAS, ONLY FILTER BAG. (1/C6.1)
2. CONTRACTOR SHALL PROVIDE STRAW WATTLES AT PERIMETER OF SITE PER DETAIL (2/C6.1)
3. CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL (3/C6.1)

GRAPHIC SCALE

30' 0 15' 30' 60'

(IN FEET) 1 inch = 30 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

PHASE OF CONSTRUCTION	EROSION AND SEDIMENT CONTROL MEASURES																
	WET SEASON					WET & DRY SEASON											
	EROSION CONTROLS	STRAW MULCHING TACTIFIER	SOIL BINDERS	PRESERVATION OF EXISTING VEGITATION	BLANKETS MATS & GEOTEXTILES	FIBER ROLLS	DUST CONTROL	OUTLET PROTECTION	SILT FENCING	SAND/GRAVEL BAG BARRIERS	STORM DRAIN INLET PROTECTION	SEDIMENT BASIN	SEDIMENT TRAP	DEWATERING	STABILIZED CONSTRUCTION ENTRANCE	MATERIAL & WASTE DISPOSAL LOCATION	CONCRETE WASHOUT
PRE-GRADING	X			X			X										
CUT-FILL ACTIVITIES	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
UNDERGROUND WORK		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
STORM IMPROVEMENTS		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
CURB AND GUTTER	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
STREET IMPROVEMENTS	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
PAVE OUT				X	X		X	X		X	X			X		X	X
POST CONSTRUCTION		X	X	X	X												
MAINTENANCE SCHEDULE																	
DAILY*																	
WEEKLY*		X	X		X	X		X		X	X	X	X		X	X	
MONTHLY*																	
BEFORE RAIN	X	X	X		X	X		X		X	X	X	X				
DURING RAIN	X	X	X		X	X		X		X	X	X	X				
AFTER RAIN	X	X	X		X	X		X		X	X	X	X				
AS NEEDED				X			X							X			

* = WHEN RAIN EVENT INSPECTIONS OCCURS, THEY MAY QUALIFY AS A DAILY, WEEKLY, OR MONTHLY INSPECTION AS APPLIES.

ADD TO MAP AS LOCATED IN THE FIELD

- CONSTRUCTION TRAILER.
- VEHICLE/EQUIPMENT MAINTENANCE AND FUELING AREA.
- COVERED WASTE STORAGE (DUMPSTERS).
- STAGE — STAGING AREA
- MATERIAL STORAGE
- SP — SOIL STOCKPILES.
- CWO — CONCRETE WASHOUT.

EROSION CONTROL MEASURES TO BE PLACED ON ALL EXPOSED AREAS DISTURBED BY CONSTRUCTION PRIOR TO ANY RAIN EVENT, I.E. BLANKETS, SOIL STABILIZERS, ETC.

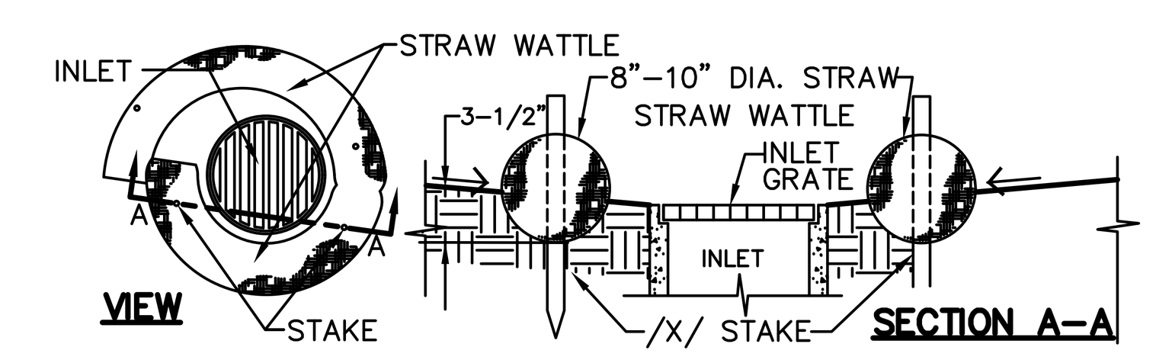
MAINTENANCE/REPAIRS OF BMP FAILURE SHALL BEGIN WITHIN 72 HOURS OF IDENTIFICATION AND CHANGES SHALL BE COMPLETED PRIOR TO THE NEXT RAIN EVENT.

ANY CHANGES MADE TO THE SWPPP IN THE FIELD MUST BE SHOWN ON THE MAP. UPDATE MAP TO REFLECT CHANGES.

SEDIMENT AND EROSION CONTROL MEASURES ON SWPPP MAP ARE MINIMUM BMP'S RECOMMENDED FOR COMPLIANCE. CONSTRUCTION SITE MUST BE MONITORED AND BMP'S SHALL BE MODIFIED DEPENDING ON CONSTRUCTION SCHEDULE AND RAIN EVENTS.

WCE EROSION AND SEDIMENT CONTROL GENERAL NOTES

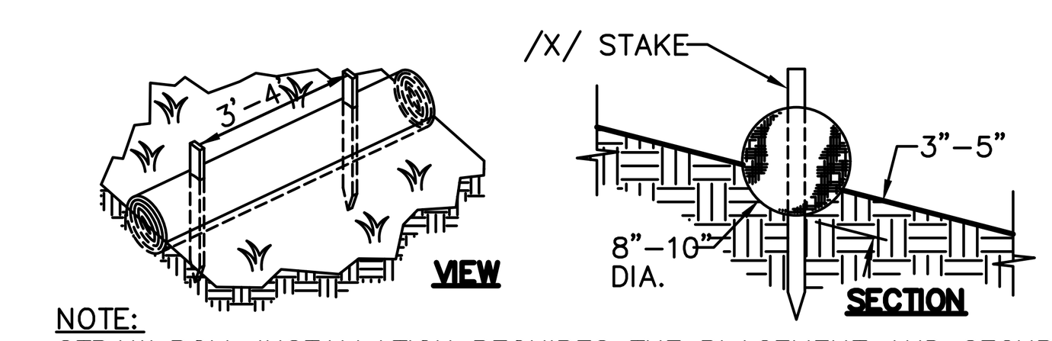
1. IF CERTAIN SOIL TYPES (E.G. COLLOIDAL SOILS) ARE DETECTED, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL TREATMENT MEASURES PRIOR TO DISCHARGE.
2. CONTRACTOR IS RESPONSIBLE FOR THE DEWATERING AND REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES JUST PRIOR TO THE COMMENCING OF THE FINAL GRADING AND PAVING OPERATIONS. ONLY CLEAR WATER IS TO BE DISCHARGED INTO THE EXISTING DRAINAGE SYSTEM. IF PUMPING IS NECESSARY, FILTERS WILL BE REQUIRED TO ENSURE THAT ONLY CLEAR WATER IS DISCHARGED FROM THE SITE, PER CITY OF ELK GROVE STANDARDS. THE CONTRACTOR SHALL VERIFY THE DISCHARGE POINT WITH THE COUNTY INSPECTOR. THE CONTRACTOR SHALL VERIFY THAT THE POINT OF DISCHARGE CAN HANDLE THE VELOCITY AND QUANTITY OF FLOW.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE SITE TO MINIMIZE DUST CREATED DURING CONSTRUCTION.
4. PRIOR TO PLACEMENT OF LANDSCAPING AND/OR FINISHED GROUND SEEDING. REMOVE TEMPORARY EROSION CONTROL MEASURES (STRAW WATTLE FENCE AND TRACKED LOOSE STRAW).
5. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPLIANCE WITH STATE WATER RESOURCES CONTROL BOARD REQUIREMENTS.
6. ALL MATERIALS STORED ON-SITE SHALL HAVE PROPER ENCLOSURES AND/OR COVERINGS.
7. CONTRACTOR SHALL MAINTAIN ALL WATTLE OR SILT FENCES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES WEEKLY AS WELL AS BEFORE, DURING, AND AFTER A STORM EVENT. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL AND POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION AS REQUIRED. REFER TO SPECIFICATIONS AND S.W.P.P.P. PLAN FOR ADDITIONAL REQUIREMENTS.
8. CONTRACTOR SHALL PROVIDE AND MAINTAIN CONSTRUCTION FENCING THROUGHOUT THE PROJECT. THIS FENCING SHALL DETER NON-CONSTRUCTION RELATED PERSONNEL FROM ENTERING THE CONSTRUCTION SITE AREA TO THE GREATEST POSSIBLE EXTENT, THE CONTRACTOR SHALL COORDINATE THIS FENCING LAYOUT WITH TWIN RIVERS USD PRIOR TO ANY FENCING PLACEMENT.
9. CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED THROUGH THE SCHOOL AND ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.
10. ALL DISTURBED AREAS NOT BEING PAVED/LANDSCAPED, SHALL BE HYDROSEEDED.



NOTE: STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3-1/2" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

1 / C6.1 STRAW WATTLE INLET FILTER

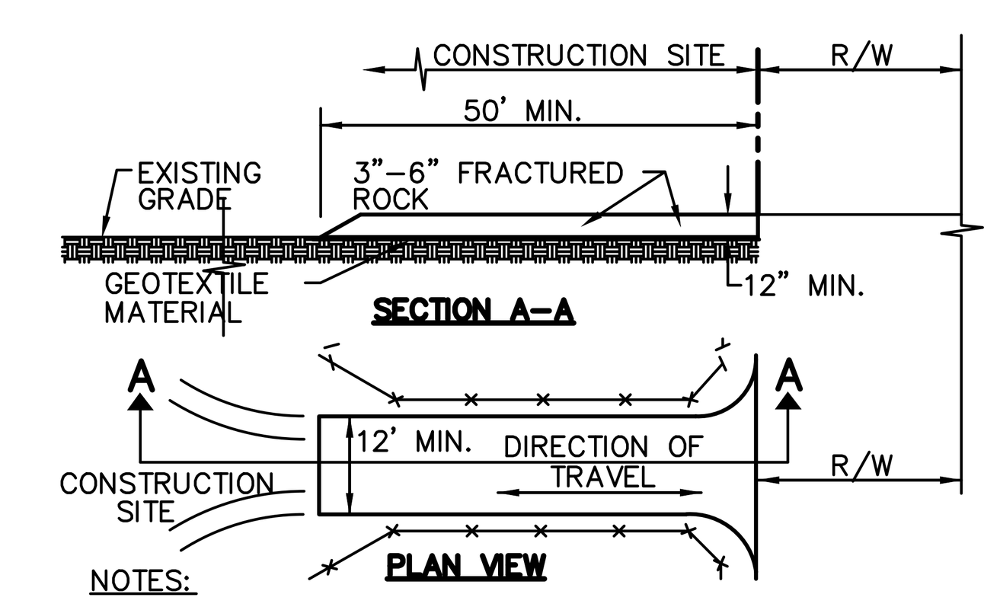
NO SCALE



NOTE: STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"–5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

2 / C6.1 STRAW ROLLS

NO SCALE



NOTES:

1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3"–6" ANGULAR ROCK MATERIAL CONFORMING TO SECTION 26 OF STATE SPECIFICATIONS PLACED OVER GEOTEXTILE MATERIAL. ROCK SHALL BE PLACED TO A MINIMUM THICKNESS OF SIX INCHES. THE METHOD OF PLACING, SPREADING AND COMPACTING ROCK SHALL CONFORM TO SECTION 26 OF THE STATE SPECIFICATIONS.
2. LENGTH OF SITE ACCESS SHALL BE A MINIMUM LENGTH OF FIFTY FEET. WIDTH SHALL BE A MINIMUM WIDTH OF TWELVE FEET OR AS NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS.
3. THE SITE ACCESS SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING.

3 / C6.1 STABILIZED CONSTRUCTION SITE ACCESS

NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-682-9494 P

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

UTK BUILDINGS - INC. 1 SITE PACKAGE

TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL

5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN #76505-334
INC 1

TwinRivers
UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
CIVIL
STATE OF CALIFORNIA

CLIENT	TWIN RIVERS USD
PROJECT NUMBER	240008
DATE	04/08/2024
DRAWN BY: AT	CHKED BY: AT

REVISIONS

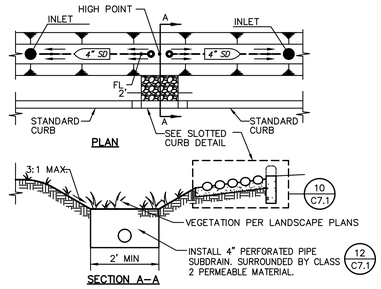
#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

EROSION CONTROL PLAN

C6.1

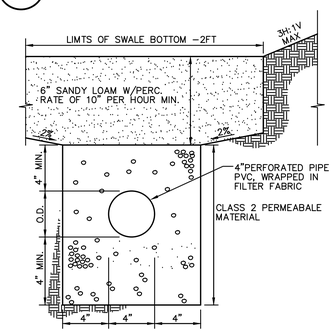
FILENAME: I: \24-023\CIVIL\DWG\24-023-C61.DWG



NOTES:
1. MAXIMUM ALLOWABLE SIDE-SLOPE 3:1.
2. GRASS TO BE PLANTED FULL WIDTH OF SWALE AND AT A MINIMUM, TO THE WIDTH OF THE TOP OF SLOPE.

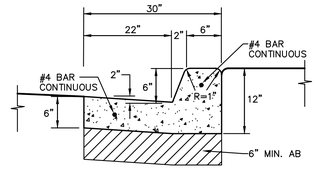
11 C7.1 GRASS LINED SWALE W/SUBDRAIN

NO SCALE



12 C7.1 GRASSY SWALE SUBDRAIN

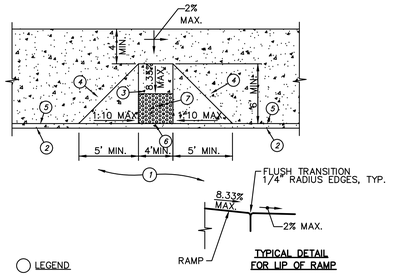
NO SCALE



NOTES:
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. PROVIDE CONTROL JOINTS AT 10 FEET O.C., EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS. SEAL E.J. WITH APPROVED JOINT SEALANT.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR,GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

13 C7.1 CONCRETE CURB AND GUTTER

NO SCALE

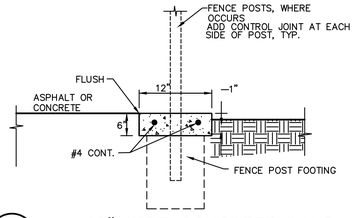


TYPICAL DETAIL FOR LIP OF RAMP

LEGEND
1. PAVEMENT.
2. TOP FACE OF ROLLED CURB, STANDARD 4" HIGH.
3. 8.3% (1:12) MAXIMUM SLOPE, 2%MAX CROSS SLOPE LENGTH=6.5'.
4. LANDING SHALL BE 48" MIN. AND SLOPE SHALL NOT EXCEED 1:48 MAX PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.3
5. SCORE MARK, 6" BACK OF CURB.
6. TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE WITH A COUNTER SLOPE NOT EXCEEDING 1:20 MAX FOR 24" PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.8.
7. PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL. DETECTABLE WARNINGS AT CURB RAMPS SHALL EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN LESS 2 INCHES MAXIMUM ON EACH SIDE, EXCLUDING ANY FLARED SIDES. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER OR STREET. 4 C7.1

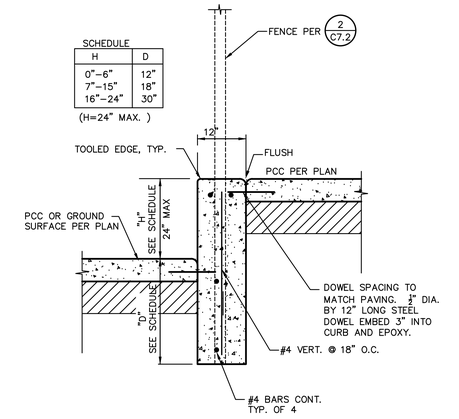
7 C7.1 ACCESSIBLE CURB RAMP #2

NO SCALE



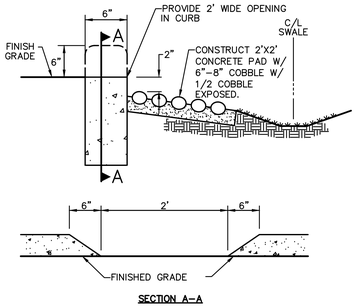
8 C7.1 12" WIDE CONCRETE BAND

NO SCALE



9 C7.1 12" RETAINING CURB W/ FENCE

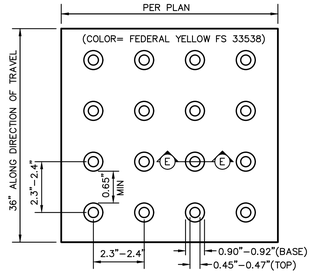
NO SCALE

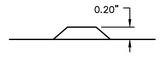


SECTION A-A

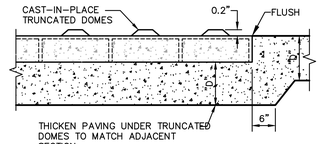
10 C7.1 SLOTTED CURB DETAIL

NO SCALE



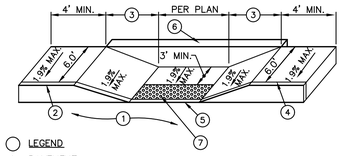


SECTION E-E



4 C7.1 TRUNCATED DOMES

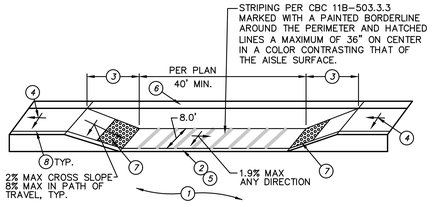
NO SCALE



LEGEND
1. PAVEMENT.
2. TOP FACE OF CURB, STANDARD 6" HIGH.
3. 8.3% (1:12) MAXIMUM SLOPE.
4. SCORE MARK, 6" BACK OF CURB.
5. TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-503.
6. 6" WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
7. PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK LESS 2 INCHES MAXIMUM ON EACH SIDE PER 11B-705.1.2.2. 4 C7.1

5 C7.1 ACCESSIBLE CURB RAMP #1

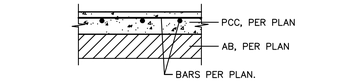
NO SCALE



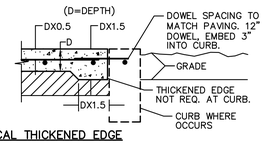
LEGEND
1. PAVEMENT.
2. FLUSH CONCRETE CURB.
3. 8% (1:12) MAXIMUM SLOPE, 6' MIN. LENGTH.
4. LANDING SHALL BE 48" MIN. AND SLOPE SHALL NOT EXCEED 1:48 MAX. ALL DIRECTIONS; PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.3
5. TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE WITH A CONTINUOUS SLOPE NOT EXCEEDING 1:20 MAX FOR 10'.
6. 6" WIDE RETAINING CURB.
7. PLACE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE, FULL WIDTH OF RAMP LESS 2 INCHES ON EITHER SIDE OF RAMP, 36" IN THE DIRECTION OF TRAVEL, BY ARMOR-TILE OR APPROVED EQUAL. 4 C7.1
8. SCORE MARK, 6" BEHIND BACK OF CURB

6 C7.1 LOADING/UNLOADING ZONE

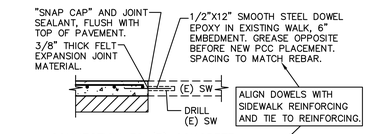
NO SCALE



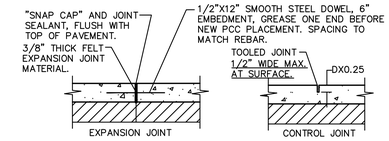
TYPICAL SECTION



TYPICAL THICKENED EDGE



CONNECTION TO (E) CONCRETE

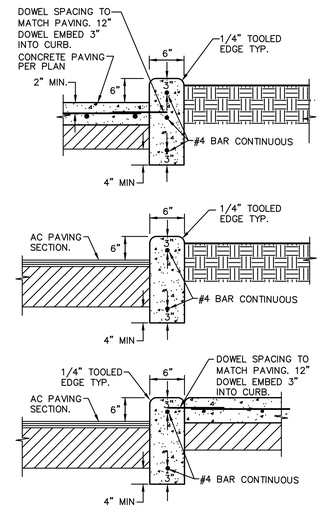


TYPICAL JOINTS

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 C7.1 CONCRETE SIDEWALK

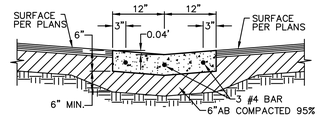
NO SCALE



NOTES:
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2 C7.1 CONCRETE CURB

NO SCALE



NOTES:
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. SEAL E.J. WITH APPROVED JOINT SEALANT. PROVIDE CONTROL JOINTS AT 10 FEET O.C.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

3 C7.1 CONCRETE VALLEY GUTTER

NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-882-9494 P

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

UTK BUILDINGS - INC. 1 SITE PACKAGE

TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, FTN #75035-334
INC 1

TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: AT CHKED BY: AT
REVISIONS

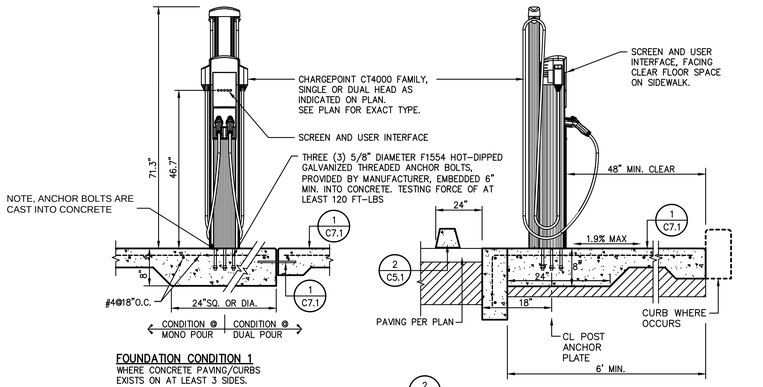
#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

DETAILS AND SECTIONS

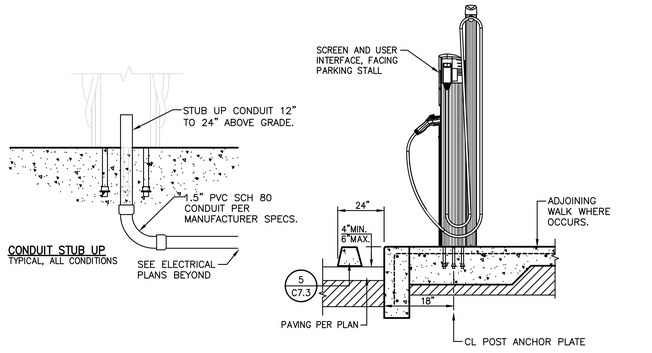
C7.1

FILENAME: I:\24-023\CIVIL\DWG\24-023-C71-C73.DWG



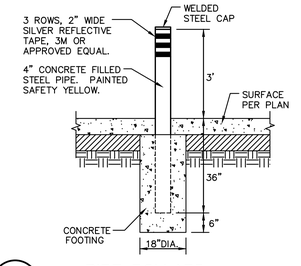
FOUNDATION CONDITION 1
WHERE CONCRETE PAVING/CURBS EXISTS ON AT LEAST 3 SIDES.

ACCESSIBLE CONFIGURATION
TO BE USED AT ALL ACCESSIBLE EV CHARGING LOCATIONS.

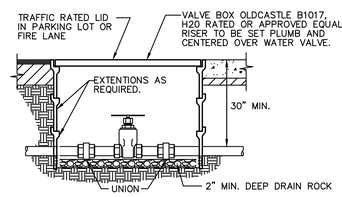


NON-ACCESSIBLE CONFIGURATION
MAY BE USED AT NON-ACCESSIBLE CHARGING STALL LOCATIONS

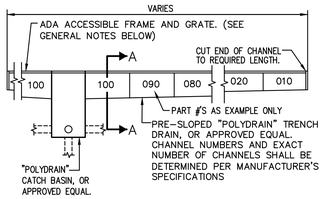
11 C7.2 ELECTRIC VEHICLE CHARGING STATION
DETAIL BASED ON CHARGEPOINT CT4000
CHARGEPOINT CT4000 WEIGHT = 105 LBS
NO SCALE



12 C7.2 PIPE BOLLARD
FIXED
NO SCALE



8 C7.2 WATER VALVE
1/2" TO 3" PIPE
NO SCALE

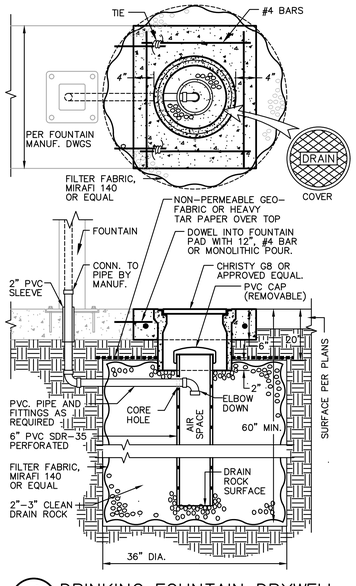


SECTION A-A

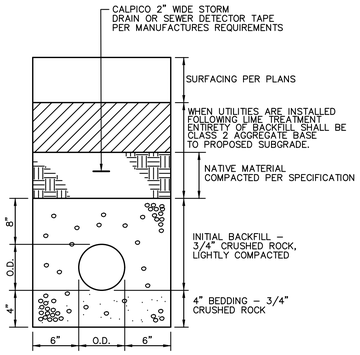
GENERAL NOTES:

1. GRATE SHALL ADA ACCESSIBLE, POLYDRAIN MODEL 2412 OR APPROVED EQUAL. IF PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE POLYDRAIN MODEL 2506.
2. IF TRENCH DRAIN IS PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE GALVANIZED STEEL "OVERLAY RAILS" AS SUPPLIED BY POLYDRAIN, OR APPROVED EQUAL.
3. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 2811B LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
4. CONTRACTOR SHALL FURNISH AND INSTALL A TRASH BUCKET, MODEL 2900, IN ALL TRENCH DRAIN CATCH BASINS.
5. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTINENCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 2 MODEL 2231 TRENCH DRAIN SHOVEL HEADS, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
6. ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRAIN "POLYSEAL" CAULKING OR APPROVED EQUAL.

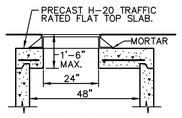
9 C7.2 TRENCH DRAIN DETAIL
NO SCALE



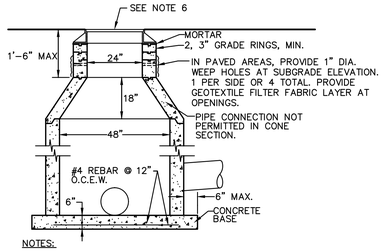
10 C7.2 DRINKING FOUNTAIN DRYWELL
FOR DRINKING FOUNTAIN ONLY
NO SCALE



5 C7.2 SEWER AND STORM DRAIN TRENCH
NO SCALE



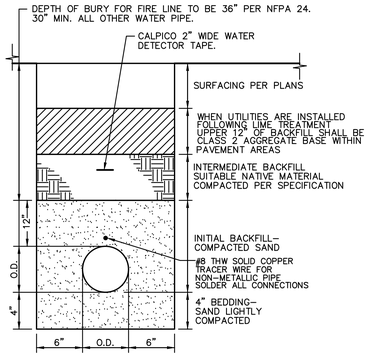
FLAT SLAB SECTION



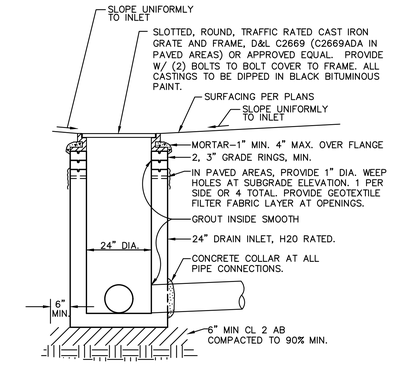
NOTES:

1. RISER SECTIONS, CONES, AND ADJUSTING RING SHALL CONFORM TO ASTM DESIGNATION C-478.
2. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
3. THE CONTRACTOR MAY AT HIS OPTION, CAST THE LOWER PORTION OF MANHOLE IN PLACE. THE CAST-IN-PLACE PORTION SHALL NOT BE PLACED HIGHER THAN 6 INCHES ABOVE THE OUTSIDE TOPS OF THE MAIN INCOMING AND OUTGOING PIPES.
4. ALL JOINTS SHALL BE SEALED WITH GROUT AND INSIDE OF MANHOLE SHALL BE GROUTED SMOOTH.
5. FLAT SLAB SHALL BE USED WHEN DEPTH DOES NOT PERMIT USE OF TAPER UNIT. FLAT TOP SLAB TO BE TRAFFIC RATED.
6. SLOTTED CAST IRON TRAFFIC RATED GRATE AND FRAME SHALL BE D&L C2669 (C2669ADA IN PAVED AREAS) OR APPROVED EQUAL. PROVIDE WITH TWO (2) BOLTS TO BOLT COVER/GRATE TO FRAME. SOLID COVERS TO BE MARKED "STORM DRAIN". ALL CASTINGS TO BE DIPPED IN BLACK BITUMINOUS PAINT.

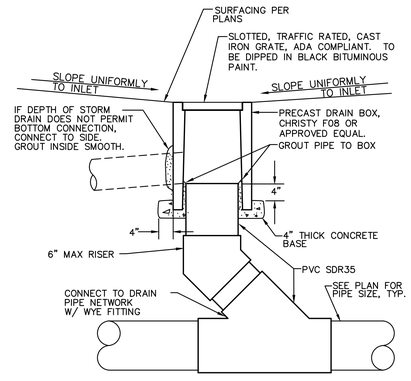
6 C7.2 STORM DRAIN MANHOLE
NO SCALE



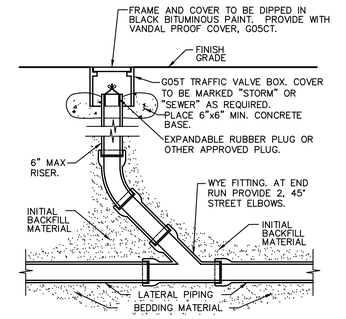
7 C7.2 WATER TRENCH
NO SCALE



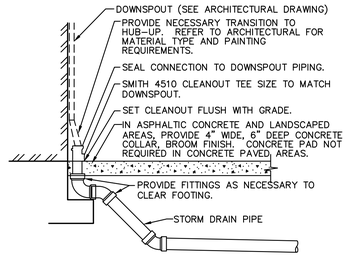
1 C7.2 DROP INLET
NO SCALE



2 C7.2 AREA DRAIN
NO SCALE



3 C7.2 CLEANOUT
NO SCALE



4 C7.2 DOWNSPOUT CONNECTION
NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-882-9494 P

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

UTK BUILDINGS - INC. 1 SITE PACKAGE

TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL
5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, FTIN #75035-334
INC 1

TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN

CLIENT
TWIN RIVERS USD
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: AT CHKED BY: AT
REVISIONS

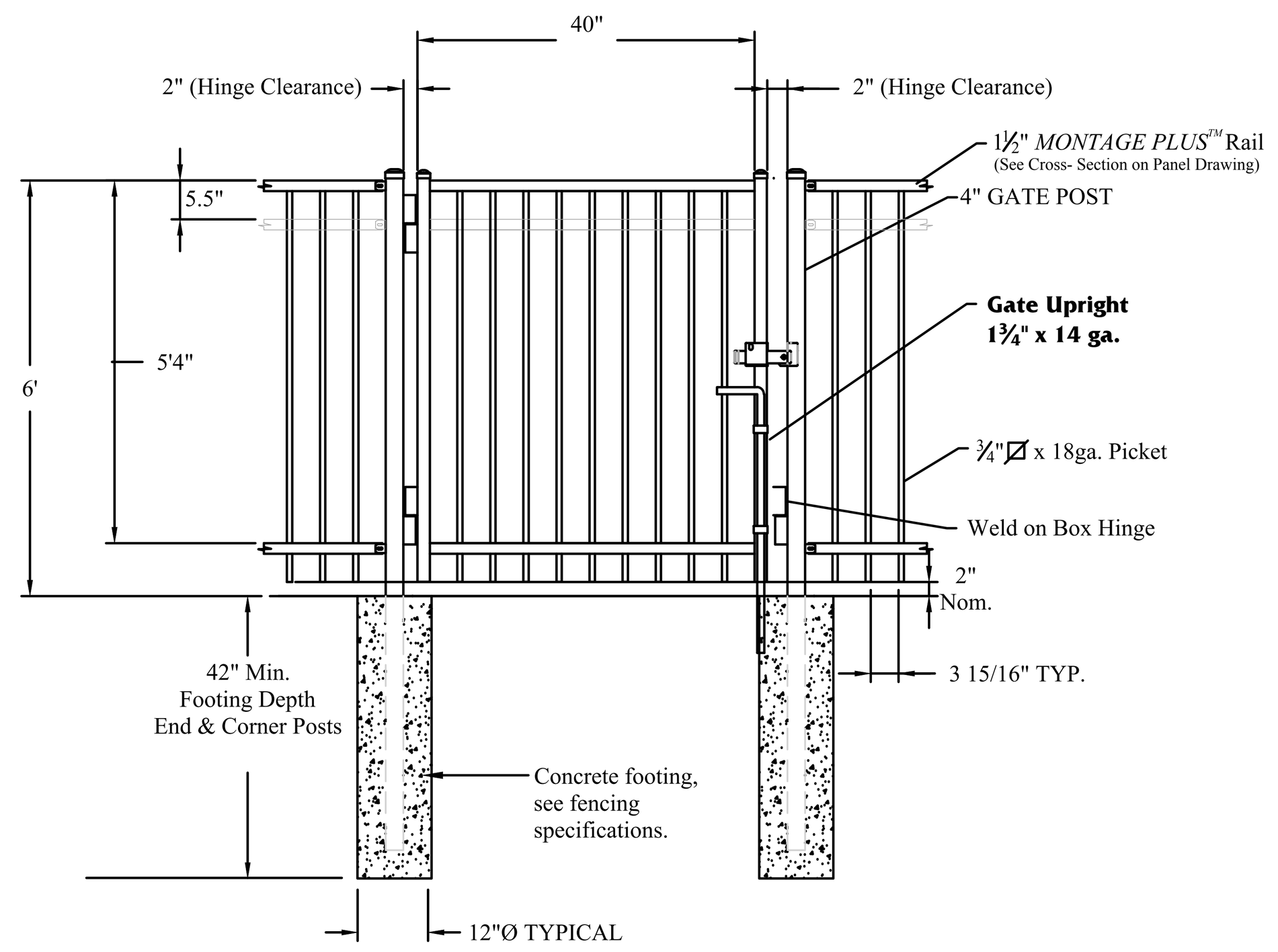
#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

DETAILS AND SECTIONS

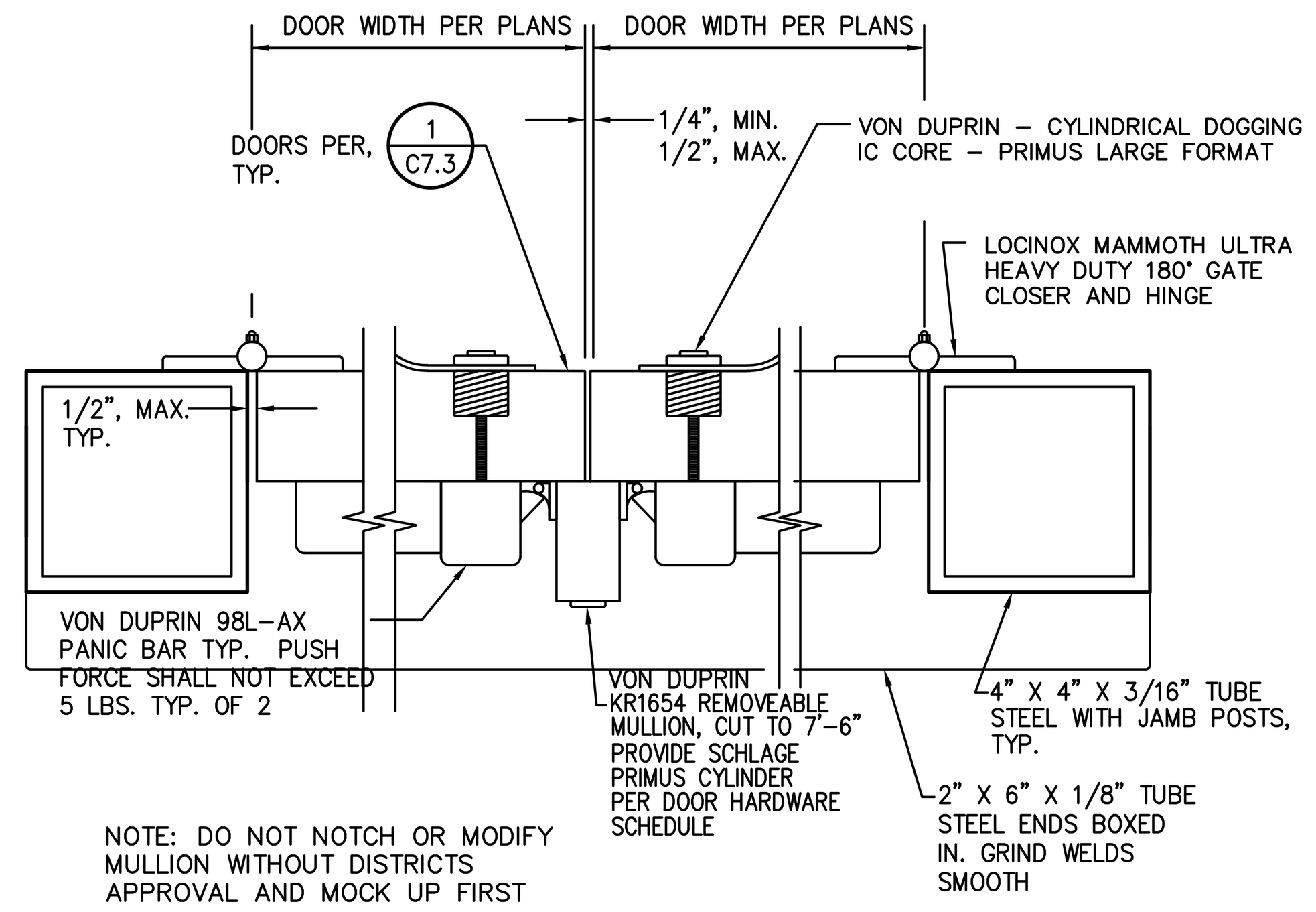
C7.2

FILENAME: I:\24-023\CIVIL\DWG\24-023-C71-C73.DWG



6 / C7.3 MAINTENANCE GATE

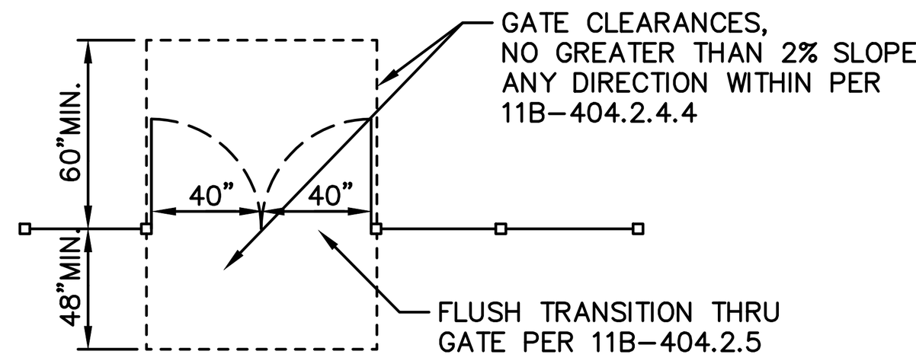
NO SCALE



NOTE: DO NOT NOTCH OR MODIFY MULLION WITHOUT DISTRICTS APPROVAL AND MOCK UP FIRST

3 / C7.3 SECTION; DOUBLE DOOR OPENING

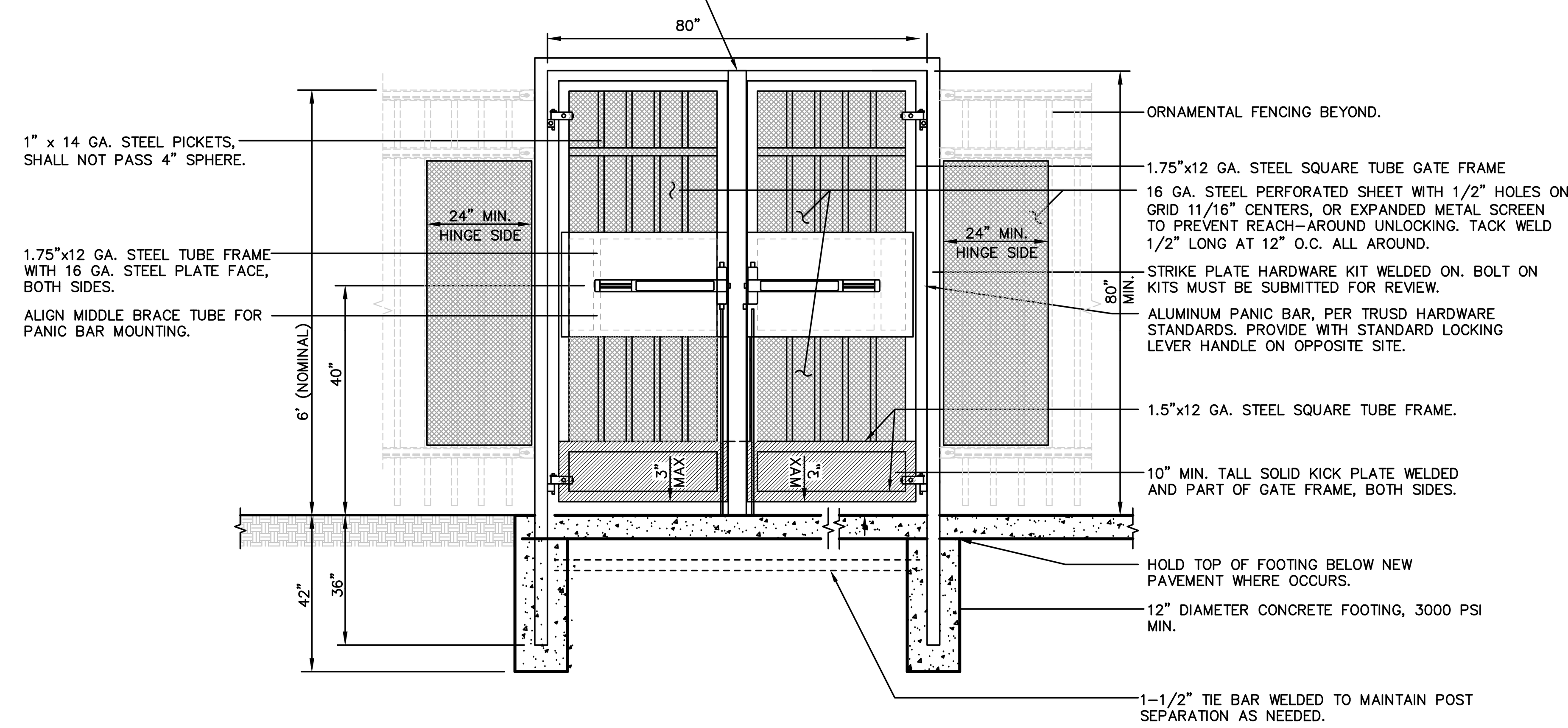
NO SCALE



TYPICAL GATE CLEARANCE

TRUSD HARDWARE STANDARDS

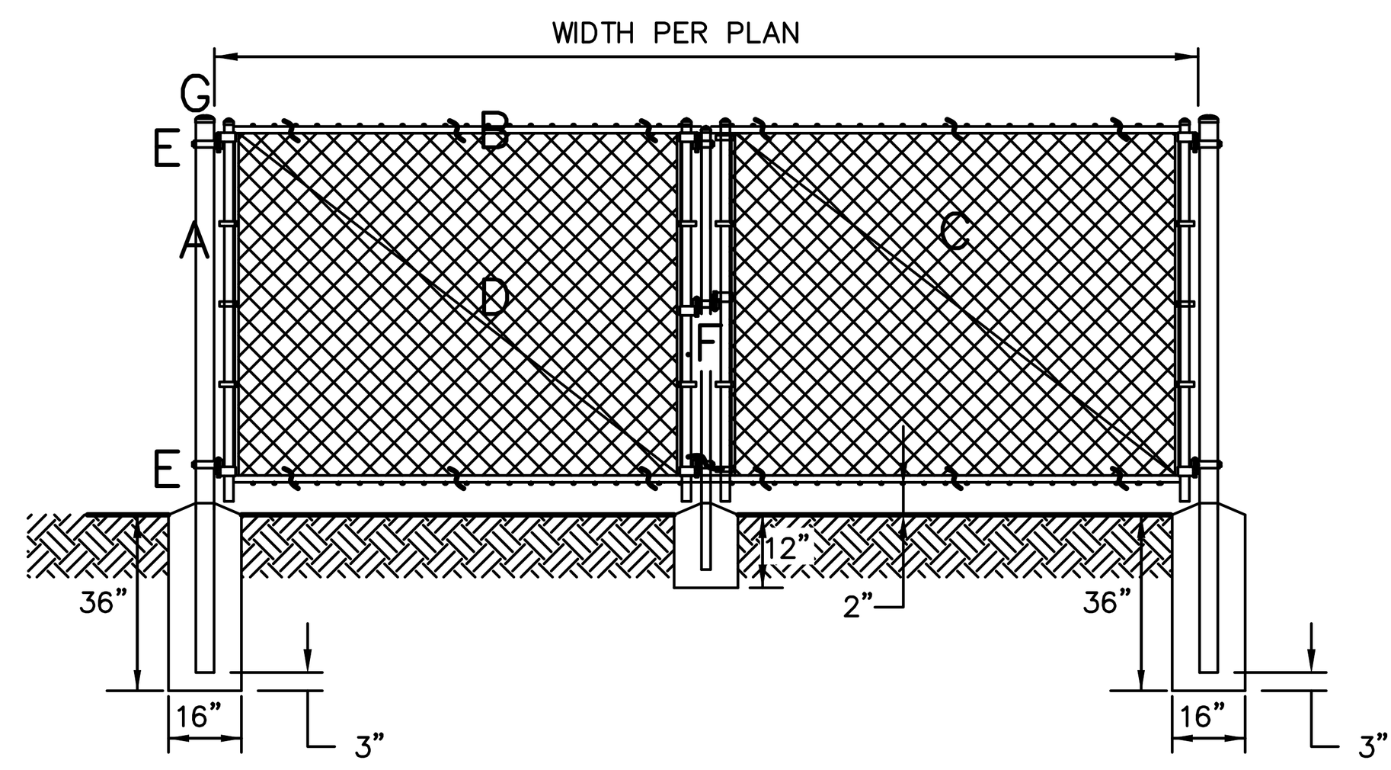
PANIC BAR	– VON DUPRIN – 98L–AX – SERIES
BAR	– VON DUPRIN – 996L – BREAKAWAY
LEVER	– VON DUPRIN – CYLINDRICAL DOGGING – IC CORE – PRIMUS LARGE FORMAT
CLOSERS/HINGES	– LOCINOX MAMMOTH HEAVY DUTY 180° GATE CLOSER AND HINGE



NOTE: ALL GATES SHALL HAVE A CLOSING SPEED (PER CBC 11B-404.2.8) AND OPENING FORCE (CBC 11B404.2.9). CLOSERS AND BEARING HINGES ARE IMPORTANT TO ACHIEVE THIS CRITERIA.

1 / C7.3 80" WIDE ACCESSIBLE GATE

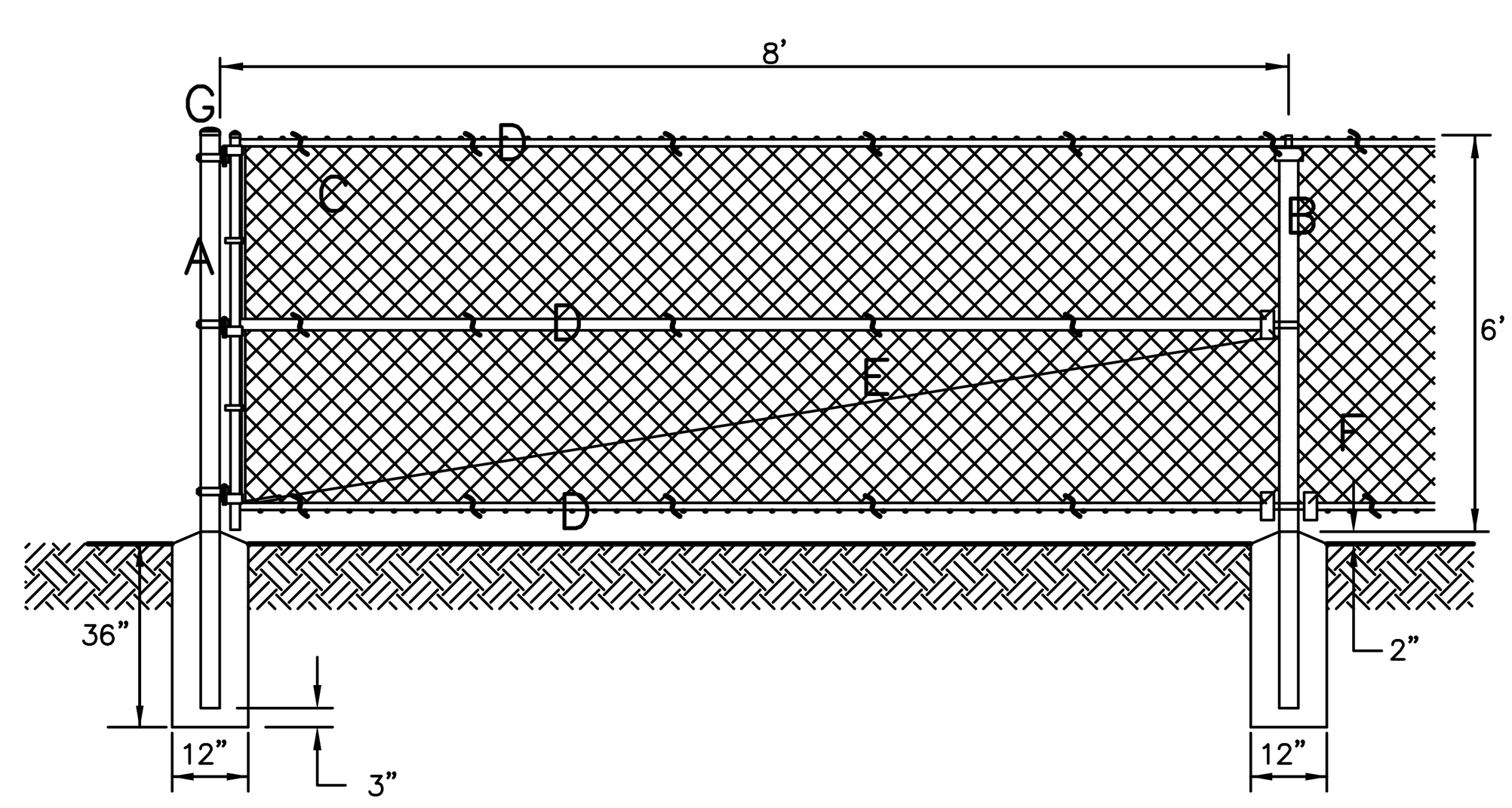
NO SCALE



A – 4" OD SCH. 40 GALV. STEEL POS.
B – 1 5/8" OD SCH. 40 WELDED GALV. STEEL FRAME.
C – FABRIC TO MATCH FENCE.
D – 3/8" OD ADJUSTABLE INDUSTRIAL TRUSS ROD.
E – 180 DEGREE PRESSED STEEL INDUSTRIAL HINGE.
F – 1 5/8" OD LOCKABLE INDUSTRIAL GALV. DROP ROD ASSEMBLY WITH GATE FORK LATCH.
G – ALL CAPS AND FITTINGS HEAVY INDUSTRIAL GALV. GRADE, POWDER COATED BLACK.

4 / C7.3 DOUBLE SWING CHAIN LINK GATE

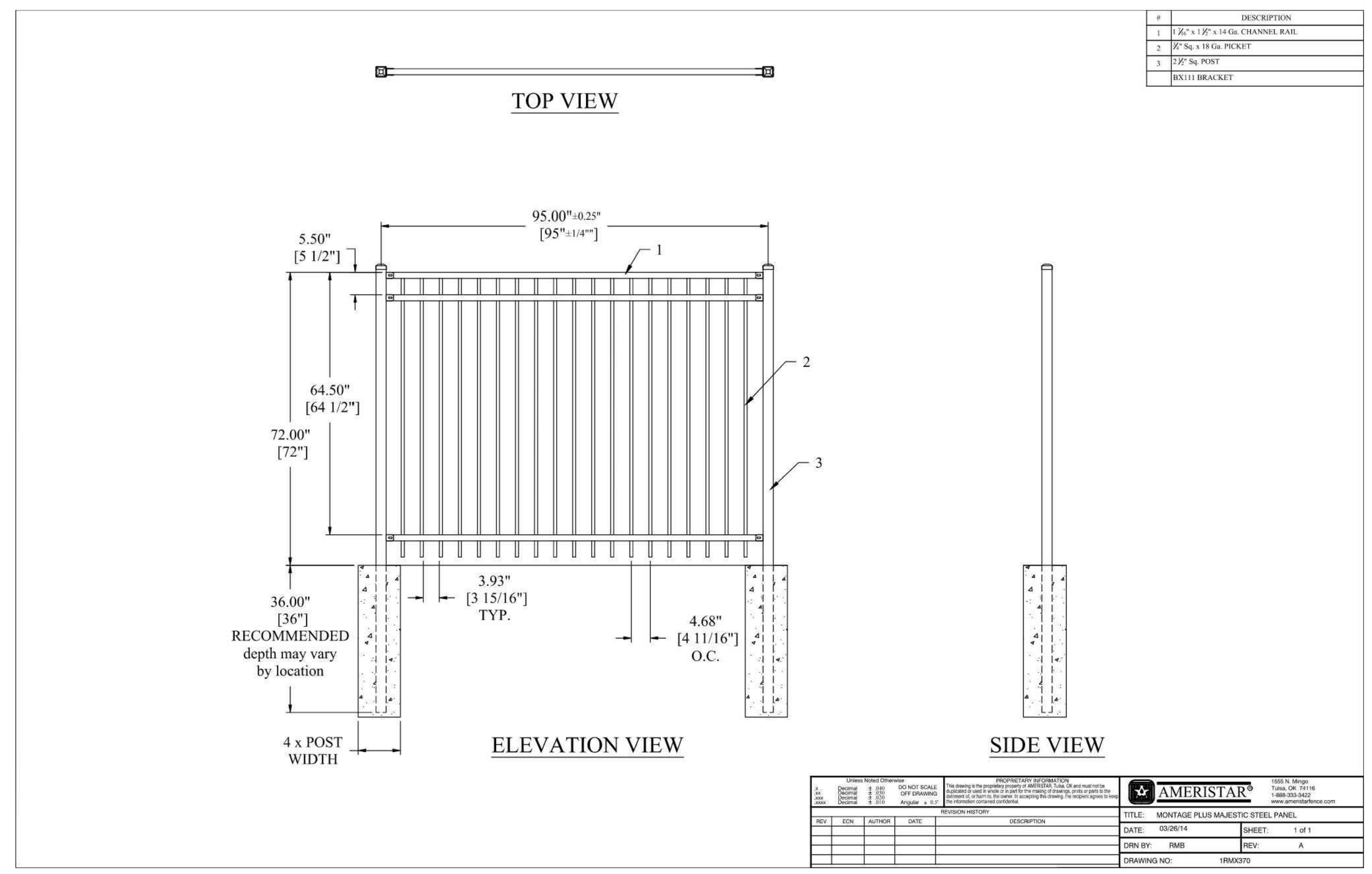
NO SCALE



A – 4" OD SCH. 40 STEEL POST, POWDER COATED BLACK
B – 2 7/8" OD SCH. 40 STEEL POST, POWDER COATED BLACK
C – 9 GA. 2" MESH CHAIN LINK BLACK VINYL FABRIC.
D – 1 5/8" OD SCH. 40 STEEL RAIL, POWDER COATED BLACK
E – 3/8" OD ADJUSTABLE INDUSTRIAL TRUSS ROD, POWDER COATED BLACK
F – 12 GA. ALUMINUM BLACK VINYL TIES AT 15" OC HORIZ. AND VERT.
G – ALL CAPS AND FITTINGS HEAVY INDUSTRIAL GRADE, BLACK

5 / C7.3 CHAIN LINK FENCE

NO SCALE



2 / C7.3 6FT ORNAMENTAL FENCE

NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT: PBK Architects, Inc.
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-682-9494 P

WCE
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UTK BUILDINGS - INC. 1 SITE PACKAGE

TWIN RIVERS USD
MADISON ELEMENTARY SCHOOL

5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN #76505-334
INC 1

TwinRivers UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
STATE OF CALIFORNIA

CLIENT: TWIN RIVERS USD
PROJECT NUMBER: 240008
DATE: 04/08/2024
DRAWN BY: AT CHKED BY: AT

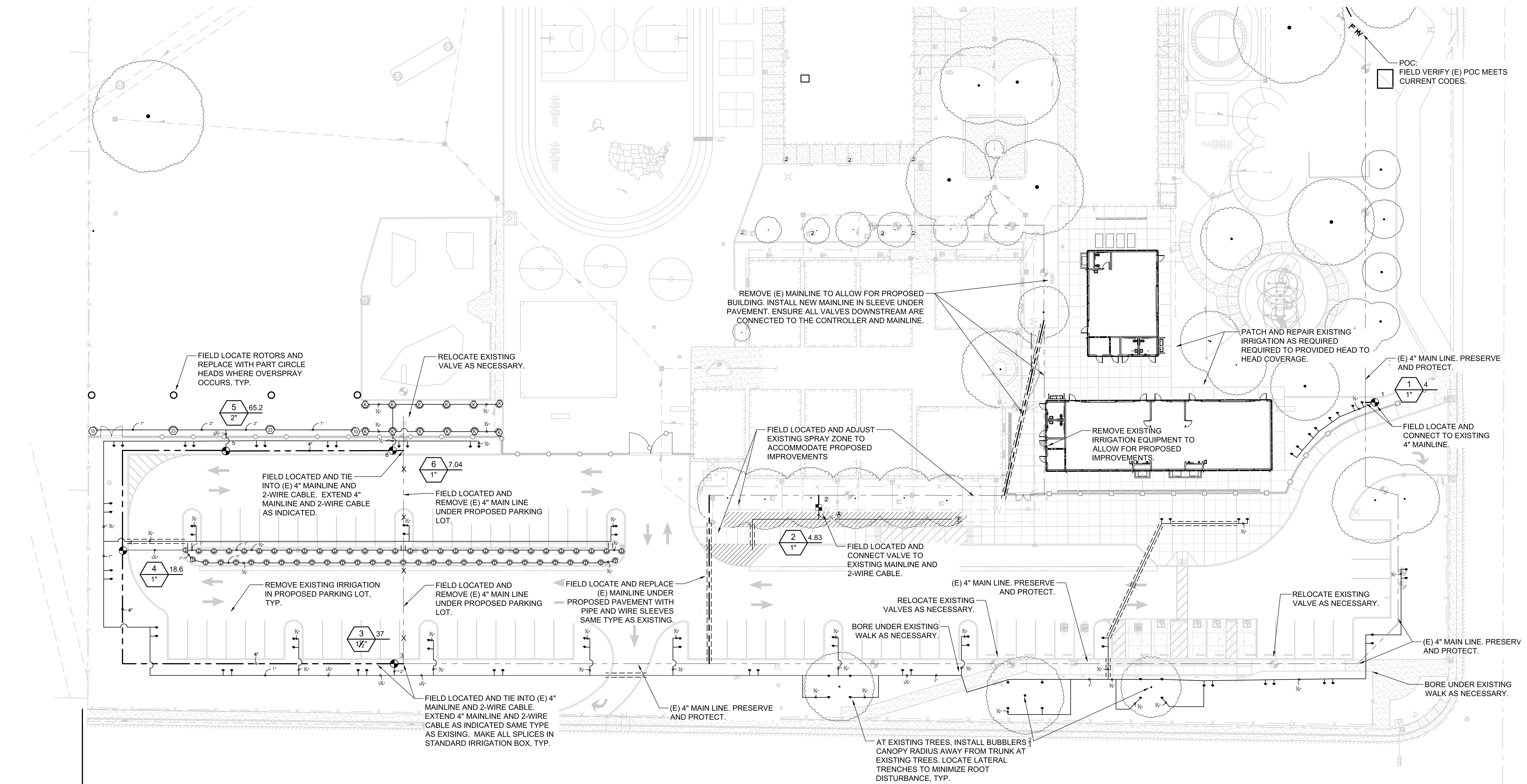
REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

DETAILS AND SECTIONS

C7.3



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
K G R	Hunter MP2000 PROS-06-PRS30-CV-F Turf Rotator, 6in. pop-up with check valve, floguard, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	30
800 A 800 F	Hunter MP800SR PROS-12-PRS30-CV-F Shrub Rotator, 12in. pop-up with check valve, floguard, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360)	30
25 50 10 20	Hunter PROS-00-PCN Flood Bubbler, on fixed riser.	15

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
10	Hunter I-40-06-SS 10 Turf Rotor, 6in. Pop-Up. Adjustable to Full Circle. Drain Check Valve, Stainless Steel Riser, 1in. Female NPT Inlet Threads, Standard Nozzle.	60	11.3	45'
23	Hunter I-40-06-SS 23 Turf Rotor, 6in. Pop-Up. Adjustable to Full Circle. Drain Check Valve, Stainless Steel Riser, 1in. Female NPT Inlet Threads, Standard Nozzle.	60	21.3	56'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICZ-101-25 Drip Control Zone Kit. 1in. ICV Globe Valve with 1in. HY100 filter system. Pressure Regulation: 25psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.
F	Netafim TLSOV Netafim TLSOV- 1/2in. manual flush valve, barbed insert. Install in 10in. box, with adequate blank or in.cobrain. tubing to extend valve out of valve box. 2/3 in fits Techline HCVXR, HCVXR-RW/RWP, CV, DL, RW and RWP driplines, and PE irrigation hose
A	Hunter PLD-AVR PLD-AVR allows for air to escape a drip irrigation system to prevent blockage and water hammering. 1/2in. MPT connection with 80 PSI maximum rating.
	Area to Receive Dripline Hunter HDL-06-18-CV HDL-06-18-CV: Hunter Dripline w/ 0.6 GPH emitters at 18" O.C. Check valve, dark brown tubing with gray striping. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G 1in., 1-1/2in., 2in., and 3in. Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Irrigation Mainline: Existing PVC Class 315 SDR 13.5
	Pipe Sleeve: PVC Schedule 40

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

NOTES

1. Irrigation design is based on a maximum demand of 180 GPM with a booster pump providing a 46 psi boost. Landscape Contractor shall test and verify pressure and flow prior to starting job and notify Landscape Architect immediately if water and pressure flows do not meet these minimum requirements for a system redesign.
2. Irrigation plan is diagrammatic; install valves and irrigation lines in planters whenever possible.

NOTES

1. HAND TRENCHING ONLY WILL BE ALLOWED UNDER EXISTING TREES, DO NOT CUT TREE ROOTS LARGER 2" IN DIAMETER WITHOUT THE SUPERVISION OF A CERTIFIED ARBORIST ON SITE, TUNNEL UNDER EXISTING ROOTS WHEN EVER NECESSARY.
2. IRRIGATION PLAN IS DIAGRAMMATIC; INSTALL VALVES AND IRRIGATION LINES IN PLANTERS WHENEVER POSSIBLE.
3. INSTALL THRUST BLOCK ON ALL PIPE 2 1/2" AND LARGER.
4. CONTROL WIRES - PROVIDE A 12" EXPANSION CURL AT INTERSECTIONS OF PIPE AND SNAKE LINES IN TRENCHES LOOSELY TO AVOID STRESS UPON CONTRACTION.
5. INSTALLING CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND AREAS PRIOR TO START OF JOB. INTENT IS FOR FULL COVERAGE OF PLANTING. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO TRENCHING.
6. WHERE MORE THAN ONE PIPE IS INSTALLED IN A TRENCH, PLACE PIPE SIDE BY SIDE AT A MINIMUM OF 2" APART. WHERE SOIL CONDITIONS ARE ROCKY, PLACE A 4" LAYER OF FINE MATERIAL ON BOTTOM OF TRENCH PRIOR TO INSTALLATION OF PIPE.
7. EXISTING IRRIGATION ADJACENT TO PARKING LOT TO REMAIN EXCEPT WHERE PLANTERS REMOVED.

THE PROJECT COMPLIES WITH THE CRITERIA OF THE CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. THE GUIDELINES HAVE BEEN APPLIED FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION PLAN"

SIGNATURE 03/25/21 DATE

IRRIGATION NARRATIVE

ALL NEW WORK TO BE CONNECTED TO EXISTING IRRIGATION SYSTEM WHICH INCLUDES EXISTING RAINMASTER DX2 2-WIRE IRRIGATION CONTROLLER WITH CENTRAL CONTROL, REDUCED PRESSURE PRINCPLE BACKFLOW PREVENTER, MASTER VALVE, FLOW SENSOR, BOOSTER PUMP AND SHUT OFF VALVE.

RAIN MASTER TWO-WIRE SYSTEM WIRE
TWO WIRE PATH TO BE 14 GAUGE TWISTED PAIR TW-CAB-14. THE MAXIMUM DISTANCE FROM THE FURTHEST VALVE TO THE CONTROLLER SHALL BE 5,000 FEET.

TWO-WIRE SYSTEM DECODER
TW-D, CONTRACTOR RESPONSIBLE FOR DETERMINING DECODER OUTPUT FOR EACH VALVE OR VALVE GROUPING. INSTALL BELOW GRADE IN BROOKS VALVE BOX.

TWO-WIRE SYSTEM SURGE ARRESTOR
TW-LA-1, INSTALLED EVERY 600' MAXIMUM. INSTALL WITH ADJACENT DECODER INSIDE OF BELOW GRADE VALVE BOX. SURGE ARRESTOR TO ALSO INCLUDE GROUNDING ROD (5/8" X 8'-0").

PLEASE CONTACT: JOHN OSSA WITH SITEONE LANDSCAPE SUPPLY AT 925.628.3819 WITH ANY QUESTIONS.

CONTROL WIRES - PROVIDE A 12" EXPANSION CURL AT INTERSECTIONS OF PIPE AND SNAKE LINES IN TRENCHES LOOSELY TO AVOID STRESS UPON CONTRACTION.

0' 20' 40' 80'

NORTH

SLEEVING SCHEDULE

PIPE SIZE OR # OF WIRES	REQUIRED SLEEVE SIZE
3/4", 1"	1-2" SLEEVE
1-1/4", 1-1/2", 2", 2-1/2"	1-4" SLEEVE
3", 4"	1-6" SLEEVE
6"	1-12" SLEEVE
1-25 CONTROL WIRES	1-2" SLEEVE
26-50 CONTROL WIRES	2-2" SLEEVES

1. ALL SLEEVES SHALL BE SCH 40 PVC.
2. ALL PIPE AND CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES UNDER PAVED AREAS, SIZE AS INDICATED ABOVE.
3. SLEEVES SHALL EXTEND AT LEAST 12" BEYOND THE EDGE OF THE PAVEMENT.

PIPE SIZING SCHEDULE

PVC TYPE	SCH 40	CLASS 315	CLASS 200
PIPE SIZE	MAX. GPM	MAX. GPM	MAX. GPM
3/4"	8	-	-
1"	13	-	-
1-1/4"	22	-	-
1-1/2"	30	-	-
2"	50	-	-
2-1/2"	-	73	-
3"	-	109	-
4"	-	-	200
6"	-	-	425

1. ALL MAINLINE PIPE SHALL BE MINIMUM 1".
2. ALL LATERAL LINE PIPE SHALL BE MINIMUM 3/4".
3. ALL PIPE 2" AND SMALLER SHALL BE SCH 40 PVC.
4. ALL PIPE 2-1/2" TO 3" SHALL BE GASKETED CLASS 315 PVC WITH MECHANICAL JOINT RESTRAINTS.
5. ALL PIPE 4" AND GREATER SHALL BE GASKETED CLASS 200 PVC WITH MECHANICAL JOINT RESTRAINTS AND DUCTILE IRON FITTINGS.

YAMASAKI
LANDSCAPE ARCHITECTURE
1223 HIGH STREET AUBURN CALIFORNIA 95603 530 885-0040

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122237 INC: 01
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

ARCHITECT PBK Architects, Inc.
FOLSOM
1110 IRON POINT RD,SUITE 200, FOLSOM, CA 95630
916-355-9922 P
PBK.com

MADISON ES - TK NEW CLASSROOM BLDG- INC.1
TWIN RIVERS UNIFIED SCHOOL DISTRICT
MADISON ELEMENTARY SCHOOL
5241 Harrison St. North Highlands, CA 95660
DSA #02-122237, PTN 76505-334
INCREMENT 1

Signature 12/24 Renewal Date 06/17/24 Date STATE OF CALIFORNIA

CLIENT
TWIN RIVERS UNIFIED SCHOOL DISTRICT
PROJECT NUMBER 240008
DATE 04/08/2024
DRAWN BY: EJS CHKED BY: BJP

REVISIONS

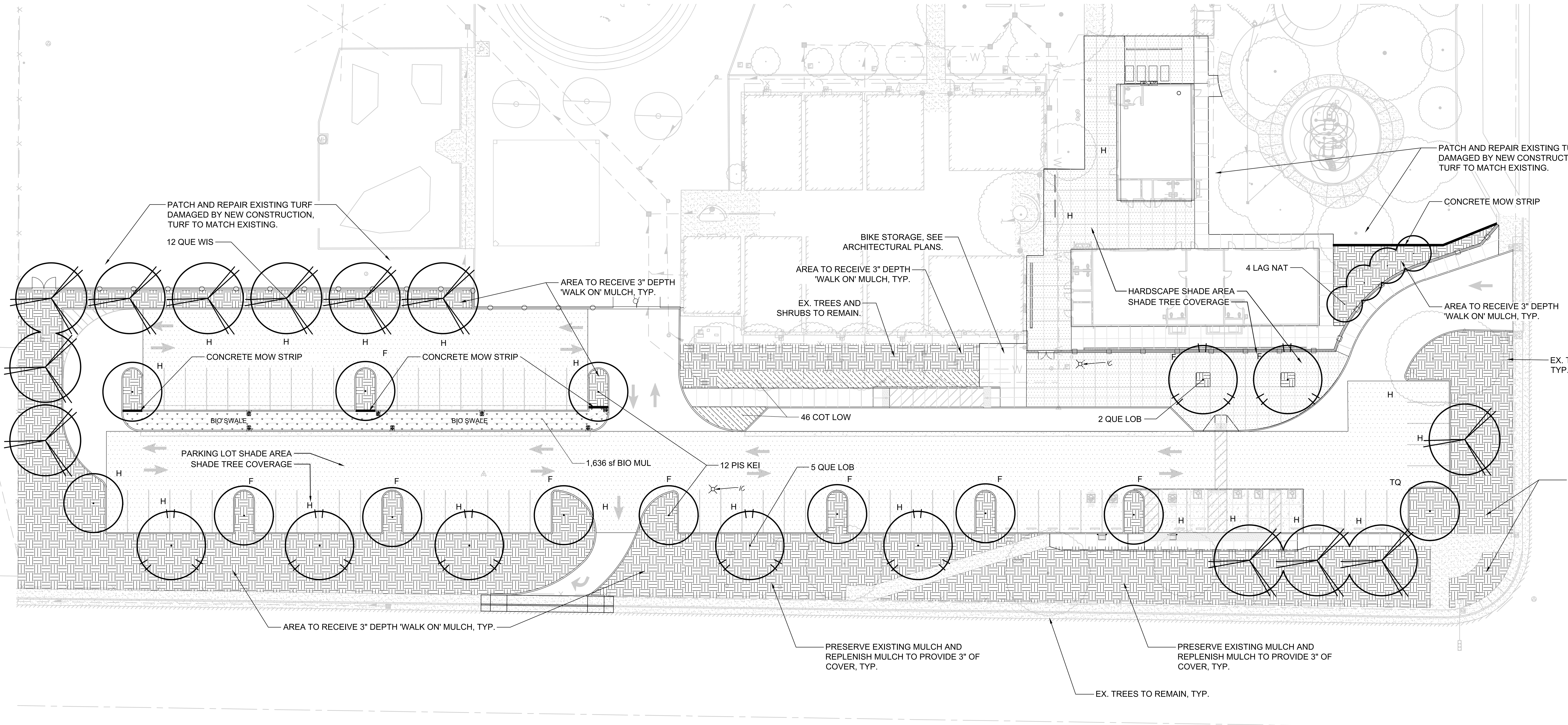
#	DESCRIPTION	DATE

INCREMENT 1

This document is for plan review only

IRRIGATION PLAN

L1.1



GENERAL NOTES

1. Landscape areas not covered with live material shall be covered with a 3" 'Walk-On' fir bark mulch layer.
2. Provide a minimum three foot clearance around all fire protection equipment and associated landscape apparatus.
3. Landscape contractor shall provide protection for all concrete surfaces when installing landscape materials. Staining of concrete from dirt, tire marks and damaged curbs will not be permitted. All damaged surfaces shall be cleaned or replaced.
4. Landscape contractor shall coordinate and install the sleeving and stubbing for irrigation crossing parking lots and paved areas.
5. Landscape contractor shall grade all landscape areas 2% min. to drain to the street. Landscape contractor is responsible to provide positive drainage away from all buildings. All planters and planter islands should be crowned to prevent standing water.
6. Root barriers are required in all locations where trees are placed closer than 48" from curbs, sidewalks, concrete or asphalt refer to detail for specification and installation.
7. Quantities found in the plant legend are for contractor convenience. In the event that the quantities in the legend differ from those found on the plans, the quantities found on the plans will take precedence.
8. Contractor to hand dig only under existing tree canopies, no mechanical excavation will be allowed, do not cut any roots 2" or larger in diameter, if it is necessary to prune roots 2" in diameter or larger, contractor shall hire the services of a licensed arborist to supervise and direct the work, follow all recommendations of the arborist.

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	WATER USE
TREES					
	LAG NAT	4	Lagerstroemia x `Natchez` / Crape Myrtle	15 gal	LOW
	PIS KEI	12	Pistacia chinensis `Keith Davey` / Keith Davey Chinese Pistache	15 gal	LOW
	QUE LOB	7	Quercus lobata / Valley Oak	15 gal	LOW
	QUE WIS	12	Quercus wislizenii / Interior Live Oak	15 gal	VERY LOW

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
GROUND COVERS						
	BIO MUL	1,636 sf	Biofiltration Sod multi	sod	MED	
	COT LOW	46	Cotoneaster dammeri `Lowfast` / Lowfast Bearberry Cotoneaster	1 gal	LOW	60" o.c.

PARKING LOT SHADE CALCULATION TABLE				
TREE-SYMBOL	Count	PERCENT-SHADE	SHADE-AREA	TOTAL
QUE-WIS	8	50%	481	3848
PIS-KEI	8	100%	962	7696
PIS-KEI	1	75%	722	722
PIS-KEI	3	50%	481	1443
QUE-LOB	5	50%	481	2405
EXISTING SHADE TREE	2	50%	481	962
TOTAL PAVED AREA	31,840 SF		TOTAL	17076
SHADE REQUIRED	15,920 SF			
SHADE PROVIDED	17,076 SF			
PERCENT SHADE	53%			

HARDSCAPE SHADE CALCULATION TABLE				
TREE SYMBOL	COUNT	PERCENT SHADE	SHADE AREA	TOTAL
ULM-DRA	2	100%	962	1924
			TOTAL	1924
TOTAL HARDSCAPE AREA	7,545 SF			
SHADE REQUIRED (20%)	1,509 SF			
SHADE PROVIDED	1,924 SF			
PERCENT SHADE	25%			

LANDSCAPE SHADE CALCULATION TABLE	
LANDSCAPE AREA	28,114 SF
SHADE PROVIDED	13,832 SF
SHADE REQUIRED (20%)	5,622 SF
PERCENT SHADE PROVIDED	49%

THE PROJECT COMPLIES WITH THE CRITERIA OF THE CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. THE GUIDELINES HAVE BEEN APPLIED FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN"

SIGNATURE 02/15/24 DATE

0' 20' 40' 80'

NORTH

YAMASAKI LANDSCAPE ARCHITECTURE
1223 HIGH STREET AUBURN CALIFORNIA 95603 530 885-0040

Not for permitting or construction

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APP: 02-122237 INC: 01
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SS ☑ FLS ☑ ACS ☑
DATE: 06/26/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 IRON POINT RD,SUITE 200, FOLSOM, CA 95630
916-355-9922 P

MADISON ES -TK NEW CLASSROOM BLDG- INC.1

TWIN RIVERS UNIFIED SCHOOL DISTRICT
MADISON ELEMENTARY SCHOOL

5241 Harrison St, North Highlands, CA 95660
DSA #02-122237 , PTN 76505-334
INCREMENT 1

TwinRivers UNIFIED SCHOOL DISTRICT

CLIENT
TWIN RIVERS UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: EJS CHKED BY: BJP

REVISIONS		
#	DESCRIPTION	DATE

INCREMENT 1

PLANTING PLAN

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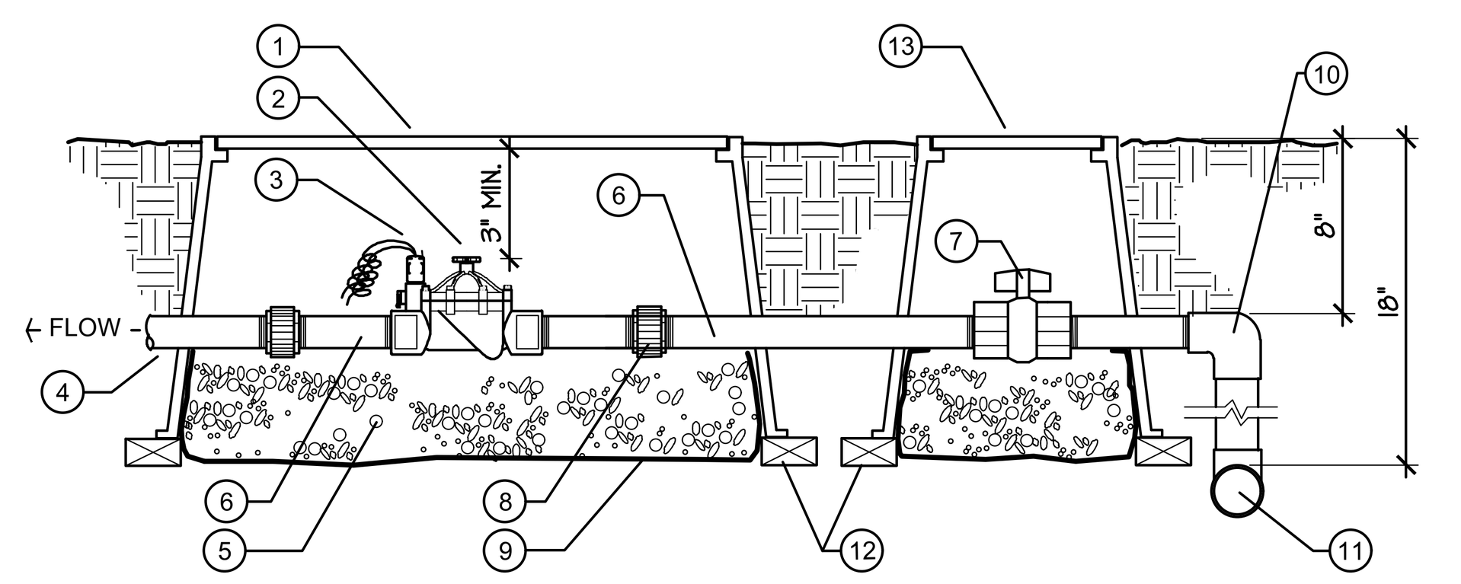
L2.1



LEGEND

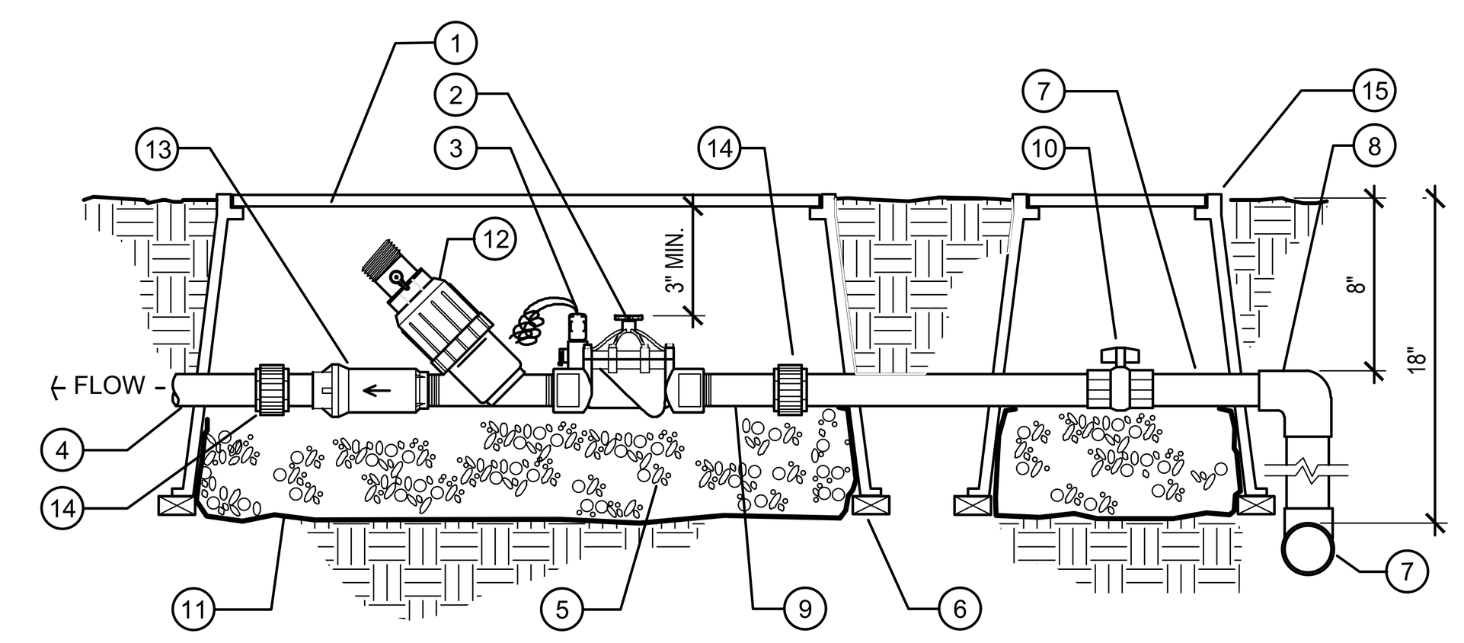
1. JUMBO RECTANGULAR VALVE BOX (15"x21")
2. REMOTE CONTROL VALVE
3. SOLENOID
4. PVC LATERAL
5. 6" PEA GRAVEL SUMP
6. PVC SCH 80 NIPPLE, TYP.
7. PVC BALL VALVE
8. PVC UNION (THREADED)
9. FILTER FABRIC
10. SCH. 80 ST ELL
11. PVC MAIN LINE
12. STANDARD BRICK (3 ⅝"x2 ¼"x8")
13. 10" ROUND VALVE BOX

NOTES:

- Use Teflon Tape on all threaded manifold components
- Use a PVC Ball Valve with every valve or manifold of valves.
- Line sump with filter fabric and leave exposed above gravel 2" min.

REMOTE CONTROL VALVE (A)

VLV-RMT-2 SCALE: N.T.S.



LEGEND

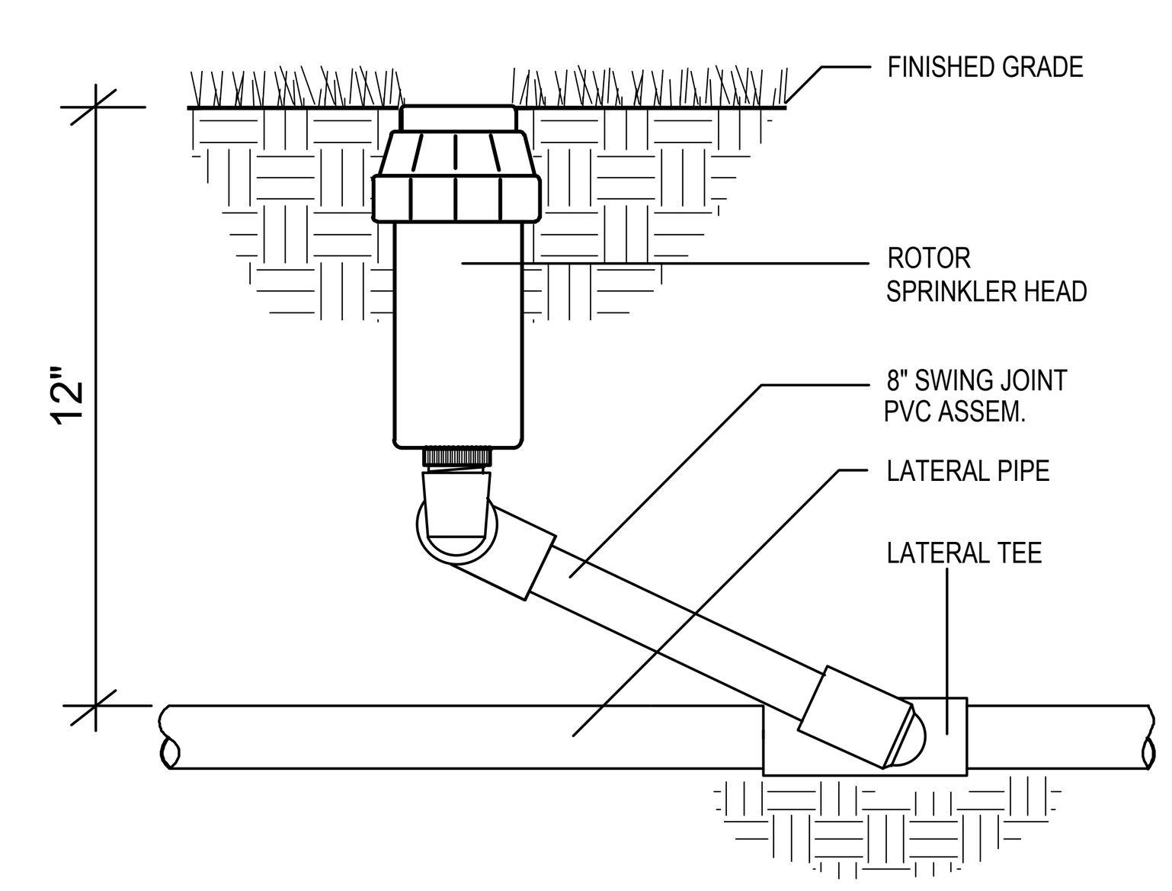
1. RECTANGULAR JUMBO VALVE BOX (15"x21")
2. REMOTE CONTROL VALVE
3. SOLENOID
4. PVC LATERAL
5. 6" PEA GRAVEL SUMP
6. STANDARD BRICK (3 ⅝"x2 ¼"x8")
7. PVC MAINLINE
8. PVC ELL
9. SCH. 80 PVC TOE NIPPLE
10. PVC BALL VALVE
11. FILTER FABRIC
12. FILTER
13. PRESSURE REGULATOR
14. UNION
15. 10" ROUND VALVE BOX

NOTES:

- Use Teflon Tape on all threaded manifold components
- Use a PVC Ball Valve with every valve
- Line sump with filter fabric and leave exposed over gravel 2" min.

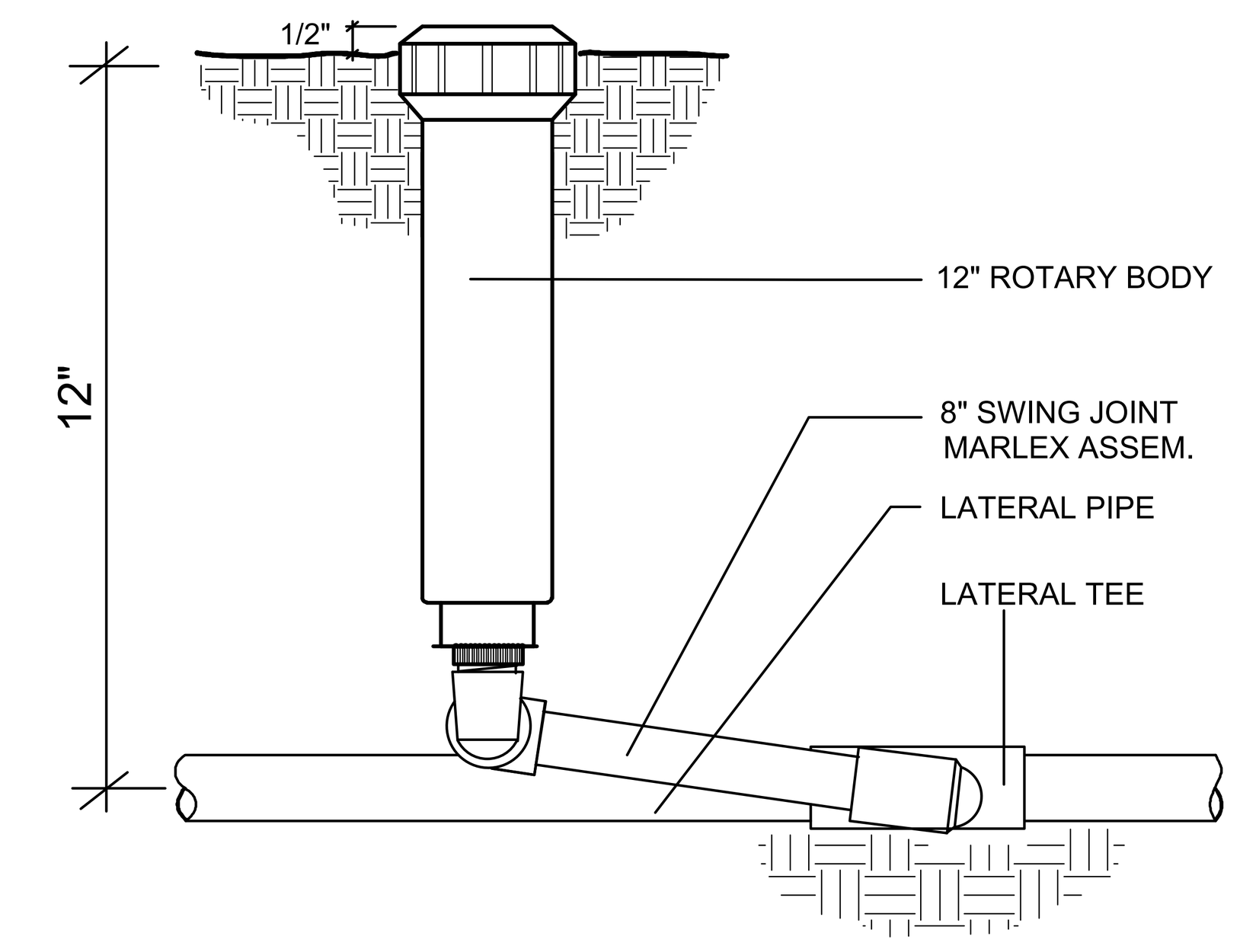
REMOTE CONTROL VALVE FOR DRIP (B)

VLV-PRVF-2 SCALE: N.T.S.



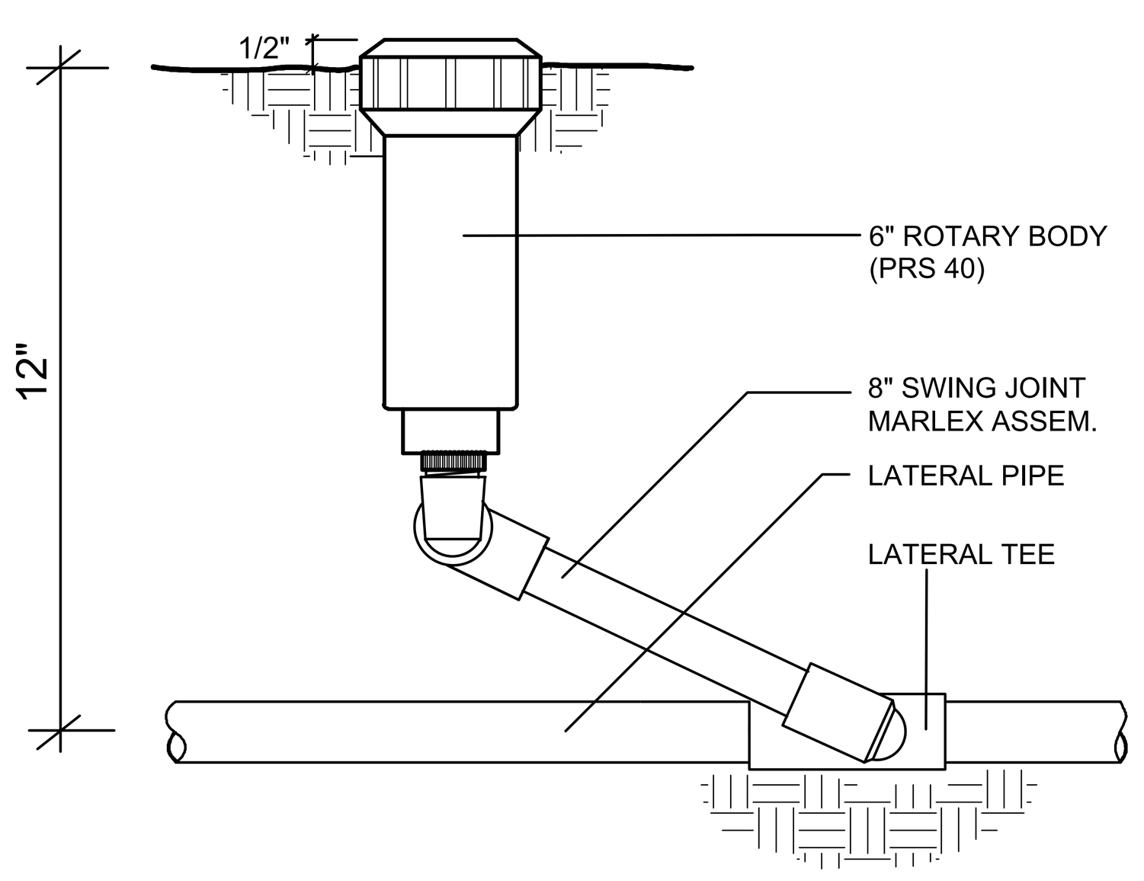
GEAR DRIVEN ROTOR (C)

HDR-GR SCALE: N.T.S.



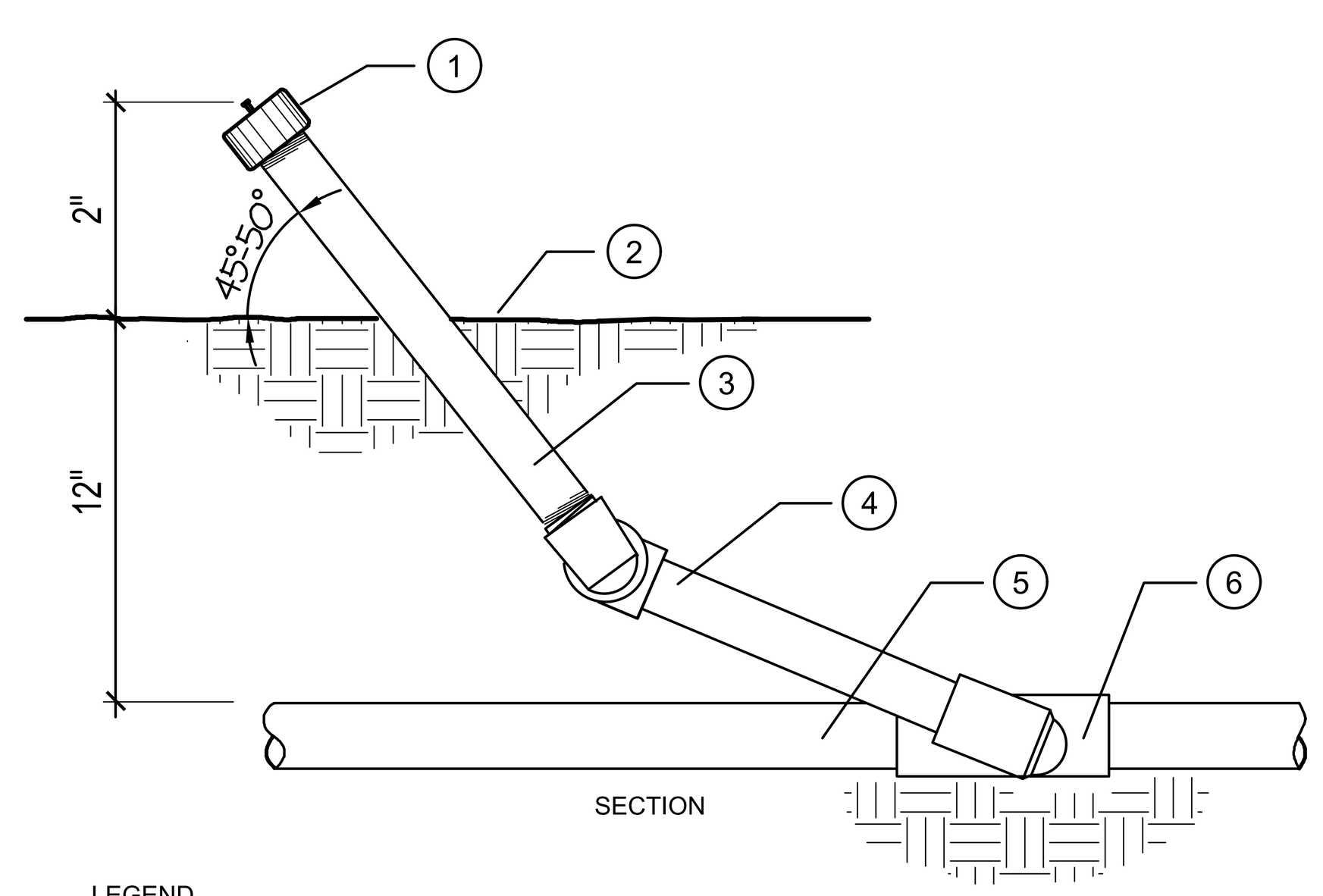
12" POP-UP ROTARY NOZZLE (D)

HDS-1.0 SCALE: N.T.S.



6" POP-UP ROTARY NOZZLE (E)

HDS-0.5 SCALE: N.T.S.

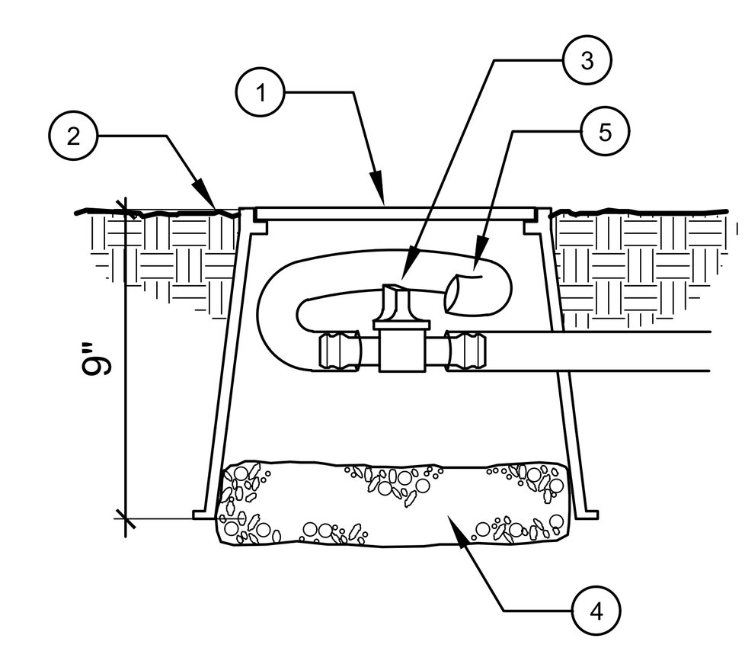


LEGEND

1. ADJUSTABLE FLOOD BUBBLER - INSTALLED AT AN ANGLE (45 DEGREES - 50 DEGREES)
2. FINISHED GRADE
3. SCH 80 RISER
4. 12" SWING JOINT MARLEX ASSEMBLY
5. LATERAL PIPE
6. LATERAL TEE

TREE BUBBLER (F)

BBLR-1 at angle SCALE: N.T.S.



LEGEND

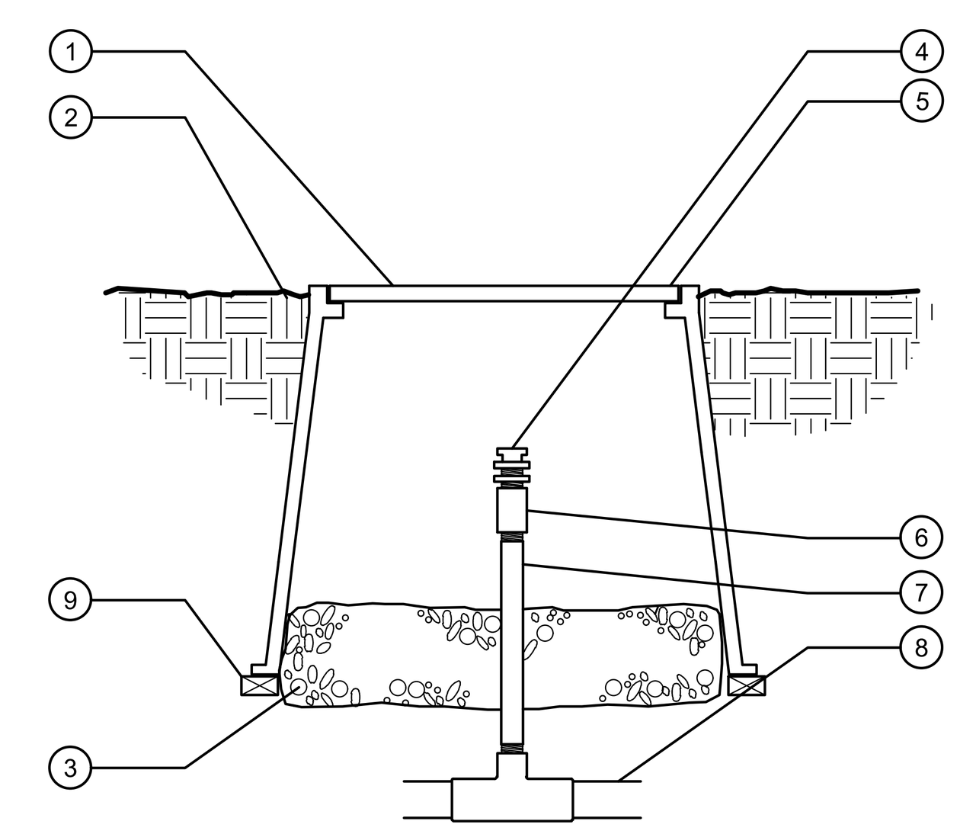
1. 6" ROUND VALVE BOX
2. FINISH GRADE
3. MANUAL LINE FLUSHING VALVE
4. 4" DEEP PEA GRAVEL SUMP
5. 18" OF BLANK DRIP TUBING

NOTES:

- Use Teflon Tape on all threaded manifold components
- Line sump with filter fabric and leave exposed over gravel 2" min.

FLUSH VALVE (G)

VLV-FLSH-MAN SCALE: N.T.S.

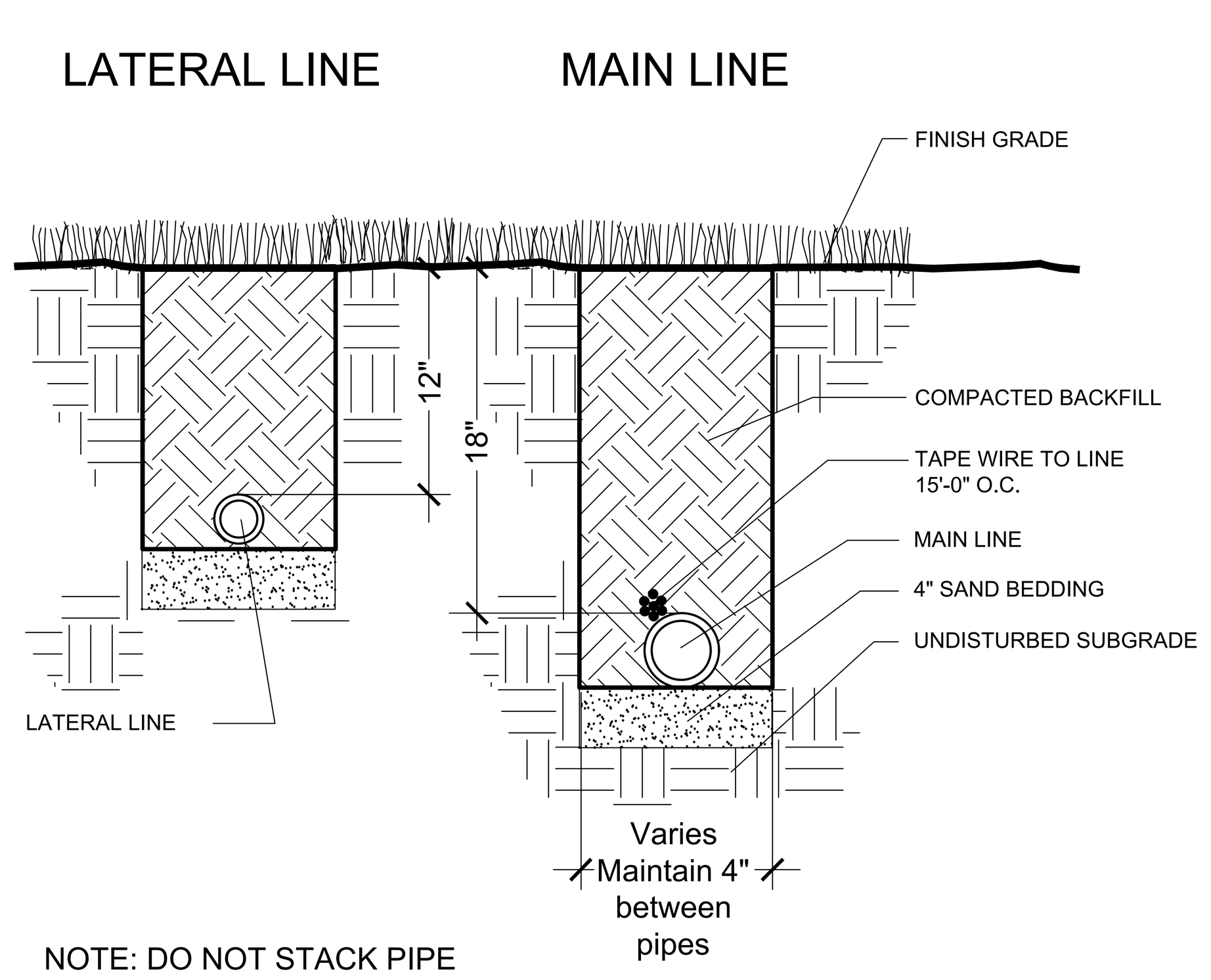


LEGEND

1. 6" ROUND VALVE BOX
2. FINISH GRADE
3. PEA GRAVEL SUMP WRAPPED WITH LANDSCAPE FABRIC 6" DEEP
4. AIR/VACUUM RELIEF VALVE
5. VALVE BOX SET TO 2 ½" ABOVE GRADE IN PLANTER AREAS, & 1 ½" ABOVE GRADE IN SOD AREAS.
6. ¾" PVC COUPLING (TxT)
7. ¾" SCH 80 RISER
8. PVC PIPING AND FITTINGS
9. STANDARD BRICK

AIR/VACUUM RELIEF (H)

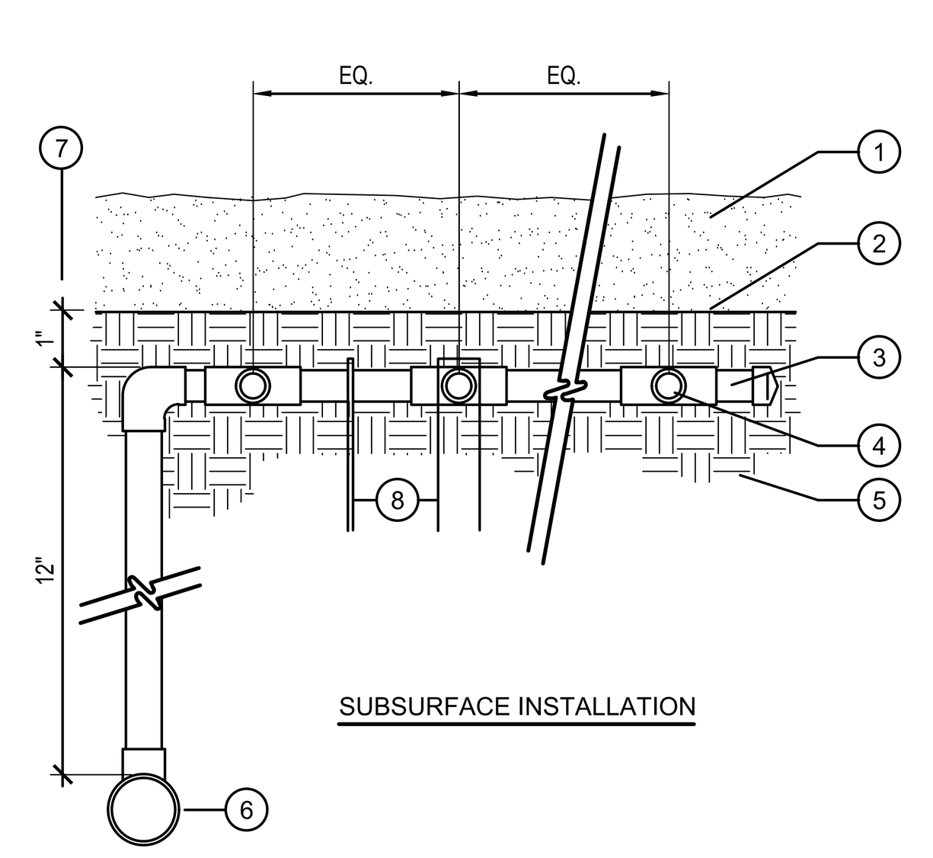
NTFM-AIRVAC SCALE: N.T.S



NOTE: DO NOT STACK PIPE ON TOP OF OTHER PIPE.

IRRIGATION TRENCH (I)

TRNCH1 SCALE: N.T.S.



LEGEND

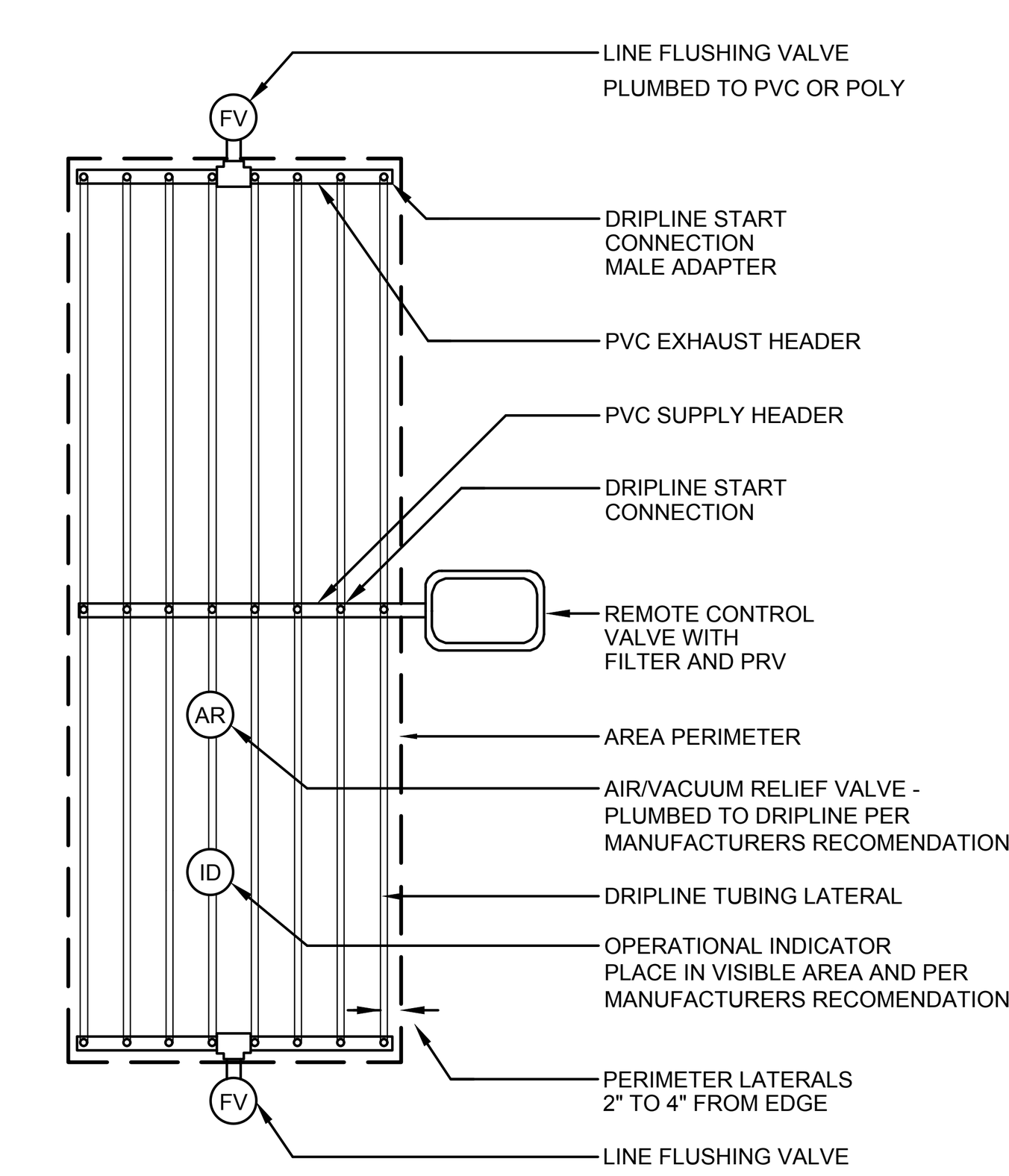
1. MULCH
2. FINISHED GRADE
3. HEADER
4. DRIPLINE, SEE PLANS FOR SPACING
5. SUBGRADE
6. SUPPLY LATERAL
7. DRIPLINE DEPTH
8. STAPLES

NOTES:

- Choose header style based on flow and header layout requirements.
- Staples are required at all blank tubing headers and dripline, per manufactures specifications and recommendations.
- Staples are not required on PCV headers.

SUBSURFACE HEADER & DRIPLINE INSTALLATION (J)

NTFM-DPTH SCALE: N.T.S.



DRIPLINE LAYOUT - CENTER FEED (K)

DRP-MID LAY SCALE: N.T.S.

YAMASAKI LANDSCAPE ARCHITECTURE

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TwinRivers UNIFIED SCHOOL DISTRICT

LICENSED LANDSCAPE ARCHITECT
JEFFREY M. AMBROSIA
12/24
06/17/24
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS UNIFIED SCHOOL DISTRICT
PROJECT NUMBER 240008
DATE 04/08/2024
DRAWN BY: EJS CHKED BY: BJP

REVISIONS

#	DESCRIPTION	DATE

INCREMENT 1

IRRIGATION DETAILS

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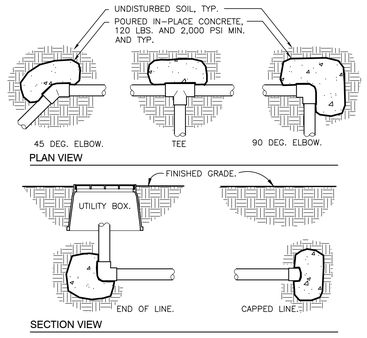
L3.1



THRUST BLOCKING (A)

THR-BLK

SCALE: N.T.S.

NOT USED (B)

NOT USED (C)

NOT USED (D)

YAMASAKI

Irrigation Division
Irrigation Audit Services (CLIA)
LEED Certified Landscape Design
AB1881 Compliance Documentation

PROJECT INFORMATION

Project Name: Madison TK New Classroom Bldg Inc. 1 **Date:** 02.15.2024

Project Contact:	Applicant:	Yamasaki Landscape Architecture
		1223 High Street, Auburn, CA 95603
		(530) 885-0040
	Contact:	Jeff Ambrosia
	Owner:	Twin Rivers Unified School District
Project Address:		5241 Harrison Street
		North Highlands, California 95660

Project Type:	Rehabilitated Public Project
Local Water Purveyor:	Sacramento Suburban Water
Water Supply:	Potable Water

Total Landscape Area:	10,292 s.f.
Maximum Applied Water Allowance:	286,666 gallons
Estimated Total Water Use:	270,230 gallons

Document Check List:

- ☑ Project Information
- ☑ Water Efficient Landscape Worksheet
- ☐ Soil Management Report
- ☑ Landscape Design Plan
- ☑ Irrigation Design Plan
- ☑ Grading Design Plan

Applicant Signature — 02.15.2024 Date

"I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package. "

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Water Efficient Landscape Worksheet
Section A: Hydrozone Information Sheet

Zone or Valve #	Irrigation Method	Area (Sq.Ft.)	% of Landscape Area
1	Bubbler	160	2%
2	Bubbler	875	9%
3	Drip	1,480	14%
4	Rotary Stream	1,635	16%
5	Rotor	5,068	49%
6	Rotor	1,074	10%
			0%
			0%
		Total Area (Sq.Ft.)	Total (%)
Total Landscape Area		10,292	100%

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Water Efficient Landscape Worksheet
Section B. Water Budget Calculation

Maximum Applied Water Allowance (MAWA)

Project ETo City: Sacramento

MAWA = (ETo) (0.62) [(0.45 x LA) + (0.55 x SLA)

Insert: Where:

MAWA = Maximum Applied Water Allowance (gallons per year)

51.90 ETo = Reference Evapotranspiration (inches per year)

0.45= ET Adjustment Factor (ETAF)(AB 1881 Dec 1, 2015)

10,292 LA = Landscape Area includes Special Landscape Area (Sq.Ft.)

0.62 = Conversion Factor (to gallons per Sq.Ft.)

7,777 SLA = Special Landscape Area (Sq.Ft.)

0.55= The additional ET Adjustment Factor for SLA (1.0-0.45=0.55)

MAWA = 51.9 (0.62) [(0.45x 10,292 + (0.55x 7,777)

Maximum Applied Water Allowance: **286,666** Gal. / Yr

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Irrigation Audit Services (CLIA)
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AB 1881 Compliance Documentation

Water Eficient Landscape Worksheet
Section B. Water Budget Calculation

Estimated Total Water Use (ETWU)

Valve / Hydrozone	Plant Water Use	Plant Factor (PF)	IE	ETAF (PF/IE)	Area (HA) (Sq.Ft.)	ETAF x Area	Estimated Total Water Use
1	Low (L)	0.2	0.81	0.25	160	40	1,271
2	Low (L)	0.2	0.81	0.25	875	216	6,952
3	Low (L)	0.2	0.81	0.25	1,480	365	11,759
				0.00		0	0
				0.00		0	0
Total				SUM	2,515	621	
							19,982
Special Landscape Areas							
4	High (H)	0.8	0.75	1.00	1,635	1,635	52,611
5	Moderate (M)	0.5	0.75	1.00	5,068	5,068	163,078
6	High (H)	0.8	0.75	1.00	1,074	1,074	34,559
				1.00		0	0
				1.00		0	0
Total SLA				SUM	7777	7,777	250,248

	Project Eto	51.9
ETWU =(ETo)(0.62)x(PF x HA + SLA) / IE	Regular Landscape ETWU	19,982
	Average ETAF	0.25
	SLA ETWU	250,248
	Sitewide ETAF	0.82
Max Applied Water Allowance 286,666	**Estimated Total Water Use**	270,230

MODEL WATER EFFICIENCY ORDINANCE CALCULATIONS

YAMASAKI
LANDSCAPE ARCHITECTURE
1223 HIGH STREET AUBURN CALIFORNIA 95603 530 885-0040

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MADISON ES -TK NEW CLASSROOM BLDG- INC.1

TWIN RIVERS UNIFIED SCHOOL DISTRICT
MADISON ELEMENTARY SCHOOL

5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN 76505-334
INCREMENT 1

TwinRivers UNIFIED SCHOOL DISTRICT

LICENSED LANDSCAPE ARCHITECT JEFFREY M. AMBROSIA 4924 12/24 06/11/24 STATE OF CALIFORNIA

CLIENT
TWIN RIVERS UNIFIED SCHOOL DISTRICT

PROJECT NUMBER 240008

DATE 04/08/2024

DRAWN BY: EJS CHKED BY: BJP

REVISIONS

#	DESCRIPTION	DATE

INCREMENT 1

IRRIGATION DETAILS AND CALCULATIONS

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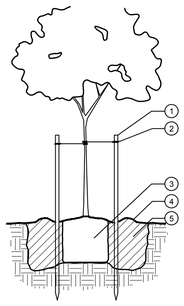
L3.2



LEGEND

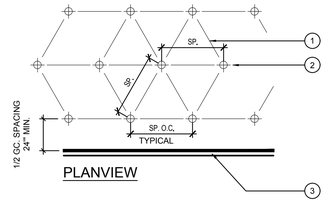
1. TREE STAKE
2. TREE TIE
3. ROOTBALL
4. SOIL RING
5. AMENDED BACKFILL

NOTES:

- WIDTH OF HOLE SHALL BE 3 TIMES THE WIDTH OF THE ROOTBALL
- DEPTH OF THE HOLE SHALL BE HEIGHT OF THE ROOTBALL WITH 1 1/2" OF TOP OF ROOTBALL HIGHER THAN SURROUNDING FINISH GRADE
- CUT TREE STAKES WITHIN 2" OF TIES
- WATER BACKFILL HEAVILY TO REDUCE AIR POCKETS
- REMOVE NURSERY STAKE PRIOR TO THE END OF THE MAINTENANCE PERIOD
- MAINTAIN A MINIMUM DISTANCE OF 18" BETWEEN EDGE OF LAWN AND TRUNK OF TREE(S)

TREE PLANTING AND STAKING (A)

PLT-TREE1 SCALE: N.T.S.



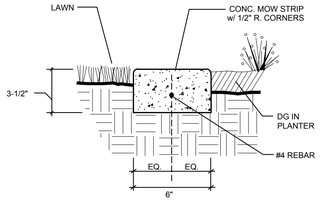
PLANVIEW

LEGEND

1. GROUNDCOVER SPACING PER PLANT SCHEDULE.
2. GROUNDCOVER CENTERS.
3. WALL, WALK OR EDGE OF GROUNDCOVER PLANTING.

GROUNDCOVER PLANTING (B)

PLT-GRDCVR SCALE: N.T.S.

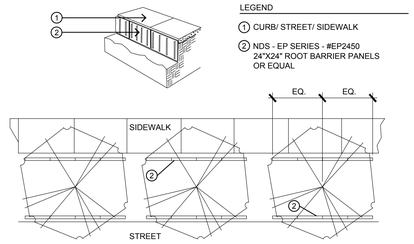


NOTES

- PLACE 1/2" WIDE PRE-FORMED FIBER EXPANSION JOINTS AT 15' O.C.
- IF EXTRUDED USE FIBER MESH. IF POURED IN PLACE USE #4 REBAR CONTINUOUS IN MIDDLE OF MOW STRIP
- MOW STRIP SHALL BE FLUSH WITH ADJOINING WALK OR CURB
- CONCRETE TO BE CLASS A

CONCRETE MOW STRIP (C)

CONC MS SCALE: N.T.S.



LEGEND

1. CURB/ STREET/ SIDEWALK
2. NDS - EP SERIES - #EP2450 24"X24" ROOT BARRIER PANELS OR EQUAL

NOTES:

- Install (4) 24" panels on each side of tree
- Center the panels on trunk of tree
- Root barriers are required in all locations where trees are placed closer than 48" from curbs, sidewalks, concrete or asphalt, and where shown on plans.
- Set top of root barrier 4" below top of walk or curb, or 2" below finished grade, whichever is lower.

TREE ROOT BARRIER (D)

PLT-BARR SCALE: N.T.S.

E

F

G

H

I

J

K

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TwinRivers UNIFIED SCHOOL DISTRICT

LICENSED LANDSCAPE ARCHITECT
ROBERT M. AMBROSIA 4924
12/24
06/17/24
DATE
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
240008

DATE 04/08/2024

DRAWN BY: EJS CHKED BY: BJP

REVISIONS

#	DESCRIPTION	DATE

INCREMENT 1

PLANTING DETAILS

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L3.3

G0.03 - SITE DATA & CODE REVIEW

TECHNOLOGY LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES		INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.
		INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.
		INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET. CONTRACTOR TO PROVIDE AND INSTALL (2) 1-1/2" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.
	'AP'	INDICATES WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) CAT6/6A CABLES ROUTED TO NEAREST IDF. PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT. WALL MOUNTED DEVICES SHALL BE INSTALLED AT 10' A.F.F.
	S	INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) CAT6/6A DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING.
	S	INDICATES WALL MOUNTED INTERCOM SPEAKER. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) CAT6/6A DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING
	C	INDICATES WALL MOUNTED CLOCK. VERIFY WITH INTERCOM CONTRACTOR WHETHER CLOCKS ARE IP. IF SO, PROVIDE (1) CAT6 DATA CABLE ROUTED TO NEAREST IDF. INCLUDES DOUBLE FACE CLOCKS.

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.

TECHNOLOGY PLAN GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE. CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL).
2. CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE TECHNOLOGY CONSULTANT.
3. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, PULL STRINGS, BACK BOXES AND SLEEVES REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
4. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC.
6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
8. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN WIRE RUN.
9. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
10. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND CONSULTANT.
11. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES.
12. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
13. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
15. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.
16. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
17. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLING SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
18. CONTRACTOR SHALL PROVIDE TWO (2) CAT6/6A CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
19. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
20. 21ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
21. CONTRACTOR SHALL PROVIDE TWO (2) CAT6/6A CABLES TO THE ACCESS CONTROL HEAD-END. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
22. CONTRACTOR TO PROVIDE TWO (2) CAT6/6A CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BAS HEAD-END LOCATION. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
23. CONTRACTOR TO PROVIDE TWO (2) CAT6/6A CABLES TO THE AREA OF REFUGE SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
24. CONTRACTOR SHALL PROVIDE (1) CAT6/6A CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF. COORDINATE WITH OTHER TRADES.
25. CONTRACTOR SHALL PROVIDE (2) CAT6/6A CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE.
26. CONTRACTOR SHALL PROVIDE (1) CAT6/6A CABLE TO THE INTRUSION DETECTION SYSTEM HEAD-END

SECURITY SYSTEMS LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES		WALL MOUNTED MOTION DETECTOR INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING.
		360 DEGREE CEILING MOUNTED MOTION DETECTOR.
	KP	INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER.
	CONT	INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT ON ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS.
	CR	ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER.
	DC	DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES.
	GB	WALL MOUNTED GLASS BREAK DETECTOR. MOUNT AT 12'-0" A.F.F.

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

SECURITY GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL)
2. A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL).
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS.
4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.
5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"
6. PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS.
7. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED.
11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.
13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER.
14. CONTRACTOR SHALL INTEGRATE THE INSTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISARMED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.
15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLING AND LICENSES.
16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.

TECHNOLOGY SCOPE OF WORK

1. PROVIDE COMPLETE TECHNOLOGY SYSTEMS EQUIPMENT WITH INSTALLATION AS REQUIRED FOR A COMPLETE WORKING SYSTEM PER DESIGN DRAWINGS AND SPECIFICATIONS FOR COMMUNICATIONS ROOM 109, AND OTHER SPACES REQUIRED TECHNOLOGY CONNECTIONS IN FBO BUILDING AND SITE PER THE DESIGN DRAWINGS.
2. PROVIDE NEW CONDUITS, J-HOOKS ABOVE ACCESSIBLE CEILING SPACES TO SUPPORT NEW TECHNOLOGY WIRING AS REQUIRED BETWEEN END DEVICES AND TECHNOLOGY HEADEND EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL WIRING WITH TERMINATION AND TESTING AS REQUIRED FOR A COMPLETE WORKING SYSTEM.
3. PROVIDE NEW EMPTY UNDERGROUND CONDUITS CAP IN-PLACE FOR FUTURE USE BETWEEN THE NEW COMMUNICATION ROOM 109 IN FBO BUILDING TO FUTURE TERMINAL EXPANSION, AND HANGAR. REFER TO SITE PLAN T1.01 FOR NUMBER AND SIZE OF UNDERGROUND CONDUITS.
4. PROVIDE COMPLETE INFRASTRUCTURE INCLUDING WIRING TO ALL SECURITY DEVICES PER PLANS.
5. THE CONTRACTOR SHALL PROVIDE CONDUITS, UNDERGROUND PULL BOXES, AND WIRING AS REQUIRED FOR CONNECTIONS TO ALL SITE DEVICES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TECHNOLOGY EQUIPMENT/DEVICES MOUNTING AS NOTED PER THE DESIGN DRAWINGS.
7. THE CONTRACTOR SHALL PROVIDE NEW UNDERGROUND CONDUITS FOR NEW UTILITY SERVICE PROVIDER CONNECTION, AND COORDINATE WITH UTILITY SERVICE PROVIDER COMPANY FOR FINAL POINT OF CONNECTION PRIOR TO INSTALLATION.
8. PROVIDE ACCESS CONTROL SYSTEM TO INCLUDE ACCESS CONTROL PANEL, POWER SUPPLY AND CARD READERS PER SPECIFICATIONS.
9. PROVIDE VIDEO SURVEILLANCE SYSTEM AND SECURITY CAMERAS WITH REQUIRED LICENSING FOR A COMPLETE WORKING SYSTEM INCLUDING INTEGRATION WITH ACCESS CONTROL SYSTEM.

AUDIO & VIDEO GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT. THE INSTALLING CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS (TYPICAL). ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT.
2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
3. ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
5. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
6. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.
8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
9. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.
10. EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS.
11. A/V CONTRACTOR SHALL COORDINATE ALL MOUNTING LOCATIONS OF ALL A/V DEVICES TO PROVIDE EVEN AND BALANCED AUDIO COVERAGE OF INTENDED LISTENING AREAS AND UNOBSTRUCTED, SQUARE AND PLUMB VIDEO IMAGE DISPLAYS.
12. ALL LAY-IN CEILING MOUNTED SPEAKERS AND DEVICES SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM. AT NO POINT SHOULD THE WEIGHT OF A CEILING MOUNTED DEVICE BE SUPPORTED BY A CEILING TILE ALONE.
13. A/V CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUIT AND BACK BOX REQUIREMENTS.
14. A/V CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES WITH REGARD TO BLOCKING AND PROPER SUPPORT OF ALL A/V DEVICES.
15. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2022
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
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

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2016 EDITION
NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT; 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2016 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES; 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED; 2002 EDITION (R2010)
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS; 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

GENERAL NOTES

1. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.
2. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
3. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT.
4. CIRCUITING
   A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
   B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
   C. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS. HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
   D. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
5. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
6. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
7. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
8. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
9. CONTRACTOR TO REFER TO ARCHITECTURAL PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS:
    A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS.
    B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGN, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING.
    C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE.
    D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING.
    E. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RAGED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT. RACEWAY, CABLE ASSEMBLIES, BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING THE CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN.
11. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.
12. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, CEC, ALL STATE AND LOCAL CODES AND AMENDMENT.

ELECTRICAL NOTES

EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

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

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

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

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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

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

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

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAi PRE-APPROVAL (OPM #).

DEVICE LOCATION NOTE

THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATIONS. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

UL LISTINGS NOTE

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY.

ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS. STRUCTURAL MEMBERS SHALL NOT BE CUT. DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

DIAGRAMMATIC NOTE

DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS ANY ELECTRICAL ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

SHEET INDEX

ELECTRICAL ABBREVIATIONS

(D) OR (R)	DEMOLISH/REMOVE	HV	HIGH VOLTAGE
(E)	EXISTING	HZ	HERTZ
(ER)	EXISTING RELOCATED	IG	ISOLATED GROUND
(F)	FUTURE	JB	JUNCTION BOX
(N)	NEW	KAIC	KILO-AMPS INTERRUPTING CAPACITY
(RR)	REMOVE AND RELOCATE	KCMIL	THOUSAND CIRCULAR MILS
A	AMPERES	KV	KILOVOLT
AC	ALTERNATING CURRENT	KVA	KILOVOLT AMPERES
AF	AMP-FRAME	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT-HOUR
AFG	ABOVE FINISHED GRADE	M	METER
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
AIC	AMPS INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AT	AMP-TRIP	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MFR	MANUFACTURER
AL	ALUMINUM	MH	METAL HALIDE
AWG	AMERICAN WIRE GUAGE	MLO	MAIN LUGS ONLY
BAT	BATTERY	MIN	MINIMUM
BCW	BARE COPPER WIRE	MV	MEDIUM VOLTAGE
BFG	BELOW FINISH GRADE	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NIC	NOT IN CONTRACT
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	PC	PHOTOCELL
CEC	CALIFORNIA ELECTRICAL CODE	PH	PHASE
CO	CONDUIT ONLY	PT	POTENTIAL TRANSFORMER
CPT	CONTROL POWER TRANSFORMER	PV	PHOTOVOLTAIC
CT	CURRENT TRANSFORMER	QTY	QUANTITY
CU	COPPER	SCA	SHORT CIRCUIT AVAILABLE
DC	DIRECT CURRENT	SWGR	SWITCHGEAR
EF	EXHAUST FAN	SWBD	SWITCHBOARD
EGU	ENGINE GENERATOR UNIT	TSP	TWISTED SHIELDED PAIR
EM	EMERGENCY	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	UF	UNDER FLOOR
EP	EXPLOSION PROOF	UG	UNDER GROUND
FA	FIRE ALARM	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
FC	FOOT CANDLE	V	VOLT(S)
FU	FUSE	VA	VOLT-AMP
FO	FIBER OPTIC	VFD	VARIABLE FREQUENCY DRIVE
GND	GROUND	W	WATT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER	XFMR	TRANSFORMER
GFR	GROUND FAULT RELAY		
HID	HIGH INTENSITY DISCHARGE		
HOA	"HAND-OFF-AUTO" SWITCH		
HP	HORSEPOWER		
HPS	HIGH PRESSURE SODIUM		

ELECTRICAL SYMBOL LEGEND

LEGEND NOTES

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. DASHED ELECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT.
3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

DIAGRAM

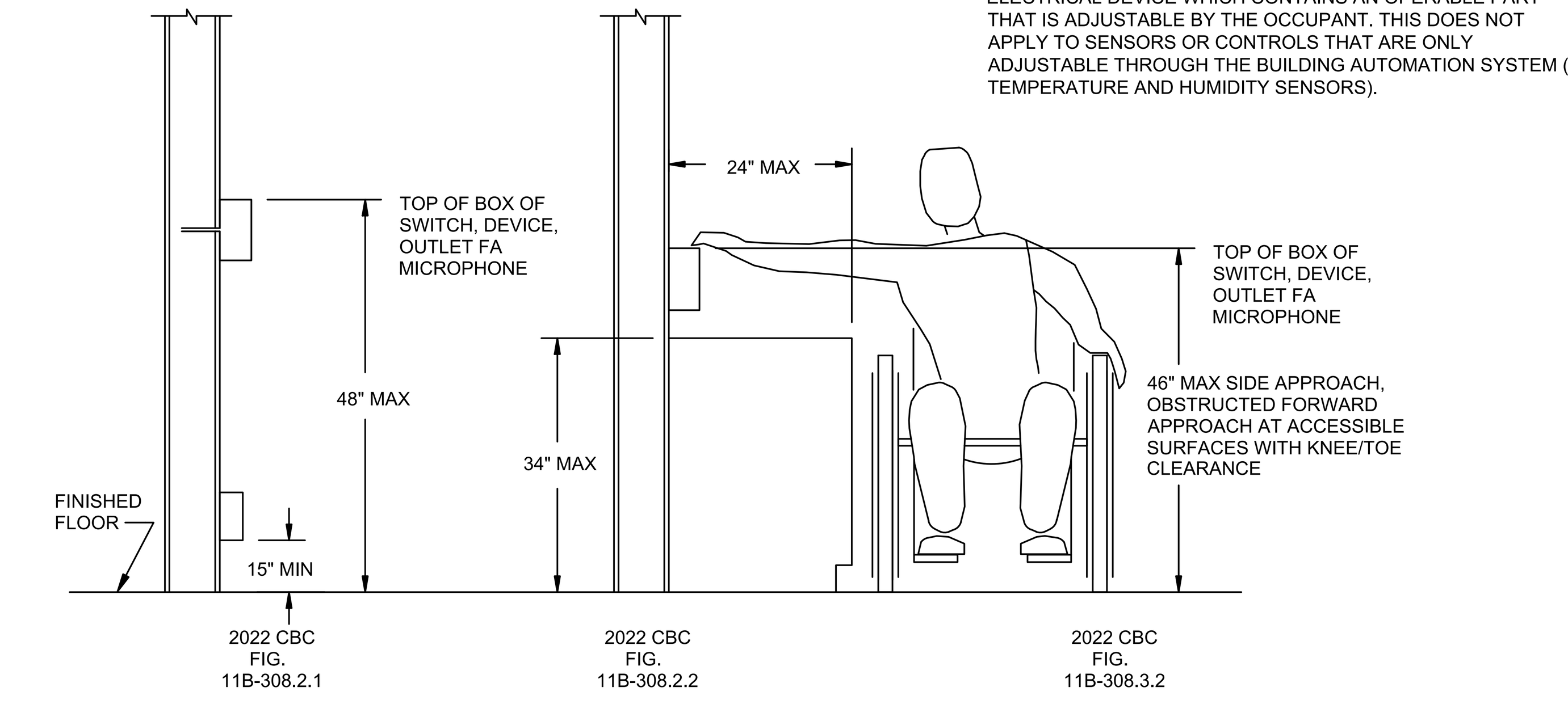
SYMBOL	DESCRIPTION
	BREAKER, LOW VOLTAGE
	FUSE
	DISTRIBUTION TRANSFORMER
CPT	CONTROL POWER TRANSFORMER
	DRAW-OUT TYPE EQUIPMENT
52	MEDIUM VOLTAGE VACUUM CIRCUIT BREAKER
	SWITCH, POWER
M	METER
	BATTERY BANK
	CURRENT TRANSFORMER

EQUIPMENT

SYMBOL	DESCRIPTION
+42"	A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE
	MOTOR
	DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED
	SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE
	MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED
	COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER
	CONTACTOR
	PANELBOARD
	SWITCHBOARD / DP
T	TRANSFORMER
	GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250
B	BELL. "WP" INDICATED OUTDOOR RATED

MOUNTING OVER OBSTRUCTION DETAIL

NOTE:
1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).



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MADISON ES -TK NEW CLASSROOM BLDG- INC.1

TWIN RIVERS UNIFIED SCHOOL DISTRICT
MADISON ELEMENTARY SCHOOL

5241 Harrison St, North Highlands, CA 95660
DSA #02-122237, PTN 76505-334

INCREMENT 1

TwinRivers UNIFIED SCHOOL DISTRICT

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-24
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
TWIN RIVERS UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
240008
DATE 04/08/2024
DRAWN BY: KG CHKED BY: SM

REVISIONS

#	DESCRIPTION	DATE

INCREMENT 1

ELECTRICAL SHEET INDEX, LEGEND, NOTES

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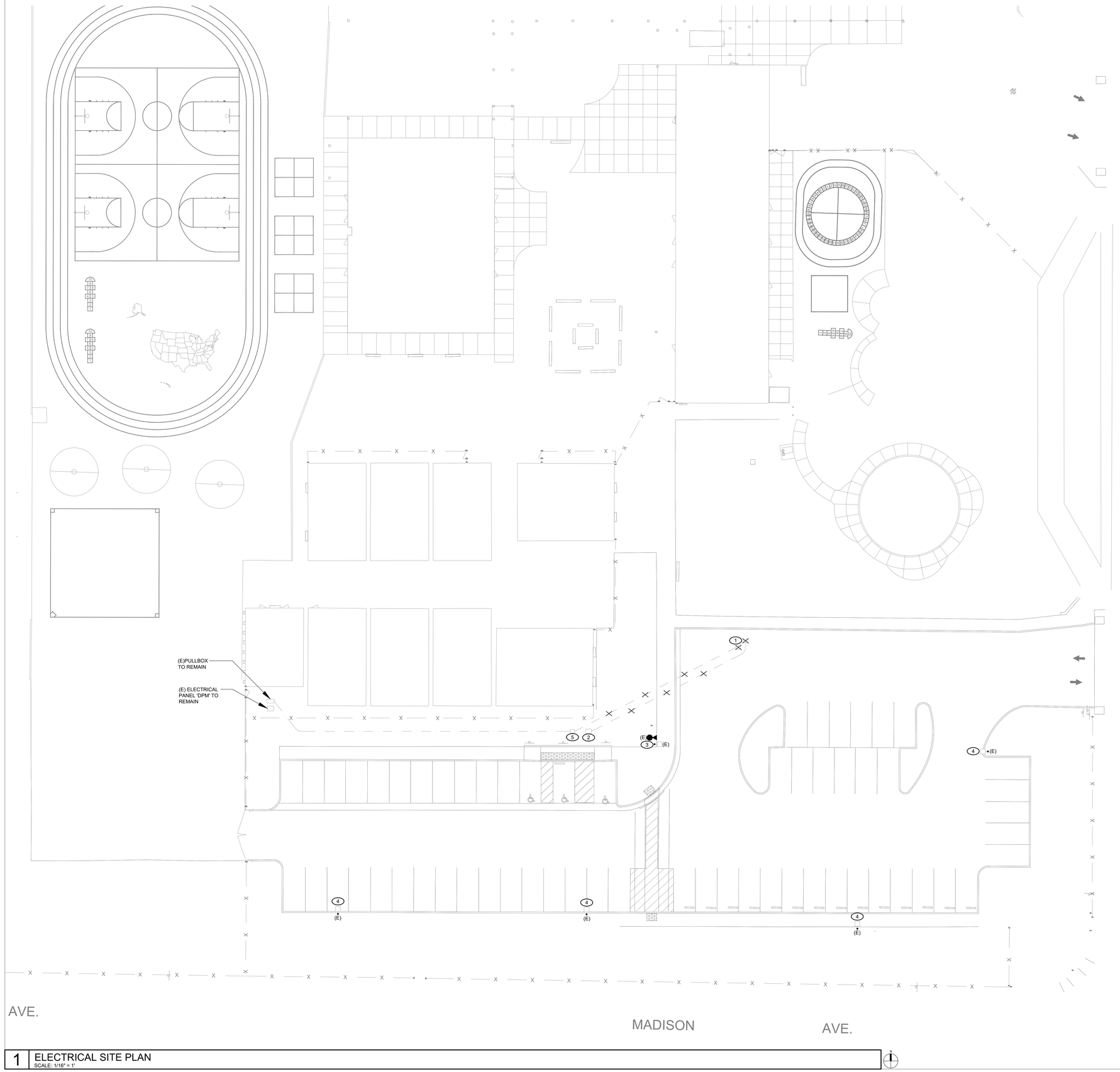
G0.03 - SITE DATA & CODE REVIEW



KEYNOTES

1. DEMOLISH EXISTING ELECTRICAL AND LOW VOLTAGE PULLBOXES AND RACEWAYS.
2. EXISTING LOW VOLTAGE PULLBOXES TO REMAIN.
3. REMOVE EXISTING LIGHT POLE AND CAMERA POLE MOUNT. PRESERVE EXISTING CIRCUITRY, LIGHT, CAMERA AND POLE MOUNTS TO BE REINSTALLED IN NEW LOCATION.
4. EXISTING LIGHT POLE TO REMAIN.
5. DEMOLISH EXISTING ELECTRICAL PULL BOX AND PRESERVE EXISTING CONDUITS AND CONDUCTORS IN PLACE. NEW PULLBOX TO BE INSTALLED PER KEYNOTE '3' ON SHEET 1.02.

1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'

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INCREMENT 1

ELECTRICAL SITE PLAN - DEMO

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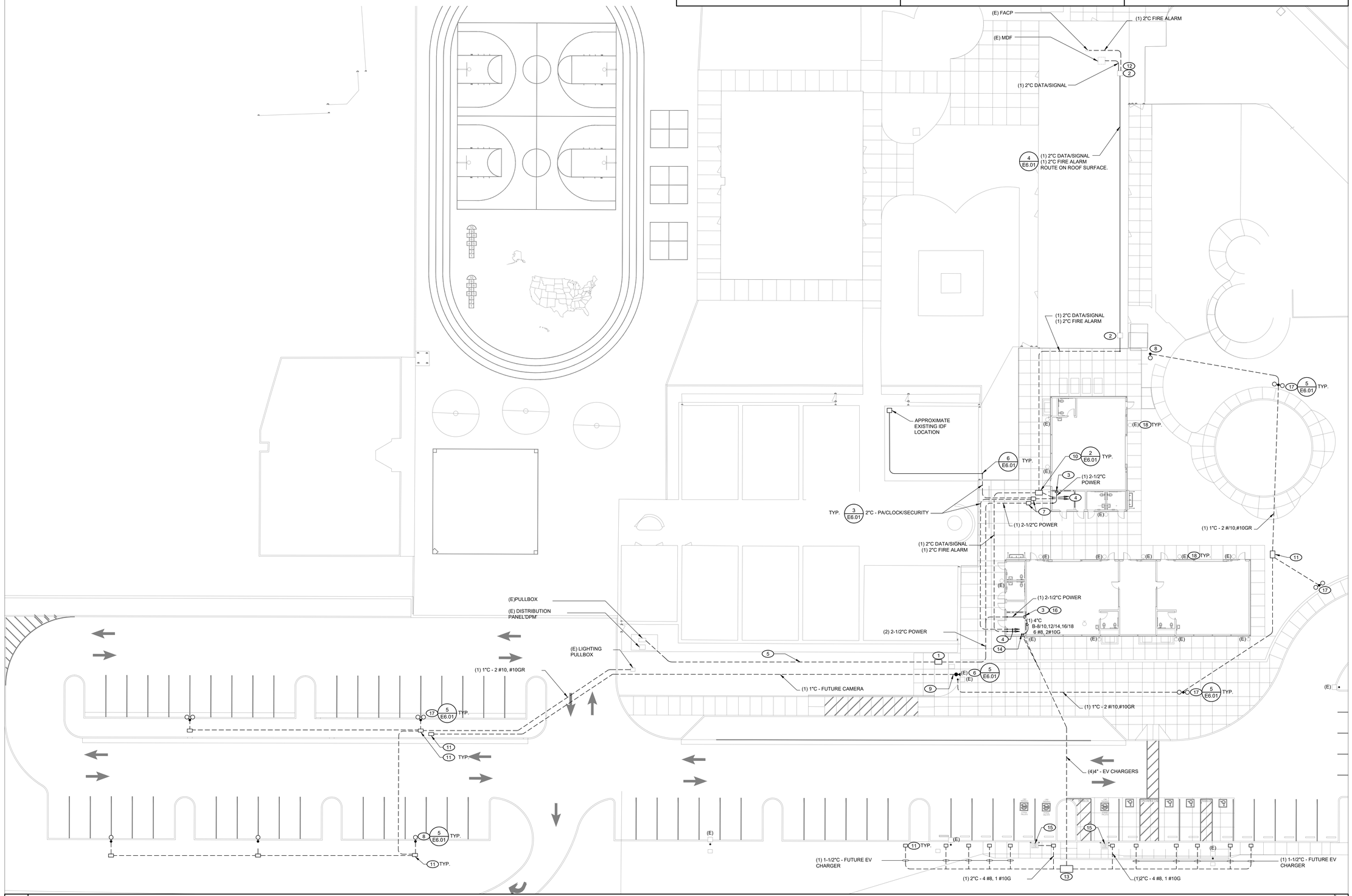
G0.03 - SITE DATA & CODE REVIEW

GENERAL NOTES

1. ALL CONDUITS SHOWN ON PLANS ARE NEW AND TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
2. ALL ELECTRICAL VEHICLE RELATED EQUIPMENT, TYPE/MODEL AND ANY RELATED SOFTWARE IS TO BE PURCHASED, SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR FOR A FULLY OPERATIONAL SYSTEM.

KEYNOTES

1. PROVIDE 'B65' UNDERGROUND 'CHRISTY' PULL BOX FOR POWER.
2. EXISTING 24X24 WP PULL CANS MOUNTED TO ROOF.
3. FUTURE WORK FOR BUILDING. PROVIDE POWER TO 225A, 3PH MODULAR ELECTRICAL PANELS.
4. PROVIDE (3)2"C TO MODULAR IDF AND FACP LOCATIONS.
5. PRESERVE EXISTING RACEWAYS IN EXISTING TRENCH AND PROVIDE (2)2-1/2"C FOR POWER FROM 'DPM' TO NEW PULLBOX.
6. RE-INSTALL PREVIOUSLY REMOVED LIGHT POLE AND CAMERA POLE MOUNT IN NEW LOCATION SHOWN AND RESTORE BOTH THE LIGHT AND THE CAMERA TO THEIR ORIGINAL WORKING CONDITIONS.
7. PROVIDE 'B16' UNDERGROUND 'CHRISTY' PULL BOX.
8. PROVIDE NEW POLE MOUNTED LIGHT FIXTURE POWERED BY EXISTING EXTERIOR LIGHTING CIRCUIT. 'CLERMONT' MODEL# CT185 L1L180-TYP5 PM K40 120V BZT
9. PROVIDE (1) 1"C FOR FUTURE CAMERA SURVEILLANCE AT NEW PARKING LOT LOCATION. CONNECT NEW CONDUIT TO EXISTING CAMERA PROVISIONS AT EXISTING CAMERA POLE MOUNT.
10. PROVIDE 'B65' UNDERGROUND 'CHRISTY' PULL BOX FOR DATA/COMMS/FA.
11. PROVIDE 'B03' UNDERGROUND 'CHRISTY' PULL BOX.
12. PENETRATE THROUGH ROOF AND ROUTE RACEWAYS DOWN TO EXISTING PANEL LOCATIONS.
13. PROVIDE 'N52' UNDERGROUND 'CHRISTY' PULL BOX FOR ELECTRICAL VEHICLE CHARGING STATIONS.
14. STUB (3)4"C INTO ELECTRICAL ROOM FOR FUTURE POWER TO ELECTRICAL VEHICLE CHARGING STATIONS.
15. PROVIDE 'CHARGE POINT' CT4000 SERIES (MODEL CT 4011) ELECTRICAL VEHICLE CHARGING STATION. SEE '11/C7.2'. SEE ALSO GENERAL NOTE '2'.
16. FUTURE WORK FOR BUILDING. PROVIDE (3) 40A/2P BREAKERS IN PANEL 'B' TO POWER NEW EV CHARGING STATIONS.
17. PROVIDE NEW POLE MOUNTED LIGHT FIXTURE (DUAL HEADED) POWERED BY EXISTING EXTERIOR LIGHTING CIRCUIT. 'CLERMONT' MODEL# CT185 L1L180-TYP5 PM2-90 K40 120V BZT
18. EXISTING WALL PACK LIGHT FIXTURE PROVIDED BY MODULAR MANUFACTURER: 'COOPER LUMARK' MODEL #AXCS2ARL-EL14W.



1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"

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PROJECT NUMBER 240008
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REVISIONS

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ELECTRICAL SITE PLAN

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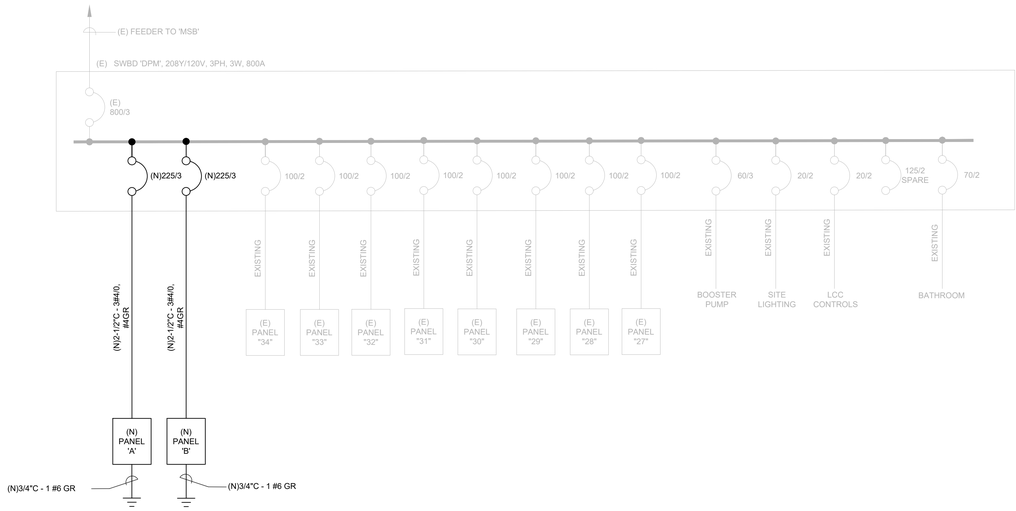
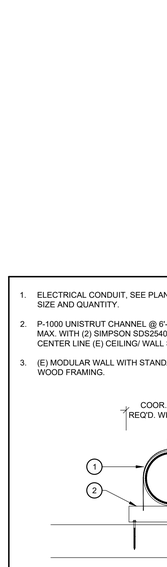
E1.02

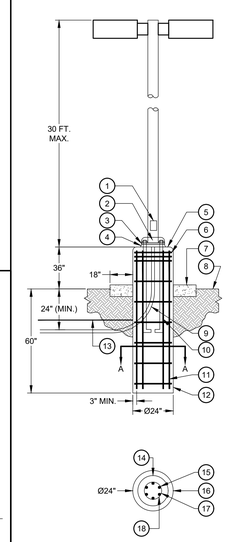


1 SINGLE LINE DIAGRAM
SCALE: NTS



1. ELECTRICAL CONDUIT, SEE PLAN FOR SIZE AND QUANTITY.
2. P-1000 UNISTRUT CHANNEL @ 6'-0" O.C. MAX. WITH (2) SIMPSON SDS25400 TO CENTER LINE (E) CEILING/ WALL STUD.
3. (E) MODULAR WALL WITH STANDARD WOOD FRAMING.

CONDUIT MOUNTED ON WALL N.T.S 6



1. HANDHOLE IN BASE OF POLE COMPLETE WITH GASKETED COVER.
2. BOND GROUND WIRE/CONDUIT TO POLE.
3. POLE BASE WITH WASHERS AND NUTS ON TOP AND BOTTOM AND FULL BASE COVER.
4. GROUT AROUND POLE BASE AFTER LEVELING.
5. RAISED CONCRETE BASE WITH EASED TOP EDGE 1/2" RADIUS CORNERS. SACK AND PATCH SURFACE TO ACHIEVE A SMOOTH UNIFORM FINISH.
6. PLACE THREE #3 TIES IN TOP 5" BASE.
7. MOW STRIP SHALL BE FLUSH WITH SIDEWALK.
8. FINISHED GRADE.
9. THREE 3/4" CONDUITS - ONE FOR LIGHTING, ONE FOR POWER & ONE FOR SIGNAL.
10. TYPICAL OF FOUR 1" x 48" GALVANIZED THREADED RODS WITH NUTS DOUBLED. STEEL GRADE FOR ANCHOR BOLTS SHALL BE F1554 GRADE 36 STEEL (YIELD STRESS 36KSI).
11. SIX #6 VERTICAL REBAR WITH #6 TIES ON 9" CENTER TO FORM CAGE.
12. CONCRETE BASE. CONCRETE TO BE MIN. 3000 PSI. IN 28 DAYS, POURED IN NATURALLY COMPACTED EARTH HOLE FREE OF LOOSE DIRT OR DEBRIS.
13. PLASTIC WARNING TAPE MARKED "ELECTRICAL" 6" ABOVE CONDUIT.
14. TYP. 18" DIAMETER ROUND STEEL CAGE.
15. TYP. 10" DIAMETER ROUND CAGE WITH 9.5" BOLT CIRCLE.
16. CONCRETE BASE.
17. #6 VERTICAL REBAR, TYPICAL OF SIX FOR EACH STEEL CAGE.
18. BOLT WITH #3 TIE, TYP.

GENERAL NOTE:

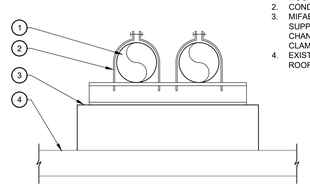
THIS DETAIL IS NOT PART OF DSA REVIEW/APPROVAL FOR STRUCTURAL SAFETY.

NOTE:
REFER TO FIXTURE SCHEDULE FOR POLE AND FIXTURE TYPES.

LIGHTING POLE MOUNTING DETAIL N.T.S 5

1. SAWCUT AND REMOVE CONCRETE OR PAVING WHERE APPLICABLE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVING, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED, REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. FINISHED GRADE.
3. ROCK FREE NATIVE BACKFILL, 90% COMPACTION.
4. #4 MINIMUM SALT-FREE SAND.
5. S = SIGNAL (INCLUDES TELECOM, CATV, FIRE ALARM, SECURITY OR SIMILAR CABLING. QTY. AND SIZE AS SHOWN ON PLANS.
6. P = POWER (THIS DETAIL APPLIES TO CONDUITS CARRYING 600V OR BELOW CONDUCTORS. HIGHER VOLTAGE HAS DIFFERENT REQUIREMENTS. QTY. AND SIZE AS SHOWN ON PLANS

TRENCH DETAIL N.T.S 3

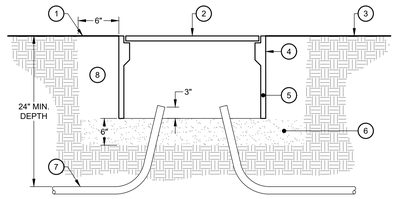


1. CONDUIT (MAX. OF 3) MOUNTED TO SUPPORT.
2. CONDUIT CLAMP. TYP.
3. MIFAB C10 RUBBER SUPPORT WITH CHANNEL AND PIPE CLAMP.
4. EXISTING FINISHED ROOF.

NOTE:
SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 8'-0" ON CENTER FOR PIPES ¾" AND 1". FOR PIPES 1 INCH AND LARGER, MAXIMUM SPAN SHALL BE 10'.

ROOF MOUNTED PIPE SUPPORT N.T.S 4

1. SET BOX FLUSH WITH FINISHED GRADE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVEMENT, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED. REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. TRAFFIC RATED COVER WHERE APPLICABLE, NON-TRAFFIC RATED REINFORCED CONCRETE COVER OTHERWISE. COVER MARKED OR INSCRIBED WITH INTENDED USE.
3. FINISHED GRADE.
4. REINFORCED CONCRETE PULLBOX. QTY AND SIZE AS SHOWN ON PLANS.
5. PROVIDE BOX EXTENSION RINGS AS REQUIRED.
6. CRUSHED GRAVEL DRAIN BASE BEDDING.
7. TYPICAL UNDERGROUND CONDUIT PER PLANS. DEPTH MIN. 24", SEE TYPICAL TRENCH DETAIL.
8. EXCAVATE A MINIMUM WIDTH EQUAL TO THE DIMENSIONS OF THE BOX PULS 6" ON ALL SIDES. BACKFILL WITH ROCK-FREE NATIVE SOIL AT 90% COMPACTION.



UNDERGROUND PULLBOX DETAIL N.T.S 2

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G H J
D E F
A B C

KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
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ELECTRICAL ONE LINE & DETAILS

E6.01