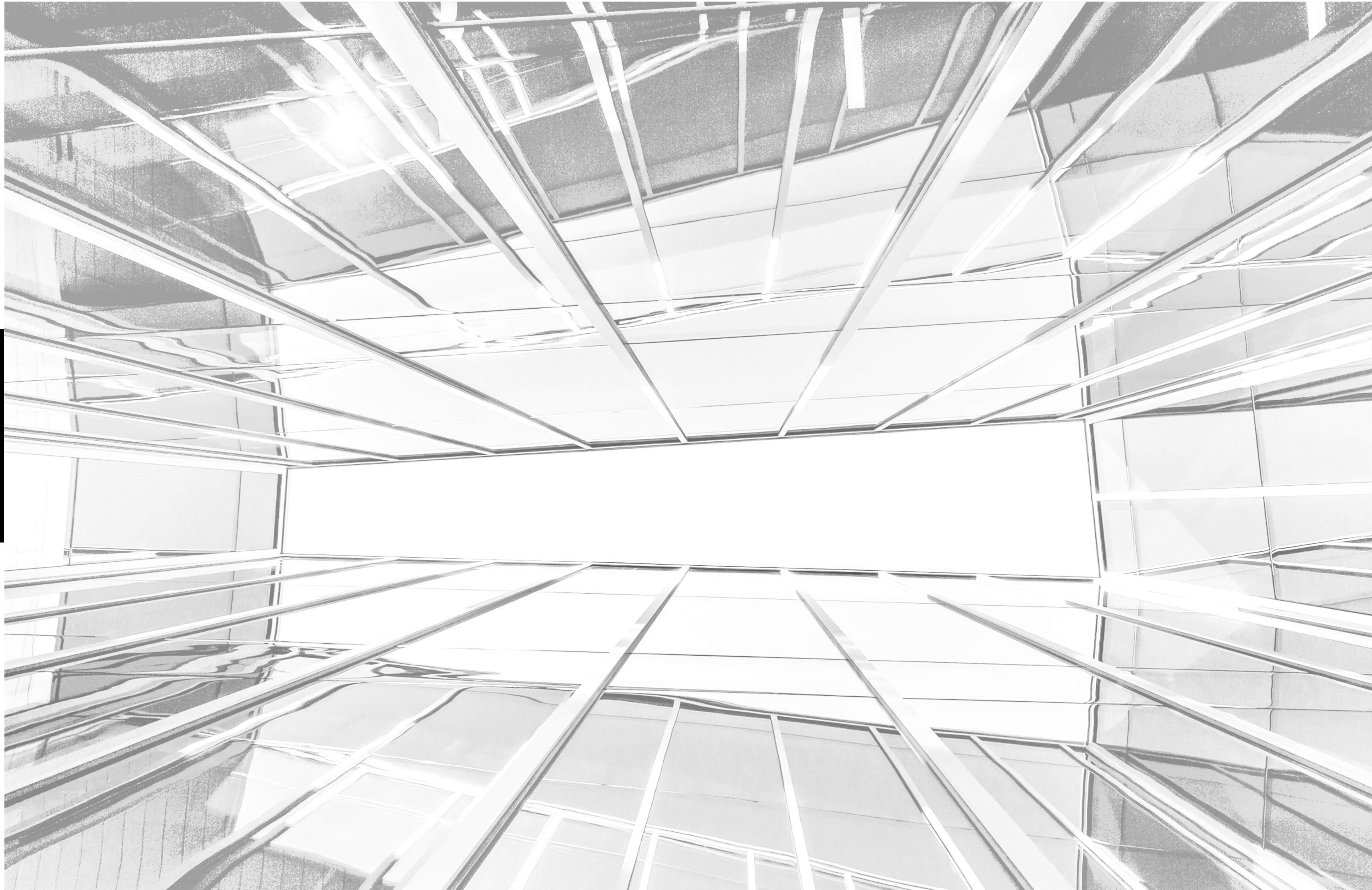


Grossmont-Cuyamaca Community College District

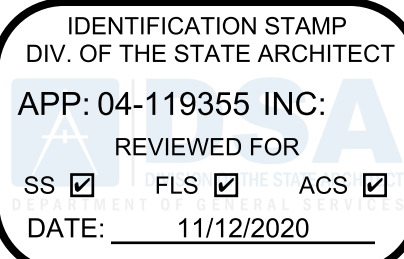
# CUYAMACA COLLEGE TRACK AND FIELD IMPROVEMENTS PH.II - SCOREBOARD

900 Rancho San Diego Parkway, El Cajon, CA 92019



VOLUME 1 OF 1

Agency  
Approval:



File No.: 37-CS

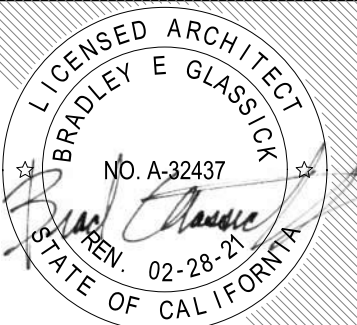


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ISSUE:

No.	Issued	Date	No.	Issued	Date
1		09/26/2018			

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CUYAMACA COLLEGE  
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EL CAJON, CA 92019

Project:

**CUYAMACA COLLEGE TRACK AND FIELD IMPROVEMENTS PH.II - SCOREBOARD**

Sheet Title:

**COVER SHEET**

CONSTRUCTION DOCUMENTS

Date: 11/12/2020

Client Project No: 5028014100

Sheet:

G0.10



## GENERAL NOTES

- CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
- THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
- PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
- VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS. INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
- ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED, REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
- PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.

### GENERAL DEMOLITION NOTES

- DEMOLITION PLANS INDICATE GENERAL AREAS OF DEMOLITION. THEY DO NOT SHOW ALL DEMOLITION DETAIL REQUIREMENTS. ALL DEMOLITION NECESSARY FOR COMPLETION OF NEW CONSTRUCTION IS A PART OF THIS CONTRACT.
- NOTE THAT ALL DEMOLITION SHALL COMPLY WITH CHAPTER 14 OF THE CALIFORNIA FIRE CODE AND CHAPTER 34 OF THE CALIFORNIA BUILDING CODE.
- THE CONTRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND THE NATURE OF THE SCOPE OF THE WORK AND DIFFICULTIES THAT ATTEND ITS EXECUTION.
- CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AND MAKE SAFE ALL FLOORS, ROOFS, WALLS, AND ADJACENT PROPERTY. AS PROJECT CONDITIONS REQUIRE, SHORING OR BRACING SHOULD BE PROVIDED TO SUPPORT LOADS AS MAY BE IMPOSED ON THE STRUCTURE OR ADJACENT STRUCTURES DURING CONSTRUCTION. ALL BRACING OR SHORING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE AS LONG AS REQUIRED TO MAINTAIN SAFETY, PATCH AND REPAIR EXISTING CONDITIONS DAMAGED DURING THE COURSE OF CONSTRUCTION.
- PROVIDE TEMPORARY BARRICADES, SUPPORTS, AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT THE OWNERS' PROPERTY, PERSONNEL, AND THE GENERAL PUBLIC FROM INJURY. PROVIDE INTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF STRUCTURAL ELEMENTS. ITEMS TO BE DEMOLISHED, ADJACENT FACILITIES, OR ANY ITEM TO REMAIN. CEASE OPERATION AND NOTIFY THE OWNER IMMEDIATELY IF THE SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT STRUCTURE UNTIL DETERMINATION IS MADE FOR CONTINUING OPERATIONS.
- THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, C.C.R., A BEFORE THE AFFECTED CONSTRUCTION IS FABRICATED OR PUT IN PLACE.
- EXECUTE THE WORK IN A CAREFUL, ORDERLY, AND SYSTEMATIC MANNER, WITH THE LEAST POSSIBLE DISTURBANCE TO THE OCCUPANTS OF SURROUNDING AND ADJACENT BUILDINGS. USE SUCH METHODS AS REQUIRED TO COMPLETE THE WORK INDICATED WITH A MINIMUM OF DISTURBANCE TO ADJOINING CONSTRUCTION, STRUCTURAL ELEMENTS, AND ADJACENT CONSTRUCTION TO REMAIN IN PLACE.
- PROVIDE TEMPORARY WATERTIGHT AND SECURE ENCLOSURES AT ANY NEW OR EXISTING OPENING AT ROOF OR EXTERIOR WALLS.
- REMOVE DEBRIS AS THE WORK PROGRESSES. MAINTAIN THE PREMISES IN A NEAT AND CLEAN CONDITION. COORDINATE HANDLING AND REMOVAL OF WASTE MATERIALS WITH THE OWNER.
- ALL DEMOLITION AND REMOVAL SHALL BE BROUGHT TO A NATURAL STOPPING POINT. ANY MATERIAL REMOVED BY MISTAKE OR IN EXCESS OF REQUIREMENTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. PROTRUDING MATERIALS SHALL BE CUT BACK 2" BEHIND WALL, FLOOR, OR CEILING SURFACES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF, AND PROTECT ALL SURFACE AND SUBSURFACE UTILITIES.

### DSA GENERAL NOTES

- ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OR REGULATION (CCR).
- THE SCOPE OF WORK IS INDICATED ON SHEET G0.11.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. SEE LIST OF DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETEIORATION 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 BEFORE THE AFFECTED CONSTRUCTION IS FABRICATED OR PUT IN PLACE.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL, HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

## CODES

### PARTIAL LIST OF APPLICABLE CODES

2019	California Administrative Code (CAC), Part 1, Title 24 C.C.R.
2019	California Building Code (CBC), Part 2, Title 24 C.C.R. (2018 International Building Code Volumes 1-2 and 2019 California Amendments)
2019	California Electrical Code (CEC), Part 3, Title 24 C.C.R. (2017 National Electrical Code and 2019 California Amendments)
2019	California Mechanical Code (CMC) Part 4, Title 24 C.C.R. (2018 Uniform Mechanical Code and 2019 California Amendments)
2019	California Plumbing Code (CPC), Part 5, Title 2 C.C.R. (2018 Uniform Plumbing Code and 2019 California Amendments)
2019	California Energy Code (CEC), Part 6, Title 24 C.C.R. (2018 International Fire Code and 2019 California Amendments)
2019	California Green Building Standards Code (CALGreen), Part 11, Title 24 C.C.R.
2019	California Referenced Standards, Part 12, Title 24 C.C.R.

Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.

### PARTIAL LIST OF APPLICABLE STANDARDS

ADDITIONAL NFPA APPLICABLE CODES SHALL BE LISTED IN THE PROJECT SPECIFICATION SECTIONS OF THE PROJECT MANUAL.		
NFPA 13	Automatic Fire Sprinkler Systems	2016 Ed.
NFPA 14	Standpipe and Hose Systems	2016 Ed.
NFPA 17	Dry Chemical Extinguishing Systems	2017 Ed.
NFPA 17a	Wet Chemical Extinguishing Systems	2017 Ed.
NFPA 20	Stationary Pumps for Fire Protection	2016 Ed.
NFPA 22	Water Tanks for Private Fire Protection	2013 Ed.
NFPA 24	Private Fire Mains & Their Appurtenances	2016 Ed.
NFPA 25	Standard for Inspection, Testing and Maintenance of Water-Based Fire Protection Systems	2013 Ed.
NFPA 72	National Fire Alarm & Signaling Code	2016 Ed.
NFPA 80	Fire Doors and Other Opening Protectives	2016 Ed.
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Ed.
ICC 300	ICC Standards on Bleachers, Folding and Telescoping Seating and Grand Stands	2017 Ed.
UL 300	Fire Testing of Fire Extinguishing Systems for Protection of Unobstructed Cooking Areas	2005 Ed. (R2010)
UL 464	Audible Signal Appliances	2003 Ed.
UL 521	Heat Detectors for Fire Protective Signaling Systems	1999 Ed.
UL 1971	Standard for Signaling Devices for the Hearing Impaired	2002 Ed. (R2010)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

## PROJECT DESCRIPTION

- NEW SCOREBOARD AND RELATED UTILITY SITE WORK.

## SHEET INDEX

TOTAL NUMBER OF SHEETS - 29

### ARCHITECT

#### HMC Architects

G0.10	COVER SHEET
G0.11	PROJECT DATA SHEET & INDEX
G1.10	CAMPUS PLAN

### STRUCTURAL

#### Saiful Bouquet

S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	ABBREVIATIONS AND SYMBOLS
S0.10	TYPICAL CONCRETE DETAILS
S0.11	TYPICAL DETAILS
S2.01	FOUNDATION PLAN AND ELEVATION DETAILS
S3.01	

### CIVIL

#### Snipes-Dye Associates

C1.00	TITLE AND NOTE SHEET
C1.01	DETAIL SHEET
C2.00	EXISTING CONDITION PLAN
C3.00	GRADING PLAN KEY MAP
C3.01	GRADING & UTILITY PLAN
C3.02	GRADING PLAN
C3.03	GRADING PLAN
C4.00	EROSION CONTROL PLAN
C4.01	EROSION CONTROL PLAN

### ARCHITECT

#### HMC Architects

A1.10	SITE PLAN - DEMOLITION
A1.11	SITE PLAN - REMODEL
A10.01	DETAILS

### ELECTRICAL

#### Johnson Consulting Engineers

E1.01	ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES
E1.11	ENLARGED SITE PLAN
E1.2	ENLARGED PLANS
E1.3	ONE-LINE DIAGRAM AND DETAILS
E1.4	SCOREBOARD/CONTROL STATION COMM/CONTROL WIRING DIAGRAM
E1.5	ELECTRICAL DETAILS
E1.6	PANEL SCHEDULES

## SYMBOLS

**NORTH ARROW**  
OVERLAY ARROW INDICATES TRUE NORTH  
SHADED AREA INDICATES PLAN NORTH

**SECTION CALLOUT**  
INDICATES A SIMILAR CONDITION  
LOCATION ON SHEET  
SHEET WHERE SECTION IS DRAWN

**DETAIL CALLOUT**  
INDICATES A SIMILAR CONDITION  
LOCATION ON SHEET  
SHEET WHERE SECTION IS DRAWN

**KEYNOTE**  
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

**DEMOLITION KEYNOTE**  
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

## NUMBER SYSTEM

DISCIPLINE	SHEET TYPE	BUILDING LETTER, SEGMENT, (USER DEFINED)
G GENERAL	0 CODE ANALYSIS/NOTES	
CIVIL	1 SITE PLAN	
L LANDSCAPE	2 FLOOR PLAN	
A ARCHITECTURE	3 CEILING PLAN	
I INTERIOR	4 ROOF PLAN	
Q EQUIPMENT	5 EXTERIOR ELEVATIONS	
S STRUCTURAL	6 SECTIONS	
P PLUMBING	7 ENLARGED PLANS	
M MECHANICAL	8 INTERIOR ELEVATIONS	
E ELECTRICAL	9 SCHEDULES	
F FIRE ALARM	10 DETAILS	
T TELECOM		
AV AV EQUIPMENT		
K KITCHEN		
FP FIRE PROTECTION		

DISCIPLINE	SHEET TYPE	SERIES / ORDER	USER DEFINED (IF APPLICABLE)
A	A	1	1
A	A	1	1
A	A	1	1
A	A	1	1

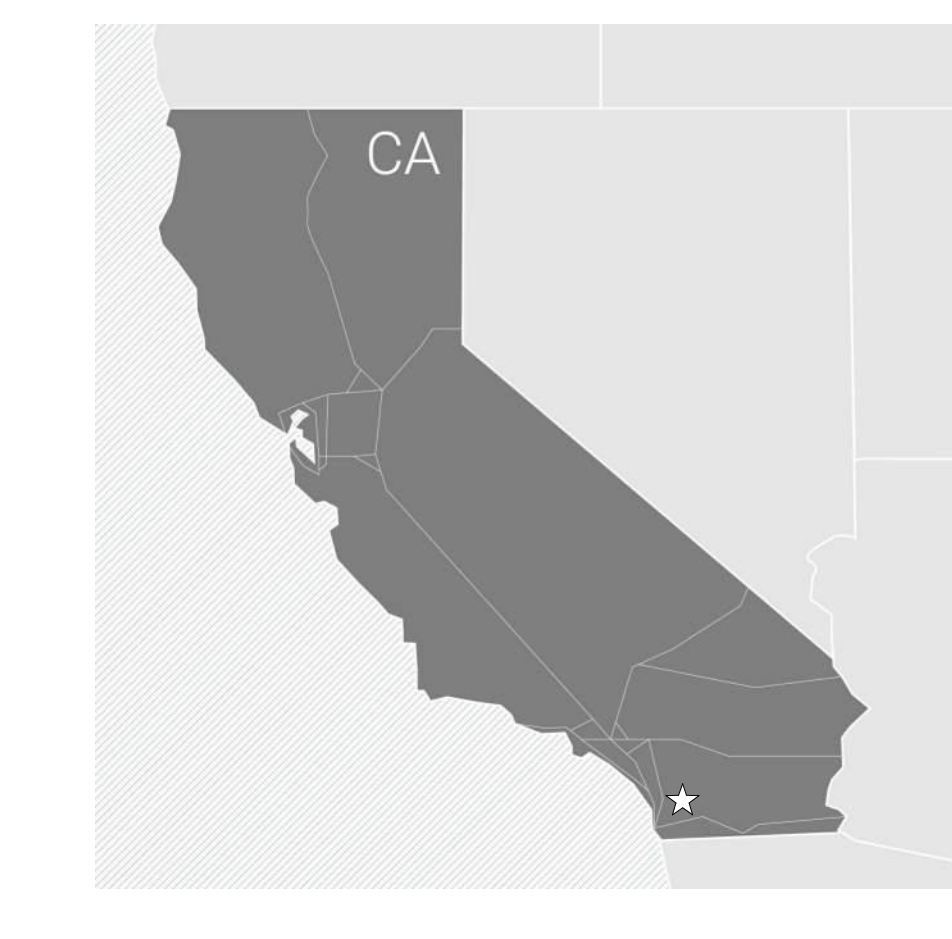
BUILDING LETTER (IF APPLICABLE) FLOOR LEVEL OR SEQUENTIAL ORDER SEGMENT (IF APPLICABLE)

(E) EXISTING	GL GLASS TYPE
AB ANCHOR BOLT	GLB GLUE LAMINATED BEAM
AC PAVING ASPHALTIC CONCRETE PAVING	GYP PLAS GYPSUM PLASTIC
ACC ACCESSIBLE	H REF REFLECTED (IVE)
ACP ACOUSTICAL CEILING PANEL	HREF REFLECTED (IVE)
ACT ACOUSTICAL CEILING TILE	HDR REFRIGERATOR
ADJ ADJACENT/ADJUSTABLE	REINF REINFORCE/REINFORCED/REINFORCEMENT
AGG AGGREGATE	REIN REMOVE
AHU AIR HANDLING UNIT	RH ROUND HEAD
ARCH ARCHITECTURAL	RHS ROUND HEAD SCREW
ATT ATTENUATION	RO ROUGH OPENING
AUTO AUTOMATIC	ROW RIGHT OF WAY
BLOCK BLOCKING	SCH SCHEDULE (FOR PIPE)
BUR BUILT UP ROOFING	SCHED SCHEDULE / SCHEDULING
CABIN CABINET	SD STORM DRAIN / SOAP DISPENSER
CF CUBIC FEET	SECT SECTION
CFOI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	SFT SAFETY GLASS
CFOI CONTRACTOR FURNISHED, OWNER INSTALLED	SHT SHEET
CJ CORNER GUARD	SHTG SHEATHING
CG CONTROL JOINT	SMS SHEET METAL SCREW
CL CENTER LINE	SND SANITARY NAPKIN DISPOSAL
CLF CHAIN LINK FENCE	SOV SHUT OFF VALVE
CLR CLEAR	SPEC SPECIFICATIONS
CMU CONCRETE MASONRY UNIT	SS STAINLESS STEEL
CO CLEANO	STC SOUND TRANSMISSION CLASS
COL COLUMN	STEEL STEEL
COMP COMPRESSION / COMPOSITE	STL STEEL
COORD COORDINATE	STSM SELF TAPPING SHEET METAL SCREW
CORR CORRUGATED	SUSP SUSPENDED
CT CERAMIC TILE	SYN SHEET VINYL
CTSK COUNTER SKUNK	SYM SYMMETRICAL
CW CURTAIN WALL	T TREAD
DEPR DEPRESSION / DEPRESSION	T&B TOP AND BOTTOM
DF DRINKING FOUNTAIN	TOP TOP OF
DM DIMENSION	TOC TOP OF CURB / CONCRETE
DSP DISPENSER	TOP TOP OF PARAPET
DS DOWNSPOUT	TOS TOP OF STEEL
DTL DETAIL	TOW TOP OF WALL
DW DISHWASHER	UC TOILET PAPER DISPENSER
EW EACH WAY	TS TACKLE SURFACE
EFS EXTERIOR INSULATION FINISH SYSTEM	UNO UNDER CABINET (OR COUNTER UNLESS NOTED OTHERWISE)
EJ EXPANSION JOINT	UR URINAL
ELEC ELECTRICAL	VAC VACUUM
ELEV ELEVATION / ELEVATOR	VB VAPOR BARRIER
ENCL ENCLOSE / ENCLOSURE	VCT VINYL COMPOSITION TILE
EOS EDGE OF SLAB	VTR VENT THROUGH ROOF
EP ELECTRICAL PANEL	VWC VINYL WALL COVERING
EQ EQUAL	W / WITH
ESC EXCUT/CHRON	W/O WITHOUT
EWG ELECTRIC WATER COOLER	WB WOOD BASE
EXP EXPOSED	WC WATER CLOSET
FA FIRE ALARM	WD WOOD
FD FLOOR DRAIN	WDW WINDOW
FDC FIRE DEPARTMENT CONNECTION	WGT WEIGHT
FE FIRE EXTINGUISHER	WH WATER HEATER
FEC FIRE EXTINGUISHER W/ CABINET	WP WATERPROOFING/WALL PROTECTION
FF FINISH FLOOR	WR WATER RESISTANT
FG FINISH GRADE	WRGB WATER RESISTANT GYPSUM BOARD
PH FIRE HYDRANT	WS WOOD SCREW
PHC FIRE HOSE CABINET	WSC WAINSCOT
FSH FLAT HEAD SCREW	WWF WELDED WIRE FABRIC
FINISH FINISH	
FLR FLOOR	
FOC FACE OF CONCRETE	
FOF FACE OF FINISH	
FOM FACE OF MASONRY	
FS FACE OF STUD	
FP FIREPROOFING	
FR FIRE RATED	
FRG FIRE RATED GLASS	
FRP FIBERGLASS REINFORCED PLASTIC	
FRT FIRE RETARDANT TREATED	
FS FINISH SURFACE	
FTG FOOTING	
GB GRAB BAR	
GRFC GLASS FIBER REINFORCED CONCRETE	

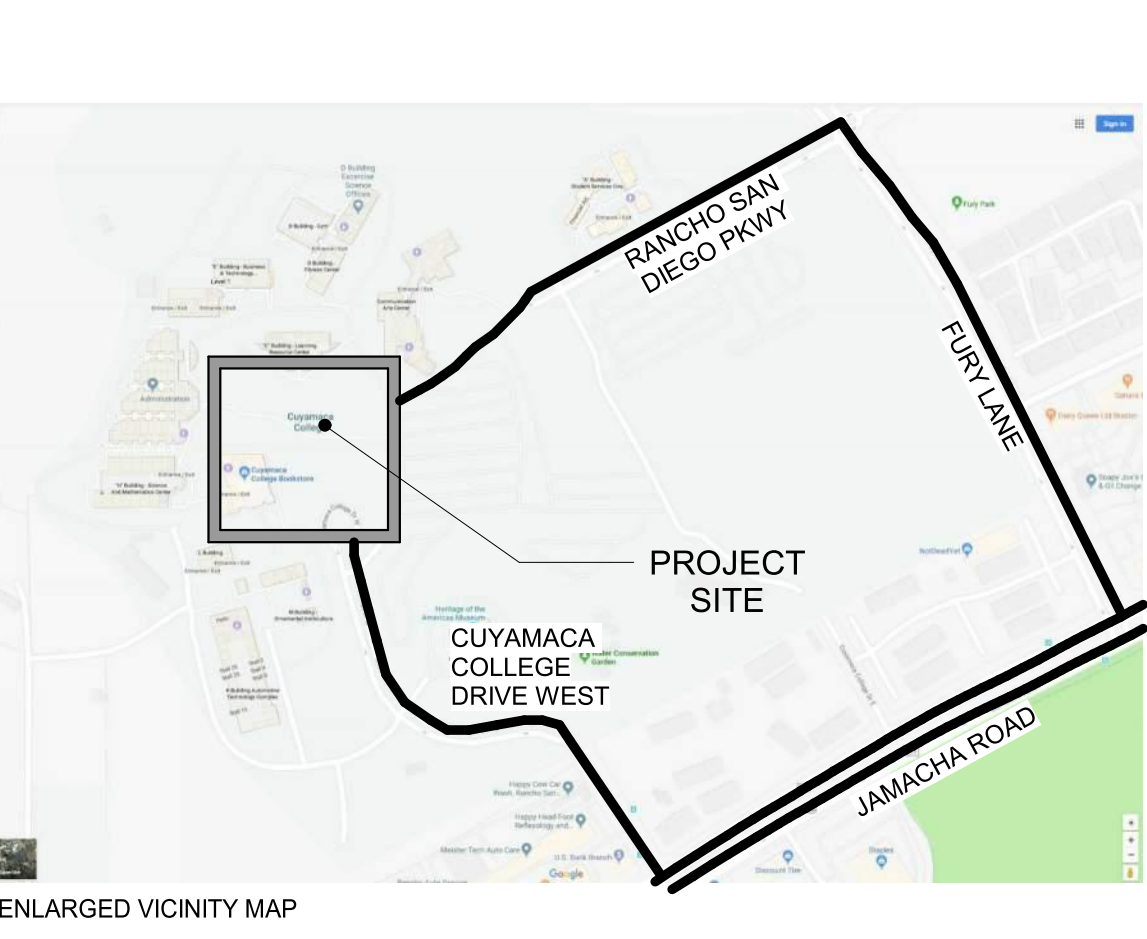
GL GLASS TYPE	RB RESILIENT BASE
GLB GLUE LAMINATED BEAM	RD ROOF DRAIN
GYP PLAS GYPSUM PLASTIC	RECEPT RECEPTACLE
H REF REFLECTED (IVE)	REF REFERENCE
HDR REFRIGERATOR	REFL REFLECTED (IVE)
REINF REINFORCE/REINFORCED/REINFORCEMENT	REIN REINFORCED (IVE)
REIN REMOVE	REIN REINFORCE/REINFORCED/REINFORCEMENT
RH ROUND HEAD	REIN REINFORCEMENT
RHS ROUND HEAD SCREW	REIN REINFORCEMENT
RO ROUGH OPENING	REIN REINFORCEMENT
ROW RIGHT OF WAY	REIN REINFORCEMENT
SCH SCHEDULE (FOR PIPE)	REIN REINFORCEMENT
SCHED SCHEDULE / SCHEDULING	REIN REINFORCEMENT
SD STORM DRAIN / SOAP DISPENSER	REIN REINFORCEMENT
SECT SECTION	REIN REINFORCEMENT
SFT SAFETY GLASS	REIN REINFORCEMENT
SHT SHEET	REIN REINFORCEMENT
SHTG SHEATHING	REIN REINFORCEMENT
SMS SHEET METAL SCREW	REIN REINFORCEMENT
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SYM SYMMETRICAL	REIN REINFORCEMENT
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UR URINAL	REIN REINFORCEMENT
VAC VACUUM	REIN REINFORCEMENT
VB VAPOR BARRIER	REIN REINFORCEMENT
VCT VINYL COMPOSITION TILE	REIN REINFORCEMENT
VTR VENT THROUGH ROOF	REIN REINFORCEMENT
VWC VINYL WALL COVERING	REIN REINFORCEMENT
W / WITH	REIN REINFORCEMENT
W/O WITHOUT	REIN REINFORCEMENT
WB WOOD BASE	REIN REINFORCEMENT
WC WATER CLOSET	REIN REINFORCEMENT
WD WOOD	REIN REINFORCEMENT
WDW WINDOW	REIN REINFORCEMENT
WGT WEIGHT	REIN REINFORCEMENT
WH WATER HEATER	REIN REINFORCEMENT
WP WATERPROOFING/WALL PROTECTION	REIN REINFORCEMENT
WR WATER RESISTANT	REIN REINFORCEMENT
WRGB WATER RESISTANT GYPSUM BOARD	REIN REINFORCEMENT
WS WOOD SCREW	REIN REINFORCEMENT
WSC WAINSCOT	REIN REINFORCEMENT
WWF WELDED WIRE FABRIC	REIN REINFORCEMENT

NOTE: OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

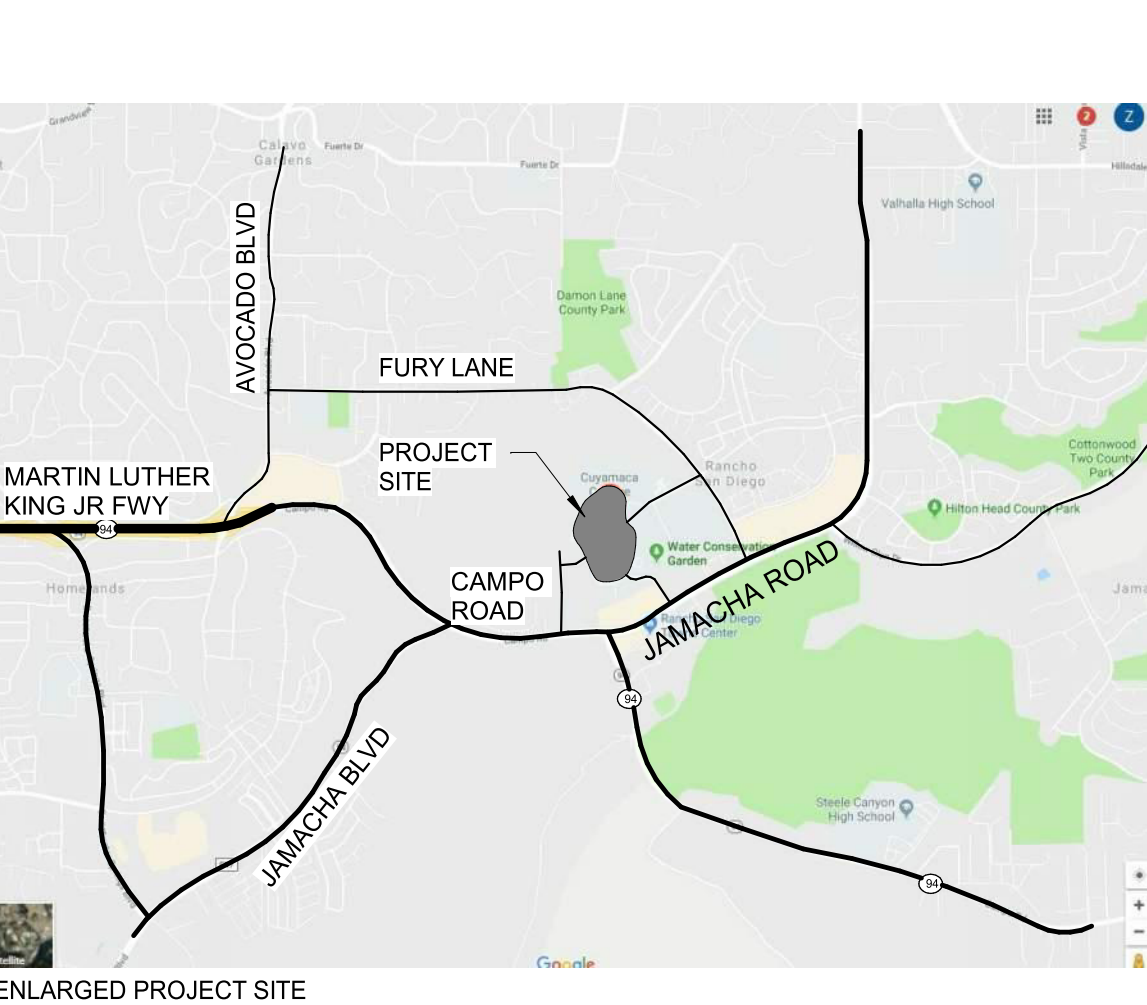
## STATE MAP



## VINCINITY MAP

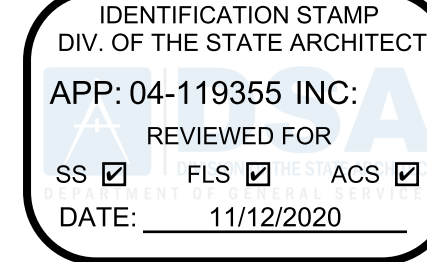


## ENLARGED PROJECT SITE



Agency Approval:

File No.: 37-C5



CUYAMACA COLLEGE

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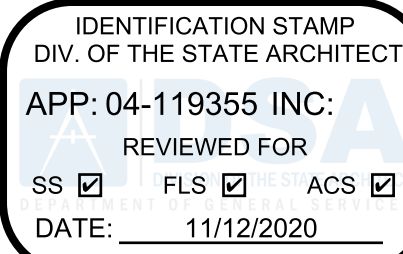
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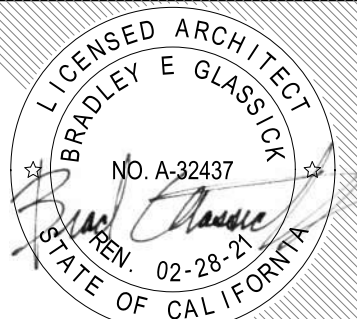


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Facility:  
GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT  
CUYAMACA COLLEGE  
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EL CAJON, CA 92019  
Project:  
CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

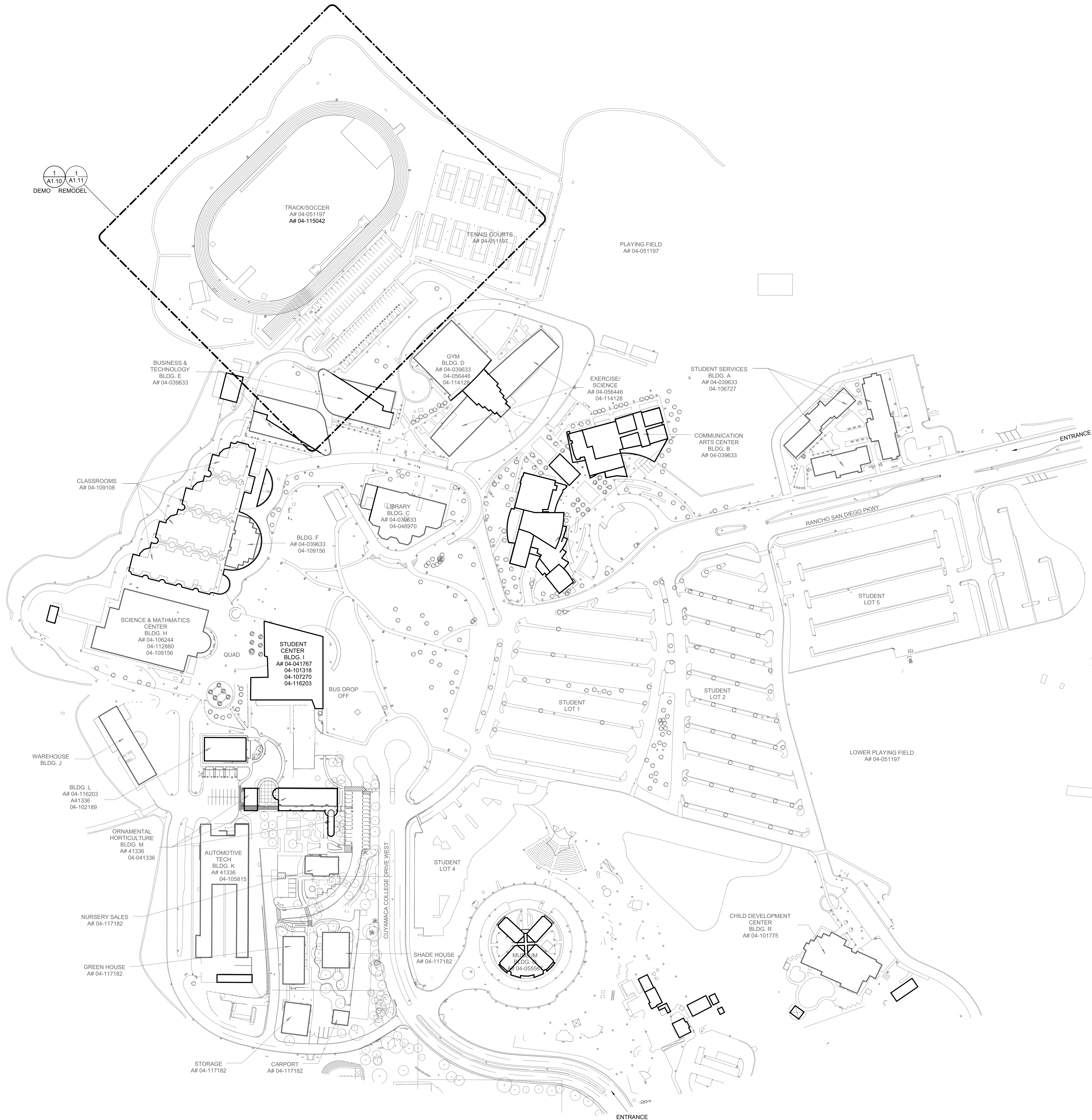
Sheet Title:  
CAMPUS PLAN

CONSTRUCTION DOCUMENTS

Date: 11/12/2020 Client Project No: 5028014100

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## GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF ALL EXISTING AND PROPOSED IMPROVEMENTS TO BE MET BY WORK TO BE DONE PRIOR TO CONSTRUCTION. IN THE EVENT THAT THE ALIGNMENT IS IN CONFLICT WITH THE WORK TO BE DONE, CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE CONSTRUCTION MANAGER OF THE CONFLICT.
  - THE LOCATION OF EXISTING UNDERGROUND FACILITIES ARE INDICATED ON THE PLANS AS A RESULT OF A SEARCH OF THE AVAILABLE RECORDS. LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR IS DIRECTED TO REQUEST UTILITY MARK OUT AND TO EXCAVATE AND VERIFY LOCATIONS PRIOR TO EXCAVATIONS. ENGINEER OF WORK DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF ANY UTILITY LOCATIONS INDICATED ON THE PLANS.
  - ENGINEER OF WORK IS NOT RESPONSIBLE FOR JOB SAFETY.
  - CONTRACTOR SHALL SUBMIT A WORK PLAN TO CAMPUS FOR REVIEW & APPROVAL. WORK PLAN SHALL INCLUDE, BUT NOT LIMITED TO, WORK HOURS, LIMIT OF WORK, ADA PATH OF TRAVEL, FENCE LOCATIONS, SIGNAGE.
  - CONTRACTOR SHALL MAINTAIN SAFE AND THROUGH PASSAGE ACCESS TO ALL BUILDINGS & ADA PATH OF TRAVEL AT ALL TIMES. CAMPUS SHALL BE NOTIFIED 14 DAYS PRIOR TO ANY ACCESS CLOSURE DUE TO CONSTRUCTION ACTIVITIES.
  - CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEY STAKING AS A PART OF CONTRACT.
  - STOCKPILING OF MATERIALS OUTSIDE OF LIMIT OF WORK SHALL NOT BE ALLOWED.
  - THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) ADOPTS THE 2016 INTERNATIONAL BUILDING CODE (IBC).
- ## GRADING NOTES
- GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE UPDATED GEOTECHNICAL REPORT PREPARED BY GROUP DELTA CONSULTANTS INC. (GROUP DELTA, 2020A), REPORT OF GEOTECHNICAL INVESTIGATION, CUYAMACA COLLEGE TRACK & FIELD IMPROVEMENTS, PHASE 2, DATED FEBRUARY 7, 2020.
  - SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (CURRENT EDITION), THESE PLANS AND THE PROJECT SPECIFICATIONS.
  - THE MINIMUM GRADIENT FOR GRADED SWALES SHALL BE 1%.
  - THE MINIMUM GRADIENT OF FINISHED GRADE AWAY FROM STRUCTURES SHALL BE 1%, UNLESS OTHERWISE NOTED ON PLANS.
  - FINISH GRADE SHALL BE DETERMINED AS THE ELEVATION OF ANY LANDSCAPE MATERIAL PLACED ON GRADE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERCUT GRADE TO ALLOW FOR PLACEMENT OF LANDSCAPE MATERIALS.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HANDLE ANY EXPORT OF EXCESS MATERIAL FOR THE SITE. RESPONSIBILITY SHALL INCLUDE ALL PERMITS AND APPROVALS BY THE APPROPRIATE AGENCIES. THE OWNER AND ENGINEER OF WORK WILL NOT ASSUME ANY RESPONSIBILITY FOR THE REMOVAL, TRANSPORTATION OR PLACEMENT OF EXCESS MATERIAL.
  - FINISH GRADE SHALL BE INSPECTED BY THE ENGINEER OF WORK AND VERIFIED THAT THE ACTUAL GRADING IS REPRESENTATIVE OF THE PROPOSED GRADING AND THAT THE MINIMUM SLOPE GRADIENTS EXIST.
  - THE MAXIMUM SLOPE GRADIENT SHALL BE 2:1 (HORIZONTAL TO VERTICAL).
  - CONCRETE CURBS AND GUTTERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REFERENCED DETAIL AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) (CURRENT EDITION).
  - SAW CUTTING OF EXISTING IMPROVEMENTS SHALL PROVIDE A CLEAN VERTICAL EDGE VOID OF CHIPPING AND SHALL BE MADE AT THE NEAREST JOINT.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY REMOVAL OF ALL SPOIL MATERIALS CREATED BY THE DEMOLITION OF EXISTING IMPROVEMENTS.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING IMPROVEMENTS. CONTRACTOR SHALL IN ADVANCE OF CONSTRUCTING IMPROVEMENTS, NOTIFY THE ENGINEER OF WORK OF ANY CONFLICTS BETWEEN THE PROPOSED DESIGN AND EXISTING IMPROVEMENTS. THE ENGINEER OF WORK SHALL REVIEW THE CONFLICTS AND MAKE RECOMMENDATIONS FOR RESOLUTION IN A TIMELY MANNER.
13. SIDEWALK FINISHES AND JOINT DETAILS SHALL MATCH EXISTING ADJACENT FINISHES FLUSH.

## EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ALL REQUIREMENTS OF THE COUNTY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPOP) FOR CONSTRUCTION LEVEL BMP'S AND FOR PERMANENT POST CONSTRUCTION TREATMENT CONTROL PERMANENT BMP'S, THE WATER QUALITY TECHNICAL REPORT (WQTR) IF APPLICABLE.
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 100' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

## EROSION AND SEDIMENT CONTROL NOTES (CONT.)

- CONTRACTOR SHALL PROTECT SPOIL AND MATERIAL STORAGE PILES FROM MOVEMENT OF SILT VIA WATER AND WIND EROSION.
- UPON COMPLETION OF GRADING, CONTRACTOR SHALL STABILIZE AREA WITH LANDSCAPING OR HYDROSEED AND RELOCATE SILT FENCE TO THE PERIMETER OF THE WORK AREA.
- CONTRACTOR TO INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT AT POINT OF ACCESS TO CONSTRUCTION SITE TO REDUCE THE TRACKING OF MUD AND DIRT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES & IMPLEMENTATION AS A PART OF EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION REPAIR.

## MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

- STABILIZATION ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/2 INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOTI) IS FILED.
- STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/2 INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.
- OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

## PERMANENT POST-CONSTRUCTION BMP NOTES

- OPERATION AND MAINTENANCE SHALL BE SECURED BY AN EXECUTED AND RECORDED STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT (SWMDCMA), OR ANOTHER MECHANISM APPROVED BY THE CITY ENGINEER, THAT ASSURES ALL PERMANENT BMP'S WILL BE MAINTAINED IN PERPETUITY, PER THE LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS.
- PERMANENT POST CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY ENGINEER OR RESIDENT ENGINEER AND THE ENGINEER OF WORK.

## ABBREVIATIONS

A.C., ASPH	ASPHALT CONCRETE PAVEMENT	NO.	NUMBER
BM.	BENCH MARK	OC	ON CENTER
B.P.	BOTTOM OF PIPE	P.A.	PEDESTRIAN ACCESS
BLDG.	BUILDING	PH	POTHOLE
CB	CATCH BASIN	P.O.C.	POINT OF CONNECTION
CL	CENTERLINE	P.O.T.	ADA COMPLIANT PATH OF TRAVEL
C.O.	CLEANOUT	PSF	PER SQUARE FOOT
CONC.	CONCRETE	PSI	PER SQUARE INCH
COMP.	COMPACTION	PVC	POLYVINYL CHLORIDE
C.S.F.M.	CALIFORNIA STATE FIRE MARSHALL	R	RADIUS
DEPT.	DEPARTMENT	RD	ROOF DRAIN
DIA.	DIAMETER	REL.	RELATIVE
(E), EXIST.	EXISTING	S, SWR	SEWER
FF	FINISH FLOOR	SMH	STEAM MANHOLE
FG	FINISH GRADE	S.F.	SQUARE FEET
FH	FIRE HYDRANT	SHT.	SHEET
FL	FLOW LINE	SD	STORM DRAIN
FT.	FOOT	SDMH	STORM DRAIN MANHOLE
G.V.	GATE VALVE	SDR	STANDARD DIMENSION RATIO
G	GUTTER	STD	STANDARD
GB	GRADE BREAK	TC	TOP OF CURB
HDPE	HIGH DENSITY POLYETHYLENE	TG	TOP OF GRATE
HP	HIGH POINT	TF	TOP OF FOOTING
IRR	IRRIGATION	TP	TOP OF PIPE
LA	LANDSCAPE AREA	TW	TOP OF WALL
LP	LOW POINT	VCP	VITRIFIED CLAY PIPE
IE	INVERT ELEVATION	W	WATER
MAX.	MAXIMUM	WM	WATER METER
MIN.	MINIMUM	W/	WITH
MH	MANHOLE	E	AND

## WORK TO BE DONE

THE WORK SHOWN IN THESE DRAWINGS SHALL BE DONE IN ACCORDANCE WITH THESE PLANS, THE PROJECT SPECIFICATIONS AND THE STANDARD DRAWINGS OF THE COUNTY OF SAN DIEGO, CURRENT EDITIONS.

## STANDARD SPECIFICATIONS

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (CURRENT EDITION) AND PROJECT SPECIFICATIONS.

## STANDARD DRAWINGS

COUNTY OF SAN DIEGO STANDARD DRAWINGS (CURRENT EDITION) \*

## LEGEND

IMPROVEMENT	STD. DWG.	SYMBOL
EXISTING CONTOUR		—405—
EXISTING ELEVATION		+ 403.50
PROPOSED ELEVATION		+ 403.50
EXISTING SEWER		—S (ab)—
EXISTING FIRE SERVICE		—F (ab)—
EXISTING WATER MAIN		—W (ab)—
EXISTING FIRE HYDRANT		—X—
EXISTING WATER VALVE		—@—
EXISTING GAS LINE		—G (ab)—
EXISTING STORM DRAIN		—SD (ab)—
EXISTING ELECTRICAL LINE		—E—E—
EXISTING STREET LIGHT CONDUIT		—SL (mo)—
EXISTING A.C. PAVING		
TRUNCATED DOMES	DETAIL 7/AIO.OI	
SAW CUT		— --- —
CONCRETE PAVING	DETAIL 1/CIO.OI	
FILL MATERIAL		

## SHEET INDEX

SHEET NO.	DESCRIPTION
C1.OO	TITLE AND NOTE SHEET
C1.OI	DETAIL SHEET
C2.OO	EXISTING CONDITION PLAN
C3.OO	GRADING PLAN KEY MAP
C3.OI-C3.O3	GRADING & UTILITY PLAN
C4.OO-C4.OI	EROSION CONTROL PLAN

## BENCH MARK

THE BENCH-MARK FOR THIS SURVEY IS FOUND AERIAL PANEL-105 PER NV-5 AERIAL SURVEY, LOCATED ALONG RANCHO SAN DIEGO PARKWAY, WEST OF COMMUNICATION ARTS CENTER BUILDING, 32.4' +/- FROM STORM DRAIN MANHOLE, ELEVATION-375.82'.

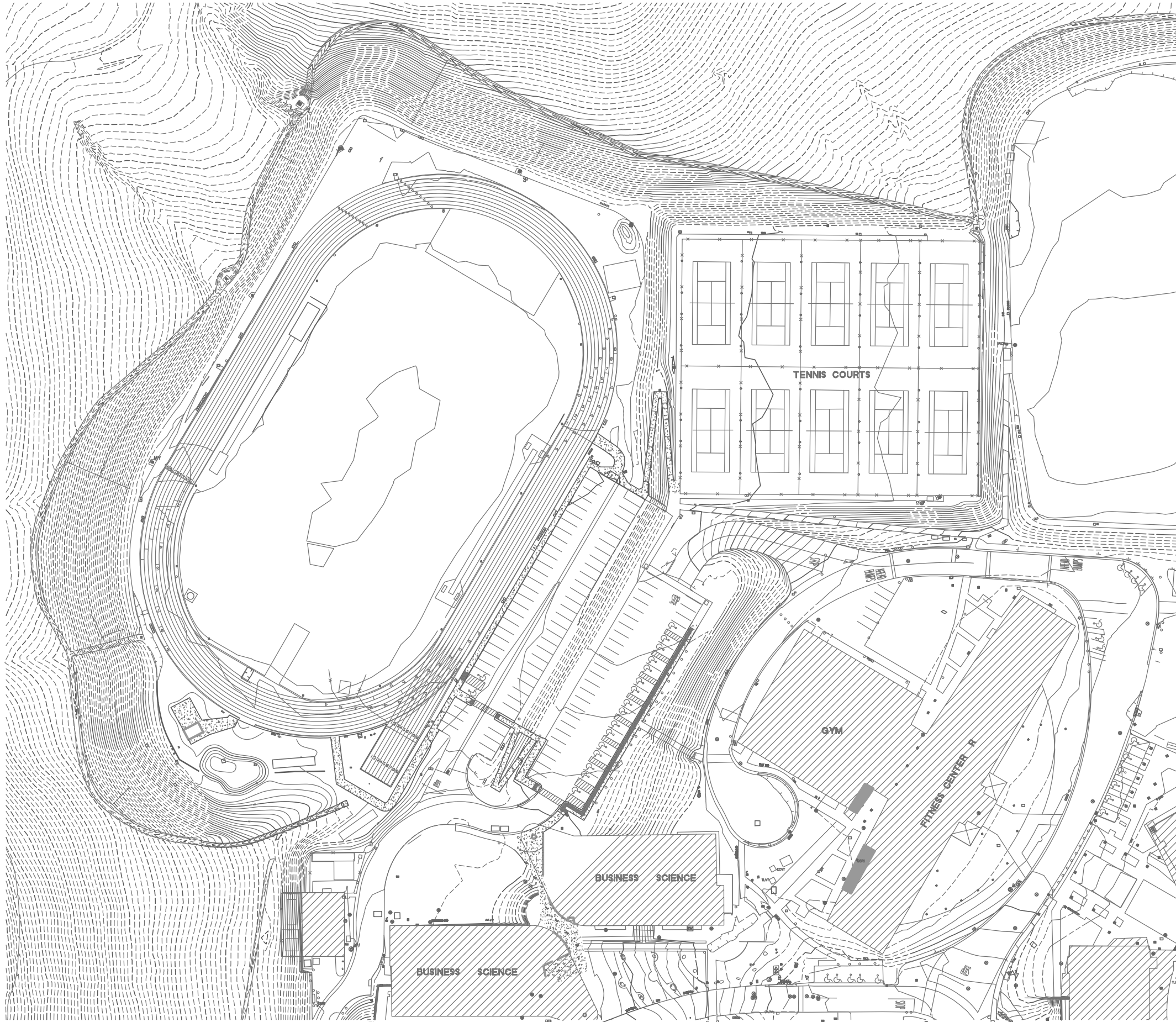
## ASSESSOR'S PARCEL NUMBER

502-040-05

## TOPOGRAPHIC SURVEY

FIELD SURVEY COMPLETED BY SNIPES-DYE ASSOCIATES  
8348 CENTER DRIVE, SUITE G  
LA MESA, CA. 91942  
DATED OCTOBER 2, 2020.

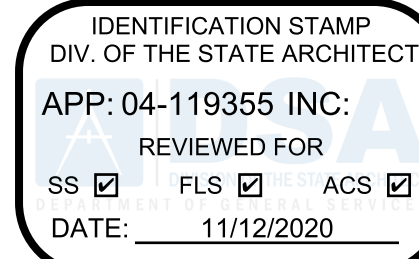
AERIAL SURVEY BY PHOTOGEODETIC CORPORATION, DATED APRIL 29, 2016.



KEYMAP  
SCALE 1"=100'



Agency Approval:



File No.: 37-C5

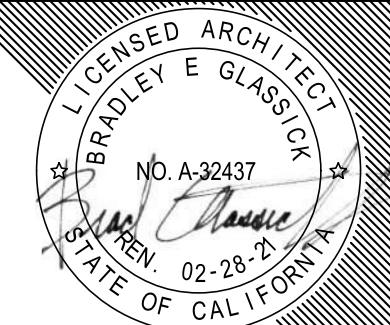


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Keynotes:

**CAUTION:**  
LOCATION OF EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE AND PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

EXISTING UTILITIES IN CONFLICT WITH NEW IMPROVEMENTS WILL NEED TO BE RELOCATED. NOTIFY ENGINEER OF RECORD ANY UTILITY CONFLICTS PRIOR TO CONSTRUCTION.

**NOTE:**  
FOR ALL DEMOLITION WORK REFER TO ARCHITECTURAL PLANS.

CONSULTANT:

**ENGINEER OF WORK**  
*Snipes-Dye associates*  
civil engineers and land surveyors

8348 CENTER DRIVE, STE. G, LA MESA, CA 91942  
PHONE (619) 997-9234 FAX (619) 460-2033

*Matthew P. Kurtz*  
MATTHEW P. KURTZ R.C.E. 79546  
EXPRES 09-30-22



Facility:

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT  
CUYAMACA COLLEGE  
900 RANCHO SAN DIEGO PKWY  
EL CAJON, CA 92019

Project:

CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:

TITLE AND NOTE SHEET

## CONSTRUCTION DOCUMENTS

Date:	11/4/2020	Client Project No:	5028014100
Sheet:			

C1.00





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Professional Engineer Seal for Bradley E. Glassick, State of California, License No. A-32437, expires 02-28-21.

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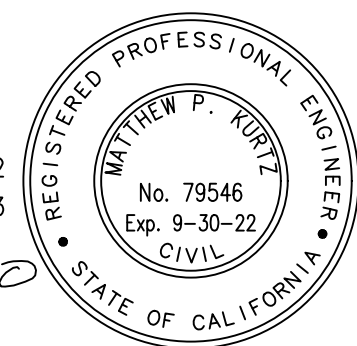
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*Matthew P. Kurtz* 10-29-22  
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EXPIRES 09-30-22



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Client Project No: 5028014100
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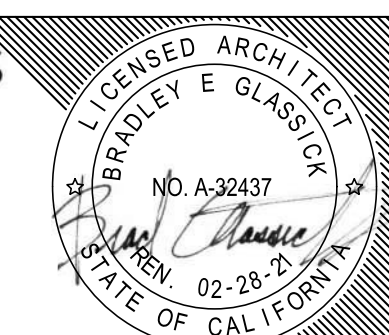




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Project:  
**CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD**

Sheet Title:  
**EXISTING CONDITION PLAN**

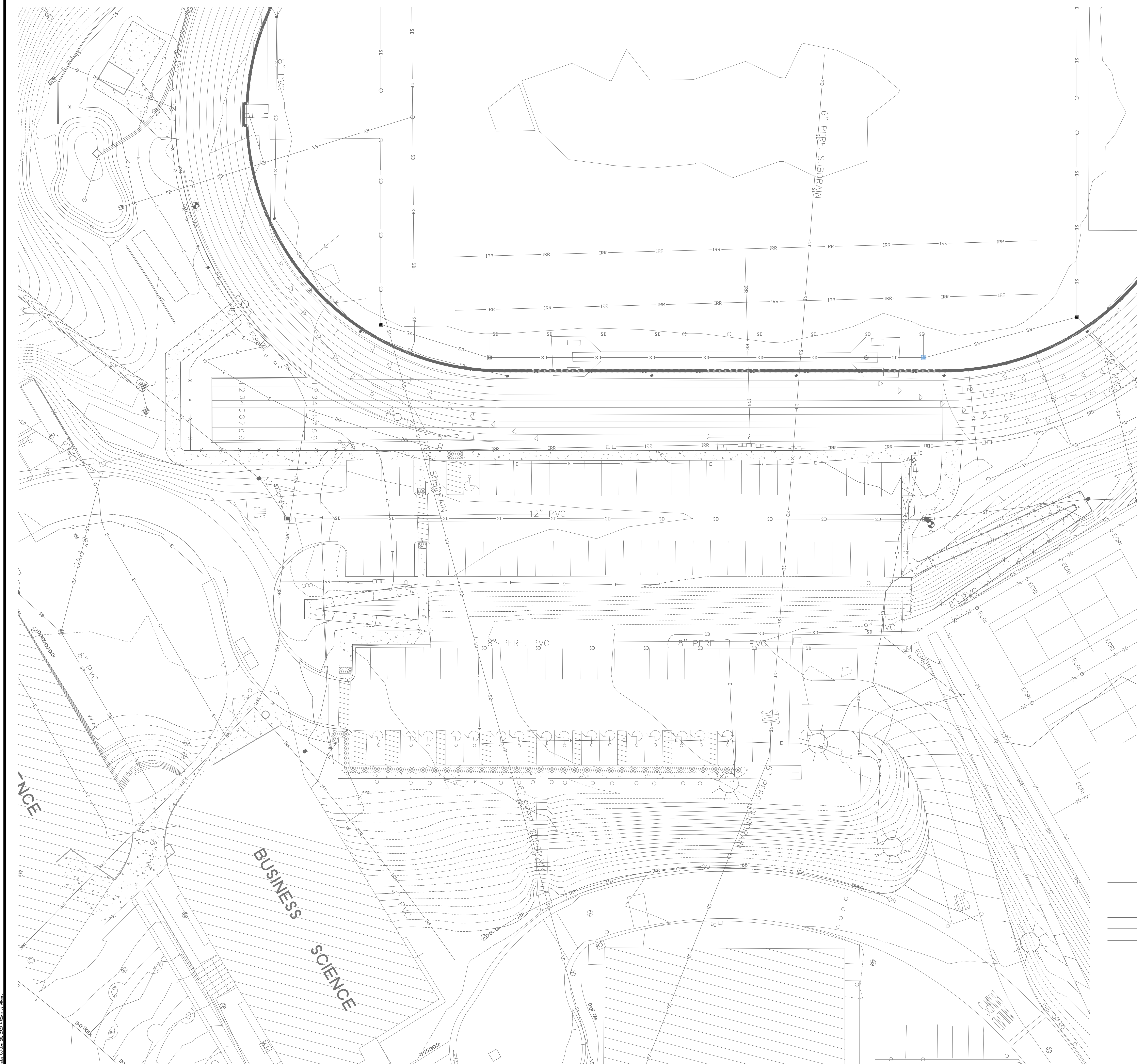
## CONSTRUCTION DOCUMENTS

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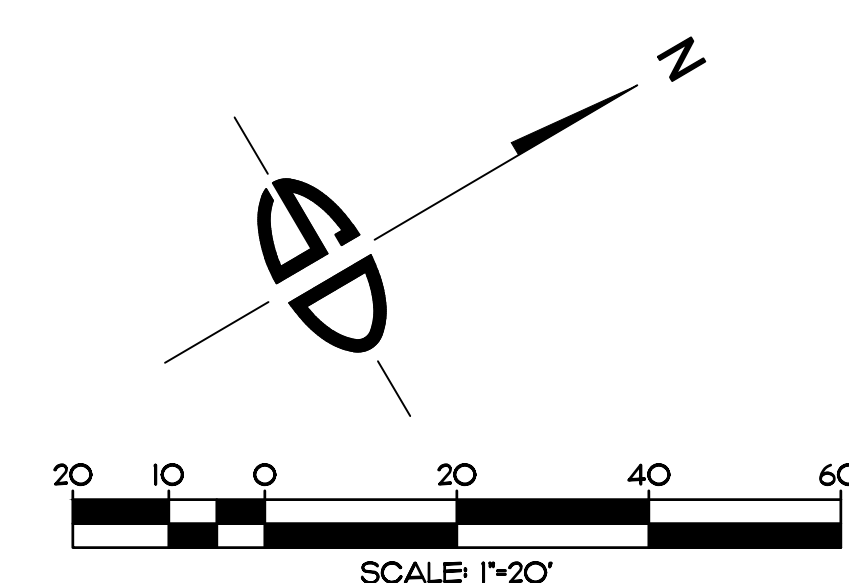
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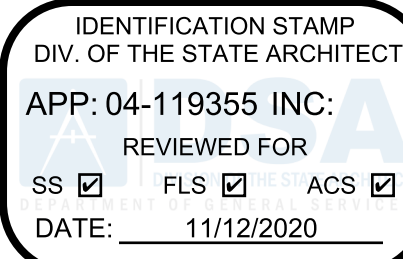
-  - INDICATES CONCRETE SURFACE.  
 - INDICATES ASPHALT SURFACE.  
 - DENOTES TRUNCATED DOMES.  
 - INDICATES HANDICAP PARKING.  
 - INDICATES OVERHEAD LIGHT.  
 - INDICATES TREE WITH TRUNK DIAMETER.  
SDMH - INDICATES STORM DRAIN MANHOLE.  
SDCO - INDICATES STORM DRAIN CLEANOUT.  
EPB - INDICATES ELECTRICAL PULLBOX.  
CB - INDICATES CATCH BASIN.  
EV - INDICATES ELECTRICAL VAULT.  
WP - INDICATES WATER PEDESTAL.  
UP - INDICATES UTILITY PEDESTAL.  
SMH - INDICATES SEWER MANHOLE.  
WPB - INDICATES WATER PULLBOX.  
BFP - INDICATES BACK FLOW PREVENTOR.  
UMH - INDICATES UTILITY MANHOLE.  
TC - INDICATES TOP OF CURB.  
TB - INDICATES TOP OF BERM.  
TG - INDICATES TOP OF GRATE.  
IE - INDICATES INVERT ELEVATION.  
TC - INDICATES TOP OF CURB.  
FL - INDICATES FLOW LINE.  
TW - INDICATES TOP OF WALL.  
BW - INDICATES BOTTOM OF WALL.  
TC - INDICATES TOP OF CURB.  
FL - INDICATES FLOW LINE.

- |     |   |                                     |
|-----|---|-------------------------------------|
| SDM | - | INDICATES STORM DRAIN MARKOUT.      |
| W   | - | INDICATES WATER MARKOUT.            |
| S   | - | INDICATES SEWER MARKOUT.            |
| T   | - | INDICATES TELEPHONE MARKOUT.        |
| TV  | - | INDICATES CABLE TELEVISION MARKOUT. |
| SL  | - | INDICATES STREET LIGHT MARKOUT.     |
| FO  | - | INDICATES FIBER OPTIC MARKOUT.      |





Agency:  
Approval:



File No.: 37-C5

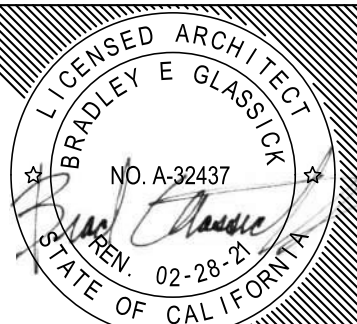


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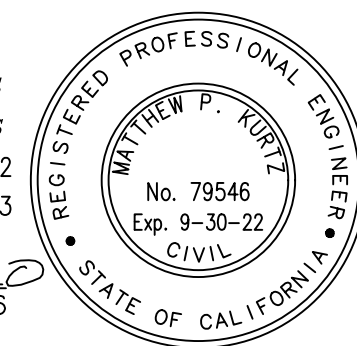
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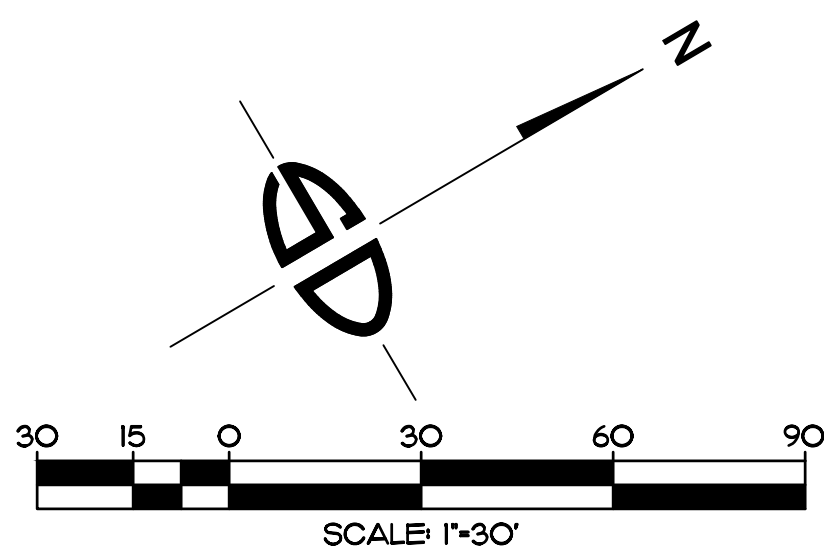
GRADING PLAN KEY MAP

**CONSTRUCTION DOCUMENTS**

Date: 11/12/2020

Client Project No: 5028014100

Sheet:



Please Recycle

C3.00





HMC Architects

5028014100

No.	Issued	Date	No.	Issued	Date
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**Keynotes:**

**CAUTION:**

LOCATION OF EXISTING UTILITIES ON THIS PLAN ARE APPROXIMATE AND PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

EXISTING UTILITIES IN CONFLICT WITH NEW IMPROVEMENTS WILL NEED TO BE RELOCATED. NOTIFY FIELD OF RECORD ANY UTILITY CONFLICTS PRIOR TO CONSTRUCTION.

**NOTE:**  
FOR ALL DEMOLITION WORK REFER TO ARCHITECTURAL PLANS.

**NOTE:**  
ALL AGGREGATE, DEBRIS AND LANDSCAPE TO BE  
REMOVED FROM EXISTING BMP AND FILLED TO GRADE  
PER RECOMMENDATIONS FROM THE GEOTECH. SEE  
GEOTECH REPORT FOR ADDITIONAL INFORMATION.

CONSULTANT:

PHONE (619) 697-9234, FAX (619) 460-203  
  
 MATTHEW P. KURTZ R.C.E. 79546  
 EXPIRES 09-30-22



Facility:

**GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT**  
**CUYAMACA COLLEGE**  
**900 RANCHO SAN DIEGO PKWY**  
**EL CAJON, CA 92019**

Project:

**CUYAMACA COLLEGE TRACK AND FIELD**  
**IMPROVEMENTS PH.II - SCOREBOARD**

Sheet Title:  
**GRADING AND UTILITY PLAN**

## CONSTRUCTION DOCUMENTS

Date: 11/4/2020	Client Project No: 5028014100
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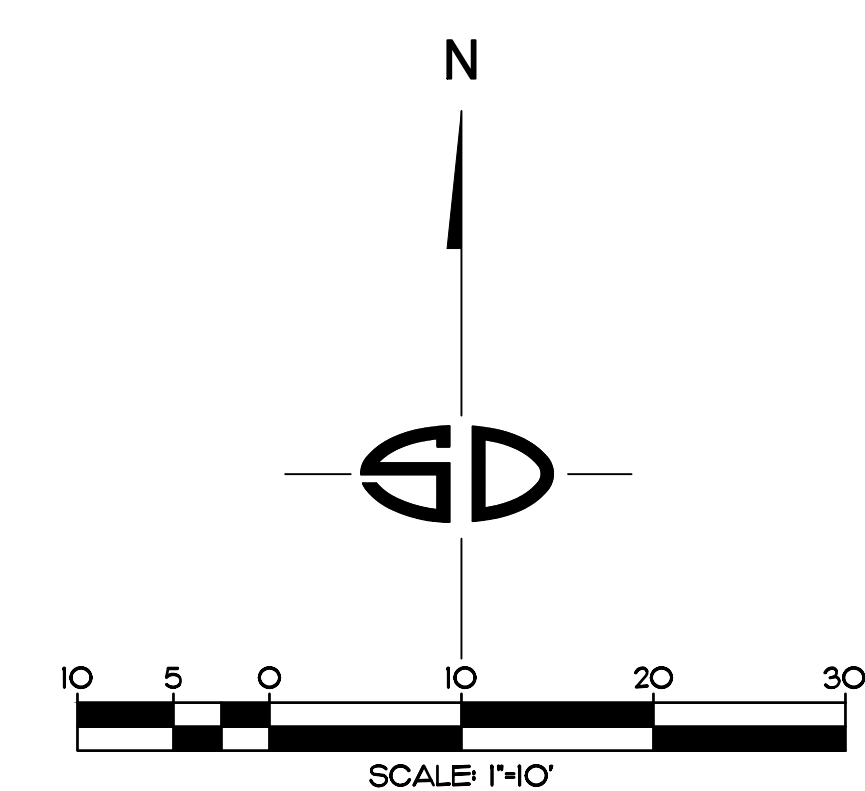
Sheet:

## C3.01

**CONSTRUCTION NOTES:**

- (A) EX. CONCRETE PAVEMENT TO REMAIN. PROTECT IN PLACE.
- (B) EX. A.C. PAVEMENT TO REMAIN. PROTECT IN PLACE.
- (C) NOT USED.
- (D) EX. CURB TO REMAIN. PROTECT IN PLACE.
- (E) EX. PEDESTRIAN RAMP TO REMAIN. PROTECT IN PLACE.
- (F) EX. HEADWALL TO BE REMOVED.
- (G) EX. BMP TO BE REMOVED AND FILL TO GRADE PER GEOTECH RECOMMENDATIONS. SEE GEOTECH REPORT FOR MORE DETAILS.
- (H) EX. CHAIN LINK FENCE TO BE REMOVED.
- (J) EX. TRUNCATED DOMES TO REMAIN. PROTECT IN PLACE.
- (K) NOT USED.
- (L) EX. STORM DRAIN CLEANOUT TO BE REMOVED.
- (M) EX. 6" PERFORATED STORM DRAIN LINE TO BE REMOVED.
- (N) EX. IRRIGATION CONTROL VALVE TO REMAIN. PROTECT IN PLACE.
- (O) EX. UTILITY STRUCTURE TO REMAIN. ADJUST TO GRADE.
- (P) EX. STORM DRAIN LINE TO REMAIN. PROTECT IN PLACE.
- (Q) EX. STRIPING TO REMAIN. PROTECT IN PLACE.

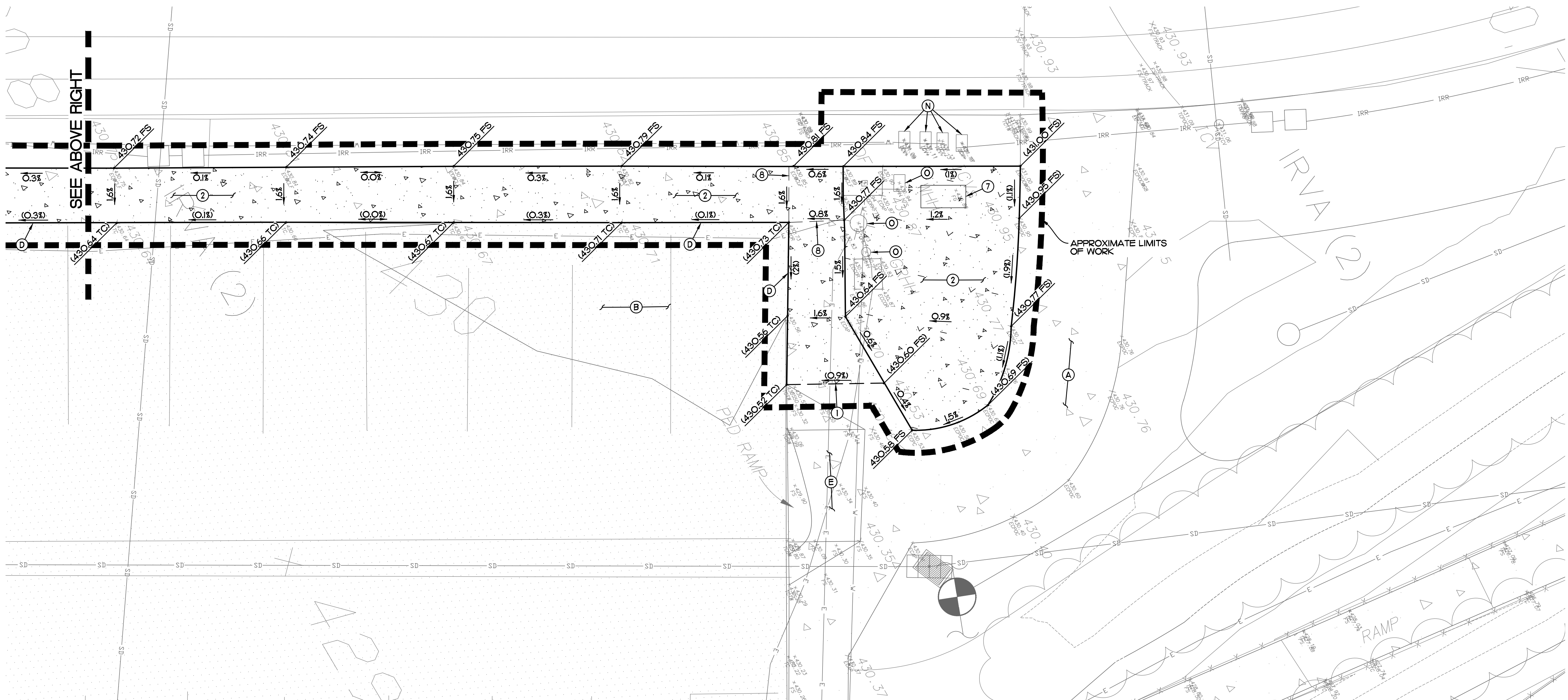
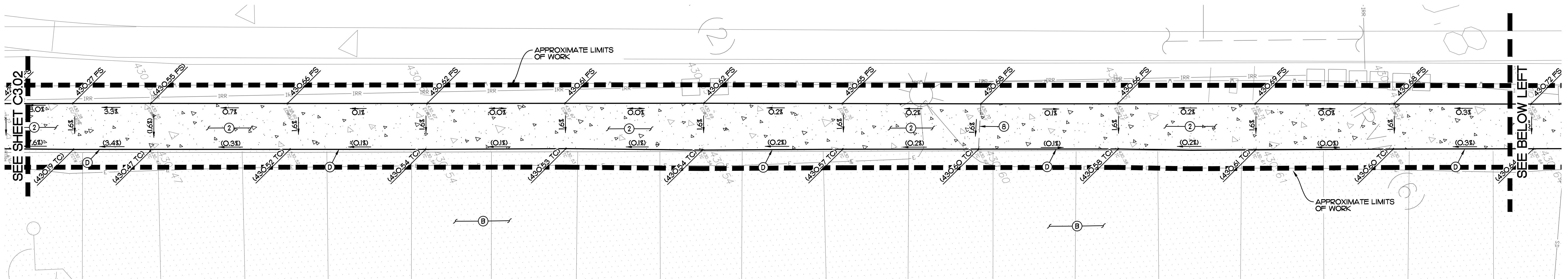
- (1) SAWCUT.
- (2) PROPOSED CONCRETE PAVEMENT PER DETAIL 1/C1.O1.
- (3) NOT USED.
- (4) NOT USED.
- (5) PROPOSED TRUNCATED DOMES PER DETAIL 7/A1O.O1.
- (6) PROPOSED SCOREBOARD PER ARCHITECTURAL AND STRUCTURAL PLANS.
- (7) PROPOSED ELECTRICAL PEDESTAL PER DETAIL 4/E1.S.
- (8) GRADE BREAK
- (9) PROPOSED 12" PVC STORM DRAIN LINE.
- (10) EX. CATCH BASIN TO REMAIN AND ADJUST TO NEW GRADE PER DETAIL 2/C1.O1. CONTRACTOR TO VERIFY POSITIVE FLOW AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- (11) NOT USED.
- (12) PROPOSED COLUMNS PER STRUCTURAL PLANS.
- (13) PROPOSED HOUSEKEEPING PAD PER DETAIL 5/E1.S.





## C3.02



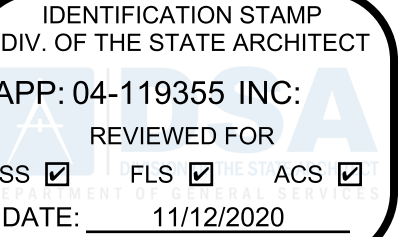


**CONSTRUCTION NOTES:**

- (A) EX. CONCRETE PAVEMENT TO REMAIN. PROTECT IN PLACE.
- (B) EX. A.C. PAVEMENT TO REMAIN. PROTECT IN PLACE.
- (C) NOT USED.
- (D) EX. CURB TO REMAIN. PROTECT IN PLACE.
- (E) EX. PEDESTRIAN RAMP TO REMAIN. PROTECT IN PLACE.
- (F) EX. HEADWALL TO BE REMOVED.
- (G) EX. BMP TO BE REMOVED AND FILL TO GRADE PER GEOTECH RECOMMENDATIONS. SEE GEOTECH REPORT FOR MORE DETAILS.
- (H) EX. CHAIN LINK FENCE TO BE REMOVED.
- (J) EX. TRUNCATED DOMES TO REMAIN. PROTECT IN PLACE.
- (K) NOT USED.
- (L) EX. STORM DRAIN CLEANOUT TO BE REMOVED.
- (M) EX. 6" PERFORATED STORM DRAIN LINE TO BE REMOVED.
- (N) EX. IRRIGATION CONTROL VALVE TO REMAIN. PROTECT IN PLACE.
- (O) EX. UTILITY STRUCTURE TO REMAIN. ADJUST TO GRADE.
- (P) EX. STORM DRAIN LINE TO REMAIN. PROTECT IN PLACE.
- (Q) EX. STRIPING TO REMAIN. PROTECT IN PLACE.

- (1) SAWCUT.
- (2) PROPOSED CONCRETE PAVEMENT PER DETAIL 1/C1.O1.
- (3) NOT USED.
- (4) NOT USED.
- (5) PROPOSED TRUNCATED DOMES PER DETAIL 7/A1.O1.O1.
- (6) PROPOSED SCOREBOARD PER ARCHITECTURAL AND STRUCTURAL PLANS.
- (7) PROPOSED ELECTRICAL PEDESTAL PER DETAIL 4/E1.5.
- (8) GRADE BREAK.
- (9) PROPOSED 12" PVC STORM DRAIN LINE.
- (10) EX. CATCH BASIN TO REMAIN AND ADJUST TO NEW GRADE PER DETAIL 2/C1.O1. CONTRACTOR TO VERIFY POSITIVE FLOW AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- (11) NOT USED.
- (12) PROPOSED COLUMNS PER STRUCTURAL PLANS.
- (13) PROPOSED HOUSEKEEPING PAD PER DETAIL 5/E1.5.

Agency Approval:



File No.: 37-C5

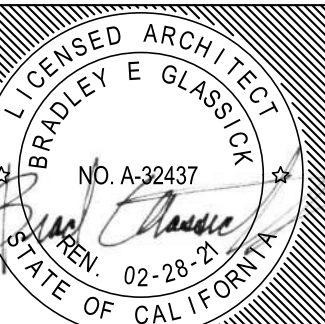


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COLLEGE

HMC Architects

5028014100

3546Concours Street / Ontario, CA 91764  
T 909 969 9979 / www.hmcarchitects.com



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Keynotes:

**CAUTION:**

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**NOTE:**

FOR ALL DEMOLITION WORK REFER TO ARCHITECTURAL PLANS.

CONSULTANT:

**ENGINEER OF WORK**

*Shipes-Dye associates*  
civil engineers and land surveyors

8348 CENTER DRIVE, STE. G, LA MESA, CA 91942

PHONE (619) 597-9234 FAX (619) 460-2033

MATTHEW P. KURTZ R.C.E. 79546  
EXPRES 09-30-22



Facility:

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT

CUYAMACA COLLEGE

900 RANCHO SAN DIEGO PKWY

EL CAJON, CA 92019

Project:

CUYAMACA COLLEGE TRACK AND FIELD

IMPROVEMENTS PH.II - SCOREBOARD

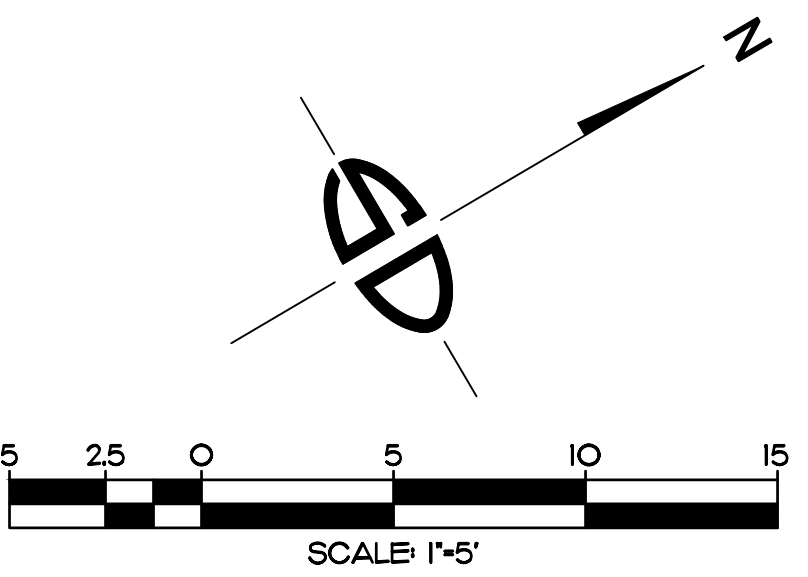
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GRADING PLAN

**CONSTRUCTION DOCUMENTS**

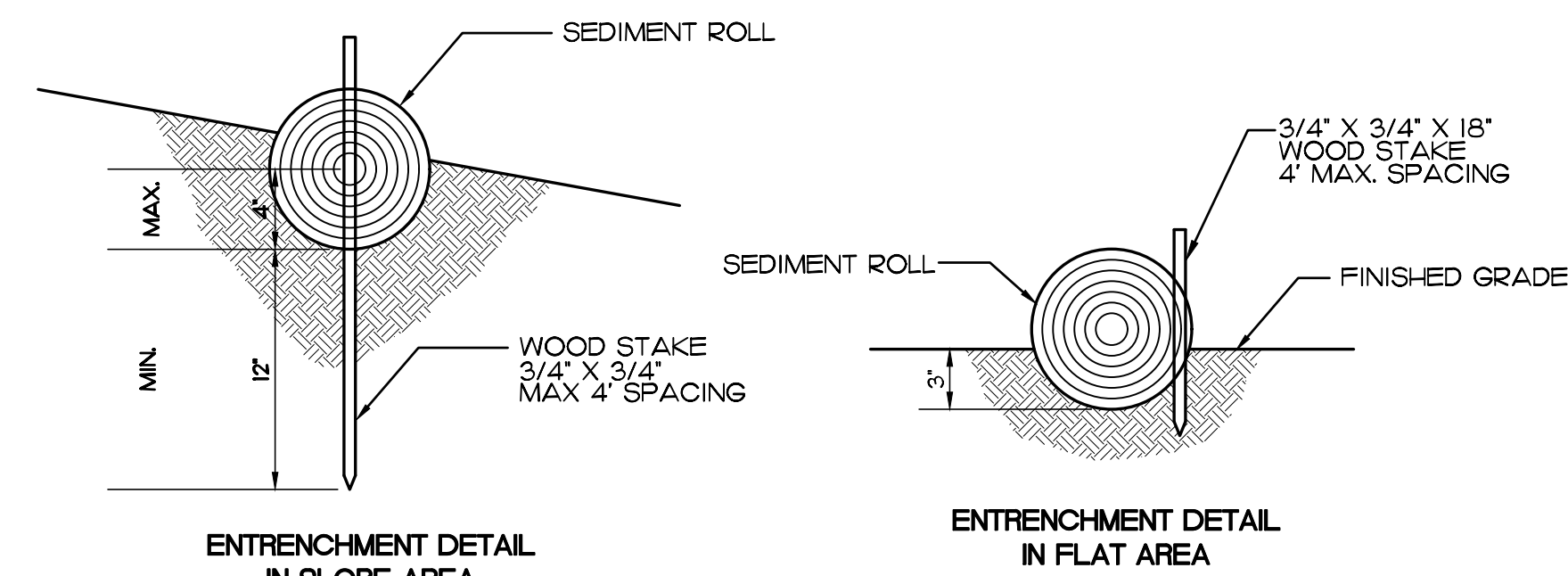
Date: 10/29/2020 Client Project No: 5028014100

Sheet:

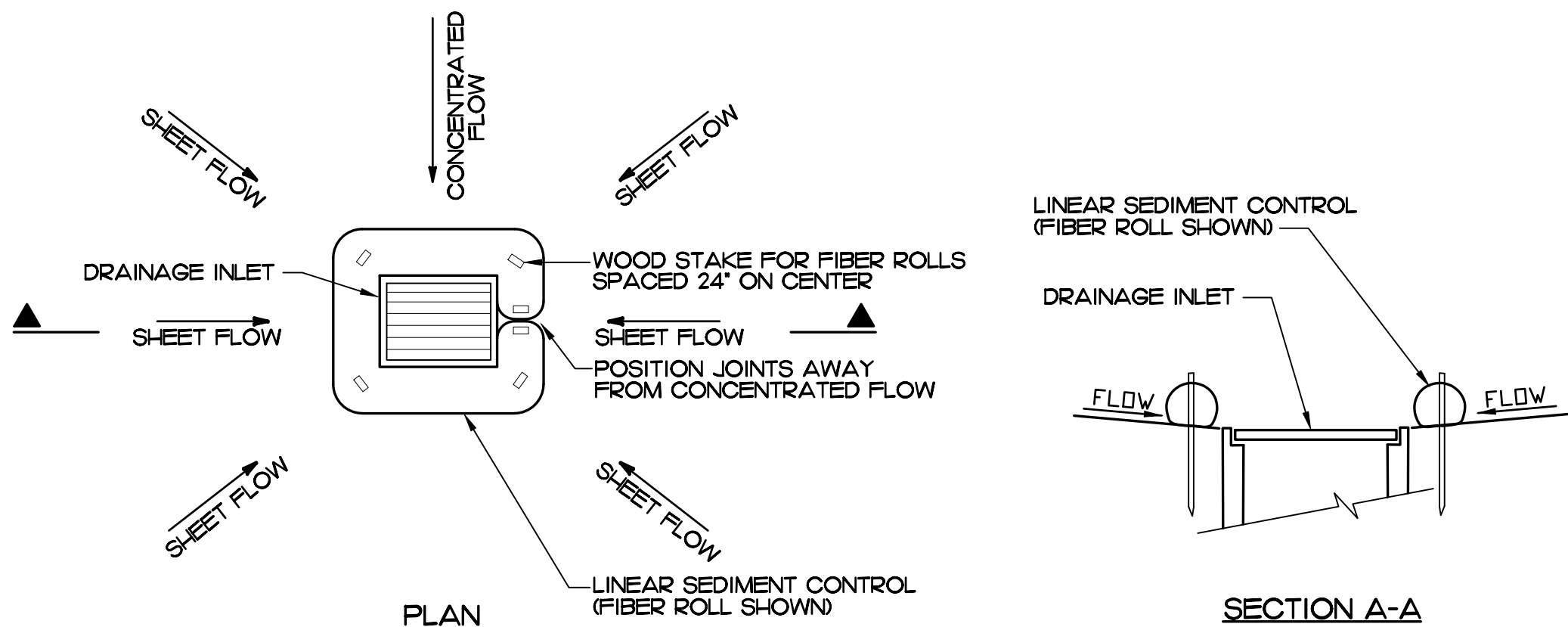


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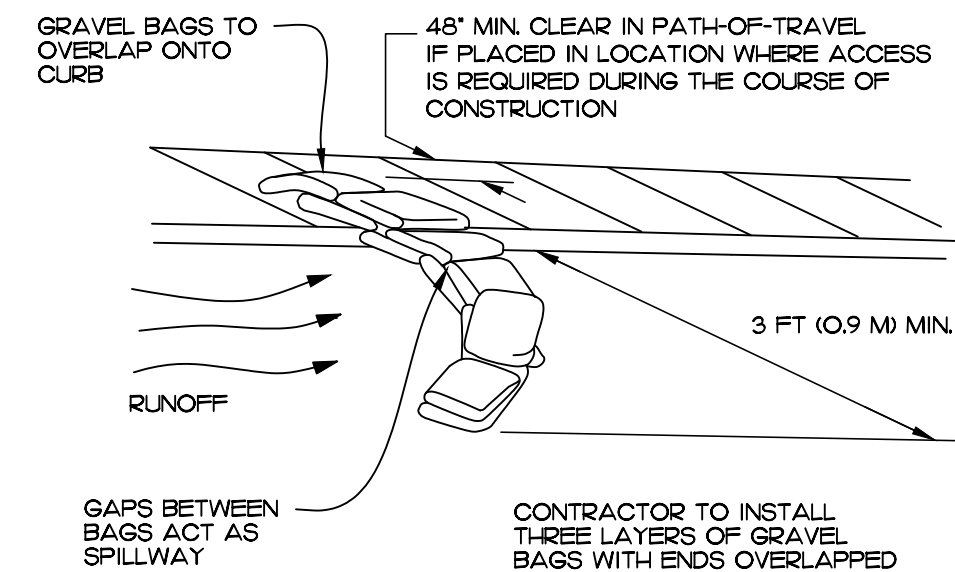




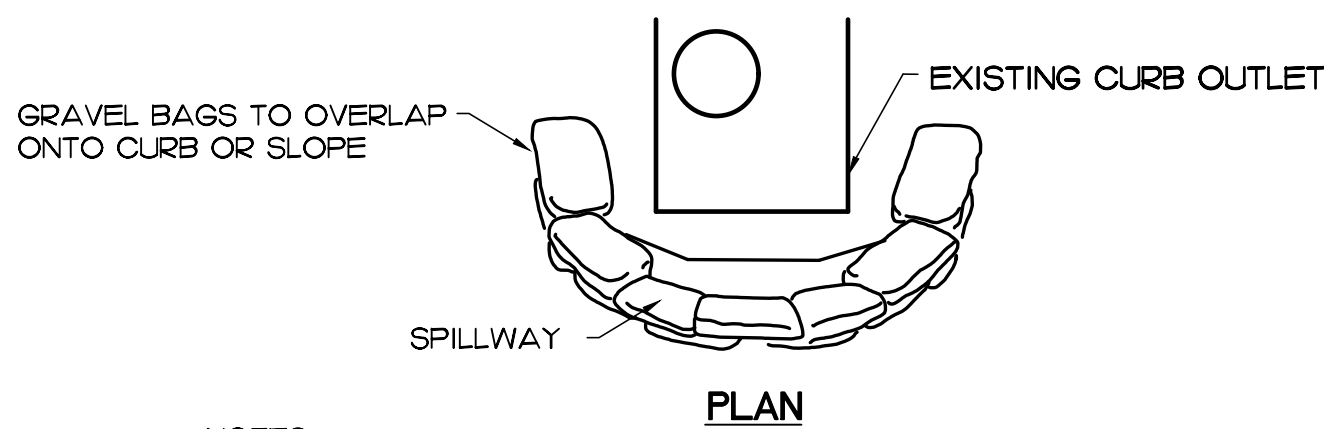
**DETAIL : FIBER ROLL**  
NO SCALE



**DETAIL : STORM DRAIN INLET PROTECTION (LANDSCAPE AREAS)**  
NO SCALE



**DETAIL : GRAVEL BAG BERM**  
NO SCALE

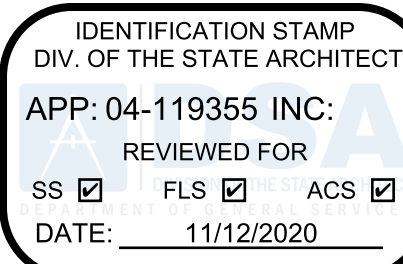


NOTES

1. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT AND SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVERE STORM EVENT
2. PLACE 2 LAYERS OF OVERLAPPING GRAVEL BAGS AND PACK TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS
3. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE-HALF OF THE FILTER DEPTH HAS BEEN FILLED.

**DETAIL : GRAVEL BAG PLACEMENT**  
NO SCALE

Agency  
Approval:



File No.: 37-C5

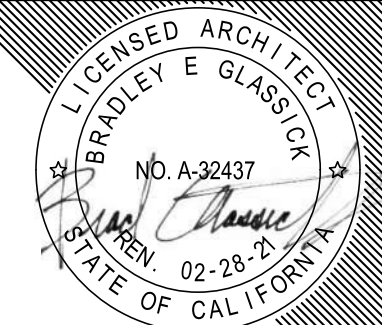


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No.	Issued	Date	No.	Issued	Date

Keynotes:

### LEGEND

1. FIBER ROLLS .....	SE-5	
2. GRAVEL BAG BARRIER .....	SE-6	
3. STORM DRAIN INLET PROTECTION .....	SE-10	
4. SPILL PREVENTION AND CONTROL .....	WM-4	
5. TEMPORARY SOLID WASTE MANAGEMENT .....	WM-5	
6. TEMPORARY SANITARY SEPTIC WASTE .....	WM-9	
7. TEMPORARY CONCRETE WASTE .....	WM-8	
8. MATERIAL STORAGE .....	WM-1	
9. VEHICLE EQUIPMENT .....	NS-10	

REFER TO THE "CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION" FOR DETAILS OF REFERENCED BEST MANAGEMENT PRACTICES (BMPs).

1. CONTRACTOR SHALL PROTECT SPOIL AND MATERIAL STORAGE PILES FROM MOVEMENT OF SILT VIA WATER AND WIND EROSION.
2. UPON COMPLETION OF GRADING, CONTRACTOR SHALL STABILIZE AREA WITH LANDSCAPING OR HYDROSEED.
3. CONTRACTOR SHALL PROVIDE PROTECTION AT FIRST DOWNSTREAM INLET FROM WORK AREA.

CONSULTANT:

**ENGINEER OF WORK**  
*Shipes-Dye associates*  
civil engineers and land surveyors  
8348 CENTER DRIVE, STE. G, LA MESA, CA 91942  
PHONE (619) 697-9234 FAX (619) 460-2033  
MATTHEW P. KURTZ R.C.E. 79546  
EXPIRES 09-30-22



Facility:

**GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT**  
CUYAMACA COLLEGE  
900 RANCHO SAN DIEGO PKWY  
EL CAJON, CA 92019

Project:

**CUYAMACA COLLEGE TRACK AND FIELD IMPROVEMENTS PH.II - SCOREBOARD**

Sheet Title:

**EROSION CONTROL PLAN**

## CONSTRUCTION DOCUMENTS

Date: 11/4/2020

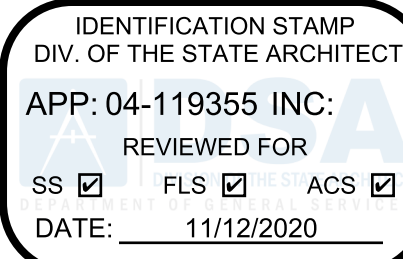
Client Project No: 5028014100

Sheet:

**C4.00**



Agency  
Approval:



File No.: 37-C5

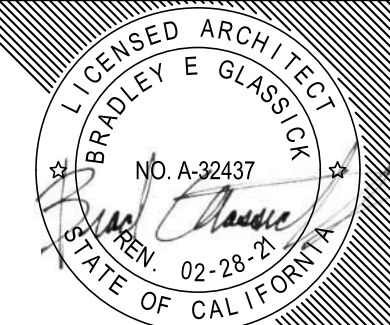


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No.	Issued	Date	No.	Issued	Date

Keynotes:

#### LEGEND

1. FIBER ROLLS ..... SE-5
2. GRAVEL BAG BARRIER ..... SE-6
3. STORM DRAIN INLET PROTECTION ..... SE-10
4. SPILL PREVENTION AND CONTROL ..... WM-4
5. TEMPORARY SOLID WASTE MANAGEMENT ..... WM-5
6. TEMPORARY SANITARY SEPTIC WASTE ..... WM-9
7. TEMPORARY CONCRETE WASTE ..... WM-8
8. MATERIAL STORAGE ..... WM-1
9. VEHICLE EQUIPMENT ..... NS-10

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2. UPON COMPLETION OF GRADING, CONTRACTOR SHALL STABILIZE AREA WITH LANDSCAPING OR HYDROSEED.
3. CONTRACTOR SHALL PROVIDE PROTECTION AT FIRST DOWNSTREAM INLET FROM WORK AREA.

CONSULTANT:

#### ENGINEER OF WORK

*Shipes-Dye associates*  
civil engineers and land surveyors

8348 CENTER DRIVE, STE. G, LA MESA, CA 91942  
PHONE (619) 697-9234 FAX (619) 460-2033

*Matthew P. Kurtz*  
MATTHEW P. KURTZ R.C.E. 79546  
EXPIRES 09-30-22



Facility:

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT  
CUYAMACA COLLEGE  
900 RANCHO SAN DIEGO PKWY  
EL CAJON, CA 92019

Project:

CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:

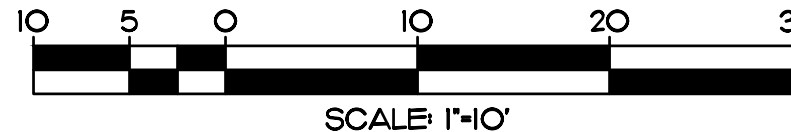
EROSION CONTROL PLAN

#### CONSTRUCTION DOCUMENTS

Date: 11/4/2020

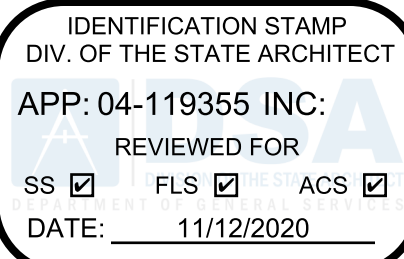
Client Project No: 5028014100

Sheet:





Agency  
Approval:



File No.: 37-C5

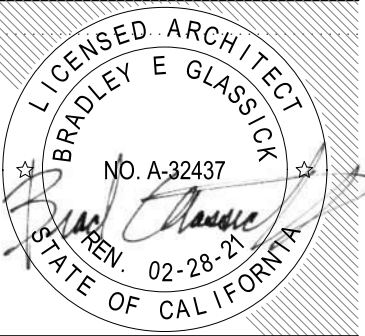


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ISSUE:

No.	Issued	Date	No.	Issued	Date

Keynotes:

NO.	Note - Detail
02.01	(E) CONCRETE PAVING
02.06	(E) LANDSCAPING TO REMAIN
02.15	(E) SHED
02.17	(E) DRINKING FOUNTAIN TO BE REMOVED
02.20	(E) LIGHT POST - PROTECT IN PLACE
02.21	(E) CONC. CURB TO REMAIN - PROTECT IN PLACE
02.22	(E) UTILITY PANEL ON PEDESTAL - PROTECT IN PLACE
02.40	(E) CONCRETE PAVING TO BE REMOVED
02.42	(E) CHAINLINK FENCE AND FOOTING TO BE REMOVED
02.43	(E) RETENTION BASIN TO BE REMOVED. SEE CIVIL DWG C3.01 FOR ADDITIONAL INFO
02.47	(E) LANDSCAPE, ROCK, ETC TO BE REMOVED FOR (N) CONCRETE PAVING
02.48	REMOVE (E) TRUNCATED DOMES
02.53	(E) PARKING STRIPING TO REMAIN
02.54	(E) WHEEL STOP TO REMAIN
02.56	(E) CHAINLINK FENCE TO REMAIN

Legend:

	AREA OF DEMOLITION
	(E) BUILDINGS / STRUCTURES

Notes:

- REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS

Facility:

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT  
CUYAMACA COLLEGE  
900 RANCHO SAN DIEGO PKWY  
EL CAJON, CA 92019

Project:

CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:

SITE PLAN - DEMOLITION

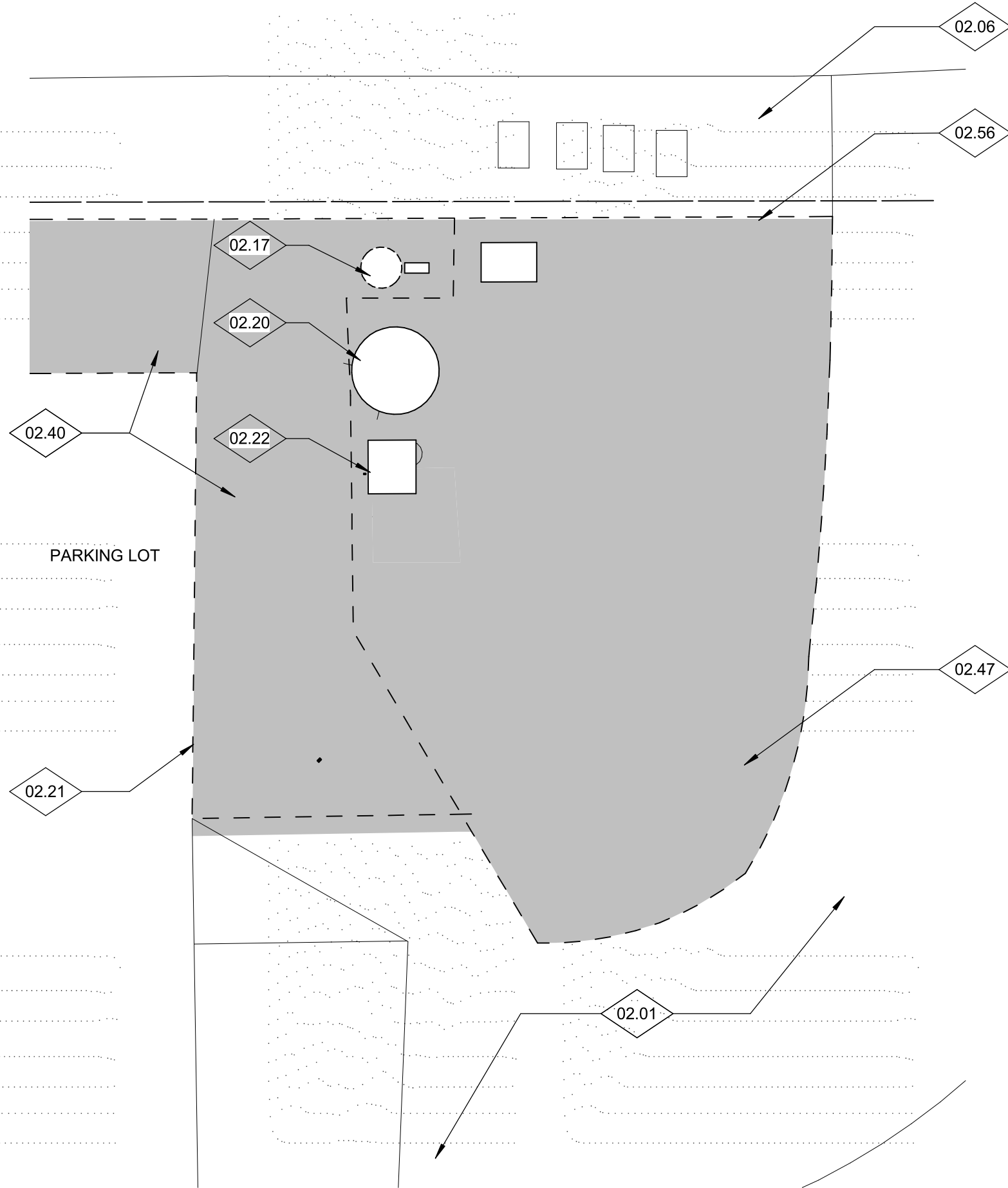
CONSTRUCTION DOCUMENTS

Date: 11/4/2020

Client Project No: 5028014100

Sheet:

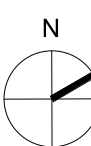
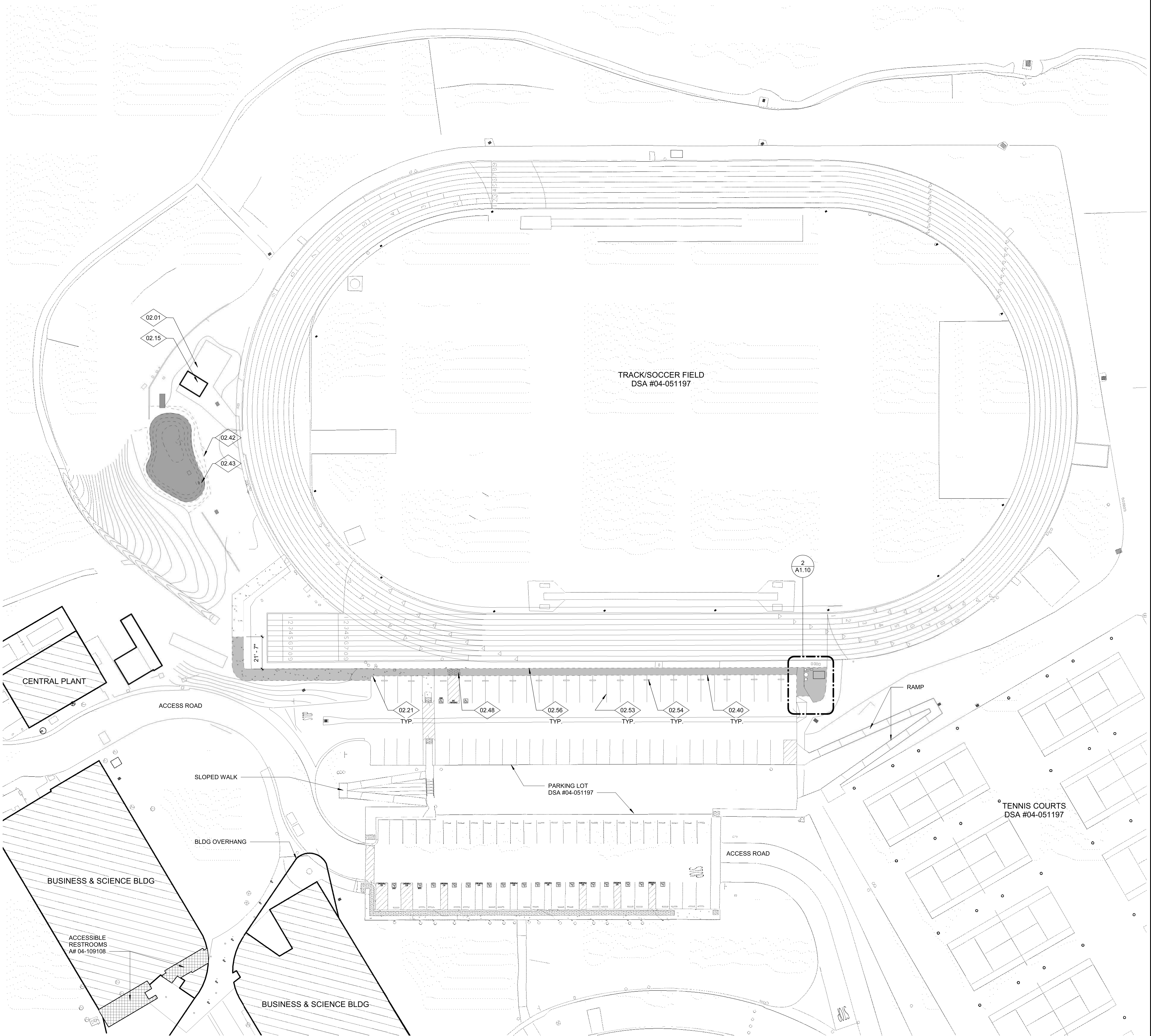
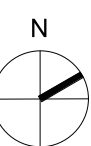
A1.10



ENLARGED SITE PLAN - SIDEWALK

2

1/4" = 1'-0"



SITE PLAN - DEMO

1

1" = 30'-0"



Agency  
Approval:

File No.: 37-CS



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ISSUE:

No.	Issued	Date	No.	Issued	Date
1	Addendum 1	01/19/2021			

Keynotes:

NO.	Note - Detail
02.20	(E) LIGHT POST - PROTECT IN PLACE
02.22	(E) PLUMBING PANEL ON ROOF - PROTECT IN PLACE
11.01	SCOREBOARD - SEE ARCHITECTURAL 11/A10.01, SEE ELECTRICAL - 1/S2.01, SEE CIVIL - SHEET C4.04, SEE ELECTRICAL - 4/E1.2
11.02	PORTABLE EQUIPMENT RACK - SEE SPECS FOR COMPLETE CONTENTS
22.07	HIGH FLOW DRINKING FOUNTAIN WITH 2" PVC WASTE AND 1/2" PVC COLD WATER LINE - INSTALLATION TO MEET CURRENT CODE. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION.
22.12	PREP EXISTING PIPING AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF A NEW DRINKING FOUNTAIN
26.01	PATCH PANEL, SEE ELECTRICAL - 3/E1.2
26.05	ELECTRICAL PEDESTAL - SEE 2/E1.2
32.09	COMPACTED FILL PER GEOTECH RECOMMENDATIONS. SEE GEOTECH REPORT AND CIVIL - SHEET C3.01
32.10	TRUNCATED DOMES - 7/A10.01
32.26	CONCRETE HOUSEKEEPING PAD - REFER TO SHEET E1.2 FOR SIZE

Legend:

	NEW SCOREBOARD - 11/A10.01, 1/S2.01, C3.01, 4/E1.2
	(E) BUILDINGS / STRUCTURES
	(N) CONCRETE PAVING - 4 & 5/A10.01

Notes:

- REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS

Facility:

GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT  
CUYAMACA COLLEGE  
900 RANCHO SAN DIEGO PKWY  
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Project:

CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:

SITE PLAN - REMODEL

CONSTRUCTION DOCUMENTS

Date: 10/29/2020

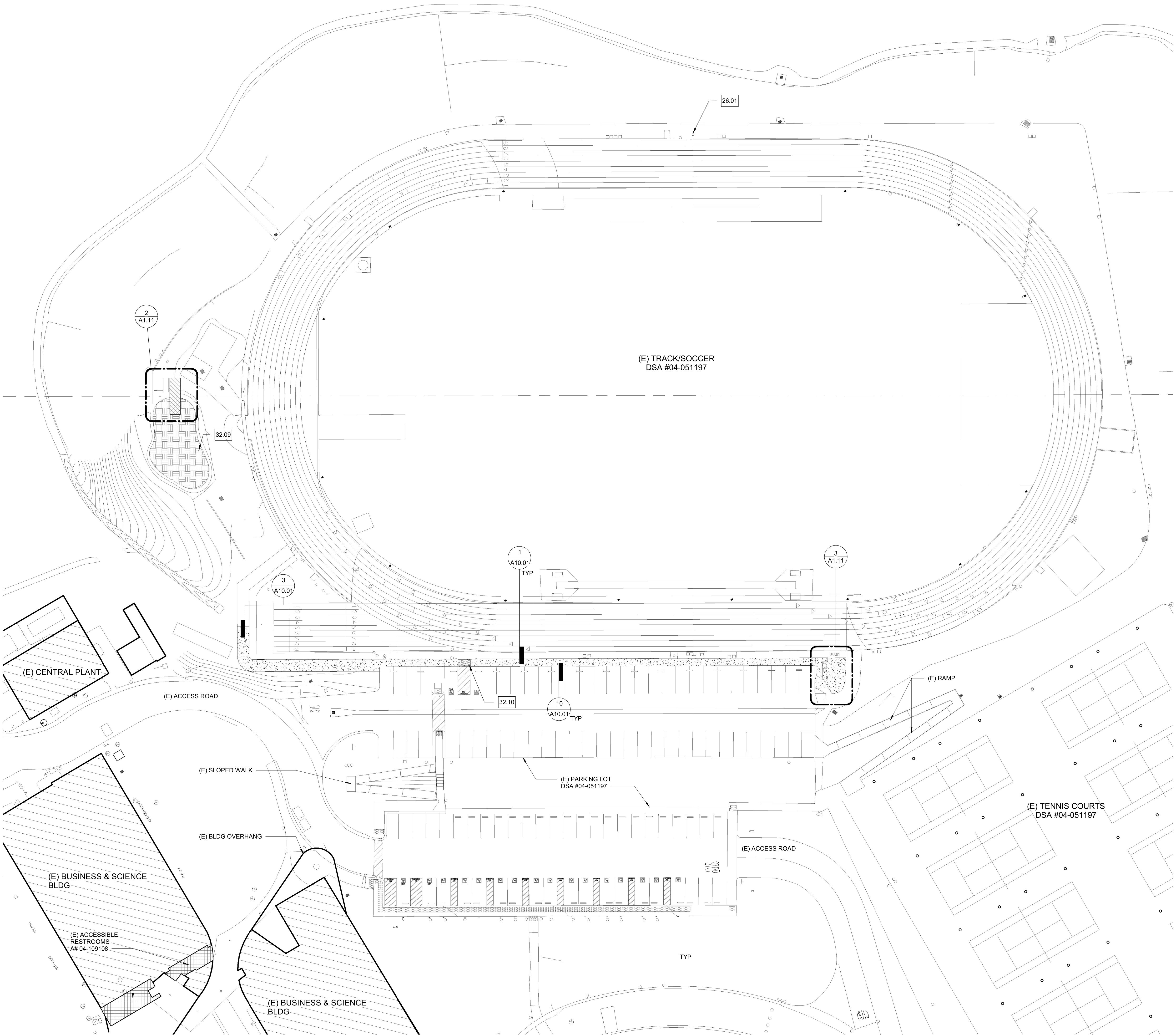
Client Project No: 5028014100

Sheet:



1  
1" = 30'-0"

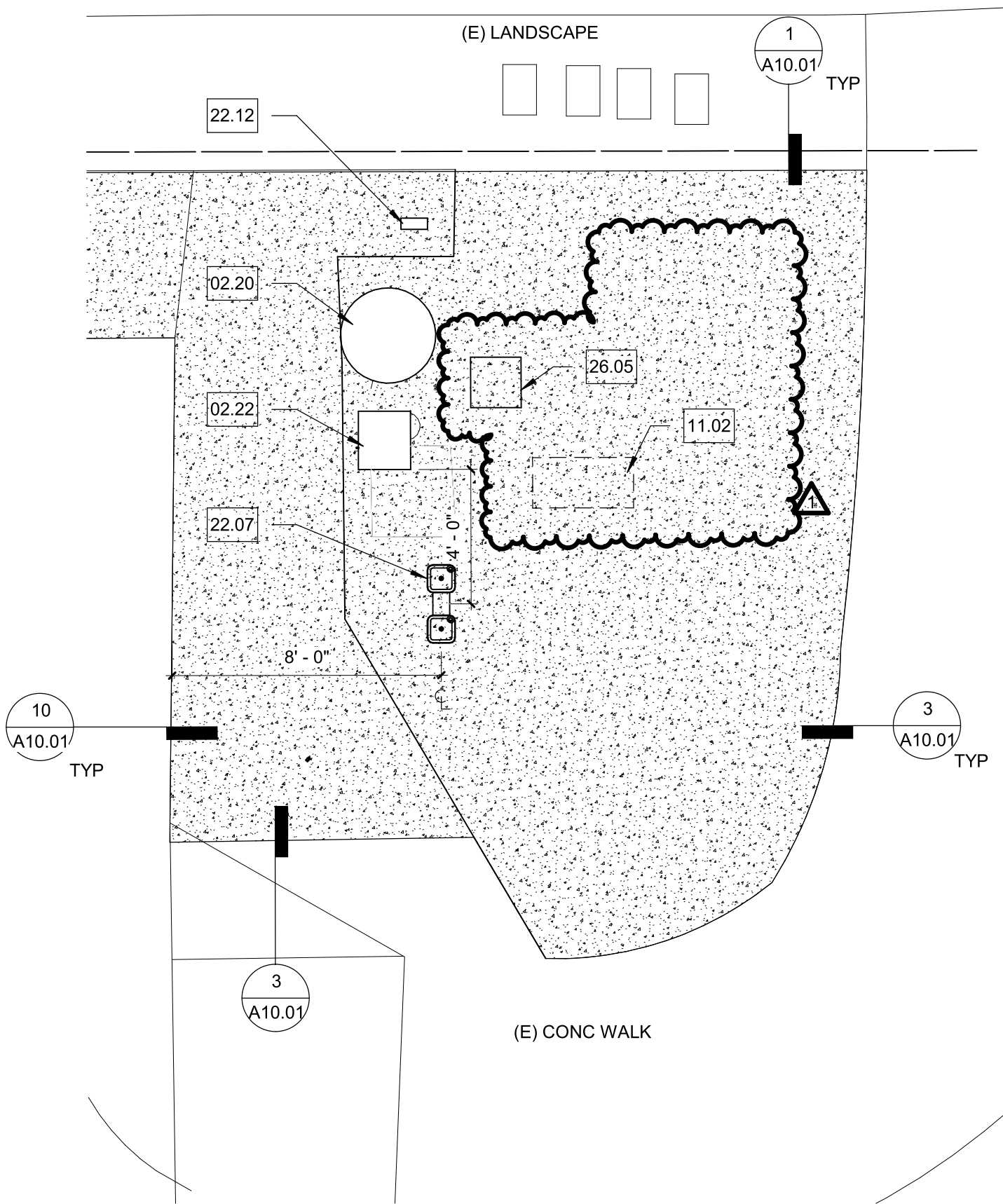
SITE PLAN - REMODEL



SITE PLAN - REMODEL - SCOREBOARD

2

1/4" = 1'-0"



SITE PLAN - REMODEL - SIDEWALK

3

1/4" = 1'-0"



Agency  
Approval:

File No.: 37-CS



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COLLEGE

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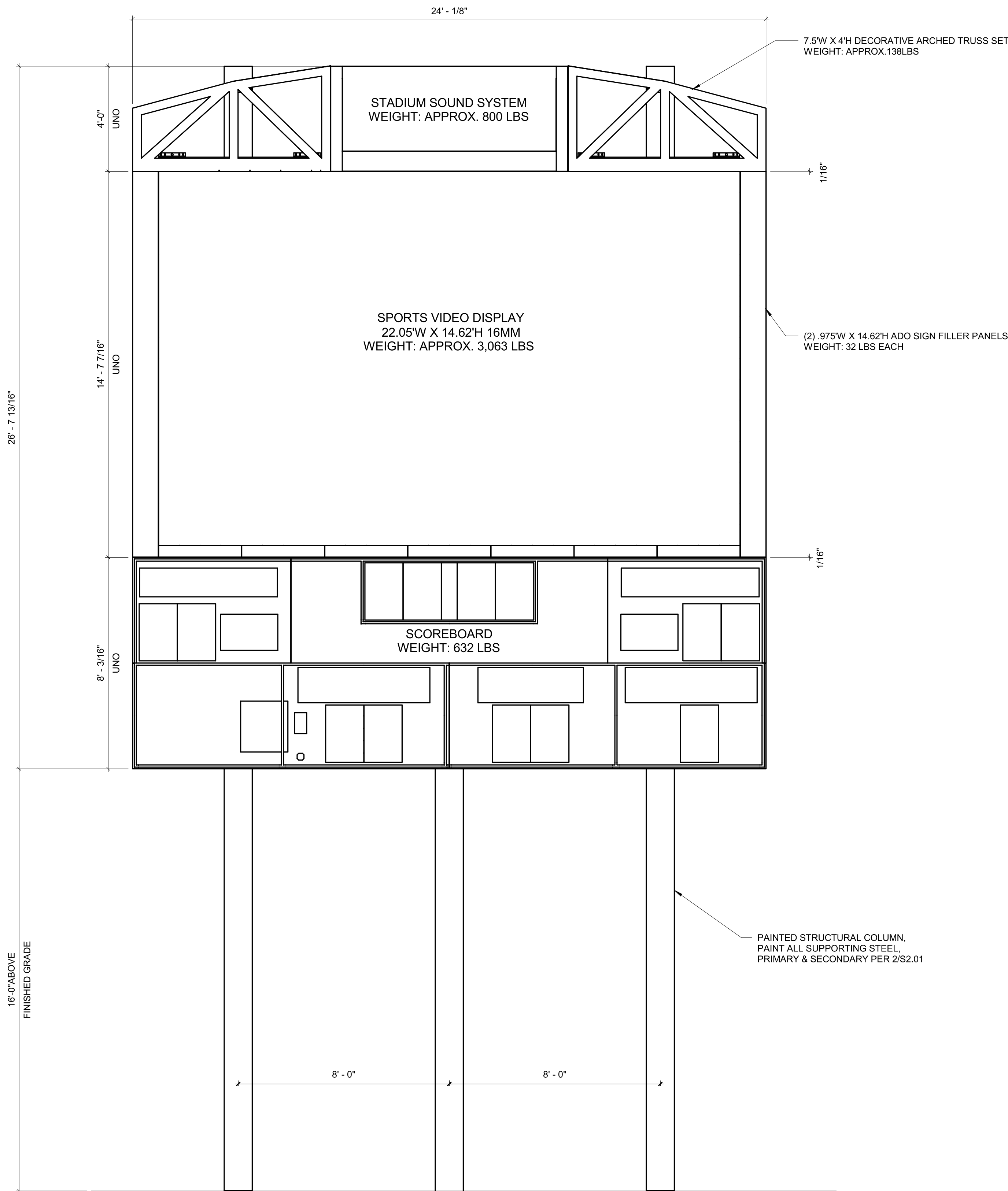
5028009000

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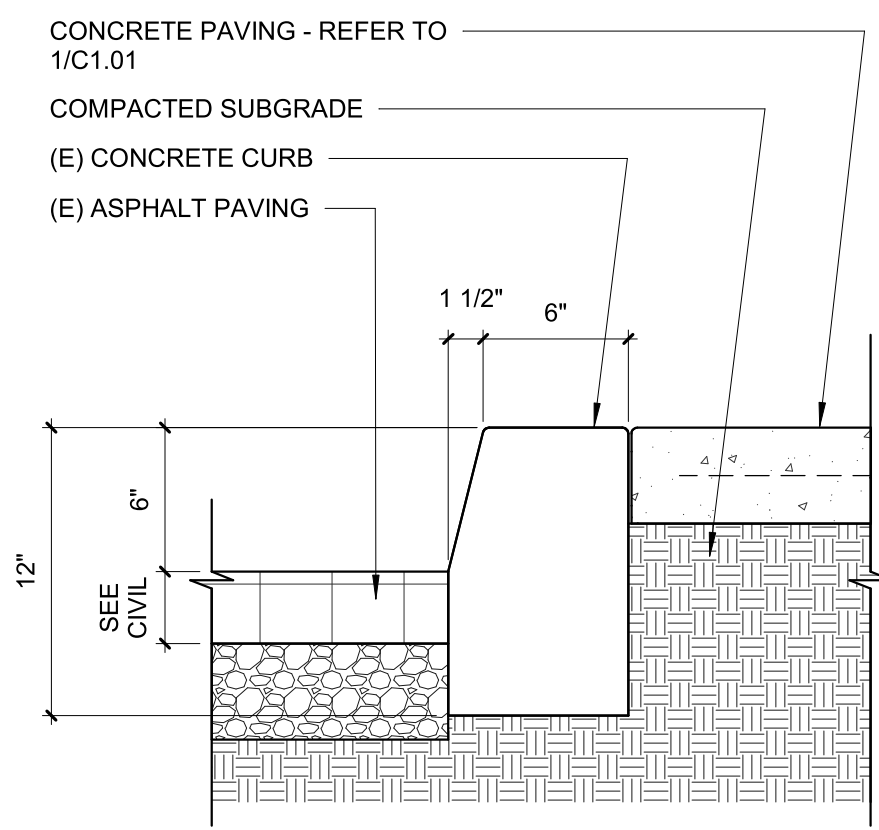
ISSUE:

No.	Issued	Date	No.	Issued	Date
1	Addendum 1	01/19/2021			

Keynotes:



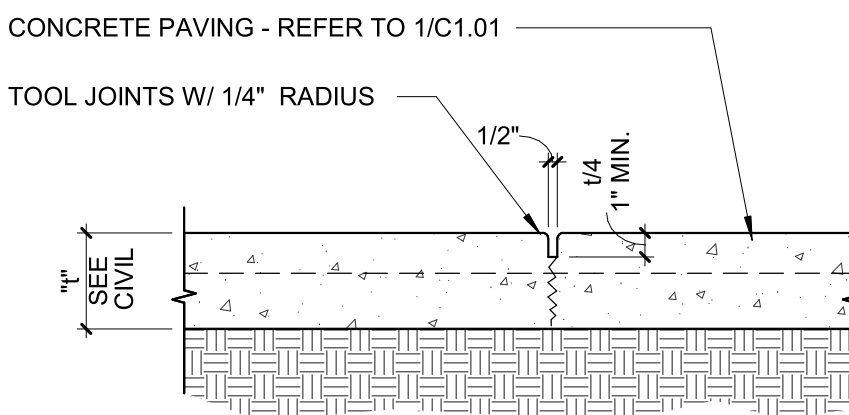
SCOREBOARD 11  
NTS



CONCRETE CURB DETAIL

10

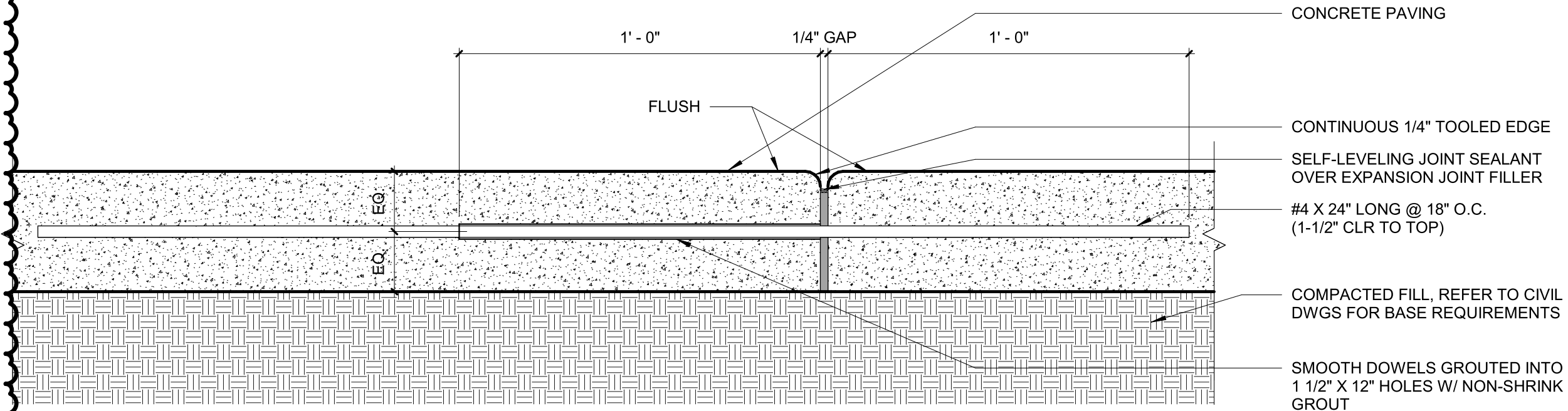
1 1/2" = 1'-0"



CONCRETE CONTROL JOINT

5

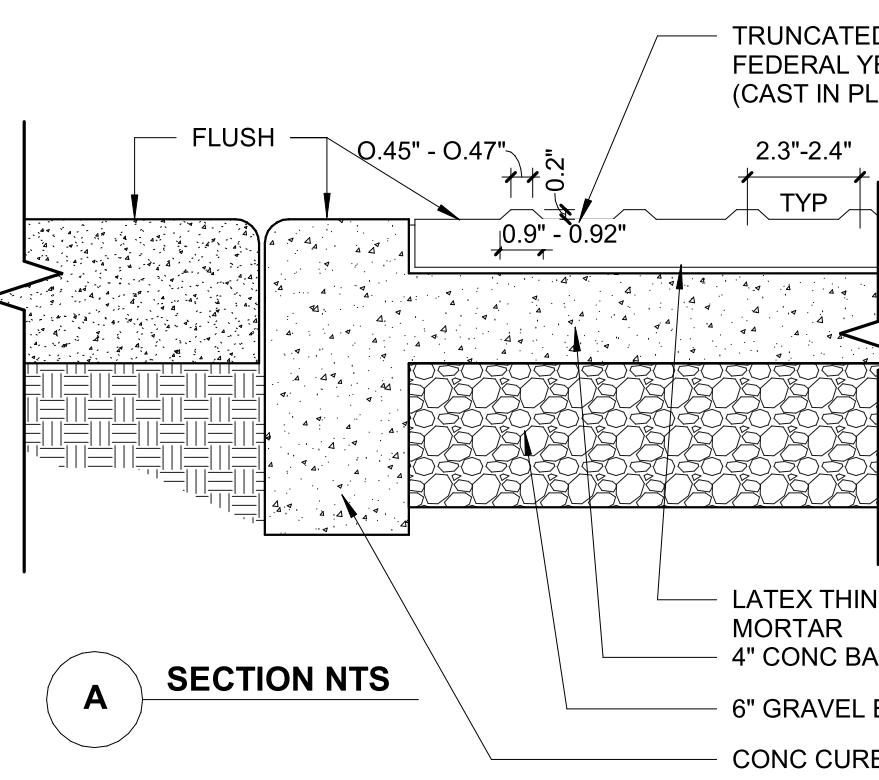
1 1/2" = 1'-0"



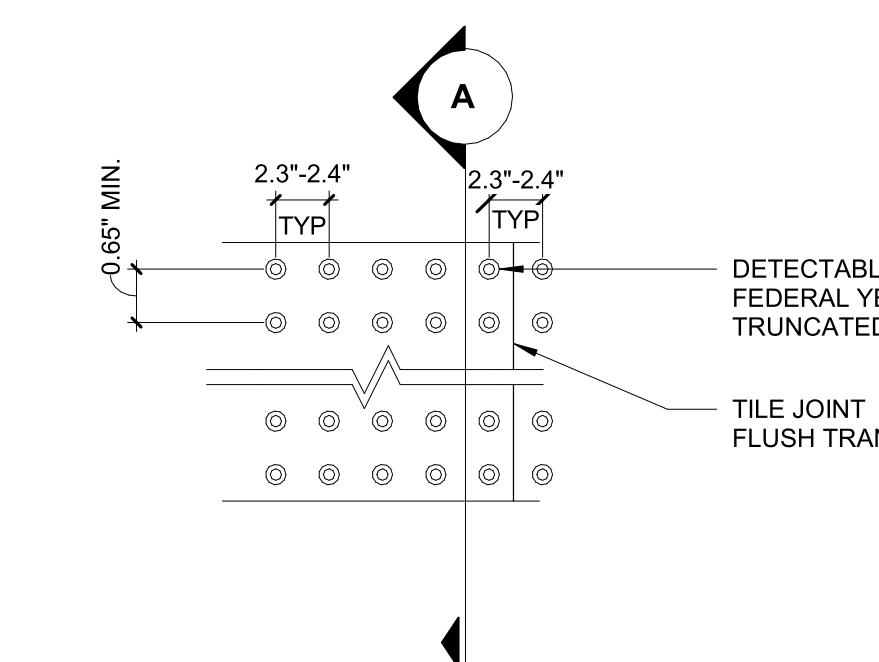
CONCRETE EXPANSION JOINT

4

3" = 1'-0"



SECTION NTS



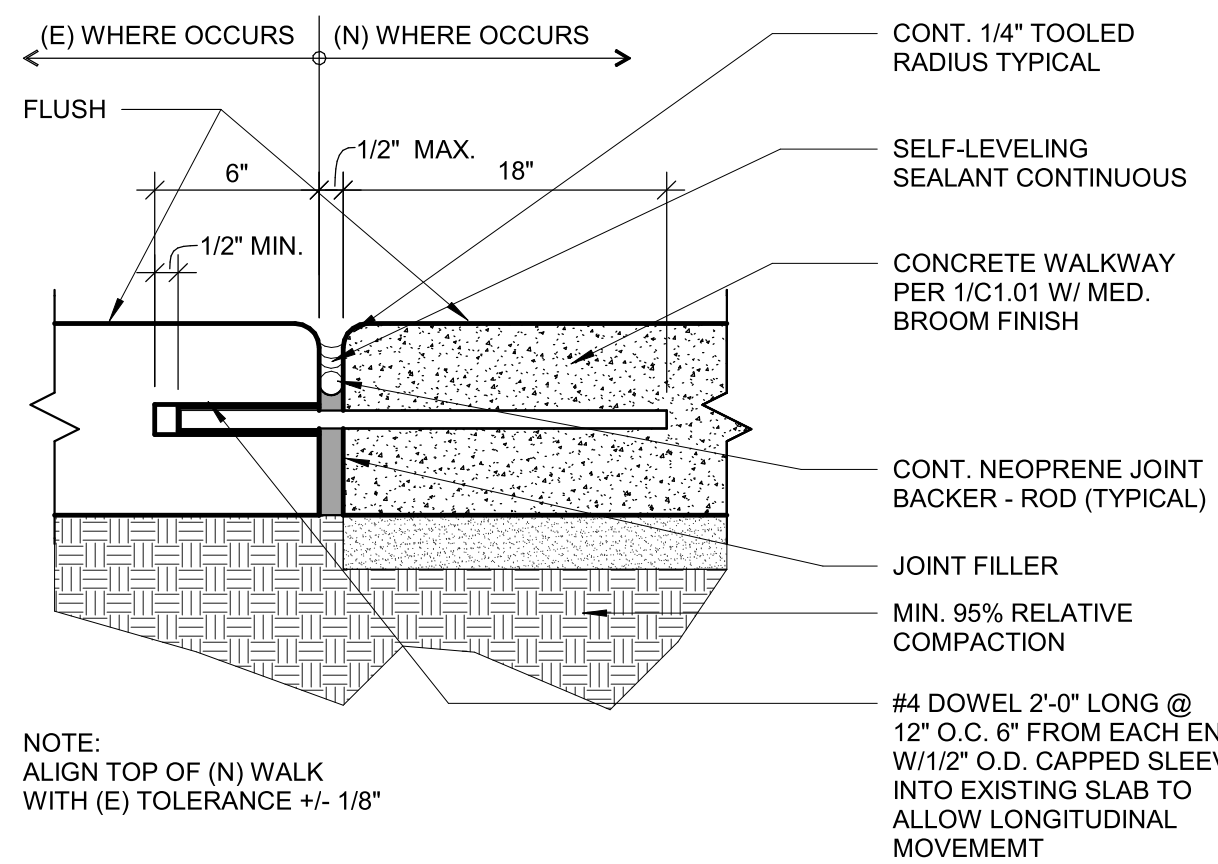
PLAN NTS

NOTES:  
1. DOMES SHALL BE ALIGNED - SEE DSA IR11B-4  
2. REFER TO 5/C1.01 FOR ADDITIONAL  
INFORMATION

TRUNCATED DOMES

7

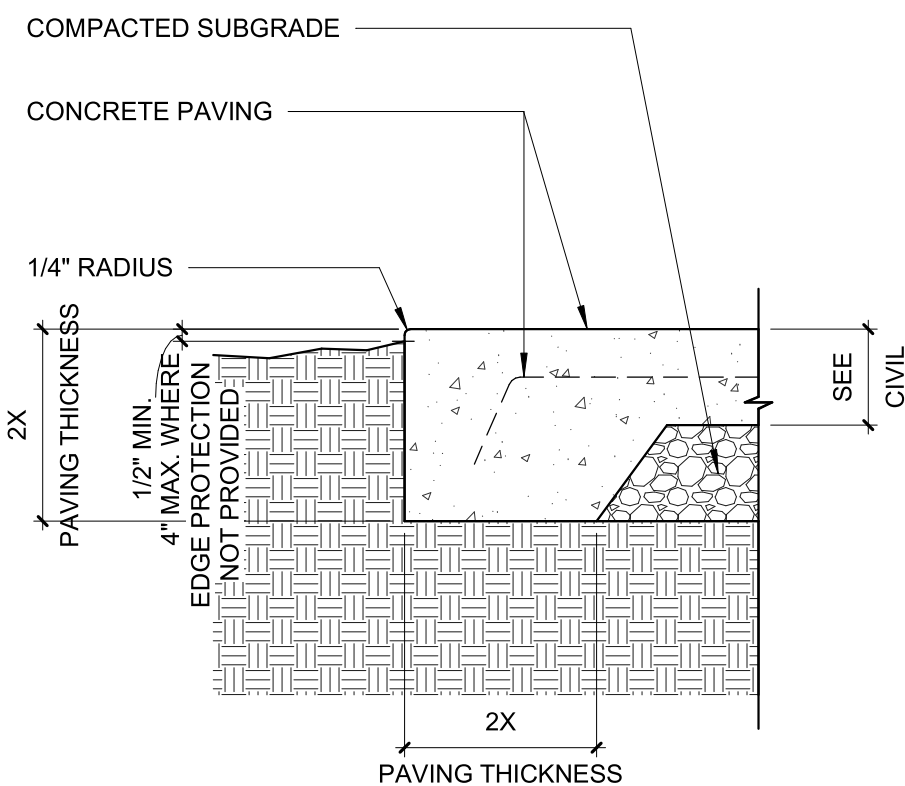
1 1/2" = 1'-0"



NEW TO (E) PAVING

3

3" = 1'-0"



CONCRETE PAVING EDGE

1

1 1/2" = 1'-0"

Facility:  
GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT  
CUYAMACA COLLEGE  
900 RANCHO SAN DIEGO PKWY  
EL CAJON, CA 92019  
Project:  
CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:  
DETAILS

CONSTRUCTION DOCUMENTS

Date: 10/29/2020 Client Project No: 5028014100

Sheet:

A10.01



STRUCTURAL STEEL (CONTINUED)

15. WELD MATERIALS USED IN SFRS WELDED CONNECTIONS SHALL CONFORM TO THE FOLLOWING TOUGHNESS REQUIREMENTS:
- A. WELDED CONNECTIONS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD.
- B. WELDED CONNECTIONS DESIGNATED AS "DEMAND CRITICAL", SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 40 FT-LB AT 70°F BASED ON WPS HEAT INPUT ENVELOPE TESTING PRESCRIBED IN ANNEX A OF AWS D1.8/D1.8M.
16. WELD MATERIALS USED WITH HEAVY SECTIONS SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 70°F. HEAVY SECTIONS MAY BE ROLLED OR BUILT-UP AND ARE DEFINED AS FOLLOWS:
- A. SHAPES INCLUDED IN ASTM A616M WITH FLANGES THICKER THAN 1-1/2 INCHES (38 MM)
- B. WELDED BUILT-UP MEMBERS WITH PLATES THICKER THAN 2 INCHES (50 MM)
- C. COLUMN BASE PLATES THICKER THAN 2 INCHES
17. INTERMIX OF FILLER METAL: WHEN FCAW-S FILLER METALS ARE USED IN COMBINATION WITH FILLER METALS FOR OTHER PROCESSES, INCLUDING FCAW-G, SUPPLEMENTAL CVN NOTCH TOUGHNESS TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ONE OF MORE OF THE FOLLOWING:
- A. TESTS AS DESCRIBED IN ANNEX B OF AWS D1.8/D1.8M.
- B. POR TESTS THAT CONTAIN INTERMIX WELD METAL, WHEREIN CVN TEST SPECIMENS HAVE BEEN TAKEN FROM THE INTERMIX ZONE.
18. ALL STEEL THAT IS ARCHITECTURALLY EXPOSED SHALL BE AESS CLASSIFICATION AS INDICATED ON ARCHITECTURAL DRAWINGS - AESS-1 UNO. ALL EXPOSED WELDMENTS ARE TO BE SSPC SPS WITH CORROSION UNO.

INSPECTOR OF RECORD (IOR)

1. IOR'S SHOULD HAVE CLASS 1 CERTIFICATION AND BE APPROVED BY DSA AS REQUIRED BY INTERPRETATION OF REGULATIONS (IR) A-7.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSIAISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" ANSIAISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", AND AISIAISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AS AMENDED BY CALIFORNIA BUILDING CODE (CBC) SECTIONS 2203A, 2204A AND 2205A.
2. SEISMIC FORCE RESISTING SYSTEM (SFRS) IS THAT PART OF THE STRUCTURAL SYSTEM THAT HAS BEEN CONSIDERED IN THE DESIGN TO PROVIDE THE REQUIRED RESISTANCE TO THE SEISMIC FORCES PRESCRIBED IN ASCE/SEI 7.
3. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS:
- RECTANGULAR HOLLOW STRUCTURAL SECTIONS.....ASTM A500/A500M, GRADE C (F<sub>y</sub>=60 KSI)
- PLATES.....ASTM A572/A572M, GRADE 50
- ANCHOR BOLTS.....ASTM F1554, GRADE 36 (UNO)
- ANCHOR BOLTS USED IN SFRS.....ASTM F1554, GRADE 55, WELDABLE, UNO
- THREADED ROUND STOCK.....ASTM A36/A36M
- FURNISH READILY IDENTIFIABLE STRUCTURAL STEEL IN COMPLIANCE WITH CBC SECTION 2203A.1.
4. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING BOLTS", AS AMENDED BY CBC SECTION 2204A.2. WHEN ASSEMBLED, ALL JOINT SURFACES, INCLUDING THOSE ADJACENT TO WASHERS, SHALL BE FREE OF SCALE, EXCEPT TIGHT MILL SCALE. USE STANDARD HOLES UNLESS NOTED OTHERWISE.

- A. PROVIDE ASTM A325, TYPE I, SNUG-TIGHTENED (ST) BOLTS WITH THREADS INCLUDED IN SHEAR PLANE, UNLESS NOTED OTHERWISE. PROVIDE ASTM A325, TYPE I, SLIP-CRITICAL (SC) BOLTS AT CRITICAL CONNECTIONS SHALL BE CLASS A, B OR C, UNLESS OTHERWISE NOTED. NUTS AND WASHERS SHALL MEET THE REQUIREMENTS OF ASTM A563 AND ASTM F436, RESPECTIVELY.
- B. ASTM A325-N BOLTS SHALL BE SNUG TIGHTENED IN ACCORDANCE WITH RCSC SPECIFICATION SECTION 8.1, UNLESS NOTED OTHERWISE. FULLY TENSION ALL ASTM A325-SC BOLTS AND ALL BOLTS REQUIRED TO BE TENSIONED BY AISC SPECIFICATION SECTION J1.10 AND RCSC SPECIFICATION SECTIONS 4.2 AND 4.3. FULLY TENSIONED BOLTS SHALL BE TIGHTENED TO THE MINIMUM TENSION USING TURN-OF-THE-NUT PRETENSIONING METHOD, CALIBRATED WRENCH PRETENSIONING METHOD, OR DIRECT-TENSION-INDICATOR PRETENSIONING METHOD USING DIRECT TENSION INDICATORS THAT MEET THE REQUIREMENTS OF ASTM F959.
- C. TENSION CONTROL BOLTS THAT MEET THE REQUIREMENTS OF ASTM F1852, TYPE I, MAY BE USED IN LIEU OF ASTM A325-ST OR ASTM A325-SC BOLTS.
5. SUBMIT SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. INDICATE AN ERECTION SEQUENCE OF WELDING TO MINIMIZE LOCKED-UP STRESSES OR DISTORTION FOR MOMENT-RESISTING STEEL FRAMES.
6. ALL STEEL NOT ENCASED IN CONCRETE, MASONRY, OR FIREPROOFING SHALL BE SHOP PRIMED AND PAINTED, EXCEPT FOR TOP FLANGE OF BEAMS SUPPORTING METAL DECK. ANY ABRASIONS OR UNPAINTED PLATES SHALL BE TOUCHED UP AFTER ERECTION.
7. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
8. WELDING SHALL CONFORM TO LATEST EDITION OF AWS D1.1/D1.1M, AS AMENDED IN CBC SECTION 2204A.1.

- A. WELDING PROCESS SHALL BE ELECTRIC ARC USING E70XX ELECTRODES. SUBMERGED ARC PROCESS (SAW) WITH AUTOMATIC WELDING MAY BE USED AS AN ALTERNATIVE.
- B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.
- C. SHOP WELDING, INCLUDING ULTRASONIC TESTING OF FULL PENETRATION GROOVE WELDS, SHALL BE PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
- D. MINIMUM FILLET WELD SIZE SHALL CONFORM TO AISC SPECIFICATION TABLE J2.4. WELD LENGTHS NOTED ON DRAWINGS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
- E. FIELD WELD SYMBOLS NOTED ON THE DRAWINGS SHOW ENGINEERING INTENT, BUT NO ATTEMPT HAS BEEN MADE TO CLASSIFY ALL WELDS. AT FABRICATOR'S OPTION, ANY WELD INDICATED AS A FIELD WELD MAY BE SHOP WELDED AND ANY WELD INDICATED AS A SHOP WELD MAY BE FIELD WELDED.
9. WELDS SHALL BE PREQUALIFIED PER AWS D1.1. NON-PREQUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST PER AWS D1.1.
10. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW A WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL WELDS USED ON PROJECT PRIOR TO FABRICATION. FOR WELDS NOT PREQUALIFIED, THE SUPPORTING PROCEDURE QUALIFICATION RECORD (PQR) SHALL ALSO BE SUBMITTED WITH THE WPS. WPS SHALL BE IN ACCORDANCE TO AWS D1.1, SECTION 4.6 AND SHALL INCLUDE THE FOLLOWING INFORMATION FOR EACH WELD TYPE AND POSITION:

- A. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS. LAYER THICKNESS SHALL NOT EXCEED 1/4 INCH, AND BEAD WIDTH SHALL NOT EXCEED 5/8 INCH.
- B. BASE METAL TYPES AND THICKNESS.
- C. APPLICABLE WELD PROCESS (SMAW OR FCAW).
- D. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
- E. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, CONTACT DISTANCE, MELT OFF RATE AND DEPOSITION RATE.
- F. A COPY OF ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION AND CERTIFICATE OF CONFORMANCE.

11. TESTING LABORATORY WILL VERIFY COMPLIANCE WITH ACCEPTED WPS AND WILL PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IF DEVIATIONS ARE FOUND.
12. ELECTRODE DIAMETER SHALL NOT EXCEED PREQUALIFIED LIMITS SHOWN IN AWS D1.1 TABLE 3.7, AS APPLICABLE. FOR FCAW PROCESS, MAXIMUM ELECTRODE SIZE SHALL NOT EXCEED 1/8 INCH.
13. DIFFUSIBLE HYDROGEN LEVEL FOR ELECTRODES AND ELECTRODE-FLUX COMBINATION SHALL MEET THE REQUIREMENTS TABLE 6.3 OF AWS D1.8/D1.8M.
14. DETAILS, MATERIALS, WORKMANSHIP, AND TESTING AND INSPECTION REQUIREMENTS OF WELDED JOINTS COMPRISING THE SFRS SHALL CONFORM TO THE FOLLOWING APPLICABLE STANDARDS:

- A. AWS D1.1/D1.1M "STRUCTURAL WELDING CODE - STEEL"
- B. AWS D1.8/D1.1M "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT."
- C. ANSIAISC 341, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", CHAPTER J (QUALITY CONTROL AND QUALITY ASSURANCE).
- D. ANSIAISC 358 "PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS."

CAST-IN-DRILLED-HOLE (CIDH) PILES

1. ALL REQUIREMENTS OF ACI 318.1 SHALL APPLY REGARDLESS OF PILE DIAMETER UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DOCUMENTS.
2. DRILLING OPERATIONS SHALL BE DONE BY PERSONS AND/OR FIRMS REGULARLY ENGAGED IN SUCH WORK.
3. CENTER OF DRILLED HOLES AND THE LONGITUDINAL CENTERLINE OF THE PILE REINFORCING CAGE SHALL NOT VARY FROM REQUIRED LOCATION BY MORE THAN TWO INCHES. LONGITUDINAL AXIS SHALL NOT BE OUT OF PLUMB BY MORE THAN TWO PERCENT FROM THE VERTICAL DIRECTION. THE CONTRACTOR SHALL MAINTAIN A RECORD OF THE AS-BUILT LOCATION OF THE CENTER OF ALL PILES. PILES CONSTRUCTED IN EXCESS OF THE ABOVE CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW.
4. DRILLED HOLES SHALL BE FILLED WITH CONCRETE AS SOON AS POSSIBLE AFTER DRILLING. DO NOT LEAVE HOLES OPEN OVERNIGHT.
5. CONCRETE SHALL BE VIBRATED FOR THE ENTIRE LENGTH OF THE PILE USING SUITABLE MEANS AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT.
6. CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION. CONSTRUCTION JOINTS IN CIDH PILES ARE NOT PERMITTED.
7. DRILLING OPERATIONS AND PLACING OF REINFORCING STEEL AND CONCRETE SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER AND DEPUTY INSPECTOR RETAINED BY OWNER AND SATISFACTORY TO ARCHITECT (STRUCTURAL ENGINEER) AND DSA. PERFORM SPECIAL INSPECTIONS REQUIRED OF THIS CONTRACT AND CBC SECTION 1705A.8.
8. REFER TO CAST-IN-PLACE CONCRETE AND REINFORCING STEEL GENERAL NOTES FOR BALANCE OF CONCRETE AND REINFORCING STEEL REQUIREMENTS.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.
- A. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28-DAY (F<sub>c</sub>), UNLESS NOTED OTHERWISE:
- |                |           |                   |
|----------------|-----------|-------------------|
| PILE CAPS      | 4,000 PSI | NORMAL WEIGHT     |
| (CIDH) PILES   | 4,000 PSI | NORMAL WEIGHT     |
| OTHER CONCRETE | 3,000 PSI | NORMAL WEIGHT UNO |
2. UNLESS NOTED OTHERWISE HEREIN, CONCRETE IS ASSIGNED TO EXPOSURE CLASSES F0, S0, W0, AND C0, AS DEFINED IN TABLE 19.3.1.1 OF ACI 318.
- A. CONCRETE IN CONTACT WITH SITE SOIL SHALL BE ASSIGNED TO EXPOSURE CLASS S0.
3. PORTLAND CEMENT FOR CONCRETE IN EXPOSURE CLASS S0 SHALL CONFORM TO ASTM C150, TYPE II (OR OTHER TYPES OF PORTLAND CEMENT WITH C3A CONTENT LESS THAN 8 PERCENT).
4. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM DRY UNIT WEIGHT OF 145 PCF.
5. AGGREGATES FOR LIGHTWEIGHT CONCRETE SHALL BE EXPANDED SHALE CONFORMING TO ASTM C330. PRESIZE AGGREGATE BEFORE FIRING TO ALLOW OUTER CERAMIC SHELL TO REMAIN INTACT. LIGHTWEIGHT CONCRETE SHALL HAVE A DRY UNIT WEIGHT OF 110±3 PCF AND AIR CONTENT OF 4.5±1.5 PERCENT AS MEASURED BY THE VOLUMETRIC METHOD DESCRIBED IN ASTM C173.
6. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2 INCHES FOR FOUNDATIONS AND 1 INCH ELSEWHERE, BUT NO LARGER THAN (A) 1/5 THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, (B) 1/3 THE DEPTH OF SLABS, OR (C) 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES, BUNDLES OF BARS, INDIVIDUAL TENDONS, BUNDLED TENDONS, OR DUCTS. SMALLER AGGREGATE SIZES MAY BE ALLOWED WITH THE APPROVAL OF THE ARCHITECT (STRUCTURAL ENGINEER).
7. MAXIMUM SLUMP SHALL BE 5 INCHES TYPICALLY AND 4 INCHES IN FLATWORK, UNLESS A HIGH-RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) IS USED IN THE CONCRETE MIX PROPORTIONS.
8. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.05 PERCENT AT 35 DAYS AS DETERMINED BY ASTM C157. TEST SPECIMENS SHALL BE MOIST CURED IN LIME SATURATED WATER FOR 28 DAYS AND AIR STORED FOR 7 DAYS.
9. WATER CEMENT RATIO SHALL NOT EXCEED 0.50.
10. CONCRETE MIX PROPORTIONING SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SHALL BE SUBMITTED TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND APPROVAL.

- A. STRENGTH: CONCRETE MIX PROPORTIONING SHALL BE BASED ON FIELD EXPERIENCE AND/OR TRIAL MIXTURES AS STIPULATED IN ACI 301, ARTICLE 4.2.3. SUBMIT CONCRETE MIX PROPORTIONING DATA, INCLUDING HISTORICAL STRENGTH RECORDS AND/OR RESULTS OF TRIAL MIXTURES, FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE.
11. CONCRETE MIXING SHALL CONFORM TO ASTM C94.
12. PRIOR TO PLACING CONCRETE, REINFORCING BARS (INCLUDING WELDED WIRE REINFORCEMENT), EMBEDDED PLATES, ANCHOR BOLTS, AND OTHER CONCRETE EMBEDMENTS SHALL BE WELL SECURED IN POSITION.
13. CONCRETE PLACEMENT SHALL CONFORM TO ACI 304 AND CONTRACT DOCUMENTS. INTENTIONALLY ROUGHEN ALL PREVIOUSLY HARDENED CONCRETE SURFACES TO A FULL AMPLITUDE OF 1/4-INCH AGAINST WHICH FRESH CONCRETE IS PLACED.
14. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER).
15. GROUT SHALL BE NON-SHRINK, NON-METALLIC, SHALL NOT CONTAIN CHLORIDES, AND SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.
16. LEAN CONCRETE SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. USE ONLY WHERE SPECIFICALLY INDICATED.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE TO AMERICAN CONCRETE INSTITUTE ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615/A615M, GRADE 60, UNLESS NOTED OTHERWISE. BARS TO BE WELDED SHALL CONFORM TO LOW ALLOY ASTM A706/A706M, GRADE 60.
3. DEFORMED LONGITUDINAL REINFORCEMENT RESISTING EARTHQUAKE-INDUCED MOMENT, AXIAL FORCE, OR BOTH, IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURE WALLS, AND ALL COMPONENTS OF SPECIAL STRUCTURAL WALLS INCLUDING COUPLING BEAMS AND WALL PIERS SHALL COMPLY WITH ASTM A706/A706M, GRADE 60. ASTM A615/A615M GRADES 40 AND 60 REINFORCEMENT SHALL BE PERMITTED IN THESE MEMBERS IF:
- A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI.
- B. FOR ASTM A615/A615M GRADE 40 REINFORCEMENT, THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
- C. FOR ASTM A615/A615M GRADE 60 REINFORCEMENT, THE MINIMUM ELONGATION IN 8 INCHES SHALL BE AS FOLLOWS:
- |                         |              |
|-------------------------|--------------|
| 1. NO. 3 THROUGH NO. 6  | = 14 PERCENT |
| 2. NO. 7 THROUGH NO. 11 | = 12 PERCENT |
| 3. NO. 14 AND NO. 18    | = 10 PERCENT |

4. HEADED STEEL REINFORCING BAR ANCHORS SHALL BE LENTON TERMINATOR BY ERICO INTERNATIONAL CORPORATION (IAPMO UES EVALUATION REPORT NO. 0188) OR APPROVED EQUIVALENT. HEADED STEEL REINFORCING BAR ANCHORS MAY BE USED IN LIEU OF STANDARD HOOKS ONLY WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
5. MECHANICAL COUPLERS FOR SPLICING REINFORCING BARS SHALL BE LENTON STANDARD COUPLERS OR LENTON FORM SAVER COUPLERS, SA OR FS SERIES, BY ERICO INTERNATIONAL CORPORATION (IAPMO UES EVALUATION REPORT NO. 0129) OR APPROVED EQUIVALENT. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICING REINFORCING BARS ONLY WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
6. PREPARE REINFORCING STEEL SHOP DRAWINGS IN ACCORDANCE TO ACI 315, PART B. SHOP DRAWINGS MAY BE PREPARED MANUALLY OR BY COMPUTER. PLACING DRAWINGS SHALL BE PREPARED TO THE SAME STANDARD AS CONTRACT DRAWINGS. SHOW REINFORCING PLACEMENT, SPLICE LOCATIONS, REINFORCING LENGTHS, DETAILS, ELEVATIONS, BEND DETAILS, ETC. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW PRIOR TO FABRICATION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING REINFORCING STEEL SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN REINFORCING STEEL OR OTHER CONGESTION IS ENCOUNTERED. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. IF SUBMITTAL IS PARTIAL, CLEARLY INDICATE ITEMS EXCLUDED FROM SUBMITTAL. SHOP DRAWINGS WILL BE REJECTED IF NOT PREPARED TO THE STANDARDS STATED ABOVE.
7. REINFORCING STEEL SHALL BE SPLICED AS SHOWN ON THE DRAWINGS. IF NOT SHOWN, LOCATE SPLICES IN AREAS OF MINIMUM STRESS. LAP (SPICE) LENGTHS ARE AS INDICATED ON THE DRAWINGS.
8. MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING SPLICED BARS SHALL BE ONE INCH, ONE BAR DIAMETER, OR 4/3 TIMES THE MAXIMUM SIZE AGGREGATE, WHICHEVER IS GREATER. PROVIDE 1 1/2 INCHES OR 1 1/2 BAR DIAMETERS, WHICHEVER IS GREATER, AT COLUMNS ONLY. FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.
9. PROVIDE THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL PLACED IN CAST-IN-PLACE CONCRETE:

- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
- |  |        |
|--|--------|
| 3"   |        |
| a. CONCRETE EXPOSED TO EARTH OR WEATHER:                   |        |
| NO. 6 THROUGH NO. 18 BARS                                  | 2"     |
| NO. 5 BARS, W31 OR D31 WIRE, AND SMALLER                   | 1-1/2" |
| b. CONCRETE NOT EXPOSED WEATHER OR IN CONTACT WITH GROUND: |        |
| SLAB, WALLS, JOISTS:                                       |        |
| NO. 14 AND NO. 18 BARS                                     | 1-1/2" |
| NO. 11 BARS AND SMALLER (*)                                | 1"     |
| BEAMS AND COLUMNS  |        |
| PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS             | 1-1/2" |
- B. SLAB-ON-GRADE
- |  |  |
|--|--|
| MID-HEIGHT OF SLAB   |  |
| (*) CONCRETE COVERAGE ADEQUATE FOR FIRE-RESISTIVE PERIOD OF 2 HOURS. |  |
10. USE PLASTIC OR PLASTIC COATED SPACERS AND CHAIRS IF RESTING ON EXPOSED CONCRETE SURFACES.
11. WELDING OF REINFORCING STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH AMERICAN WELD SOCIETY AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL".
- A. EXCEPT FOR REINFORCING STEEL CONFORMING TO ASTM A706/A706M, DETERMINE CARBON EQUIVALENT OF ALL REINFORCING STEEL TO BE WELDED. SUBMIT WPS FOR ALL REINFORCING STEEL TO BE WELDED TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND TO DSA FOR APPROVAL PRIOR TO EXECUTION. WPS SHALL INCLUDE:

1. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS.
2. APPLICABLE WELD PROCESS.
3. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
4. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, MELT OFF RATE AND DEPOSITION RATE.
5. PREHEAT TEMPERATURES.
6. PROCEDURE QUALIFICATION RECORDS (PQR) FOR ALL WPS'S QUALIFIED BY TESTING.
- B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE DSA.
12. REINFORCING STEEL BENDS SHALL BE MADE COLD. RE-BENDING OF PREVIOUSLY BENT REINFORCING IS NOT PERMITTED.
13. ALL REINFORCING STEEL, INCLUDING WELDED WIRE REINFORCING, SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, CONCRETE BLOCKS, CHAIRS, BOLSTERS, ETC. SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCING. HOOKING AND WALKING-IN IS NOT PERMITTED.
14. ALL REINFORCING STEEL SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN FINAL INSPECTION IS CONDUCTED.

GENERAL

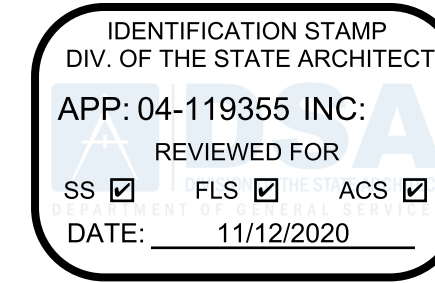
1. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE 2019 CALIFORNIA BUILDING CODE, AS AMENDED BY THE DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.
2. CODES, STANDARDS, AND SPECIFICATIONS, INCLUDING ADDENDA AND SUPPLEMENTS, REFERENCED IN THE CONTRACT DOCUMENTS SHALL BE THE LATEST APPROVED ISSUE, UNLESS SPECIFICALLY NOTED.
3. NOTES AND DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. IF CONFLICT OCCURS BETWEEN THE CONTRACT DRAWINGS, IMMEDIATELY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) FOR RESOLUTION. DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.
4. DESIGN LIVE LOADS ARE NOTED ON DRAWINGS.
5. RISK CATEGORY = II
6. CODE LEVEL WIND DESIGN DATA:
- a. DESIGN WIND SPEED, V<sub>ult</sub> (ULTIMATE) = 97 MPH
- b. EXPOSURE CATEGORY = C
- c. ENCLOSURE CLASSIFICATION = ENCLOSED BUILDING
- d. INTERNAL PRESSURE COEFFICIENT, GCpi = ± 0.18
7. CODE LEVEL EARTHQUAKE DESIGN DATA:
- a. SITE COORDINATES = 32.7471 "N, -116.9438 "W
- b. MAPPED SPECTRAL RESPONSE ACCELERATION, S<sub>s</sub> = 0.747g
- c. MAPPED SPECTRAL RESPONSE ACCELERATION, S<sub>1</sub> = 0.275g
- d. SITE CLASS = C
- e. DESIGN SPECTRAL RESPONSE COEFFICIENT, S<sub>DS</sub> = 0.598g
- f. DESIGN SPECTRAL RESPONSE COEFFICIENT, S<sub>01</sub> = 0.275g
- g. IMPORTANCE FACTOR, I<sub>e</sub> = 1.0
- h. SEISMIC DESIGN CATEGORY = D
- i. RESPONSE MODIFICATION FACTOR, R = 3
- j. ANALYTICAL PROCEDURE = EQUIVALENT LATERAL FORCE
- DESIGN BASE SHEAR = 3.69 K (LRFD)
8. GOVERNING CODE AUTHORITY: DIVISION OF STATE ARCHITECTS (DSA) - STRUCTURAL SAFETY.
9. CONTRACT DOCUMENTS INDICATE INFORMATION SUFFICIENT TO CONVEY DESIGN INTENT. REVIEW CONTRACT DOCUMENTS AND VERIFY FIELD AND EXISTING CONDITIONS. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER), PRIOR TO PROCEEDING WITH WORK, IF FURTHER CLARIFICATION OF DESIGN INTENT IS NEEDED.
10. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT (STRUCTURAL ENGINEER) OF ANY DISCREPANCIES.
11. PERFORM STRUCTURAL RELATED WORK AND DEVELOP SHOP DRAWINGS CONSIDERING CONTRACT DOCUMENTS IN THEIR ENTIRETY. CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED AS DETAILED FOR SIMILAR WORK.
12. CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION. COMPLY WITH THE STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH REGULATIONS. CONSTRUCTION MATERIALS, IF PLACED ON FRAMED FLOORS AND ROOFS, SHALL BE SPREAD OUT SUCH THAT THE DESIGN LIVE LOAD PER SQUARE FOOT IS NOT EXCEEDED. PROVIDE ADEQUATE SHORING IF OVERLOAD IS ANTICIPATED OR WHERE STRUCTURAL ELEMENTS HAVE NOT ATTAINED FULL DESIGN STRENGTH. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT CONSTITUTE ACCEPTANCE OF CONSTRUCTION MEANS AND METHODS.
13. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION TO ARCHITECT (STRUCTURAL ENGINEER). ARCHITECT'S (STRUCTURAL ENGINEER'S) REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN INTENT AND DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF CONTRACT. WHEN INDICATED, THE SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. MAINTAIN AT SITE A COPY OF REVIEWED AND ACCEPTED SUBMITTALS.
14. MODIFICATIONS AND SUBSTITUTIONS MUST BE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). NO MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE DSA PRIOR TO THEIR USE. ADHERE TO ALL CONDITIONS OF THOSE APPROVALS.
15. "TYPICAL DETAILS" ARE APPLICABLE THROUGHOUT CONSTRUCTION DOCUMENTS AND MAY NOT BE SPECIFICALLY REFERENCED THEREIN. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE TYPICAL DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.
16. UNLESS SPECIFICALLY SHOWN ON THE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
17. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART1, TITLE 24, CCR.
18. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

FOUNDATIONS

1. DESIGN OF FOUNDATION SYSTEM BASED ON RECOMMENDATIONS IN REPORT OF GEOTECHNICAL ENGINEERING INVESTIGATION, BY GROUP DELTA CONSULTANTS, INC., DATED FEB 7, 2020, AND ALL SUBSEQUENT ADDENDA. REPORT OF GEOTECHNICAL ENGINEERING INVESTIGATION AND ADDENDA SHALL BE CONSIDERED PART OF THESE CONTRACT DOCUMENTS AND SHALL BE KEPT AT JOB SITE AT ALL TIMES.
2. CIDH PILE AXIAL CAPACITY DERIVED FROM FRICTION WITHIN BOTH THE COMPACTED FILL AND GRANITOID ROCK. ALLOWABLE SHAFT RESISTANCE OF 800 AND 550 PSF FOR COMPRESSION AND TENSION, RESPECTIVELY. REFER TO GEOTECHNICAL REPORT ADDENDUM NO. 01.
3. ALLOWABLE PASSIVE PRESSURE RESISTANCE OF 1.55 KIPS PER LINEAR FOOT ALONG THE LENGTH OF THE PILE CAP. PASSIVE PRESSURE ASSOCIATED WITH AN ESTIMATED LATERAL DEFLECTION OF 0.35 INCHES AT THE PILE HEAD. REFER TO GEOTECHNICAL REPORT ADDENDUM NO. 01.
4. EXCAVATION, BACKFILL, AND COMPACTION SHALL BE DONE IN STRICT ACCORDANCE WITH REPORT OF GEOTECHNICAL ENGINEERING INVESTIGATION RECOMMENDATIONS.
5. FOUNDATION EARTHWORK SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER RETAINED BY OWNER AND SATISFACTORY TO ARCHITECT (STRUCTURAL ENGINEER) AND DSA. PERFORM REQUIRED OBSERVATIONS OF THIS CONTRACT AND CBC SECTION 1705.6.
6. FOUNDATION EXCAVATION, BACKFILLING, AND COMPACTION SHALL BE OBSERVED AND APPROVED BY A GEOTECHNICAL ENGINEER AND THE GOVERNING AGENCY PRIOR TO PLACING REINFORCING STEEL AND CONCRETE. GEOTECHNICAL ENGINEER SHALL PROVIDE A LETTER OF COMPLIANCE TO THE OWNER.
7. TEMPORARY CUT SLOPES SHALL NOT EXCEED THOSE RECOMMENDED IN THE REPORT OF GEOTECHNICAL ENGINEERING INVESTIGATION. DO NOT PERMIT ANY PERSON TO DESCEND INTO TRENCHES OR EXCAVATIONS GREATER THAN FIVE FEET IN DEPTH UNLESS NECESSARY PERMIT FROM STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY IS OBTAINED PRIOR TO ISSUANCE OF BUILDING OR GRADING PERMIT. CONTRACTOR TO PROVIDE FOR DESIGN, PERMIT, AND INSTALLATION OF ALL SHORING AND SHEATHING NECESSARY TO SAFELY RETAIN EARTH BANKS.

Agency Approval:

File No.: 37-CS



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Keynotes:

Consultant:



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Project:  
CUYAMACA COLLEGE TRACK AND FIELD IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:

GENERAL NOTES

DSA BACKCHECK SUBMITTAL

Date:	11/4/2020	Client Project No:	5028014100
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TABLE 8 (ANSI/AISC 341 APPENDIX J) REQUIRED VERIFICATION AND INSPECTION OF SLRS			
8.1.1	VISUAL INSPECTION TASKS BEFORE WELDING	TASK	DOC
MATERIAL IDENTIFICATION (TYPE/GRADE)		O	–
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		O	–
- JOINT PREPARATION			
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)			
- CLEANLINESS (CONDITION OF STEEL SURFACES)			
- TACKING (TACK WELD QUALITY AND LOCATION)			
- BACKING TYPE AND FIT (IF APPLICABLE)			
CONFIGURATION AND FINISH OF ACCESS HOLES		O	–
FIT-UP OF FILLET WELDS		O	–
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)			
- CLEANLINESS (CONDITION OF STEEL SURFACES)			
- TACKING (TACK WELD QUALITY AND LOCATION)			
8.1.2	VISUAL INSPECTION TASKS DURING WELDING	TASK	DOC
WPS FOLLOWED		O	–
- SETTINGS ON WELDING EQUIPMENT			
- TRAVEL SPEED			
- SELECTED WELDING MATERIALS			
- SHIELDING GAS TYPE/ FLOW RATE			
- PREHEAT APPLIED			
- INTERPASS TEMPERATURE MAINTAINED (MIN/ MAX)			
- PROPER POSITION (F, V, H, OH)			
- INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED			
USE OF QUALIFIED WELDERS			
CONTROL AND HANDLING OF WELDING CONSUMABLES		O	–
- PACKAGING			
- EXPOSURE CONTROL			
ENVIRONMENTAL CONDITIONS		O	–
- WIND SPEED WITHIN LIMITS			
- PRECIPITATION AND TEMPERATURE			
WELDING TECHNIQUES		O	–
- INTERPASS AND FINAL CLEANING			
- EACH PASS WITHIN PROFILE LIMITATIONS			
- EACH PASS MEETS QUALITY REQUIREMENTS			
NO WELDING OVER CRACKED TACKS		O	–
8.1.3	VISUAL INSPECTION TASKS AFTER WELDING	TASK	DOC
WELDS CLEANED		O	–
WEDER IDENTIFICATION LEGIBLE		O	–
VERIFY SIZE, LENGTH AND LOCATION OF WELDS		P	–
VISUALLY INSPECT WELDS TO ACCEPTANCE CRITERIA		P	D
- CRACK PROHIBITION			
- WELD/ BASE-METAL FUSION			
- CRATER CROSS-SECTION			
- WELD PROFILES			
- WELD SIZE			
- UNDERCUT			
- POROSITY			
PLACEMENT OF REINFORCEMENT FILLETS		P	D
BACKING BARS REMOVED AND WELD TABS REMOVED AND FINISHED (IF REQUIRED)		P	D
REPAIR ACTIVITIES		P	D

8.2.1	INSPECTION TASKS PRIOR TO BOLTING	TASK	DOC
PROPER BOLTS SELECTED FOR THE JOINT DETAIL		O	–
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		O	–
CONNECTING ELEMENTS ARE FABRICATED PROPERLY, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEETS APPLICABLE REQUIREMENTS		O	–
PRE-INSTALLATION VERIFICATION TESTING CONDUCTED FOR FASTENER ASSEMBLIES AND METHODS USED		P	D
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		O	–
8.2.2	INSPECTION TASKS DURING BOLTING	TASK	DOC
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE PROPERLY POSITIONED		O	–
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		O	–
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		O	–
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD FREE EDGES		O	–
8.2.3	INSPECTION TASKS AFTER BOLTING	TASK	DOC
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS		P	D
8.3.1	OTHER INSPECTION TASK	TASK	DOC
REDUCED BEAM SECTION (RBS) REQUIREMENTS, IF APPLICABLE		P	D
- CONTOUR AND FINISH			
- DIMENSIONAL TOLERANCES			
PROTECTED ZONE - NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY CONTRACTOR		P	D

TABLE 4 (CBC TABLE 1704A.8) REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS			
VERIFICATION AND INSPECTION TASK		CONTINUOUS	PERIODIC
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER.		X	–
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.		X	–
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH TABLE 2.		–	–

KEY

DOCUMENT (D) - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLE 8. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.

OBSERVE (O) - THE SPECIAL INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. WELDING OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.

PERFORM (P) - THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

TABLE 1 (CBC TABLE 1705A.2.1) REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION			
VERIFICATION AND INSPECTION TASK		CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		–	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		–	X
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
A. SNUG-TIGHT JOINTS.		–	X
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF THE NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.		–	X
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF THE NUT WITHOUT MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.		X	–
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:			
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.		–	X
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		–	X
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		–	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.		–	X
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		–	X
5. INSPECTION OF WELDING:			
A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK:			
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.		X	–
2) MULTIPASS FILLET WELDS.		X	–
3) SINGLE-PASS FILLET WELDS > 5/16"		X	–
4) PLUG AND SLOT WELDS		X	–
5) SINGLE-PASS FILLET WELDS ≤ 5/16"		–	X
6) FLOOR AND ROOF DECK WELDS.		–	X
B. REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.		–	X
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF SHEAR AND SHEAR REINFORCEMENT.		X	–
3) SHEAR REINFORCEMENT.		X	–
4) OTHER REINFORCING STEEL.		–	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.			
A. DETAILS SUCH AS BRACING AND STIFFENING		–	X
B. MEMBER LOCATIONS		–	X
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		–	X

TABLE 2 (CBC TABLE 1705A.3) REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION			
VERIFICATION AND INSPECTION TASK		CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		–	X
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1, ITEM 5B.		–	–
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.		X	–
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.		–	X
5. VERIFYING USE OF REQUIRED DESIGN MIX.		–	X
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	–
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X	–
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		–	X
9. INSPECTION OF PRESTRESSED CONCRETE:			
A. APPLICATION OF PRESTRESSING FORCES.		X	
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.		X	–
10. ERECTION OF PRECAST CONCRETE MEMBERS.		–	X
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		–	X
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		–	X

TABLE 3 (CBC 1705A.6) REQUIRED VERIFICATION AND INSPECTION OF SOILS			
VERIFICATION AND INSPECTION TASK		CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		–	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.		–	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.		X	–
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		–	X

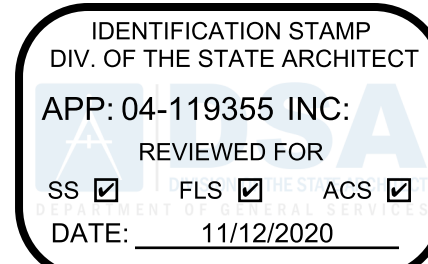
STATEMENT OF SPECIAL INSPECTIONS

- AN APPROVED AGENCY, RETAINED BY OWNER AND SATISFACTORY TO ARCHITECT (STRUCTURAL ENGINEER) AND DSA, SHALL PERFORM REQUIRED TESTS AND SPECIAL INSPECTIONS OF THIS CONTRACT AND APPLICABLE CODE. AN APPROVED AGENCY IS AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS AND/OR FURNISHING INSPECTION SERVICES, WHEN SUCH AN AGENCY IS APPROVED.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, TITLE 24, CCR.
- APPROVED AGENCY SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO DSA AND THE ARCHITECT (STRUCTURAL ENGINEER). REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS DONE IN CONFORMANCE OR NONCONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. NONCONFORMITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE NONCONFORMITIES SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF NONCONFORMITIES SHALL BE SUBMITTED UPON COMPLETION OF WORK.
- WHERE FABRICATION OF STRUCTURAL MEMBERS AND ASSEMBLIES IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF FABRICATED ITEMS ARE REQUIRED. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY DSA TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
- CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATION OR LABORATORY TEST REPORTS CERTIFYING MATERIALS ARE OF IDENTIFIABLE TESTED STOCK, COMPLYING WITH PROJECT SPECIFICATIONS, TO OWNER, APPROVED AGENCY, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO DSA. IF LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, APPROVED AGENCY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT (STRUCTURAL ENGINEER). CONTRACTOR SHALL PAY FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS. MATERIALS FURNISHED WITHOUT LABORATORY TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, AND/OR MATERIALS REPLACING DEFICIENT MATERIALS.
- DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS OF THE PROJECT
- APPROVED AGENCY SHALL SUBMIT MATERIAL TEST REPORTS INDICATING WHETHER TESTED MATERIALS ARE IN COMPLIANCE OR NONCOMPLIANCE WITH CONTRACT DOCUMENTS TO OWNER, CONTRACTOR, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO DSA.
- APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS IN ACCORDANCE WITH CBC SECTION 1704A AND WITH THIS SHEET FOR THE FOLLOWING WORK. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL TEST AND INSPECTION REQUIREMENTS.
  - STEEL CONSTRUCTION: SEE TABLE 1.
  - SOILS: SEE TABLE 3.
  - CAST-IN-PLACE DEEP FOUNDATIONS: SEE TABLE 4.
- APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE IN ACCORDANCE WITH CBC SECTION 1707A FOR THE FOLLOWING WORK:
  - STRUCTURAL STEEL: SEE TABLE 8 AND THE FOLLOWING NONDESTRUCTIVE TESTING (NDT) OF WELDS:
    - PROCEDURES
      - ULTRASONIC TESTING (UT) SHALL BE PERFORMED ACCORDING TO THE PROCEDURES PRESCRIBED IN ANSI/AISC 341-10 APPENDIX J, SECTION J6.
      - MAGNETIC PARTICLE TESTING (MT) SHALL BE PERFORMED ACCORDING TO THE PROCEDURES PRESCRIBED IN ANSI/AISC 341-10 APPENDIX J, SECTION J6.
    - REQUIRED NDT
      - K-AREA NDT: WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, THE WEB SHALL BE TESTED FOR CRACKS USING MT. THE MT INSPECTION AREA SHALL INCLUDE THE K-AREA BASE METAL WITHIN 3 INCHES OF THE WELD.
      - CJP GROOVE WELD NDT: UT SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 INCH OR GREATER. UT IN MATERIAL LESS THAN 5/16 INCH THICK IS NOT REQUIRED. MT SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.
      - BASE METAL NOT FOR LAMELLAR TEARING AND LAMINATIONS: AFTER JOINT COMPLETION, BASE METAL THICKER THAN 1-1/2 INCHES LOADED IN TENSION IN THE THROUGH THICKNESS DIRECTION IN TEE AND CORNER JOINTS, WHERE THE CONNECTED MATERIAL IS GREATER THAN 3/4 INCH AND CONTAINS CJP GROOVE WELDS, SHALL BE UT FOR DISCONTINUITIES BEHIND AND ADJACENT TO THE FUSION LINE OF SUCH WELDS. ANY BASE METAL DISCONTINUITIES FOUND WITHIN T/4 OF THE STEEL SURFACE SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1 TABLE 6.2, WHERE T IS THE THICKNESS OF THE PART SUBJECTED TO THE THROUGH-THICKNESS STRAIN.

DEFINITIONS:

- CONTINUOUS - THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
- PERIODIC - THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK.

Agency Approval:



File No.: 37-CS



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EL CAJON, CA 92019

Project:  
CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:

GENERAL NOTES

DSA BACKCHECK SUBMITTAL

Date: 11/4/2020

Client Project No: 5028014100

Sheet:

S0.02



ABBREVIATIONS

#	POUNDS, NUMBER
&	AND
<	LESS THAN
>	GREATER THAN
@	AT
°	DEGREE
±	PLUS OR MINUS
≤	LESS THAN OR EQUAL TO
≥	GREATER THAN OR EQUAL TO

A	AA	ADHESIVE ANCHOR
A	AB	ANCHOR BOLT(S)
A	ABV	ABOVE
A	ADDL	ADDITIONAL
A	ADDN	ADDITION
A	ADJ	ADJACENT, ADJUSTABLE
A	AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
A	ALT	ALTERNATE
A	ANCH	ANCHOR
A	APPROX	APPROXIMATE
A	AR	ALL AROUND
A	ARCH	ARCHITECTURAL

B	BAL	BALANCE
B	BC	BOTTOM CHORD
B	BE	BOUNDARY ELEMENT
B	BEL	BELOW
B	BLDG	BUILDING
B	BLKG	BLOCKING
B	BLL	BOTTOM LOWER LAYER
B	BM	BEAM
B	BN	BOUNDARY NAILING
B	BO	BOTTOM OF
B	BOBP	BOTTOM OF BASE PLATE
B	BOS	BOTTOM OF STEEL
B	BOT	BOTTOM
B	BP	BASE PLATE
B	BPL	BEARING PLATE
B	BRB	BUCKLING-RESTRAINED BRACE
B	BRBF	BUCKLING-RESTRAINED BRACED FRAME
B	BRCG	BRACING
B	BRDG	BRIDGING
B	BRG	BEARING
B	BS	BOTH SIDES
B	BSMT	BASEMENT
B	BTWN	BETWEEN
B	BU	BUILT-UP
B	BUL	BOTTOM UPPER LAYER
B	BYD	BEYOND

C	C	CAMBER
C	CA	COLUMN ABOVE
C	CANT	CANTILEVER
C	CB	COLUMN BELOW
C	CC	CENTER TO CENTER
C	CF	CUBIC FEET
C	CHKD	CHECKERED
C	CIP	CAST-IN-PLACE
C	CJ	CONSTRUCTION JOINT
C	CJP	COMPLETE JOINT PENETRATION
C	CL	CENTERLINE
C	CLG	CEILING
C	CLR	CLEAR
C	CLSM	CONTROL LOW STRENGTH MATERIAL
C	CMU	CONCRETE MASONRY UNIT
C	COL	COLUMN
C	CONC	CONCRETE
C	CONN	CONNECTION
C	CONST	CONSTRUCTION
C	CONT	CONTINUOUS, CONTINUITY
C	CONTR	CONTRACTOR
C	COORD	COORDINATE, COORDINATES
C	CTR	CENTER
C	CTRL JT	CONTROL JOINT
C	CVN	CHARPY V-NOTCH
C	CY	CUBIC YARD
C	CYL	CYLINDER

D	DBA	DEFORMED BAR ANCHOR
D	DBL	DOUBLE
D	DBLR	DOUBLER
D	DEG	DEGREE
D	DEGF	DEGREE FAHRENHEIT
D	DEPR	DEPRESS, DEPRESSED, DEPRESSION
D	DET	DETAIL
D	DF-L	DOUGLAS FIR - LARCH
D	DIA	DIAMETER
D	DIAG	DIAGONAL
D	DIAPH	DIAPHRAGM
D	DIM	DIMENSION
D	DL	DEAD LOAD
D	DN	DOWN
D	DO	DITTO
D	DWG	DRAWING
D	DWL	DOWEL

ABBREVIATIONS

E	(E)	EXISTING
E	EA	EACH
E	EB	EXPANSION (ANCHOR) BOLT
E	EBF	ECCENTRICALLY BRACED FRAME
E	EF	EACH FACE
E	EFF	EFFECTIVE
E	EJ	EXANSION JOINT
E	EL	ELEVATION
E	ELEC	ELECTRICAL
E	ELEV	ELEVATOR
E	EMBD	EMBEDMENT, EMBED
E	EN	EDGE NAILING
E	ENGR	ENGINEER
E	EOR	ENGINEER OF RECORD
E	EOS	EDGE OF SLAB
E	EPL	EMBEDDED PLATE
E	EQ	EQUAL
E	EQUIP	EQUIPMENT
E	ES	EACH SIDE
E	ESC	ESCALATOR
E	EW	EACH WAY
E	EWTB	EACH WAY TOP AND BOTTOM
E	EXC	EXCAVATE
E	EXP	EXPANSION
E	EXT	EXTERIOR

F	F	FAHRENHEIT
F	FAB	FABRICATE, FABRICATION
F	FCAW	FLUX CORED ARC WELDING
F	FDN	FOUNDATION
F	FF	FAR FACE
F	FIN	FINISH
F	FJ	FLOOR JOIST
F	FLG	FLANGE
F	FLR	FLOOR
F	FN	FIELD NAILING
F	FO	FACE OF
F	FOC	FACE OF CONCRETE
F	FOF	FACE OF FINISH
F	FOGB	FACE OF GYPSUM BOARD
F	FOS	FACE OF STUD
F	FOW	FACE OF WALL
F	FP	FIREPROOF, FIREPROOFING
F	FRMG	FRAMING
F	FS	FAR SIDE
F	FT	FOOT, FEET, FLUSH TOP
F	FTG	FOOTING
F	FUT	FUTURE

G	GA	GAGE, GAUGE
G	GALV	GALVANIZED
G	GEN	GENERAL
G	GFRG	GLASS FIBER REINFORCED CONCRETE
G	GLB	GLUE-LAMINATED BEAM
G	GMAW	GAS METAL ARC WELDING
G	GOL	GAGE OF ANGLE
G	GR	GRADE
G	GRTG	GRATING
G	HT	GROUND

H	HAZ	HEATED AFFECTED ZONE
H	HCA	HEADED CONCRETE ANCHOR
H	HDG	HOT DIPPED GALVANIZED
H	HDR	HEADER
H	HGR	HANGER
H	HORIZ, (H)	HORIZONTAL
H	HP	HIGH POINT
H	HR	HANDRAIL
H	HS	HIGH STRENGTH
H	HSB	HIGH STRENGTH BOLT
H	HT	HEIGHT

I	I.F	INSIDE FACE
I	ICC-ES	INTERNATIONAL CODE COUNCIL EVALUATION SERVICE
I	ID	INSIDE DIAMETER
I	IE	INVERT ELEVATION
I	IMF	INTERMEDIATE MOMENT FRAME
I	IN	INCH
I	INFO	INFORMATION
I	INSP	INSPECTION, INSPECTOR
I	INSU	INSULATING
I	INT	INTERIOR
I	INTER	INTERMEDIATE
I	IRMSW	INTERMEDIATE REINFORCED MASONRY SHEAR WALL

J	JST	JOIST
J	JT	JOINT

K	K	KIP (KILOPOUND)(1000 POUNDS)
K	KSF	KIP PER SQUARE FOOT
K	KSI	KIP PER SQUARE INCH

ABBREVIATIONS

L	LAM	LAMINATED
L	LB	LAG BOLT, POUND
L	LG	LONG
L	LL	LIVE LOAD
L	LLBB	LONG LEG BACK TO BACK
L	LLH	LONG LEG HORIZONTAL
L	LLV	LONG LEG VERTICAL
L	LNDG	LANDING
L	LNTL	LINTEL
L	LONGIT	LONGITUDINAL
L	LP	LOW POINT
L	LSH	LONG SLOTTED HOLE
L	LTWT	LIGHTWEIGHT
L	LVL	LAMINATED VENEER LUMBER
L	LWC	LIGHTWEIGHT CONCRETE

M	MAX	MAXIMUM
M	MB	MACHINE BOLT
M	MC	MOMENT CONNECTION
M	MECH	MECHANICAL
M	MEMB	MEMBER, MEMBRANE
M	MEZZ	MEZZANINE
M	MFR	MANUFACTURE(R)
M	MIN	MINIMUM
M	MISC	MISCELLANEOUS
M	MOV	MOVABLE
M	MR	MILD REINFORCED, MILD REINFORCING
M	MT	MAGNETIC PARTICLE TESTING
M	MTL	METAL
M	MWFRS	MAIN WIND-FORCE RESISTING SYSTEM

N	(N)	NEW
N	NDT	NON-DESTRUCTIVE TESTING
N	NF	NEAR FACE
N	NIC	NOT IN CONTRACT
N	NIP	NOT IN PERMIT
N	NO	NUMBER, NORTH
N	NOM	NOMINAL
N	NS	NEAR SIDE
N	NTS	NOT TO SCALE
N	NWC	NORMAL WEIGHT CONCRETE

O	O.F	OUTSIDE FACE
O	O/	OVER
O	OC	ON CENTER
O	OCBF	ORDINARY CONCENTRICALLY BRACED FRAME
O	OD	OUTSIDE DIAMETER
O	OH	OPPOSITE HAND
O	OMF	ORDINARY MOMENT FRAME
O	OPNG	OPENING
O	OPP HD	OPPOSITE HAND
O	ORCSW	ORDINARY REINFORCED CONCRETE SHEAR WALL
O	ORMSW	ORDINARY REINFORCED MASONRY SHEAR WALL
O	OSB	ORIENTED STRAND BOARD
O	OVS	OVERSIZED
O	OZ	OUNCE

P	P/C	PRECAST
P	PAF	POWDER ACTUATED FASTENER
P	PAR	PARALLEL
P	PC	PIECE, PILECAP
P	PCF	POUNDS PER CUBIC FOOT
P	PERP	PERPENDICULAR
P	PJ	POUR JOINT
P	PJP	PARTIAL JOINT PENETRATION
P	PL	PLATE
P	PLATF	PLATFORM
P	PLCS	PLACES
P	PLF	POUNDS PER LINEAR FOOT
P	PLMB	PLUMBING
P	PLWD	PLYWOOD
P	POT	POINT OF TANGENCY
P	PQR	PROCEDURE QUALIFICATION RECORD
P	PREFAB	PREFABRICATED
P	PRKG	PARKING
P	PROJ	PROJECTION
P	PS	PRESTRESS(ED)
P	PSF	POUNDS PER SQUARE FOOT
P	PSI	POUNDS PER SQUARE INCH
P	PSL	PARALLEL STRAND LUMBER
P	PT	POST-TENSION(ED), LIQUID PENETRANT TESTING
P	PTDF	PRESSURE TREATED DOUGLAS FIR
P	PWJ	PLYWOOD WEB JOIST

R	PAF	POWER ACTUATED FASTENER
R	R	RADIUS, RISER
R	RAD	RADIANS
R	RBS	REDUCED BEAM SECTION
R	REF	REFERENCE
R	REINF	REINFORCING
R	REMOV	REMOVABLE, REMOVE
R	REQD	REQUIRED
R	RET	RETURN
R	RF	ROOF
R	RJ	ROOF JOIST
R	ROTN	ROTATION
R	RT	RADIOGRAPHIC TESTING
R	RTNG	RETAINING

ABBREVIATIONS

S	SA	SCREW ANCHOR
S	SAD	SEE ARCHITECTURAL DRAWING(S)
S	SAW	SUBMERGED ARC WELDING
S	SCBF	SPECIAL CONCENTRICALLY BRACED FRAME
S	SCHED	SCHEDULE
S	SCL	STRUCTURAL COMPOSITE LUMBER
S	SECT	SECTION
S	SEOR	STRUCTURAL ENGINEER OF RECORD
S	SEP	SEPARATION
S	SF	SQUARE FEET
S	SHT	SHEET
S	SHTHG	SHEATHING
S	SIM	SIMILAR
S	SL	SLOPE
S	SLBB	SHORT LEG BACK TO BACK
S	SLRS	SEISMIC LOAD RESISTING SYSTEM
S	SLV	SLEEVE
S	SMAW	SHIELDED METAL ARC WELDING
S	SMF	SPECIAL MOMENT FRAME
S	SMS	SHEET METAL SCREW
S	SO	SOUTH
S	SOF	SOFFIT
S	SOG	SLAB-ON-GRADE
S	SOMD	SLAB ON METAL DECK
S	SPEC	SPECIFICATIONS, SPECIAL
S	SPSW	SPECIAL PLATE SHEAR WALL
S	SQ	SQUARE
S	SRCSW	SPECIAL REINFORCED CONCRETE SHEAR WALL
S	SRMSW	SPECIAL REINFORCED MASONRY SHEAR WALL
S	SS	STAINLESS STEEL
S	SSH	SHORT SLOTTED HOLE
S	STA	STATION
S	STAG	STAGGER
S	STD	STANDARD
S	STIF	STIFFENER
S	STIR	STIRRUP
S	STL	STEEL
S	STMF	SPECIAL TRUSS MOMENT FRAME
S	STRUCT	STRUCTURAL
S	SW	STUD WELDING
S	SWBC	SHEAR WALL BOUNDARY COLUMN
S	SYMM	SYMMETRY

T	T	TREAD, TOP
T	T&B	TOP AND BOTTOM
T	T.O	TOP OF
T	T/	TOP OF
T	TAR	TYPICAL ALL AROUND
T	TC	TOP CHORD
T	TEMP	TEMPORARY, TEMPERATURE
T	THD	THREAD
T	THK	THICK, THICKNESS
T	THRU	THROUGH
T	TLL	TOP LOWER LAYER
T	TOBS	TOP OF BUILT-UP SLAB
T	TOC	TOP OF CONCRETE
T	TOD	TOP OF STEEL DECK
T	TOF	TOP OF FOOTING
T	TOG	TOP OF GRATING
T	TOPC	TOP OF PILE CAP
T	TOS	TOP OF STEEL
T	TOW	TOP OF WALL
T	TUL	TOP UPPER LAYER
T	TYP	TYPICAL

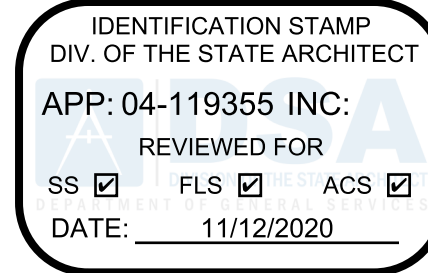
U	UNO	UNLESS NOTED OTHERWISE
U	UT	ULTRASONIC TESTING

V	VERT, (V)	VERTICAL
V	VIF	VERIFY IN FIELD

W	W/	WITH
W	W/O	WITHOUT
W	WD	WOOD
W	WL	WORK LINE
W	WP	WORK POINT
W	WPS	WELD PROCEDURE SPECIFICATIONS
W	WSP	WOOD STRUCTURAL PANEL
W	WT	WEIGHT
W	WWR	WELDED WIRE REINFORCEMENT

SHEET NUMBER	SHEET NAME
S0.XX SERIES - GENERAL	
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	ABBREVIATIONS AND SYMBOLS
S0XX - TYPICAL DETAILS	
S0.10	TYPICAL CONCRETE DETAILS
S0.11	TYPICAL DETAILS
S2.XX SERIES - PLANS AND ELEVATIONS	
S2.01	FOUNDATION PLAN AND ELEVATION
S3.XX SERIES - DETAILS	
S3.01	DETAILS
GRAND TOTAL: 7	

Agency Approval:



File No.: 37-CS



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Project:  
**CUYAMACA COLLEGE TRACK AND FIELD IMPROVEMENTS PH.II - SCOREBOARD**

Sheet Title:  
**ABBREVIATIONS AND SYMBOLS**

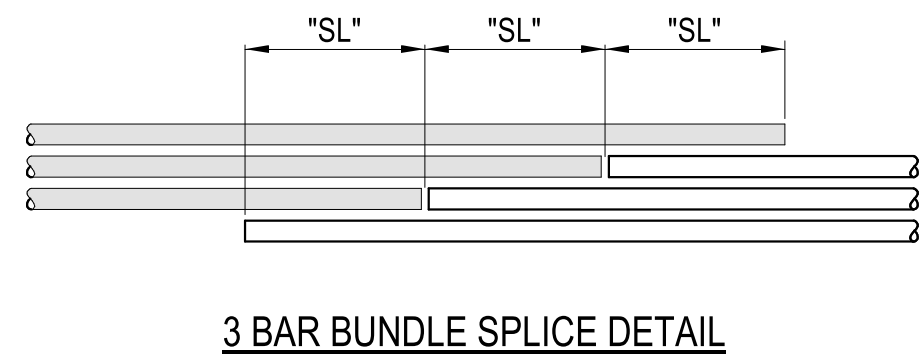
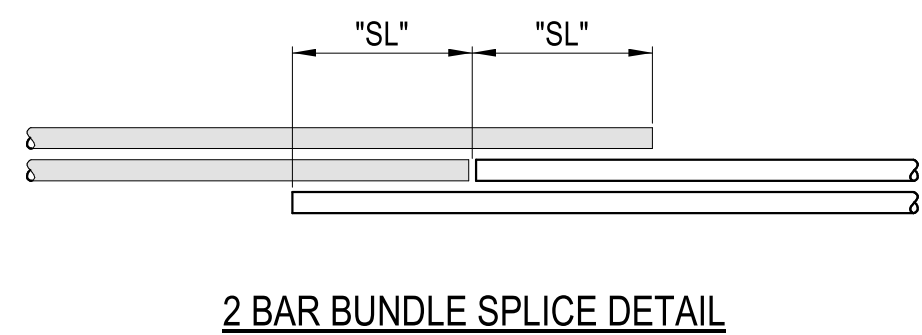
**DSA BACKCHECK SUBMITTAL**

Date: 11/4/2020 Client Project No: 5028014100

Sheet:

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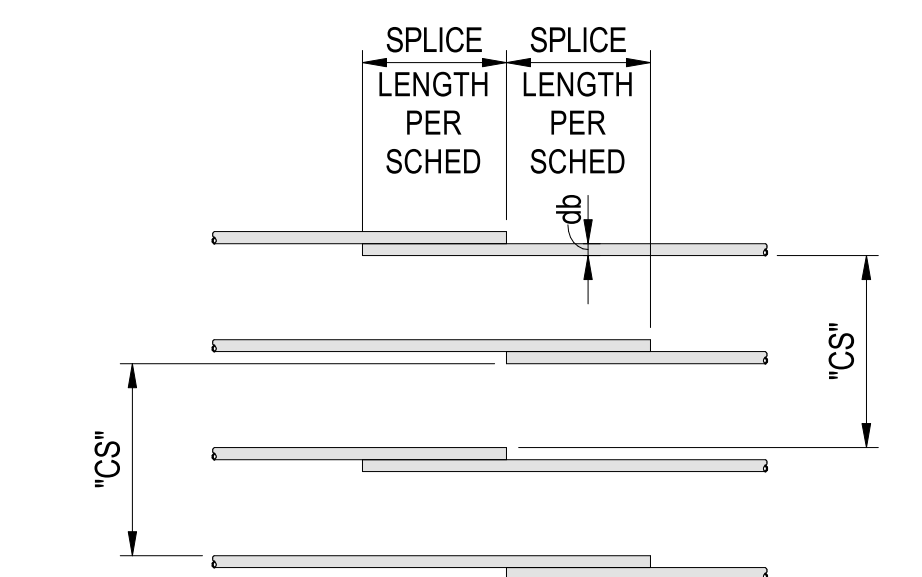




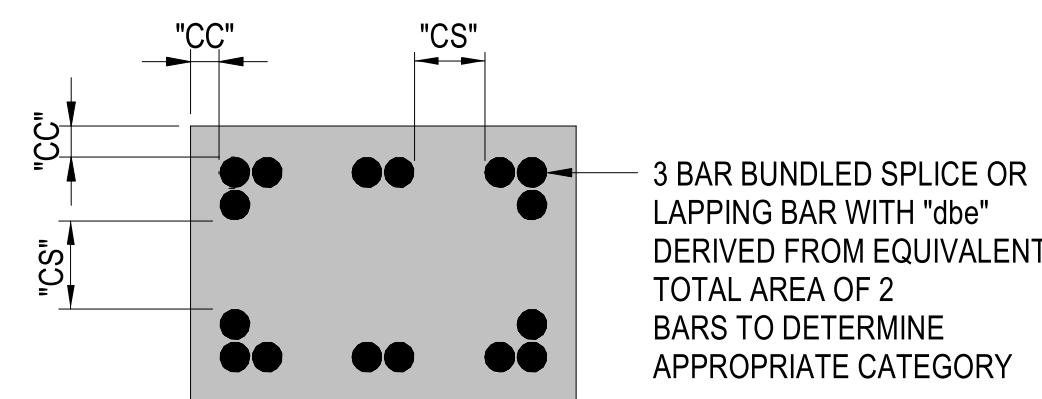
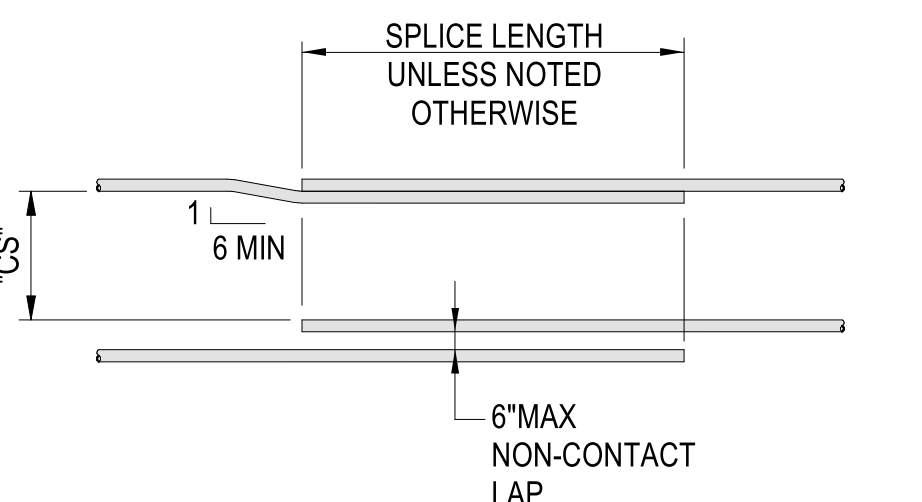
## NOTES:

1. BARS SHALL BE BUNDLED WITH NO MORE THAN 2 BARS IN SAME PLANE
2. "SL" INDICATES SPlice LENGTH AT BUNDLED BARS. SEE REINFORCING SPlice NOTE 5.

## TYPICAL BUNDLED LAP SPICES



## TYPICAL LAP SPlice DETAIL



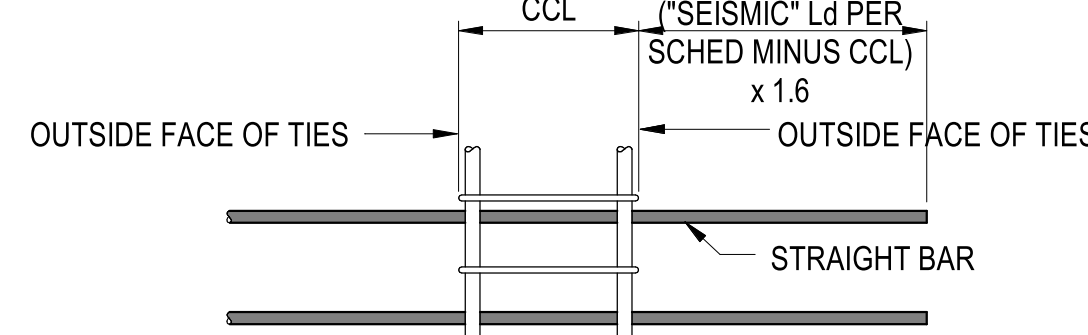
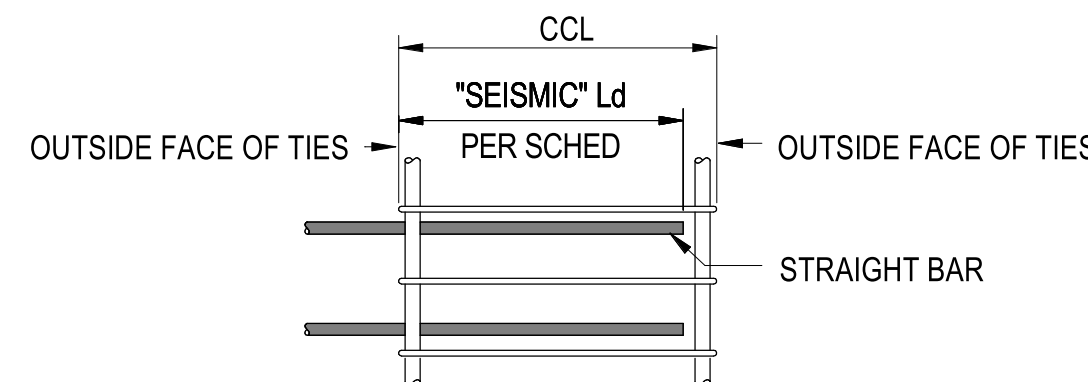
## TYPICAL BAR CONCRETE COVER &amp; CLEAR SPACING DIAGRAM

## REINFORCING SPlice NOTES:

1. SCHEDULED SPlice LENGTHS ARE IN ACCORDANCE WITH ACI 318-14 AND APPLY TO REBAR  $F_y=60$  KSI. LENGTHS ARE FROM CHAPTER 25 (NON-SEISMIC ELEMENTS) AND CHAPTER 18 (SEISMIC ELEMENTS).
2.

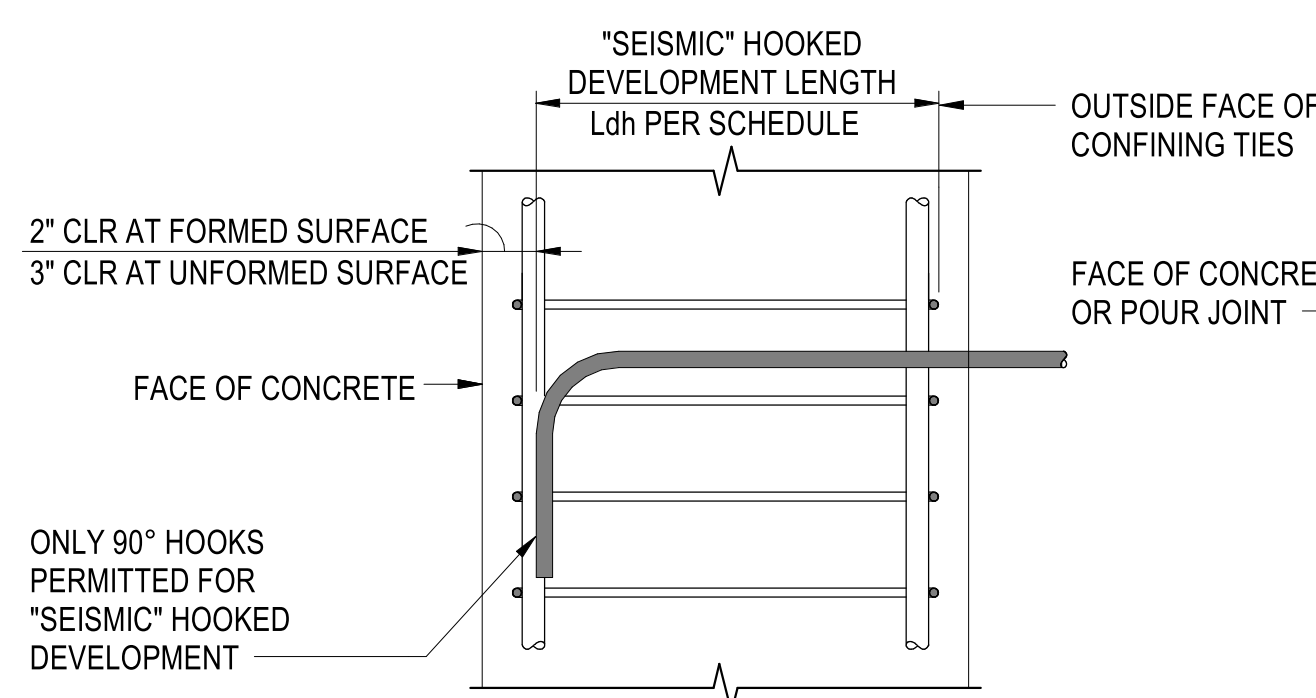
CATEGORY	DESCRIPTION
1	$2db \leq CC$ AND $4db \leq CS$
2	$[db \leq CC < 2db \text{ \& } 2db \leq CS]$ OR $[db \leq CC \text{ \& } 2db \leq CS < 4db]$
3	$1/2db \leq CC < db$ OR $db \leq CS < 2db$

CC INDICATES CONCRETE COVER, CS INDICATES BAR CLEAR SPACING.
3. IF  $CC < 1/2db$  OR  $CS < db$  CONTACT SEOR FOR REQUIRED SPlice LENGTH.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE POURED BELOW BARS.
5. FOR BUNDLED BARS, AN EFFECTIVE BAR DIAMETER (dbe) SHALL BE USED FOR DETERMINING COVER AND SPACING LIMITATIONS.
  - a. FOR 2 BAR BUNDLE  $dbe = 1.414db$
  - b. FOR 3 BAR BUNDLE  $dbe = 1.732db$
  - c. FOR 4 BAR BUNDLE  $dbe = 2.000db$
6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPliced, LAP SPlice LENGTH SHALL BE THE LARGER OF  $L_d$  (STRAIGHT BAR DEVELOPMENT) FOR LARGER BAR AND LAP SPlice LENGTH OF SMALLER BAR.
7. SPlices LENGTHS MAY BE REDUCED 23% IF SPECIFICALLY NOTED ON STRUCT DRAWINGS AS CLASS "A" SPlice.
8. APPLY THE FOLLOWING MULTIPLIERS TO SCHEDULED SPlice LENGTHS FOR EACH INSTANCE BELOW WHICH APPLIES:
  - a. FOR REBAR YIELD STRENGTHS OTHER THAN 60 KSI, MULTIPLY SPlice LENGTHS IN SCHEDULE BY RATIO OF ACTUAL YIELD STRENGTH / 60,000.
  - b. SPlice LENGTH OF LONGITUDINAL BARS IN THE "SPECIAL SPlice ZONE" AS INDICATED ON SHEAR WALL ELEVATIONS SHALL BE MULTIPLIED BY 1.25 THAT INDICATED IN THE SCHEDULE.
  - c. FOR 3-BAR BUNDLES, MULTIPLY SPlice LENGTHS IN SCHEDULE BY 1.20. FOR 4-BAR BUNDLES, MULTIPLY SPlice LENGTHS IN SCHEDULE BY 1.33. ENTIRE BUNDLE SHALL NOT BE LAP SPliced.
  - d. FOR LIGHTWEIGHT CONCRETE, MULTIPLY SPlice LENGTHS IN SCHEDULE BY 1.33.
  - e. FOR EPOXY COATED BARS WITH  $CC < 3db$  OR  $CS < 6db$ , MULTIPLY SPlice LENGTHS IN SCHEDULE BY 1.50. FOR OTHER EPOXY COATED BARS, MULTIPLY SPlice LENGTHS IN SCHEDULE BY 1.20.
  - f. FOR CONCRETE STRENGTH IN BETWEEN STRENGTHS INDICATED IN THE SCHEDULE, USE DEVELOPMENT LENGTH FOR THE LOWER CONCRETE STRENGTH.

CONDITION WHERE "SEISMIC"  $L_d$  IS GREATER THAN CONFINED CORE LENGTHCONDITION WHERE "SEISMIC"  $L_d$  FITS WITHIN CONFINED CORE

## NOTE:

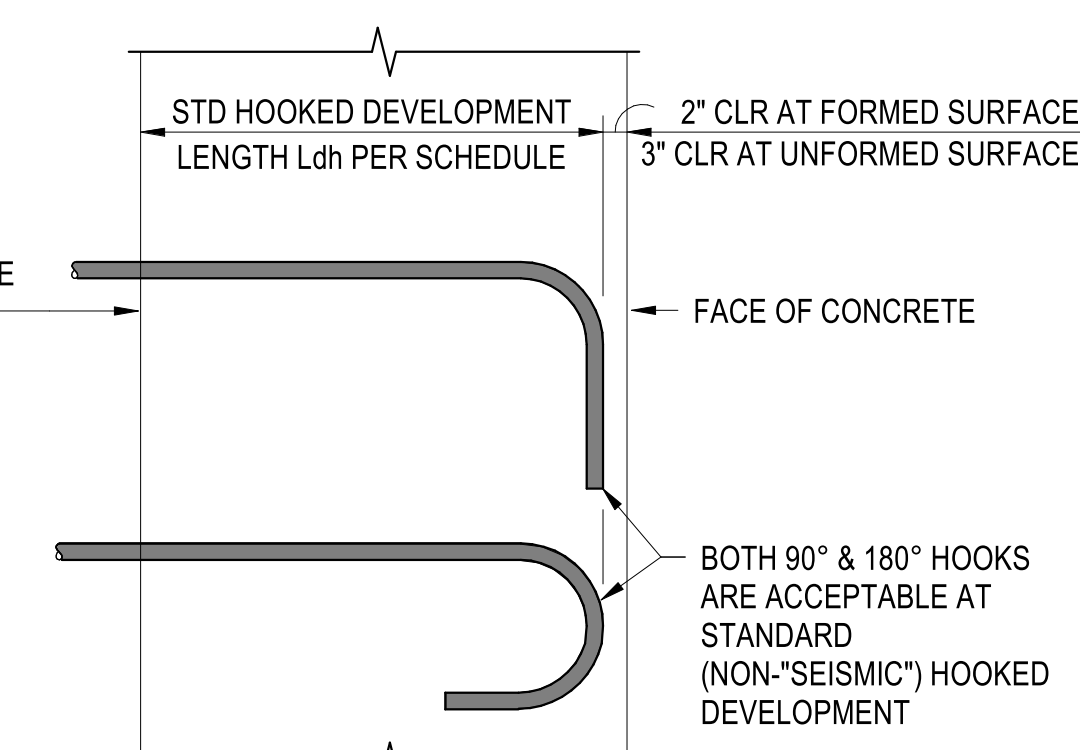
"CCL" INDICATES CONFINED CORE LENGTH OF SPECIAL MOMENT FRAME COLUMNS.

STRAIGHT "SEISMIC" DEVELOPMENT  $L_d$  AT CONFINED CORES OF SPECIAL MOMENT FRAME COLUMNS

## "SEISMIC" HOOKED DEVELOPMENT

## NOTES:

- A. ALL HOOKED BARS SHALL EXTEND TO THE FAR FACE OF CONCRETE, AS MUCH AS PRACTICAL, WITH 2" MINIMUM END COVER AND WITH DEVELOPMENT NOT LESS THAN LENGTHS INDICATED IN SCHEDULE INCLUDING APPROPRIATE MULTIPLIERS.
- B. PROVIDE 2 1/2" MINIMUM CONCRETE SIDE COVER.
- C. "SEISMIC" HOOKED DEVELOPMENT LENGTH  $L_{dh}$  IN SCHEDULE INCLUDING APPROPRIATE MULTIPLIERS APPLY TO BARS W/ STD 90° HOOKS LOCATED WITHIN A CONFINED CORE OF SPECIAL MOMENT FRAME COLUMNS. 180° HOOKS ARE NOT PERMITTED FOR "SEISMIC" HOOKED DEVELOPMENT.



## STANDARD (NON-"SEISMIC") HOOKED DEVELOPMENT

HOOKED DEVELOPMENT  $L_{dh}$ 

STRAIGHT DEVELOPMENT LENGTH SCHEDULE ( $L_d$ ) IN INCHES (APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)																			
NORMAL WEIGHT CONCRETE ( $f_c$ PSI)		3000 PSI						4000 PSI						5000 PSI					
CATEGORY		1	2	3	SEISMIC (SEE NOTE 6)	1	2	3	SEISMIC (SEE NOTE 6)	1	2	3	SEISMIC (SEE NOTE 6)	1	2	3	SEISMIC (SEE NOTE 6)	1	2
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	18	14	29	22	43	33	28	22	15	12	25	19	37	29	24	19	14	12
#5	0.625	22	17	36	28	54	42	35	27	19	15	31	24	47	36	30	23	17	13
#6	0.750	26	20	43	33	65	50	42	32	23	18	37	29	56	43	36	28	20	16
#7	0.875	38	29	63	48	94	72	48	37	33	25	54	42	81	63	42	32	29	23
#8	1.000	43	33	72	55	107	83	55	43	37	29	62	48	93	72	48	37	34	26
#9	1.128	49	38	81	62	121	98	62	48	42	33	70	54	105	81	54	42	38	29
#10	1.270	55	42	91	70	136	105	70	54	47	37	79	61	118	91	61	47	43	33
#11	1.410	61	47	101	78	151	116	78	60	53	41	87	67	131	101	67	52	47	36
#14	1.693	73	56	121	93	181	140	-	-	63	49	105	81	157	121	-	-	57	44
#18	2.257	97	75	161	124	242	186	-	-	84	65	140	108	209	161	-	-	75	58

STRAIGHT DEVELOPMENT LENGTH SCHEDULE ( $L_d$ ) IN INCHES (APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)																			
NORMAL WEIGHT CONCRETE ( $f_c$ PSI)		6000 PSI						7000 PSI						8000 PSI					
CATEGORY		1	2	3	SEISMIC (SEE NOTE 6)	1	2	3	SEISMIC (SEE NOTE 6)	1	2	3	SEISMIC (SEE NOTE 6)	1	2	3	SEISMIC (SEE NOTE 6)	1	2
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	13	12	21	16	31	24	20	15	12	12	19	15	28	22	20	15	12	12
#5	0.625	16	12	26	20	38	30	25	19	14	12	24	18	36	27	23	18	14	12
#6	0.750	19	14	31	24	46	35	30	23	17	13	28	22	42	33	27	21	16	13
#7	0.875	27	21	45	34	67	51	34	27	25	19	41	32	62	48	32	25	23	18
#8	1.000	31	24	51	39	76	59	39	30	28	22	47	36	70	54	36	28	27	21
#9	1.128	35	27	57	44	86	68	44	34	32	25	53	41	79	61	41	32	30	23
#10	1.270	39	30	64	50	96	74	50	38	36	28	60	46	89	69	46	36	34	26
#11	1.410	43	33	71	55	107	82	55	43	40	31	66	51	99	76	51	39	37	29
#14	1.693	52	40	86	66	128	99	-	-	48	37	79	61	119	92	-	-	45	35
#18	2.257	69	53	114	88	171	132	-	-	64	49	106	81	158	122	-	-	60	46

HOOKED DEVELOPMENT LENGTH SCHEDULE (Ldh) IN INCHES (APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)													
NORMAL WEIGHT CONCRETE (fc PSI)		3000 PSI		4000 PSI		5000 PSI		6000 PSI		7000 PSI		8000 PSI	
BAR SIZE	BAR DIAMETER (db)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)
#4	0.500	8	9	7	8	6	6	6	6	6	6	6	6
#5	0.625	10	11	9	10	8	9	7	8	7	7	6	7
#6	0.750	12	13	10	11	9	10	9	9	8	9	8	8
#7	0.875	14	15	12	13	11	12	10	11	9	10	9	10
#8	1.000	16	17	14	15	12	14	11	12	11	12	10	11
#9	1.128	18	20	15	17	14	15	13	14	12	13	11	12
#10	1.270	20	22	17	19	16	17	14	16	15	16	12	14
#11	1.410	22	24	19	21	17	19	16	17	15	16	14	15
#14	1.693	38	-	33	-	29	-	27	-	25	-	23	-
#18	2.257	50	-	43	-	39	-	35	-	33	-	31	-

## TYPICAL REINFORCING STRAIGHT AND HOOKED DEVELOPMENT LENGTH SCHEDULE

1

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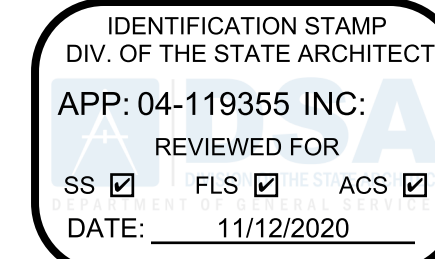
## TYPICAL REINFORCING SPlice LENGTH SCHEDULE

2

NTS

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File No.: 37-CS



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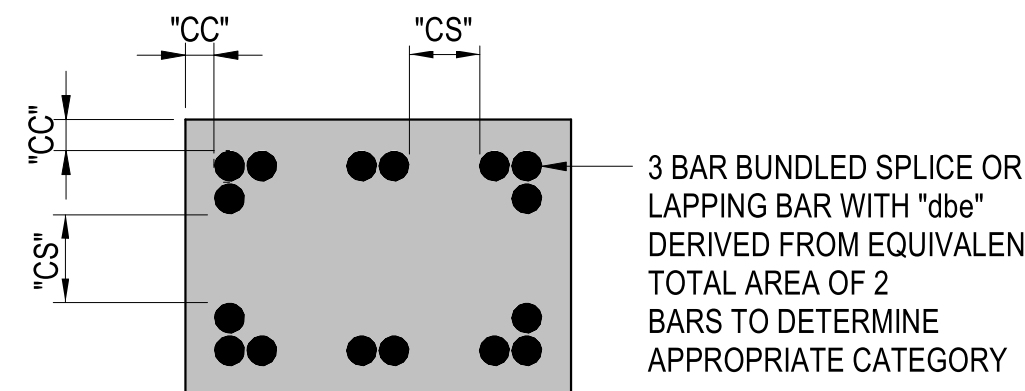
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## TYPICAL BAR CONCRETE COVER &amp; CLEAR SPACING DIAGRAM

## REINFORCING DEVELOPMENT NOTES:

1. SCHEDULED DEVELOPMENT LENGTHS ARE IN ACCORDANCE WITH ACI 318-14 AND APPLY TO REBAR  $F_y=60$  KSI. LENGTHS ARE FROM CHAPTER 25 (NON-SEISMIC ELEMENTS) AND CHAPTER 18 (SEISMIC ELEMENTS).

CATEGORY	DESCRIPTION
1	$2db \leq CC$ AND $4db \leq CS$
2	$[db \leq CC < 2db \text{ \& } 2db \leq CS]$ OR $[db \leq CC \text{ \& } 2db \leq CS < 4db]$
3	$1/2db \leq CC < db$ OR $db \leq CS < 2db$
SEISMIC	SEE NOTES 6 & 7

CC INDICATES CONCRETE COVER, CS INDICATES BAR CLEAR SPACING.

3. IF  $CC < 1/2db$  OR  $CS < db$  CONTACT SEOR FOR REQUIRED DEVELOPMENT LENGTH.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE POURED BELOW BARS.
5. FOR BUNDLED BARS, AN EFFECTIVE BAR DIAMETER (dbe) SHALL BE USED FOR DETERMINING COVER AND SPACING LIMITATIONS.
  - a. FOR 2 BAR BUNDLE  $dbe = 1.414db$
  - b. FOR 3 BAR BUNDLE  $dbe = 1.732db$
  - c. FOR 4 BAR BUNDLE  $dbe = 2.000db$
6. "SEISMIC" STRAIGHT DEVELOPMENT LENGTH  $L_d$  IN SCHEDULE APPLIES TO STRAIGHT BARS TERMINATING IN OR PASSING THROUGH CONFINED CORES OF SPECIAL MOMENT FRAME COLUMNS.
7. "SEISMIC" HOOKED DEVELOPMENT LENGTH  $L_{dh}$  IN SCHEDULE APPLIES TO BARS W/ STD 90° HOOKS LOCATED WITHIN A CONFINED CORE OF SPECIAL MOMENT FRAME COLUMNS.

8. APPLY THE FOLLOWING MULTIPLIERS TO SCHEDULED DEVELOPMENT LENGTHS FOR EACH INSTANCE BELOW WHICH APPLIES:
  - a. FOR REBAR YIELD STRENGTHS OTHER THAN 60 KSI, MULTIPLY DEVELOPMENT LENGTHS  $L_d$  AND  $L_{dh}$  IN SCHEDULE BY RATIO OF ACTUAL YIELD STRENGTH / 60,000.
  - b. DEVELOPMENT LENGTH OF LONGITUDINAL BARS IN THE "SPECIAL SPlice ZONE" AS INDICATED ON SHEAR WALL ELEVATIONS SHALL BE MULTIPLIED BY 1.25 THAT INDICATED IN THE SCHEDULE.
  - c. FOR 3-BAR BUNDLES, MULTIPLY DEVELOPMENT LENGTHS  $L_d$  AND  $L_{dh}$  IN SCHEDULE BY 1.20. FOR 4-BAR BUNDLES, MULTIPLY DEVELOPMENT LENGTHS  $L_d$  AND  $L_{dh}$  IN SCHEDULE BY 1.33.
  - d. FOR LIGHTWEIGHT CONCRETE, MULTIPLY STRAIGHT DEVELOPMENT LENGTH  $L_d$  IN SCHEDULE BY 1.33. FOR LIGHTWEIGHT CONCRETE, MULTIPLY HOOKED DEVELOPMENT LENGTH  $L_{dh}$  IN SCHEDULE BY 1.33.
  - e. FOR EPOXY COATED BARS WITH  $CC < 3db$  OR  $CS < 6db$ , MULTIPLY STRAIGHT DEVELOPMENT LENGTH  $L_d$  IN SCHEDULE BY 1.50. FOR STRAIGHT DEVELOPMENT FOR OTHER EPOXY COATED BARS, MULTIPLY STRAIGHT DEVELOPMENT LENGTH  $L_d$  IN SCHEDULE BY 1.20. FOR EPOXY COATED BARS, MULTIPLY HOOKED DEVELOPMENT LENGTH  $L_{dh}$  IN SCHEDULE BY 1.20.
  - f. DEVELOP ALL DIAGONAL COUPLING BEAM REBARS BY MULTIPLYING DEVELOPMENT LENGTHS  $L_d$  AND  $L_{dh}$  IN SCHEDULE BY 1.25.
  - g. FOR CONCRETE STRENGTH IN BETWEEN STRENGTHS INDICATED IN THE SCHEDULE, USE DEVELOPMENT LENGTH FOR THE LOWER CONCRETE STRENGTH.

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Consultant's Project No. 20571

Facility:

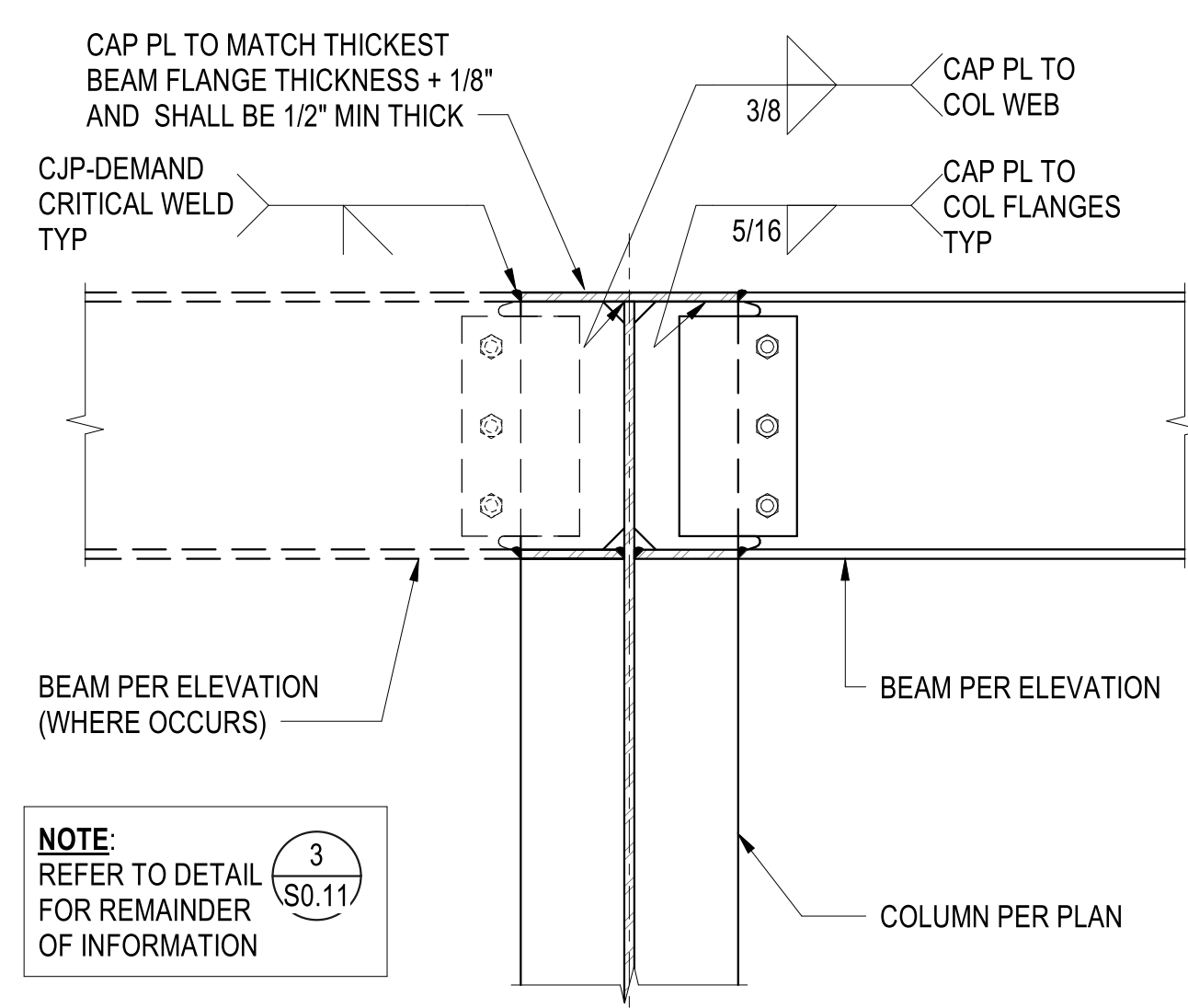
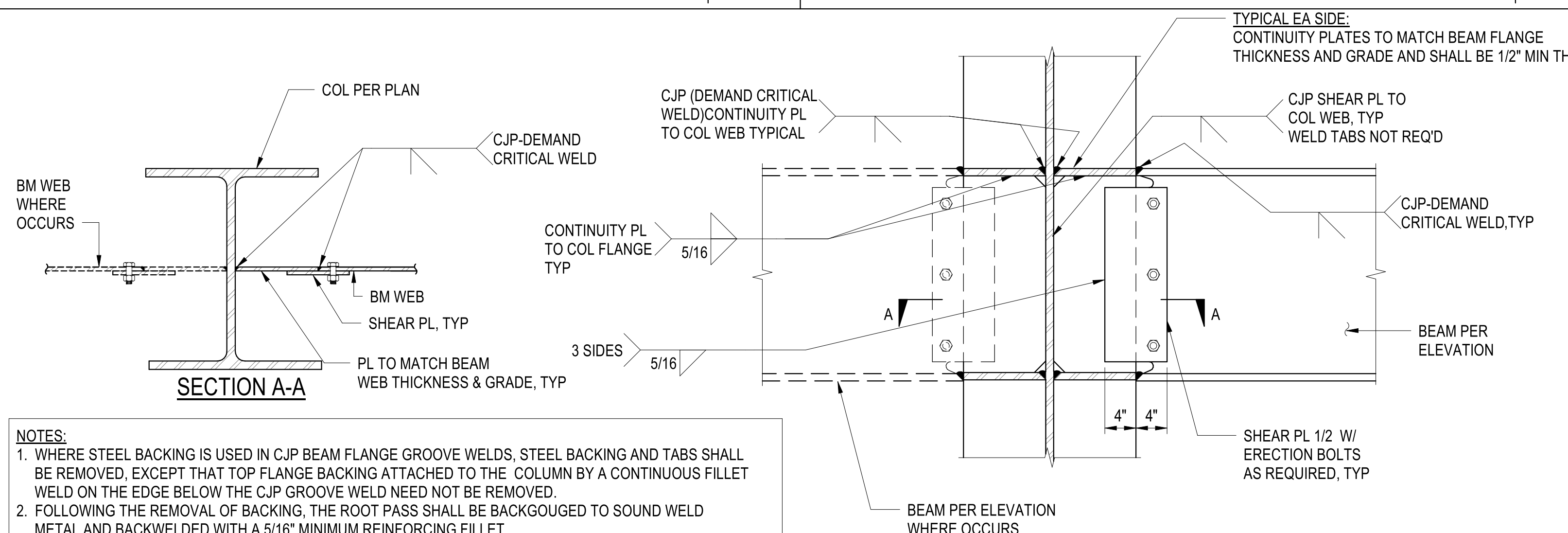
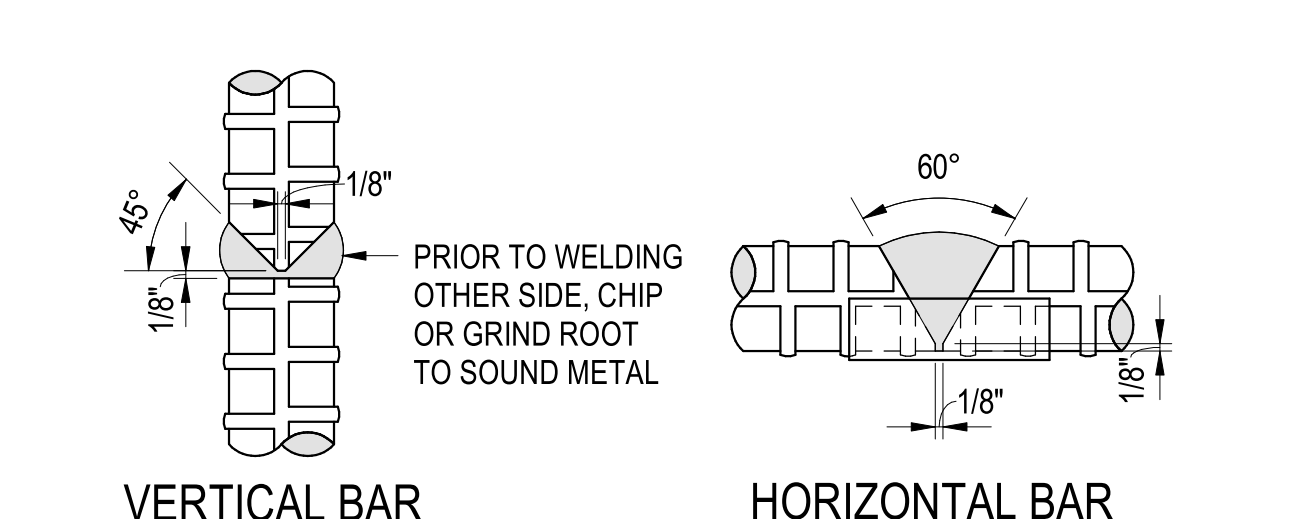
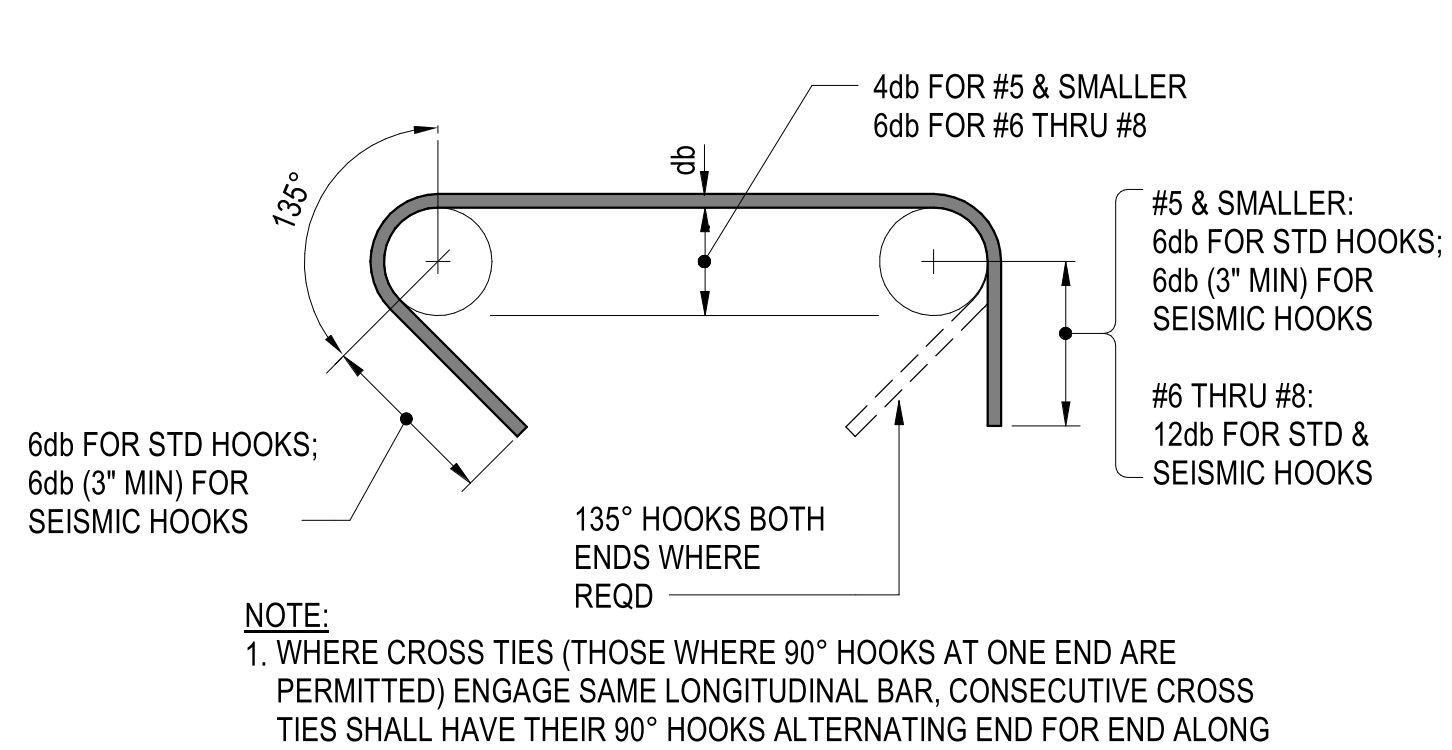
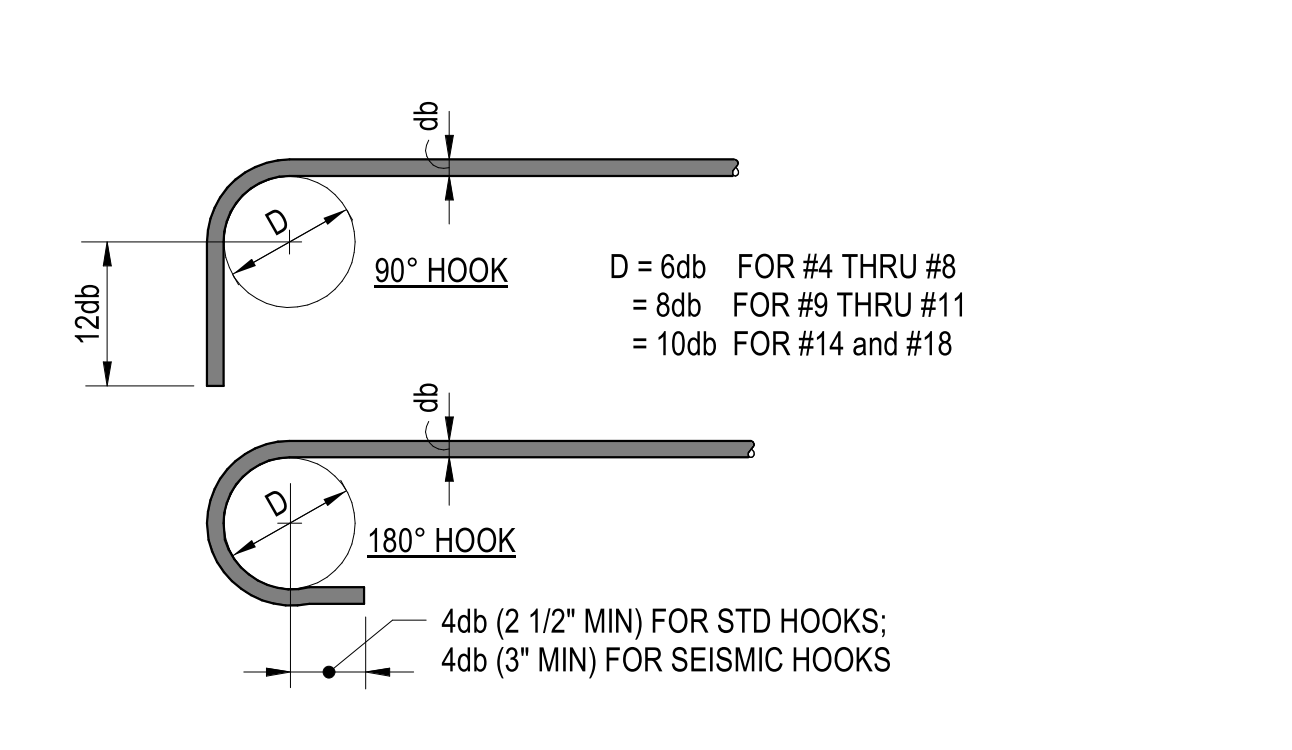
GROSSMONT-CUYAMACA COMMUNITY COLLEGE DISTRICT CUYAMACA COLLEGE 900 RANCHO SAN DIEGO PKWY EL CAJON, CA 92019

Project: CUYAMACA COLLEGE TRACK AND FIELD IMPROVEMENTS PH.II - SCOREBOARD

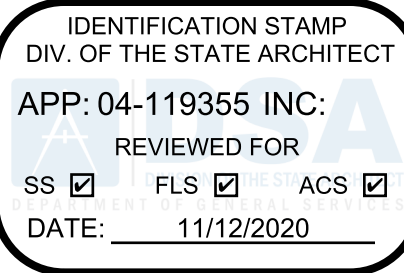
Sheet Title:

TYPICAL CONCRETE DETAILS



			<div><p>CAP PL TO MATCH THICKEST BEAM FLANGE THICKNESS + 1/8" AND SHALL BE 1/2" MIN THICK</p><p>CJP-DEMAND CRITICAL WELD TYP</p><p>3/8" CAP PL TO COL WEB</p><p>5/16" CAP PL TO COL FLANGES TYP</p><p>BEAM PER ELEVATION (WHERE OCCURS)</p><p>BEAM PER ELEVATION</p><p>COLUMN PER PLAN</p><p><b>NOTE:</b> REFER TO DETAIL S0.117 FOR REMAINDER OF INFORMATION</p></div>	<div>TYPICAL BEAM TO TOP OF COLUMN CONNECTION</div> <div>4</div> <div>NTS</div>	
		<div><p>COL PER PLAN</p><p>CJP-DEMAND CRITICAL WELD</p><p>BM WEB WHERE OCCURS</p><p>CONTINUITY PL TO COL FLANGE TYP</p><p>5/16"</p><p>3 SIDES 5/16"</p><p>PL TO MATCH BEAM WEB THICKNESS &amp; GRADE, TYP</p><p>BM WEB SHEAR PL, TYP</p><p>TYPICAL EA SIDE: CONTINUITY PLATES TO MATCH BEAM FLANGE THICKNESS AND GRADE AND SHALL BE 1/2" MIN THICK</p><p>CJP (DEMAND CRITICAL WELD) CONTINUITY PL TO COL WEB TYPICAL</p><p>CJP SHEAR PL TO COL WEB, TYP WELD TABS NOT REQ'D</p><p>CJP-DEMAND CRITICAL WELD, TYP</p><p>BEAM PER ELEVATION</p><p>BEAM PER ELEVATION WHERE OCCURS</p><p>4" 4"</p><p>SHEAR PL 1/2" W/ ERECTION BOLTS AS REQUIRED, TYP</p><p><b>SECTION A-A</b></p><p><b>NOTES:</b> 1. WHERE STEEL BACKING IS USED IN CJP BEAM FLANGE GROOVE WELDS, STEEL BACKING AND TABS SHALL BE REMOVED, EXCEPT THAT TOP FLANGE BACKING ATTACHED TO THE COLUMN BY A CONTINUOUS FILLET WELD ON THE EDGE BELOW THE CJP GROOVE WELD NEED NOT BE REMOVED. 2. FOLLOWING THE REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGROUGED TO SOUND WELD METAL AND BACKWELDED WITH A 5/16" MINIMUM REINFORCING FILLET. 3. WELD TAB REMOVAL SHALL EXTEND TO WITHIN 1/8" OF THE BASE METAL. 4. CONTINUITY PLATE CLIPS SHALL COMPLY WITH AISC 341.</p></div>	<div>TYPICAL BEAM TO COLUMN MOMENT CONNECTION DETAIL</div> <div>3</div> <div>NTS</div>		
		<div><p>VERTICAL BAR</p><p>HORIZONTAL BAR</p><p><b>NOTES:</b> 1. AS AN ALTERNATE TO LAP SPLICE, BUTT WELD MAY BE USED AS INDICATED ABOVE, PROVIDED THEY ARE STAGGERED @24" MINIMUM. 2. AN APPROVED TESTING LABORATORY SHALL PROVIDE A PREQUALIFICATION TENSION TEST FOR SAMPLES ON EVERY SIZE OF BAR BEING WELDED. 3. MATERIALS, CONDITIONS AND WELDING PROCEDURES UTILIZED SHALL COMPLY WITH THE CURRENT APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE GOVERNING INSPECTION AGENCY. 4. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED IN OBTAINING APPROVAL.</p><p>CONC-GENL-0004(REV-A)</p></div>	<div>TYPICAL REINF BUTT WELDS DETAIL (ALTERNATE TO SPLICES)</div> <div>2</div> <div>NTS</div>		
		<div><p>4db FOR #5 &amp; SMALLER 6db FOR #6 THRU #8</p><p>#5 &amp; SMALLER: 6db FOR STD HOOKS; 6db (3" MIN) FOR SEISMIC HOOKS</p><p>#6 THRU #8: 12db FOR STD &amp; SEISMIC HOOKS</p><p>135° HOOKS BOTH ENDS WHERE REQD</p><p>6db FOR STD HOOKS; 6db (3" MIN) FOR SEISMIC HOOKS</p><p><b>NOTE:</b> 1. WHERE CROSS TIES (THOSE WHERE 90° HOOKS AT ONE END ARE PERMITTED) ENGAGE SAME LONGITUDINAL BAR, CONSECUTIVE CROSS TIES SHALL HAVE THEIR 90° HOOKS ALTERNATING END FOR END ALONG LONGITUDINAL BAR.</p></div>	<div>HOOKS FOR TIES, STIRRUPS AND HOOPS</div>	<div><p>90° HOOK</p><p>180° HOOK</p><p>4db (2 1/2" MIN) FOR STD HOOKS; 4db (3" MIN) FOR SEISMIC HOOKS</p><p>D = 6db FOR #4 THRU #8 = 8db FOR #9 THRU #11 = 10db FOR #14 and #18</p></div>	<div>HOOKS FOR BARS OTHER THAN TIES, STIRRUPS AND HOOPS</div>
			<div>TYPICAL REINFORCING STEEL STANDARD AND SEISMIC HOOK DETAILS</div> <div>1</div> <div>NTS</div>		

Agency Approval:



File No.: 37-CS

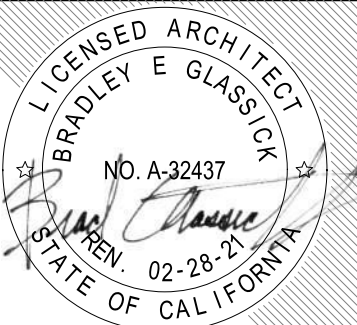


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Project:

CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:

TYPICAL DETAILS

DSA BACKCHECK SUBMITTAL

Date: 11/4/2020

Client Project No: 5028014100

Sheet:

S0.11





1. FOR GENERAL NOTES SEE 90.0X SERIES AND TYPICAL DETAILS SEE 90.1X SERIES SHEETS.
2. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
3. ALL FOOTINGS SHALL BE CENTERED ON WALLS OR COLUMNS UNLESS NOTED OTHERWISE.
4. ALL FOUNDATION EXCAVATIONS MUST BE OBSERVED AND APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT PRIOR TO PLACING OF REINFORCEMENT STEEL.



## 32.01

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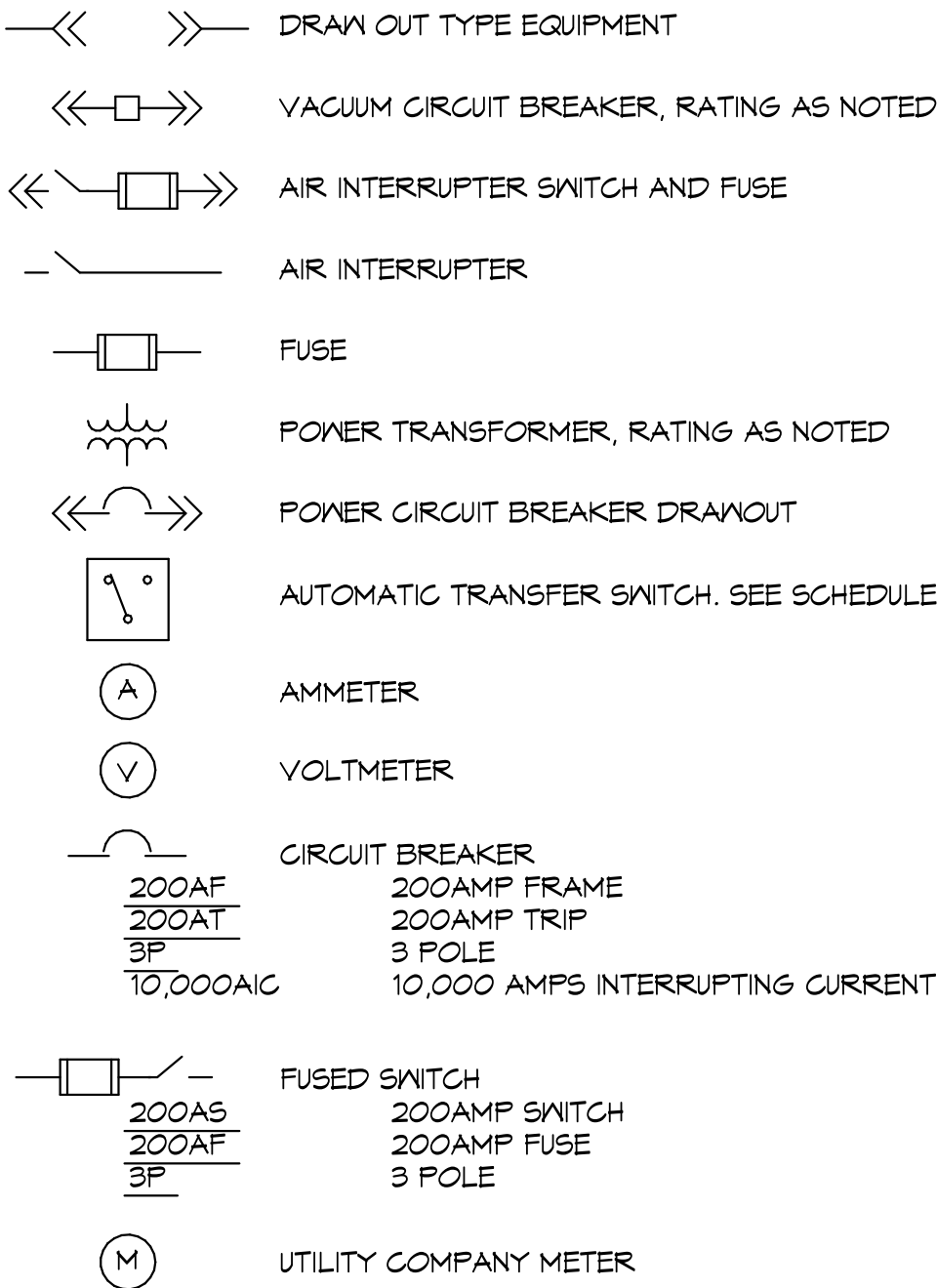


ABBREVIATIONS

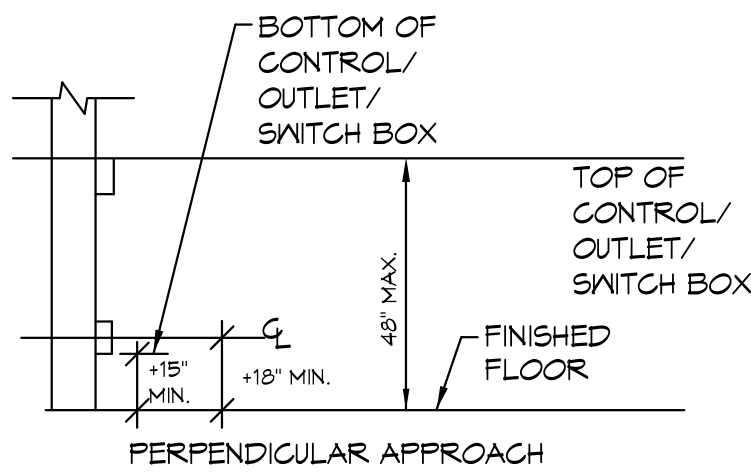
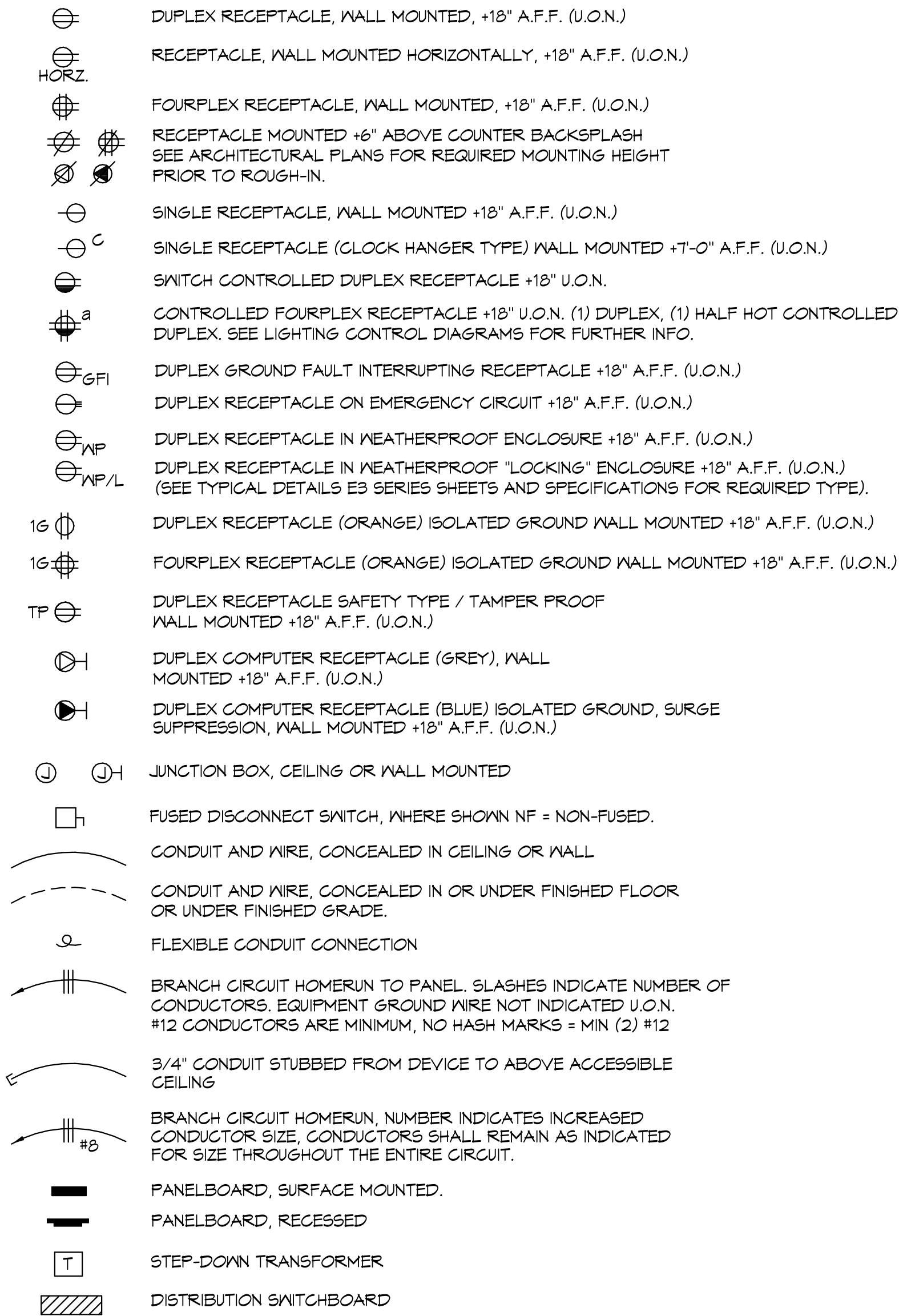
A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AG	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH (FUSED SWITCH RATING)
AT	AMPS-TRIP (RATING)
AWG	AMERICAN WIRE GAUGE
BC	BAKE COPPER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GRD/GND	GROUND
HD	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTS	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFPI	OWNER FURNISHED OWNER INSTALLED
P	POLE
PH	PHASE
POC	POINT OF CONNECTION
PRS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
SNBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UN	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WP	WEATHERPROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

DISTRIBUTION EQUIPMENT



POWER CONTINUED



NOTE: MAINTAIN MINIMUM 30"x48" CLEAR FLOOR SPACE AT EACH APPROACH

MOUNTING HEIGHT OVER OBSTRUCTION

NO SCALE

1  
E1.0

GENERAL PROJECT NOTES:

- UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
- GENERAL NOTES SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. KEY NOTES ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL DEMOLITION NOTES:

- ALL ELECTRICAL EQUIPMENT, EXPOSED RACEWAY AND CONDUIT, OUTLET BOXES AND RINGS, AND DEVICES ARE TO BE REMOVED, EXCEPT WHERE SHOWN TO REMAIN. EXISTING WIRING, WHETHER EXPOSED, IN CONDUIT OR RACEWAY IS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
- THE ELECTRICAL CONTRACTOR IS TO DIRECT THE REMOVAL OF THE ABOVE LISTED WORK.

MEP COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.13 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 6 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- 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.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. 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 NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24 AND 1616A.1.25 AND 1616A.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., SHACMA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

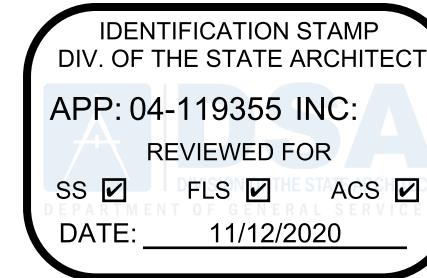
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E).

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

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#) #

Agency Approval:

File No.: 37-C5



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Project:  
CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:  
ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES

CONSTRUCTION DOCUMENTS

Date: 11/4/2020 Client Project No: 5028013000

Sheet:



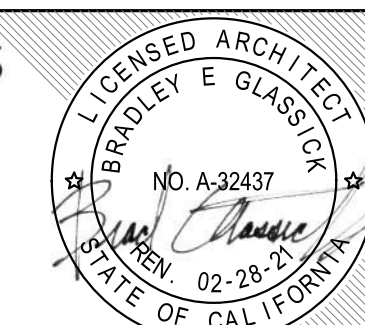




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**ISSUE:**

[illegible]

**Keynotes:**

GENERAL NOTES

- GENERAL NOTES:
1. SEE ONE-LINE DIAGRAM FOR FEEDER SIZE — 1  
E1.
  2. SEE SCOREBOARD/CONTROL WIRING DIAGRAM FOR COMMUNICATIONS WIRING REQUIREMENTS. — 1  
E1.
  3. SEE E1.5 FOR TYPICAL TRENCH DETAIL AND CONDUIT INSTALLATION DETAIL.

## KEY NOTES

- (1) 1-1/4" (CONTROL STATION POWER), 3 #2, 1 #8 GND  
(1) T.C. (FIBER)  
(1) T.C. (SOUND)
- (2) 1-1/2" (XFMR TSB POWER)  
(1) 2" (FUTURE POWER)  
(1) T.C. (SCOREBOARD FUTURE COMM.)  
(2) 1-1/4" (FUTURE COMM.)  
(1) 1-1/4" (FUTURE FIRE ALARM)
- (3) 1-1/2" (XFMR TSB POWER)  
(1) 1-1/4" (CONTROL STATION POWER)  
(1) T.C. (FIBER)  
(1) T.C. (SOUND)  
(1) 1" (SCOREBOARD FUTURE COMM.)  
(1) 2" (FUTURE POWER)  
(2) 1-1/4" (FUTURE COMM.)  
(1) 1-1/4" (FUTURE FIRE ALARM)
- (4) STUB AND GAP CONDUITS UNDERGROUND:  
(1) 2" (FUTURE POWER)  
(2) 1-1/4" (FUTURE COMMUNICATIONS)  
(1) 1-1/4" (FUTURE FIRE ALARM)
- (5) 1-1/4" (CONTROL STATION POWER), 3 #2, 1 #8 GND  
(1) T.C. (FIBER)  
(1) T.C. (SOUND)
- (6) 1-1/2" (XFMR TSB POWER)  
(1) 1-1/4" (CONTROL STATION POWER)
- (7) 1" (FIBER)  
(1) T.C. (SOUND)  
(1) T.C. (SCOREBOARD FUTURE COMM.)
- (8) HAND DIG WITH CAUTION. EXISTING TRACK SHALL BE PROTECTED IN PLACE. ANY EXISTING UTILITIES UNDERGROUND AND ABOVE GROUND SHALL BE PROTECTED IN PLACE.



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CUYAMACA COLLEGE  
900 RANCHO SAN DIEGO PKWY  
ELCAJON, CA 92019

Project:  
**CUYAMACA COLLEGE TRACK AND FIELD  
IMPROVEMENTS PH.II - SCOREBOARD**

Sheet Title:  
**ENLARGED SITE PLAN**

## CONSTRUCTION DOCUMENTS

Date: 11/4/2020

<b>Date:</b> 11/4/2020	<b>Client Project No:</b> 5028013000
------------------------	--------------------------------------

Sheet:

Sheet:

## E1.1

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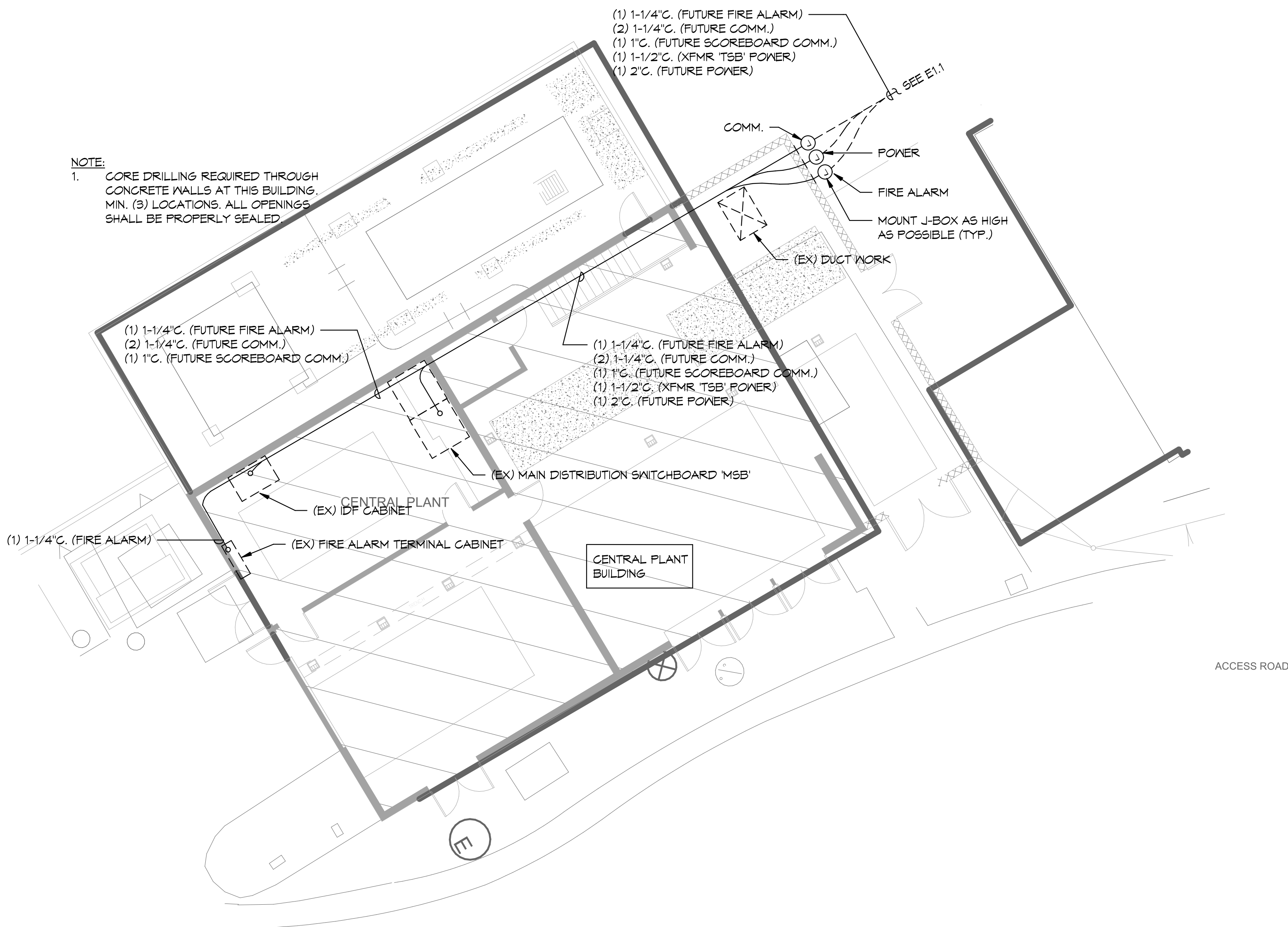
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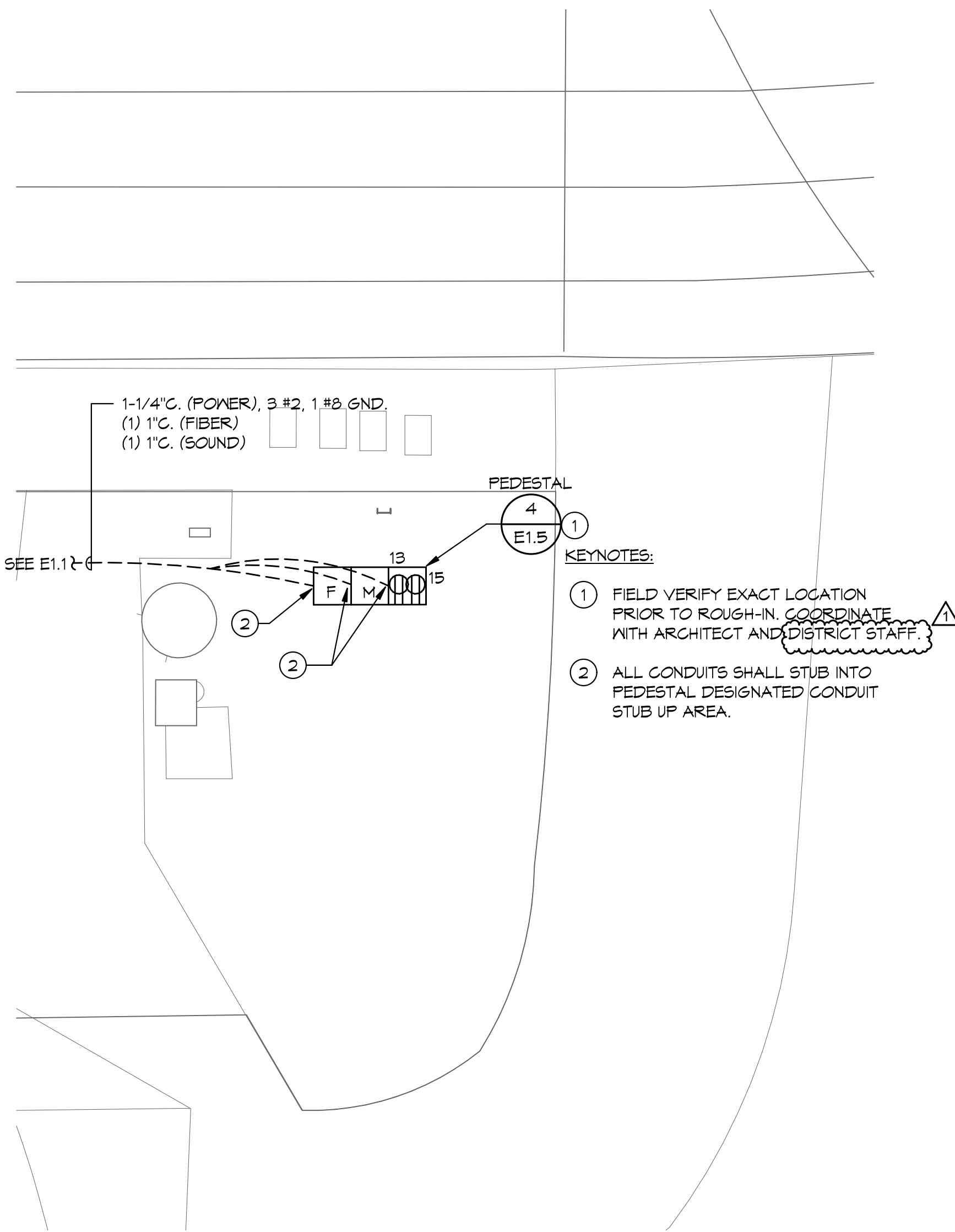
No.	Issued	Date	No.	Issued	Date
1	ADDENDUM #1	01/19/2021			

Keynotes:

- GENERAL NOTES:
- SEE ONE-LINE DIAGRAM FOR FEEDER SIZE 1  
E1.3
  - SEE SCOREBOARD/CONTROL WIRING DIAGRAM FOR COMMUNICATIONS WIRING REQUIREMENTS. 1  
E1.4
  - SEE E1.5 FOR TYPICAL TRENCH DETAIL AND CONDUIT INSTALLATION DETAIL.



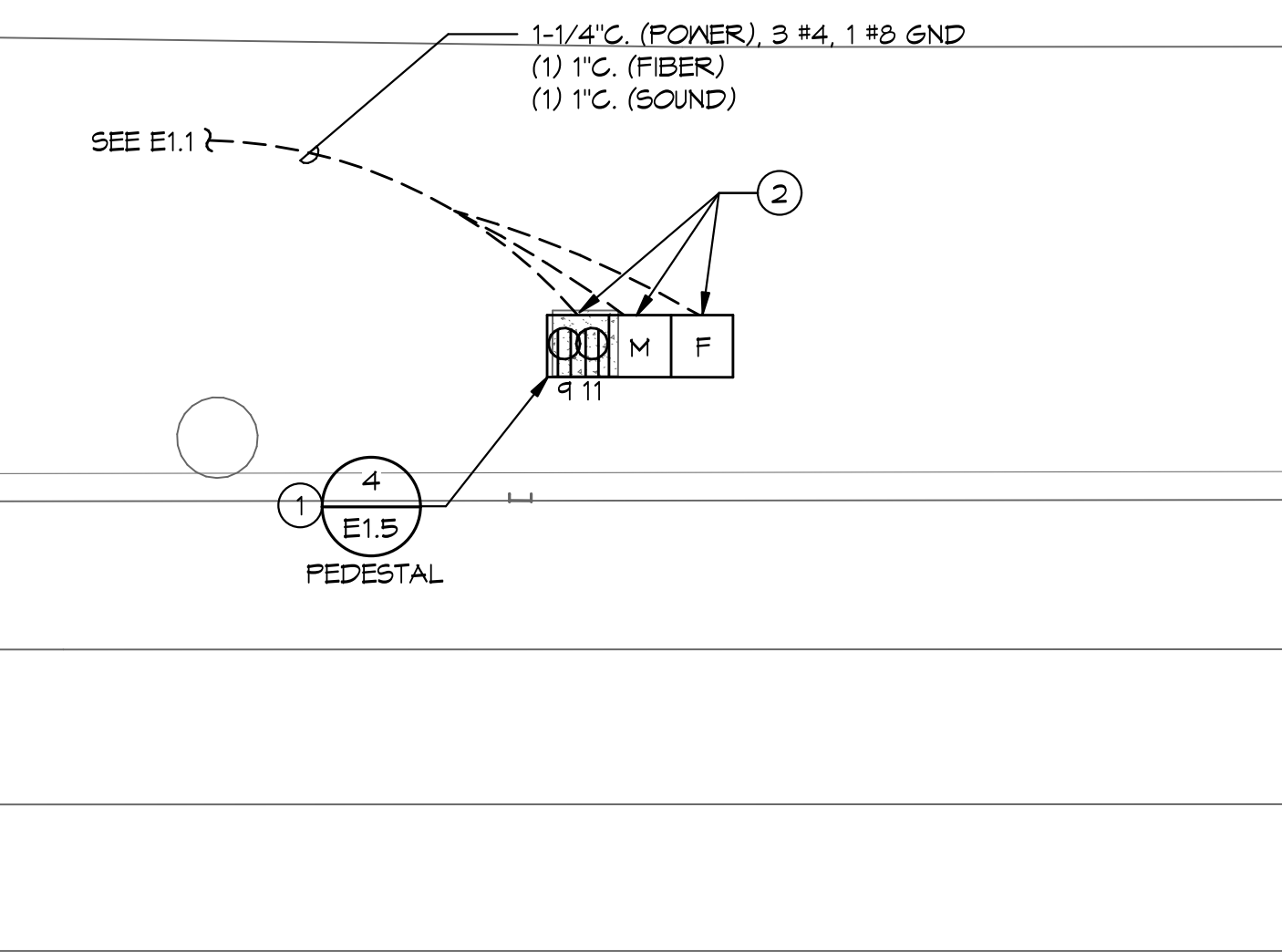
1 CENTRAL PLANT BLDG. PLAN  
1/8" = 1'-0"



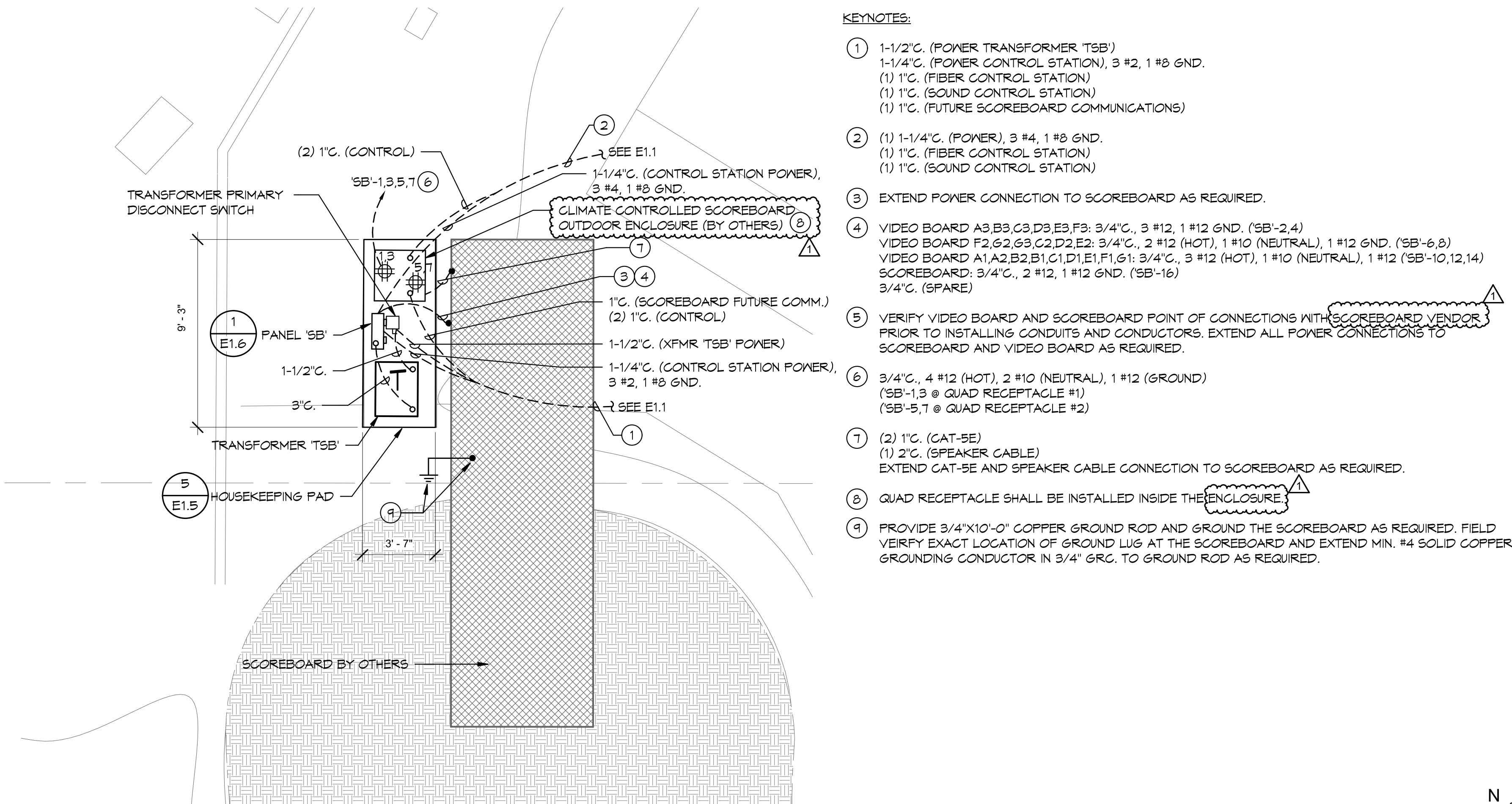
2 TRACK AND FIELD CONTROL PLAN  
1/4" = 1'-0"

KEYNOTES:

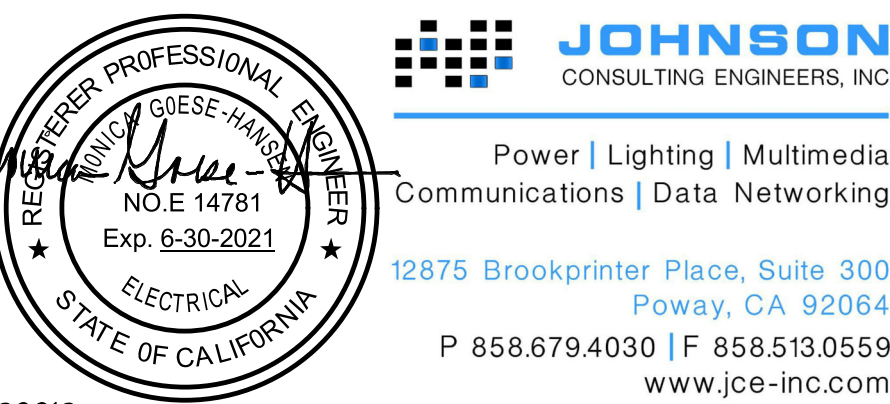
- FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT AND DISTRICT STAFF.
- ALL CONDUITS SHALL STUB INTO PEDESTAL DESIGNATED CONDUIT STUB UP AREA.



3 SOCCER CONTROL PLAN  
1/4" = 1'-0"



4 SCOREBOARD PLAN  
1/4" = 1'-0"



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IMPROVEMENTS PH.II - SCOREBOARD

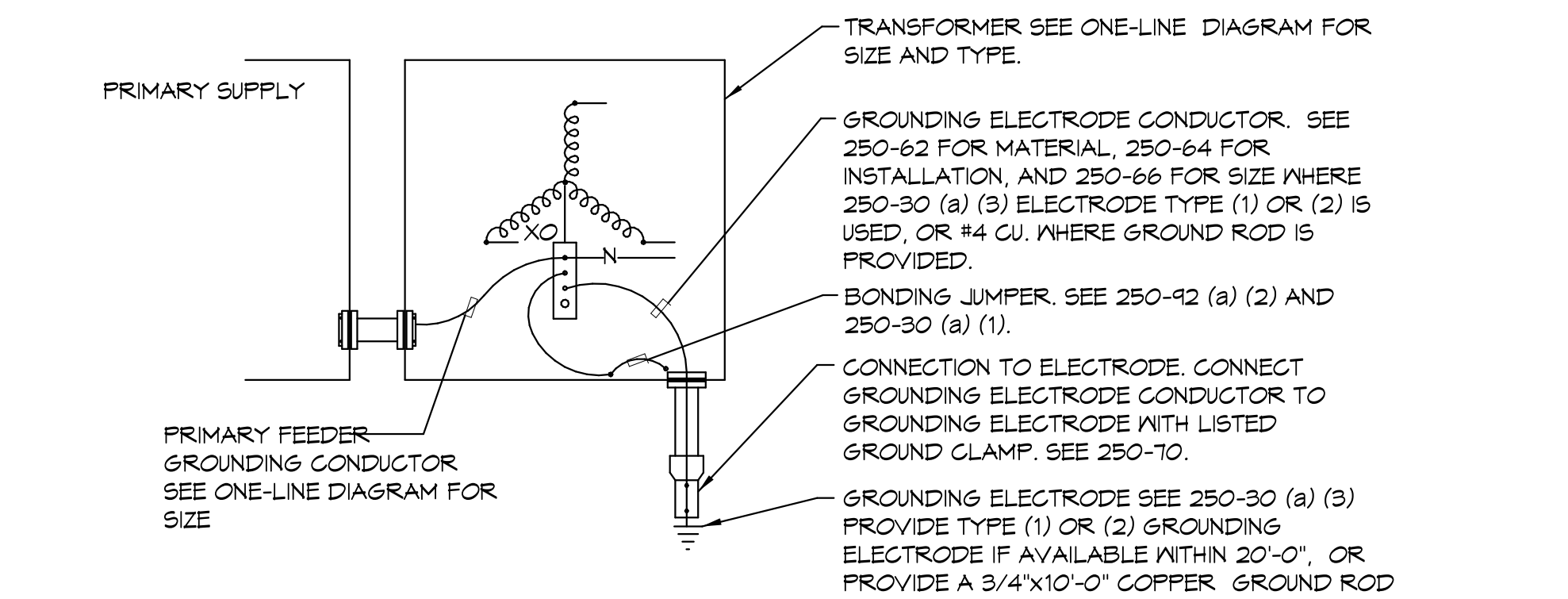
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ENLARGED PLANS

CONSTRUCTION DOCUMENTS

Date: 09/18/2018 Client Project No: 5028013000  
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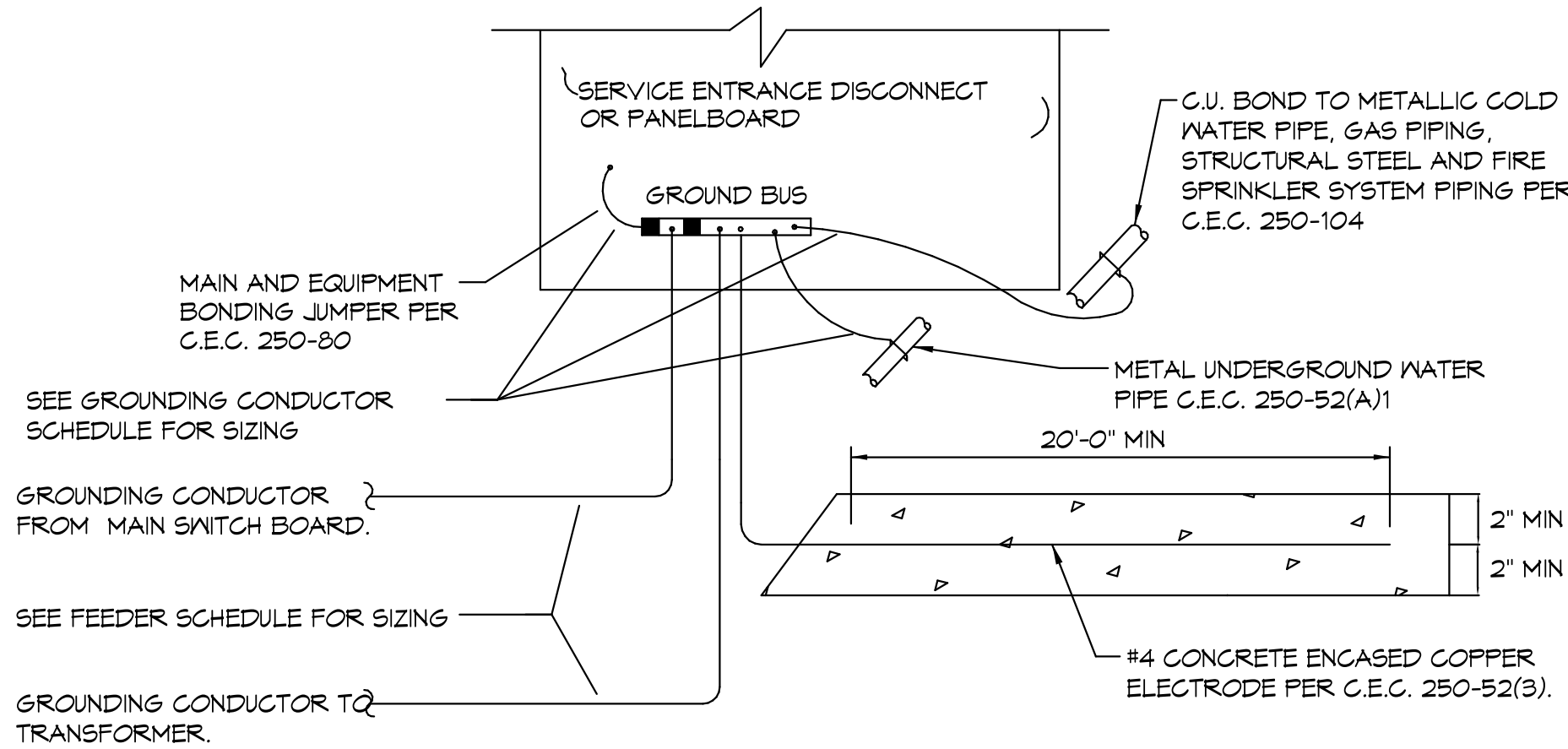
E1.2





THREE PHASE TRANSFORMER GROUNDING  
NO SCALE

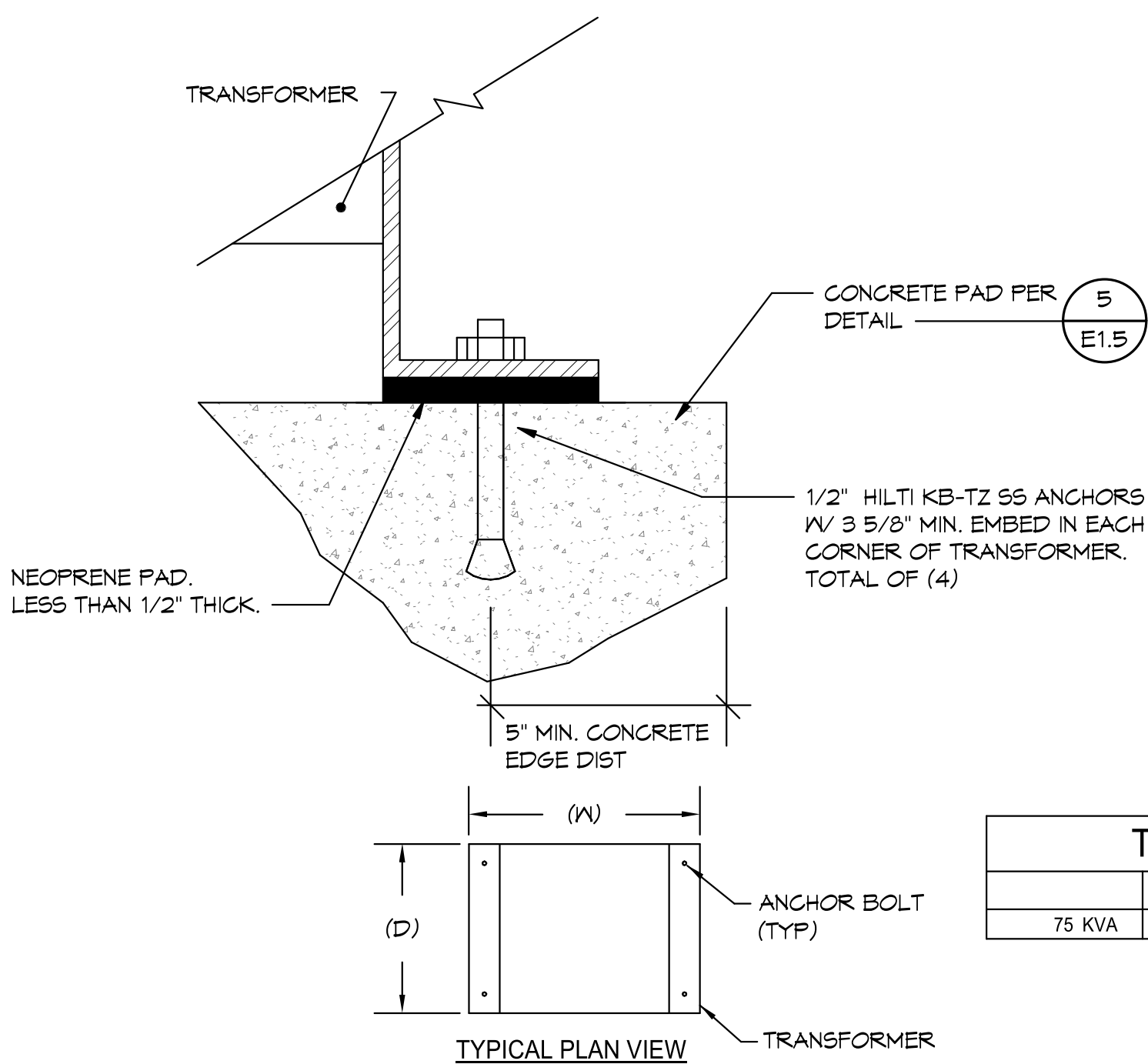
2  
E1.3



GROUND SIZING SCHEDULE	
EQUIPMENT AMPACITY	GROUNDING CONDUCTOR SIZE
0 - 200 AMPS	#4 CU.
201 - 400 AMPS	#10 CU.
401 - 800 AMPS	#20 CU.
801 - 1200 AMPS	#30 CU.
1201 - 2000 AMPS	#50 CU.
2001 - 4000 AMPS	#950 CU.

SERVICE ENTRANCE GROUNDING AND BONDING DETAIL  
NO SCALE

3  
E1.3



TRANSFORMER SIZING				
ID	WIDTH (W)	DEPTH (D)	HEIGHT	WEIGHT
75 KVA	32"	25"	33"	630 LBS.

THREE PHASE TRANSFORMER FEEDER SCHEDULE					
ID	RATING	CONDUCTOR	PRIMARY		SECONDARY
T75	75 KVA	COPPER	(1)	2" C. 3 #1, 1 #5 GND	(1) 3" C. 4 #250, 1 #4 GND
		ALUMINUM	(1)	2" C. 3 #20, 1 #3 GND	3" C. 4 #350, 1 #2 GND

TRANSFORMER ANCHORAGE DETAIL  
NO SCALE

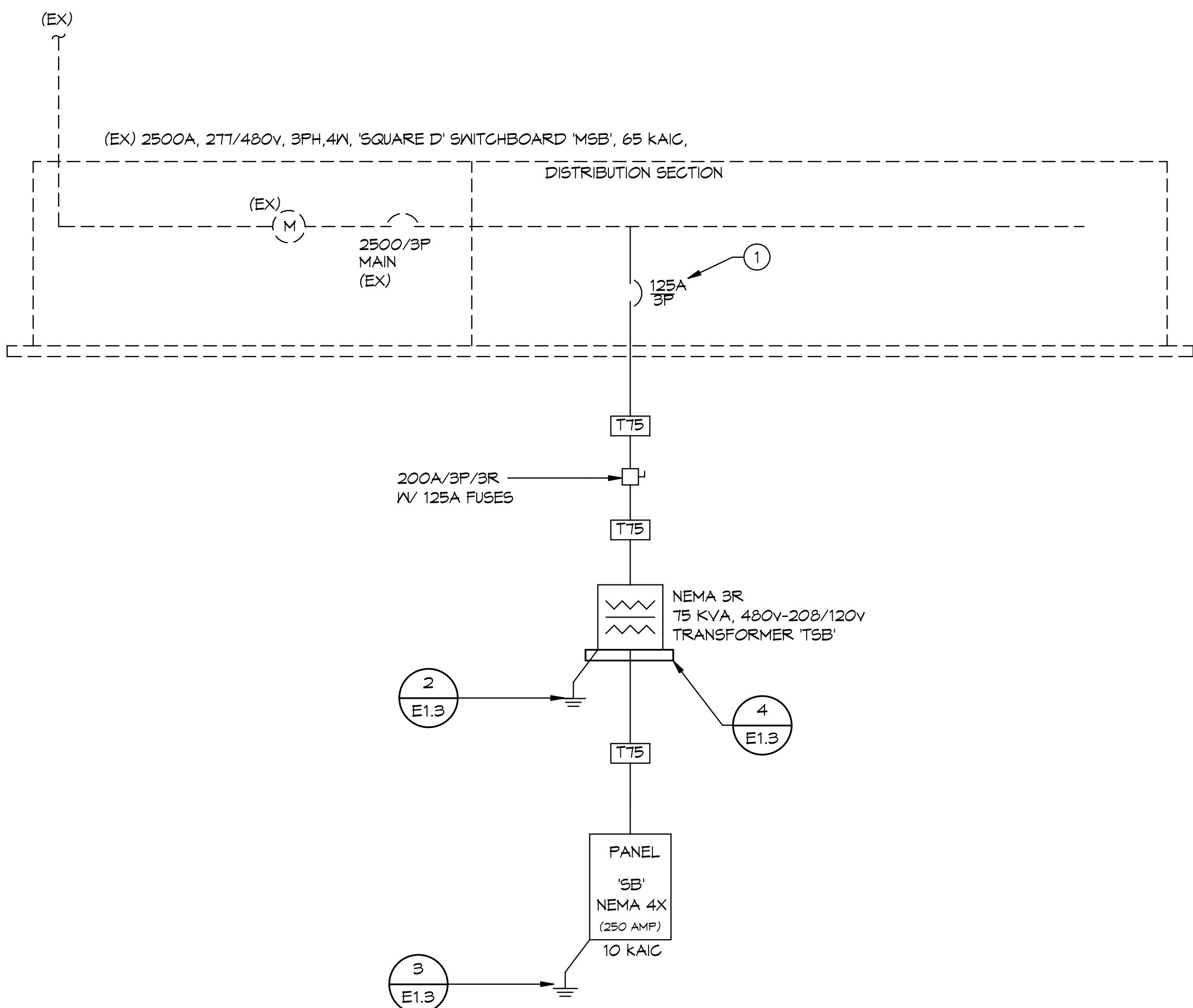
4  
E1.3

GENERAL NOTES:

- UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- ALL ELECTRICAL GEAR AND EQUIPMENT SHOWN ON ONE-LINE DIAGRAM SHALL BE NEMA 1 UNLESS OTHERWISE NOTED.

KEY NOTES:

- 1 PROVIDE (1) 125A/3P BREAKER IN EXISTING SPACE.



ONE-LINE DIAGRAM  
NO SCALE

1  
E1.3

600VOLT FEEDER SCHEDULE						
I.D.	Type	Ampacity	Copper		Aluminum	
			Conduit	Conductors	Conduit	Conductors
2A		20	(1) 3/4"	3 # 12, 1# 12 Gnd	NA	NA
2B		20	(1) 3/4"	4 # 12, 1# 12 Gnd	NA	NA
3A		30	(1) 3/4"	3 # 10, 1# 10 Gnd	NA	NA
3B		30	(1) 3/4"	4 # 10, 1# 10 Gnd	NA	NA
4A		40	(1) 1"	3 # 8, 1# 8 Gnd	NA	NA
4B		40	(1) 1"	4 # 8, 1# 8 Gnd	NA	NA
5A		50	(1) 1"	3 # 6, 1# 6 Gnd	NA	NA
5B		50	(1) 1"	4 # 6, 1# 6 Gnd	NA	NA
6A		60	(1) 1 1/4"	3 # 4, 1# 8 Gnd	NA	NA
6B		60	(1) 1 1/4"	4 # 4, 1# 8 Gnd	NA	NA
7A		70	(1) 1 1/4"	3 # 4, 1# 8 Gnd	NA	NA
7B		70	(1) 1 1/4"	4 # 4, 1# 8 Gnd	NA	NA
8A		80	(1) 1 1/4"	3 # 3, 1# 8 Gnd	NA	NA
8B		80	(1) 1 1/4"	4 # 3, 1# 8 Gnd	NA	NA
9A		90	(1) 1 1/2"	3 # 2, 1# 8 Gnd	NA	NA
9B		90	(1) 1 1/2"	4 # 2, 1# 8 Gnd	NA	NA
10A		100	(1) 1 1/2"	3 # 1, 1# 6 Gnd	NA	NA
10B		100	(1) 1 1/2"	4 # 1, 1# 6 Gnd	NA	NA
12A		125	(1) 2"	3 # 1, 1# 6 Gnd	(1) 2"	3 # 20, 1# 3 Gnd
12B		125	(1) 2"	4 # 1, 1# 6 Gnd	(1) 2"	4 # 20, 1# 3 Gnd
15A		150	(1) 2"	3 # 10, 1# 6 Gnd	(1) 2"	3 # 30, 1# 3 Gnd
15B		150	(1) 2"	4 # 10, 1# 6 Gnd	(1) 2"	4 # 30, 1# 3 Gnd
17A		175	(1) 2"	3 # 20, 1# 6 Gnd	(1) 2"	3 # 30, 1# 2 Gnd
17B		175	(1) 2"	4 # 20, 1# 6 Gnd	(1) 2"	4 # 30, 1# 2 Gnd
20A		200	(1) 3"	3 # 30, 1# 4 Gnd	(1) 3"	3 # 50, 1# 2 Gnd
20B		200	(1) 3"	4 # 30, 1# 4 Gnd	(1) 3"	4 # 50, 1# 2 Gnd
22A		225	(1) 3"	3 # 40, 1# 4 Gnd	(1) 3"	3 # 300, 1# 2 Gnd
22B		225	(1) 3"	4 # 40, 1# 4 Gnd	(1) 3"	4 # 300, 1# 2 Gnd
25A		250	(1) 3"	3 # 250, 1# 4 Gnd	(1) 3"	3 # 300, 1# 2 Gnd
25B		250	(1) 3"	4 # 250, 1# 4 Gnd	(1) 3"	4 # 300, 1# 2 Gnd
30A		300	(1) 3"	3 # 350, 1# 4 Gnd	(1) 3"	3 # 300, 1# 2 Gnd
30B		300	(1) 3"	4 # 350, 1# 4 Gnd	(1) 3"	4 # 300, 1# 2 Gnd
35A		350	(2) 2"	3 # 20, 1# 2 Gnd	(2) 2"	3 # 30, 1# 1 Gnd
35B		350	(2) 2"	4 # 20, 1# 2 Gnd	(2) 2"	4 # 40, 1# 1 Gnd
40A		400	(2) 3"	3 # 30, 1# 2 Gnd	(2) 3"	3 # 30, 1# 1 Gnd
40B		400	(2) 3"	4 # 30, 1# 2 Gnd	(2) 3"	4 # 30, 1# 1 Gnd
45A		450	(2) 3"	3 # 40, 1# 2 Gnd	(2) 3"	3 # 30, 1# 1 Gnd
45B		450	(2) 3"	4 # 40, 1# 2 Gnd	(2) 3"	4 # 30, 1# 1 Gnd
50A		500	(2) 3"	3 # 250, 1# 2 Gnd	(2) 3"	3 # 350, 1# 1 Gnd
50B		500	(2) 3"	4 # 250, 1# 2 Gnd	(2) 3"	4 # 350, 1# 1 Gnd
60A		600	(2) 3"	3 # 350, 1# 1 Gnd	(2) 3"	3 # 500, 1# 20 Gnd
60B		600	(2) 3"	4 # 350, 1# 1 Gnd	(2) 3"	4 # 500, 1# 20 Gnd
70A		700	(3) 3"	3 # 40, 1# 10 Gnd	(3) 3"	3 # 300, 1# 30 Gnd
70B		700	(3) 3"	4 # 40, 1# 10 Gnd	(3) 3"	4 # 300, 1# 30 Gnd
80A		800	(3) 3"	3 # 300, 1# 10 Gnd	(3) 3"	3 # 500, 1# 30 Gnd
80B		800	(3) 3"	4 # 300, 1# 10 Gnd	(3) 3"	4 # 500, 1# 30 Gnd
100B		1000	(4) 3"	4 # 250, 1# 20 Gnd	(4) 3"	4 # 400, 1# 40 Gnd
120B		1200	(4) 4"	4 # 350, 1# 30 Gnd	(4) 4"	4 # 500, 1# 250 Gnd
160B		1600	(5) 4"	4 # 400, 1# 40 Gnd	(5) 4"	4 # 600, 1# 350 Gnd
200B		2000	(6) 4"	4 # 500, 1# 250 Gnd	(6) 4"	4 # 600, 1# 400 Gnd
250B		2500	(7) 4"	4 # 500, 1# 350 Gnd	(7) 4"	4 # 750, 1# 600 Gnd
300B		3000	(8) 4"	4 # 500, 1# 350 Gnd	(8) 4"	4 # 750, 1# 600 Gnd
350B		3500	(12) 4"	4 # 350, 1# 400 Gnd	(12) 4"	4 # 500, 1# 600 Gnd
400B		4000	(12) 4"	4 # 400, 1# 400 Gnd	(12) 4"	4 # 600, 1# 750 Gnd

600V FEEDER SCHEDULE LEGEND

T75 "T" INDICATES TYPICAL TRANSFORMER FEEDER REFERENCE. THE NUMBER INDICATES TRANSFORMER TYPE. REFER TO SCHEDULE ON SHEET FOR SIZE REQUIRED.

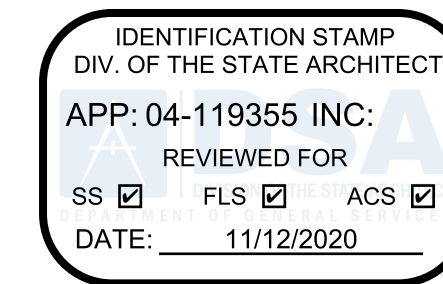
4  
E1.3

600V FEEDER SCHEDULE GENERAL NOTES:

- ALL CONDUCTOR SHALL BE PROVIDED WITH TYPE THHN-2 INSULATION. REFERENCE SPECIFICATION SECTION 26 05 14 (16120) FOR ADDITIONAL REQUIREMENTS.
- PROVIDE 60 DEGREE COPPER/ALUMINUM RATED TERMINATION FOR ALL FEEDERS SIZED WITH #2 OR SMALLER CONDUCTORS. PROVIDE 90 DEGREE COPPER/ALUMINUM RATED TERMINATIONS FOR ALL FEEDERS SIZED WITH #1 OR LARGER CONDUCTORS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING WUG CONFIGURATION AN ALL EQUIPMENT BREAKER OF DISCONNECTS TO MATCH FEEDER CONFIGURATIONS INDICATED.
- WHERE MULTIPLE CONDUIT QUANTITIES ARE INDICATED, CONDUCTOR QUANTITIES AND SIZES SHOWN IN SCHEDULE SHALL BE PROVIDED IN EACH CONDUIT.

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File No.: 37-CS



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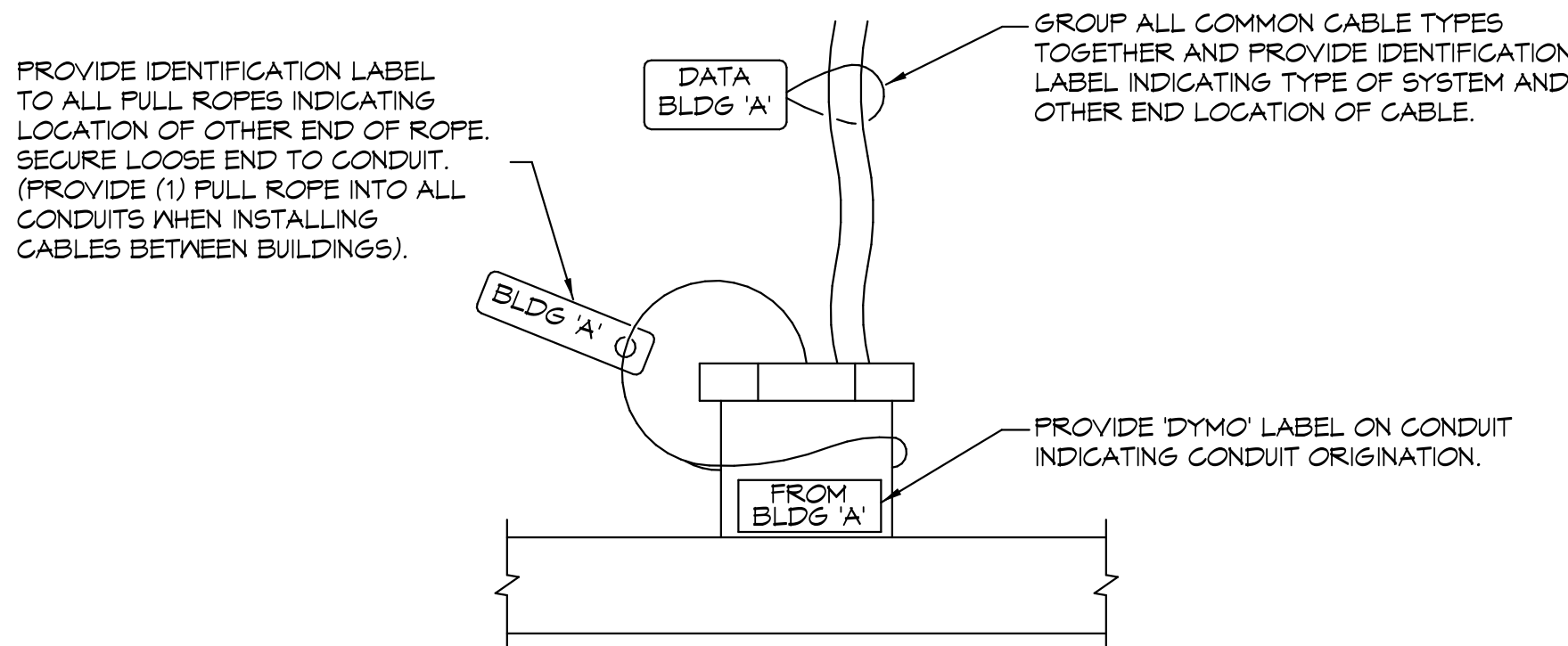
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1	ADDENDUM #1	01/19/2021			

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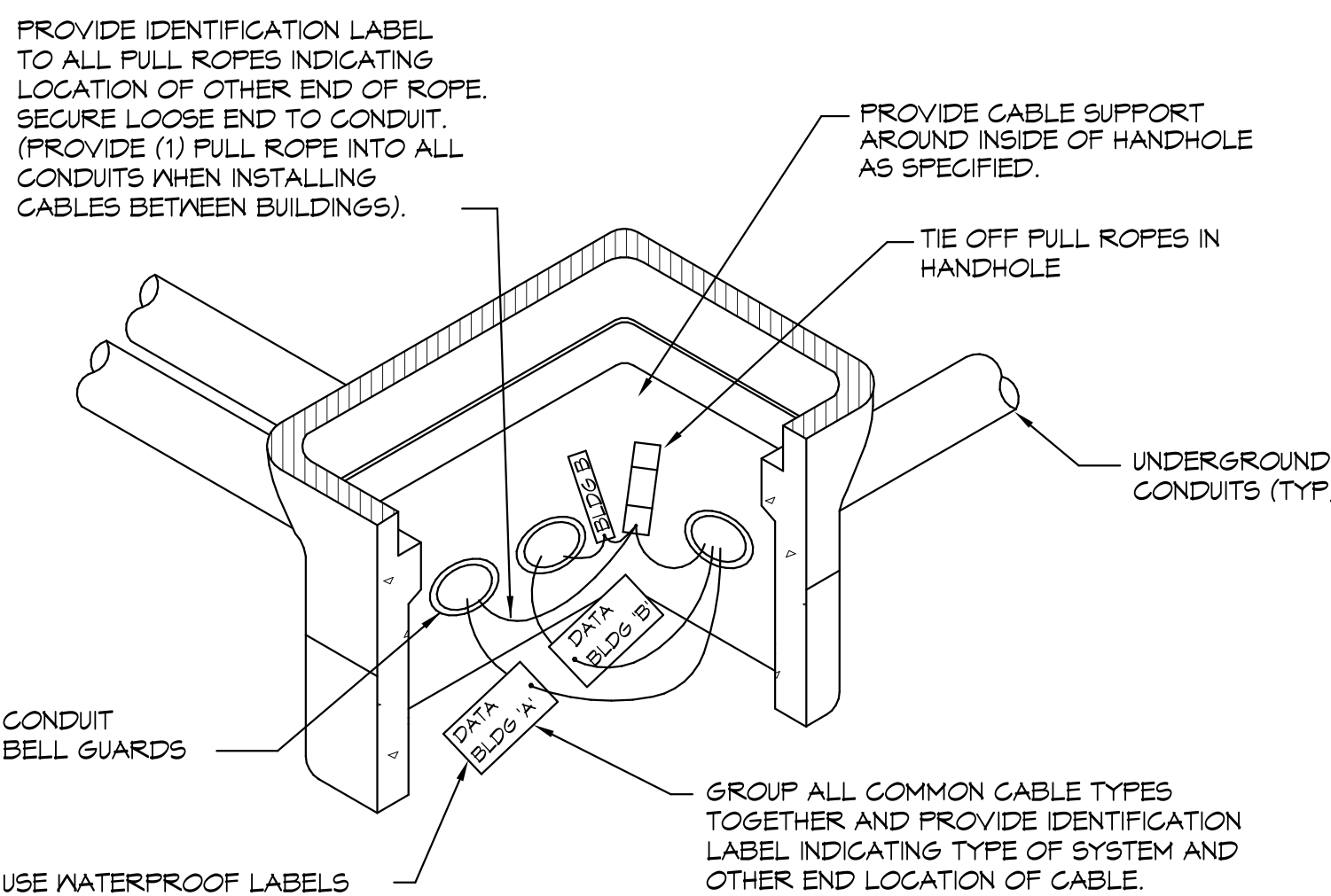


- NOTE:
- THIS DETAIL APPLIES TO ALL CONDUITS ENTERING BUILDINGS FROM UNDERGROUND OR OVERHEAD WHERE CONDUITS ENTER UNDERGROUND HANDHOLES, PROVIDE SIMILAR LABELING EXCEPT USE WATERPROOF LABELS.
  - HAND WRITTEN LABELS ARE NOT PERMITTED.

COMMUNICATION CABLE TYPICAL LABELING DETAIL  
NO SCALE

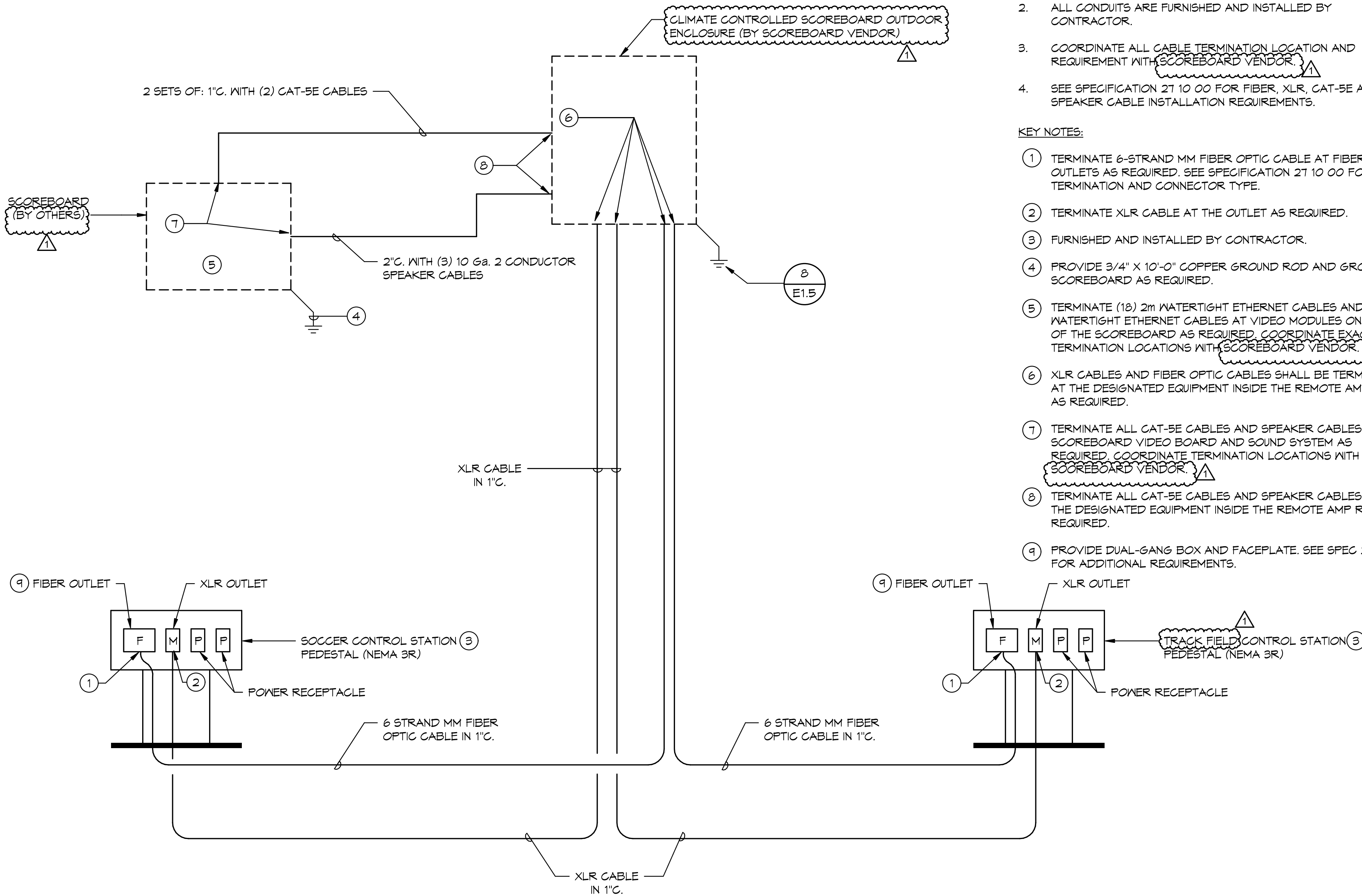
2  
E1.4

- NOTE:
- HAND WRITTEN LABELS ARE NOT PERMITTED.
  - CABLES SHALL NOT BE PULLED UNTIL CONDUIT BELL GUARDS HAVE BEEN PLACED.



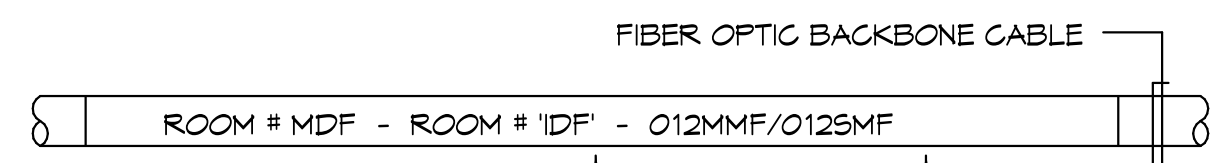
COMMUNICATION HANDHOLE LABELING DETAIL (TYP)  
NO SCALE

3  
E1.4



SCOREBOARD/CONTROL STATION COMM./CONTROL WIRING DIAGRAM  
NO SCALE

1  
E1.4



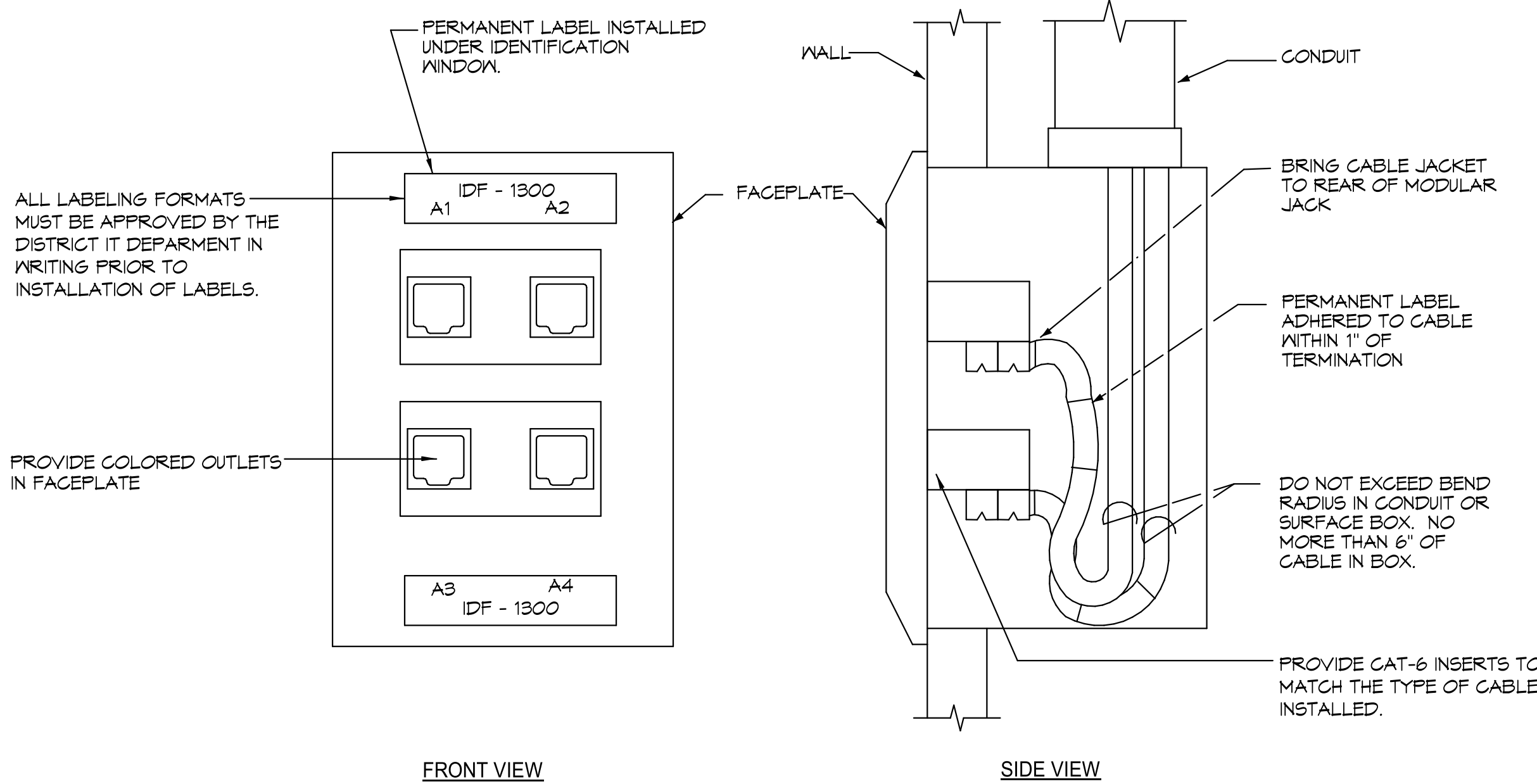
MINIMUM 14-POINT FONT, BOLD/ ALL CAPS LETTERING

LABEL TO SHOWN QUANTITY OF MULTIMODE AND SINGLE MODE FIBERS IN THE CABLE.

- NOTES:
- LABEL BOTH ENDS OF BACKBONE CABLES AND IN EACH ROOM IN WHICH THE CABLE ROUTES THROUGH.
  - ROOM DESIGNATIONS SHOWN IN DETAIL ARE AN EXAMPLE AND MAY NOT REFLECT ACTUAL ROOM INFORMATION.

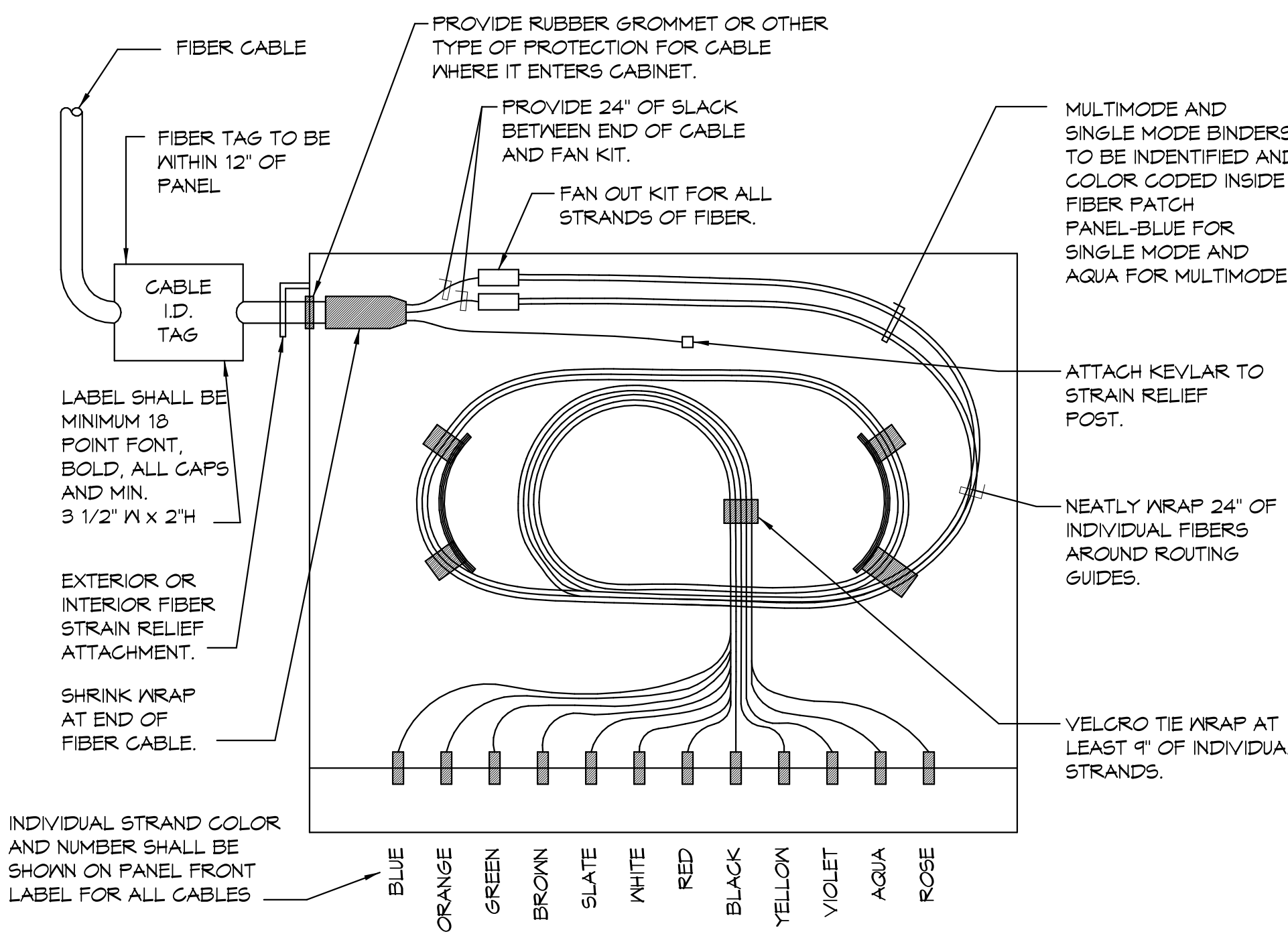
TYPICAL BACKBONE LABELING DETAIL  
NO SCALE

4  
E1.4



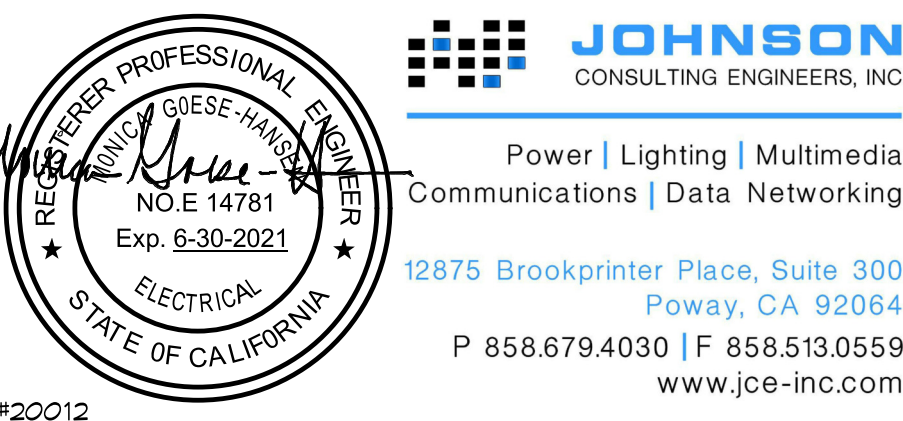
TYPICAL FACEPLATE LABELING DETAIL  
NO SCALE

5  
E1.4



TYPICAL FIBER TERMINATION DETAIL  
NO SCALE

6  
E1.4



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IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:  
SCOREBOARD/CONTROL STATION COMM./CONTROL  
WIRING DIAGRAM

CONSTRUCTION DOCUMENTS

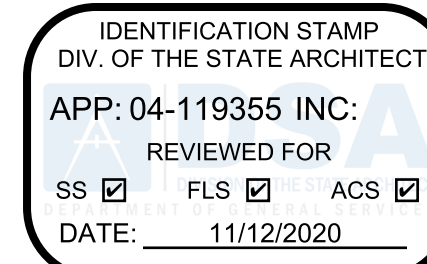
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E1.4



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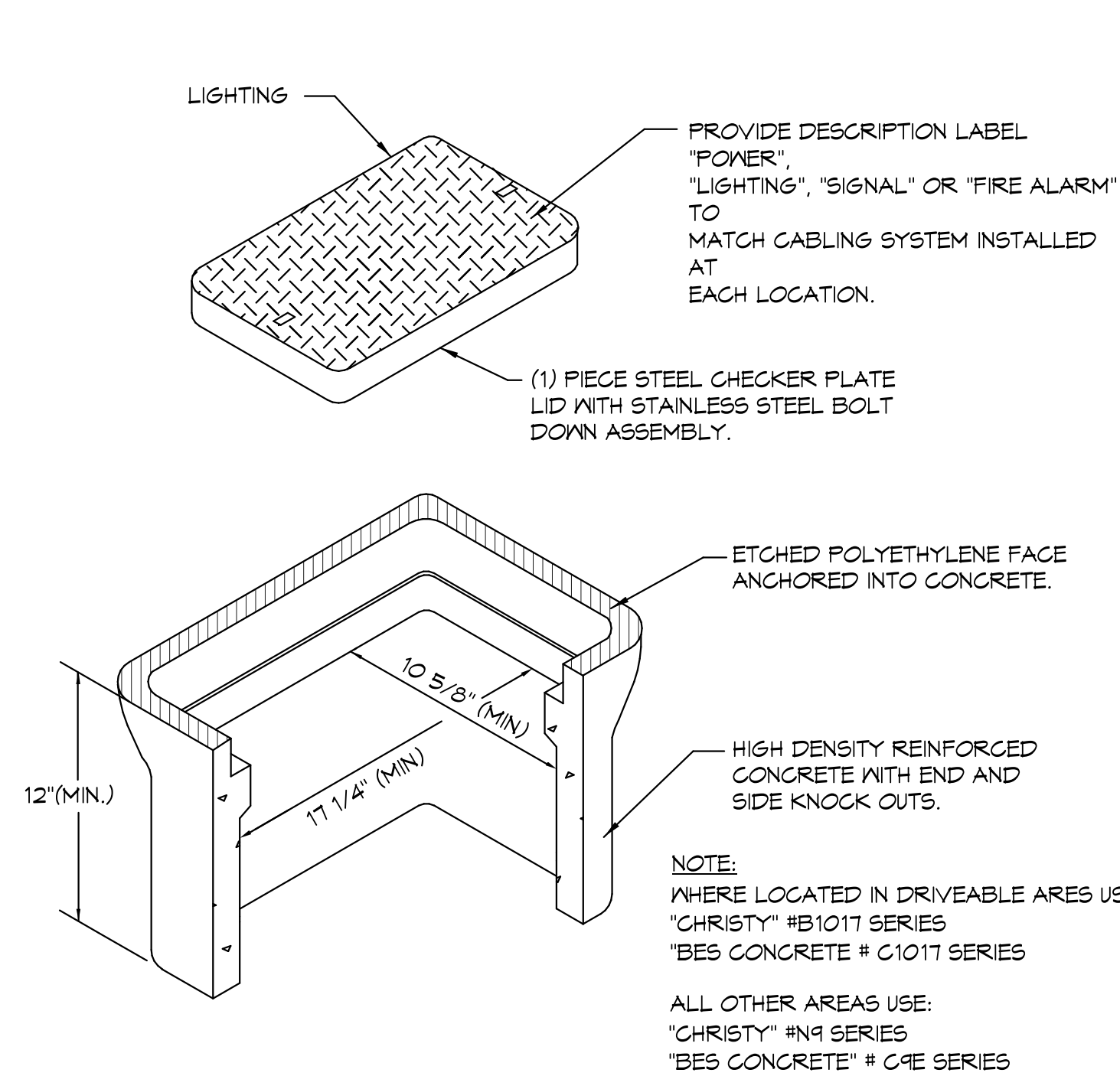
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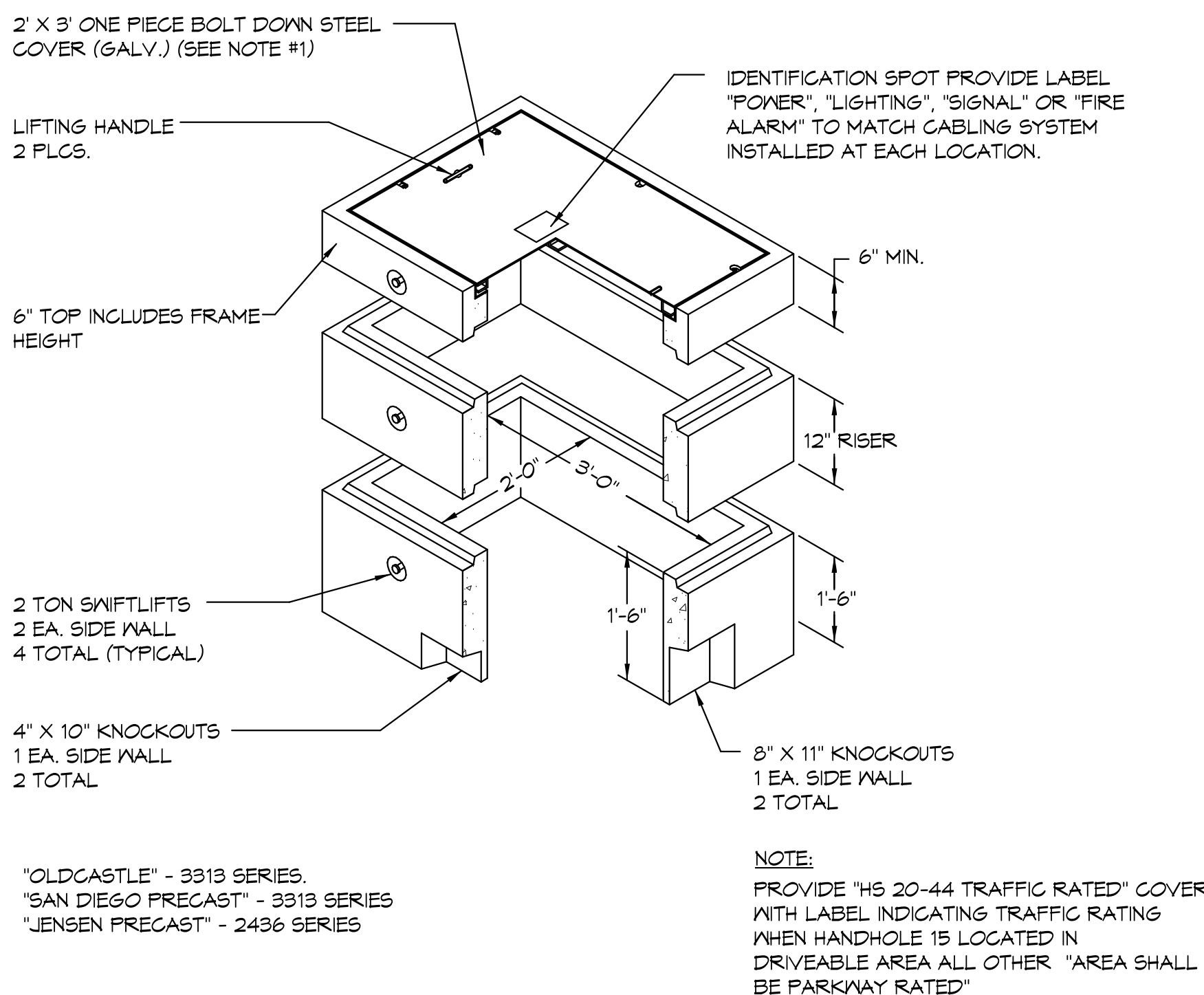
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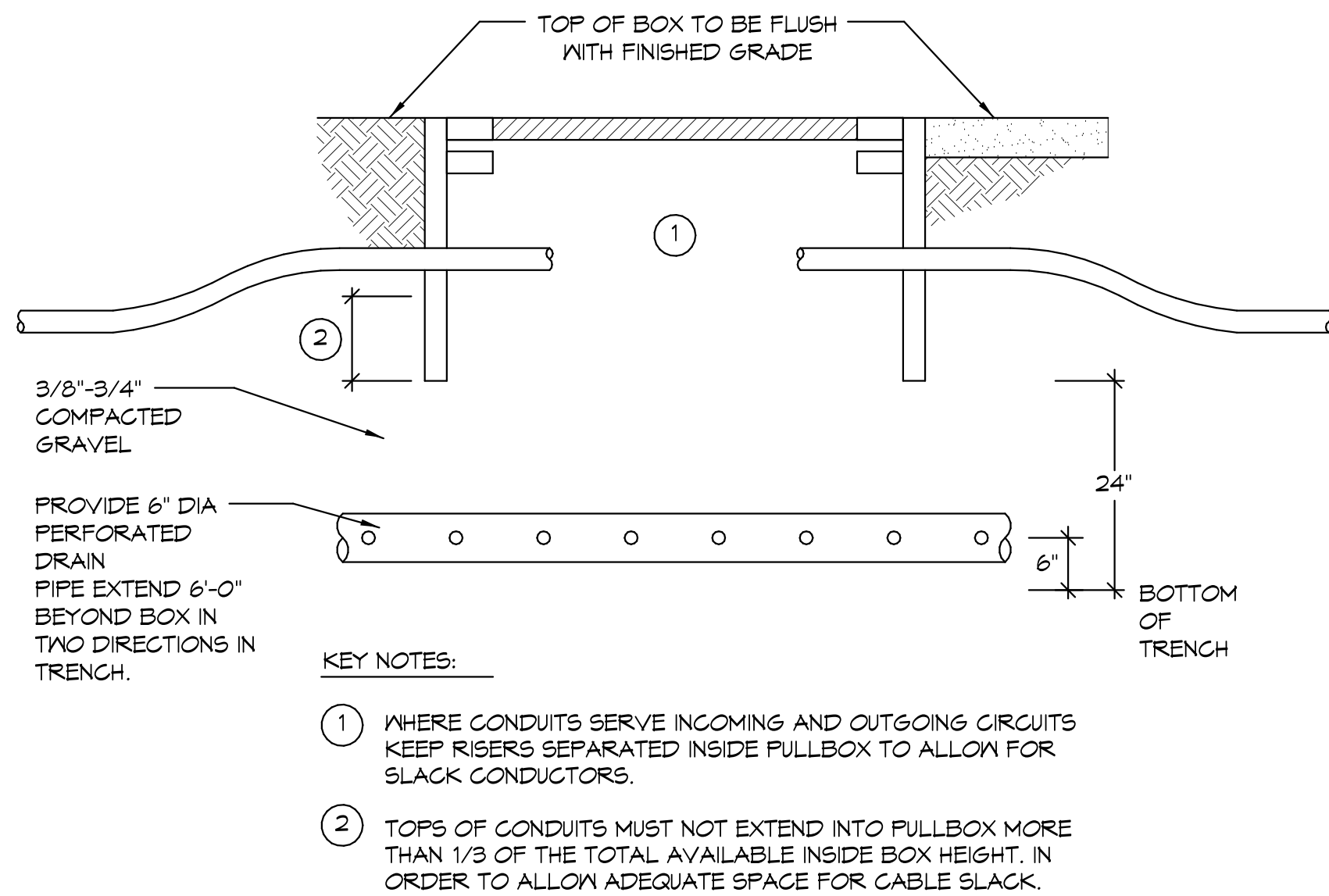
UNDERGROUND PULLBOX STYLE 'A'  
NO SCALE

1  
E1.5



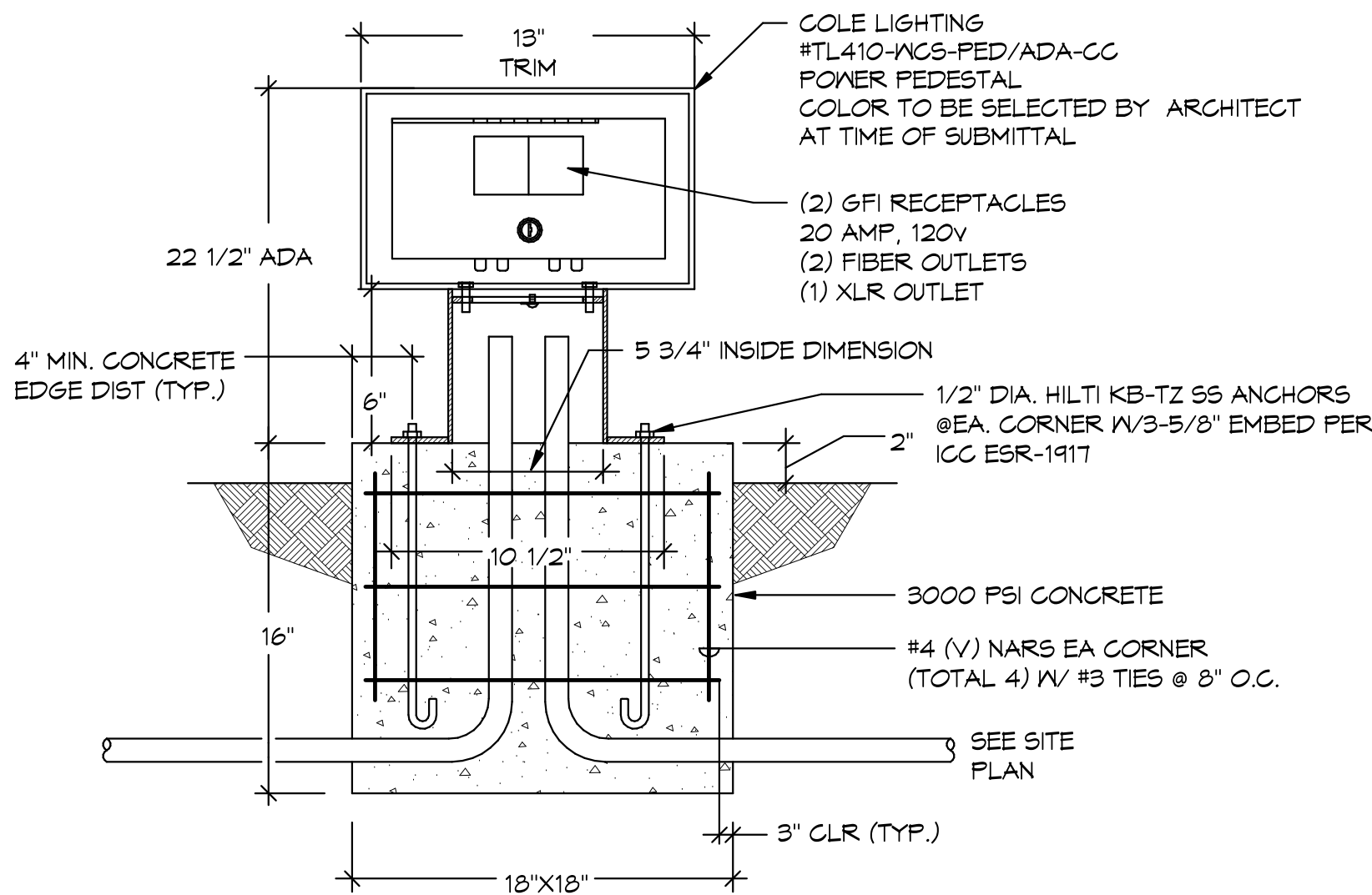
UNDERGROUND PULLBOX STYLE 'B'  
NO SCALE

2  
E1.5



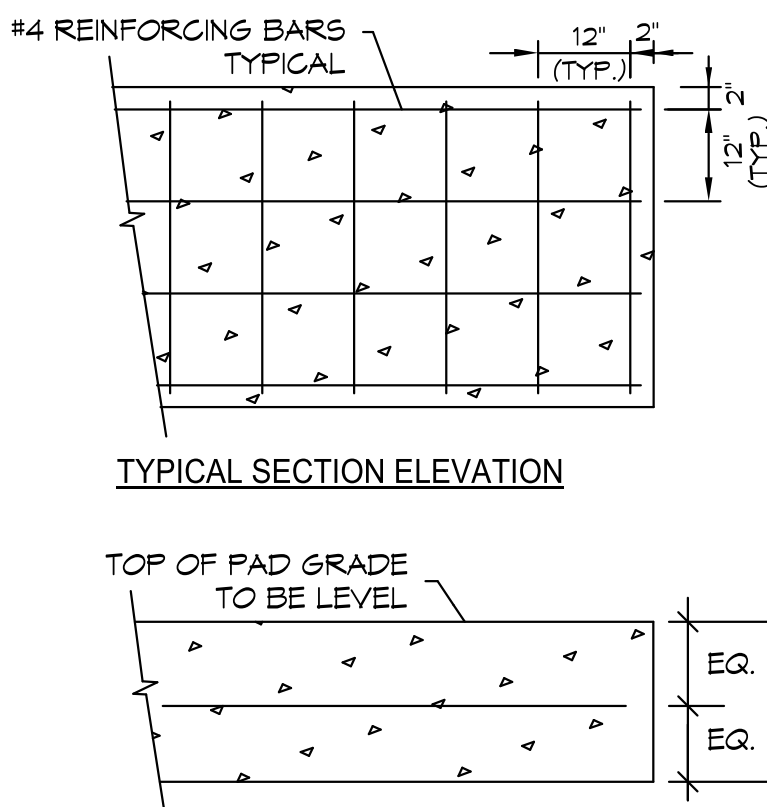
UNDERGROUND PULLBOX STYLE 'A' OR 'B' TYP. INSTALLATION  
NO SCALE

3  
E1.5



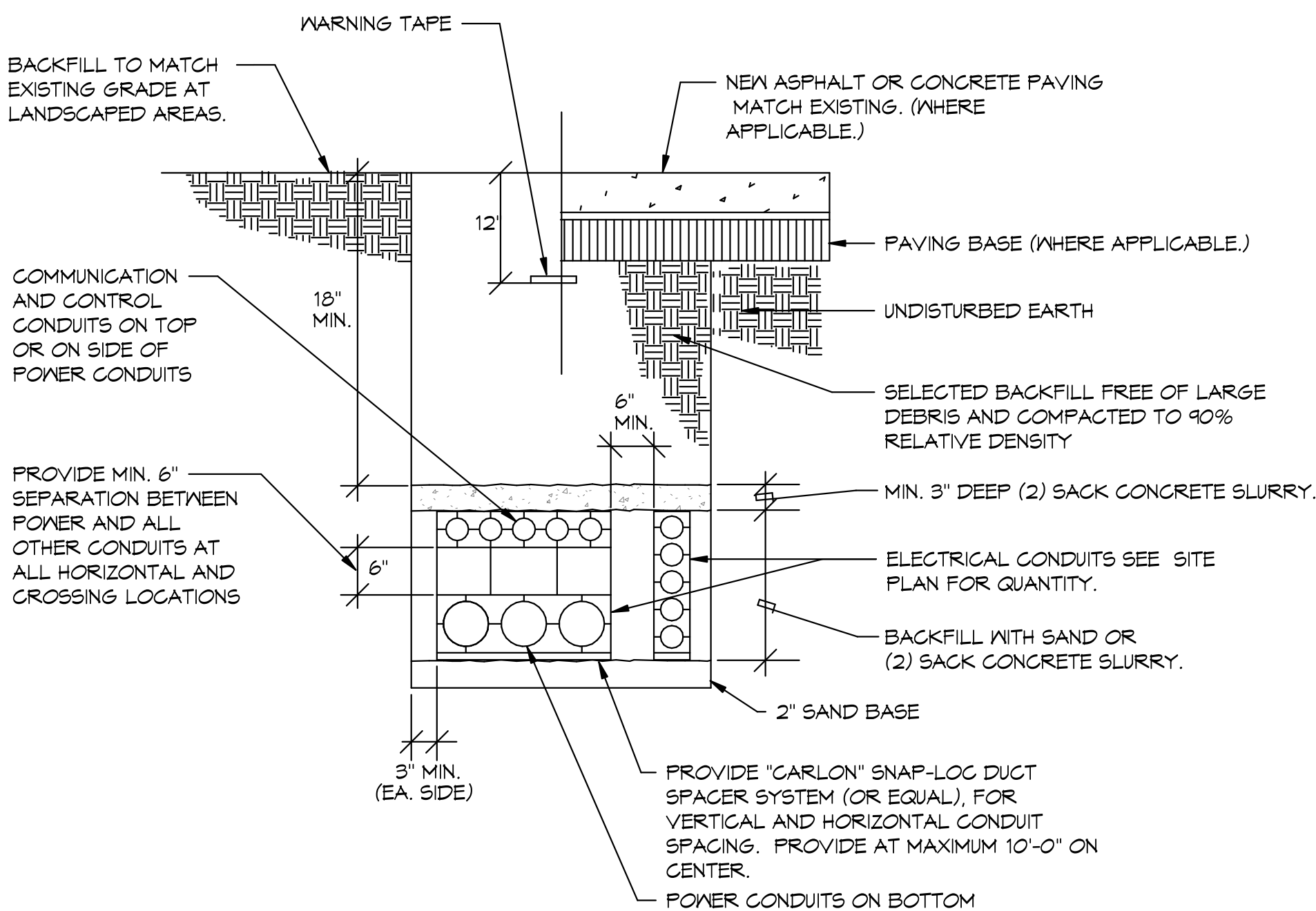
POWER PEDESTAL  
NO SCALE

4  
E1.5



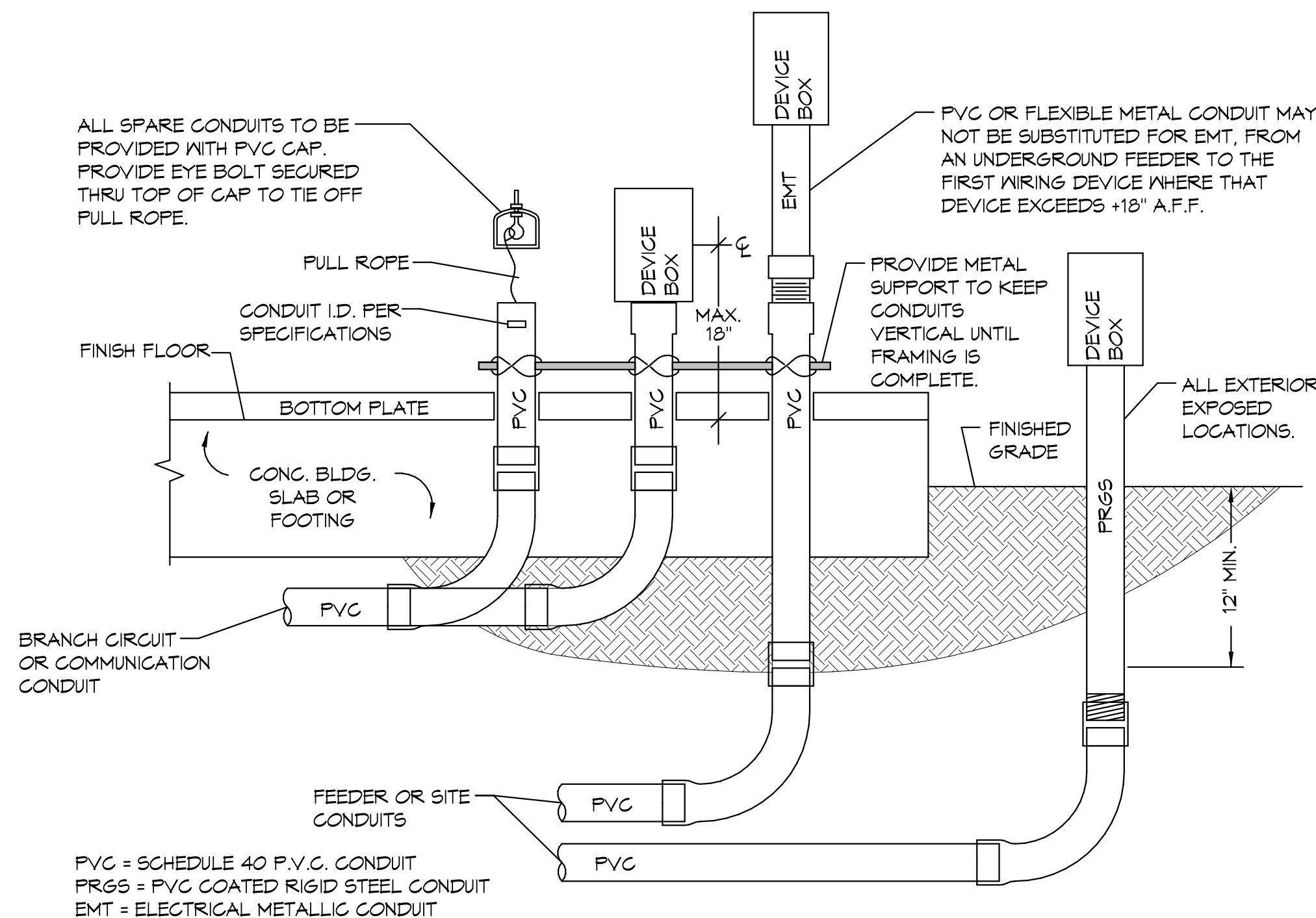
TYPICAL HOUSEKEEPING PAD DETAIL  
NO SCALE

5  
E1.5



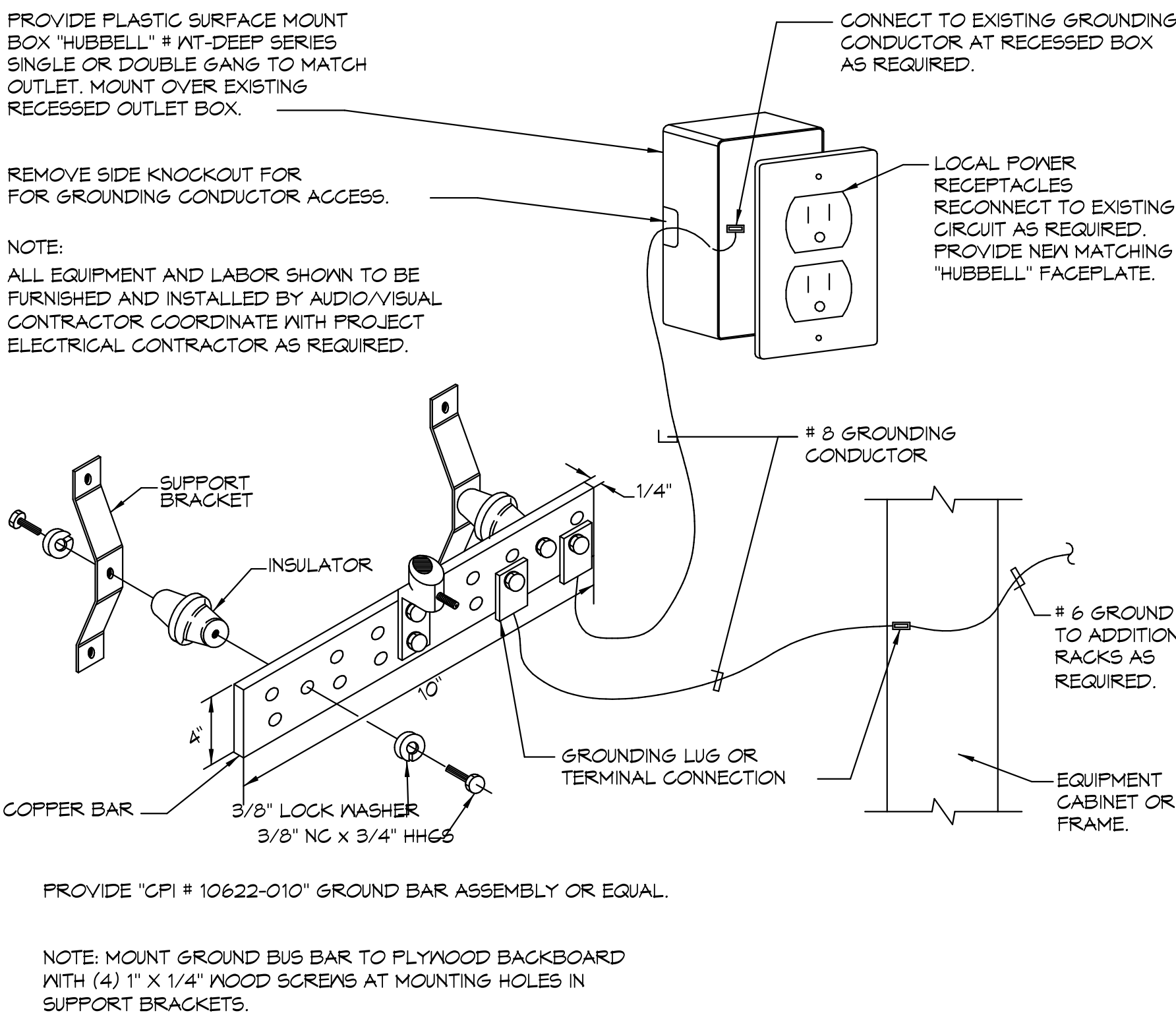
TYPICAL TRENCH DETAIL  
NO SCALE

6  
E1.5



TYPICAL CONDUIT DETAIL  
NO SCALE

7  
E1.5



CABINET GROUNDING DETAIL  
NO SCALE

8  
E1.5



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IMPROVEMENTS PH.II - SCOREBOARD

Sheet Title:  
ELECTRICAL DETAILS

CONSTRUCTION DOCUMENTS

Date: 11/4/2020 Client Project No: 5028013000  
Sheet:

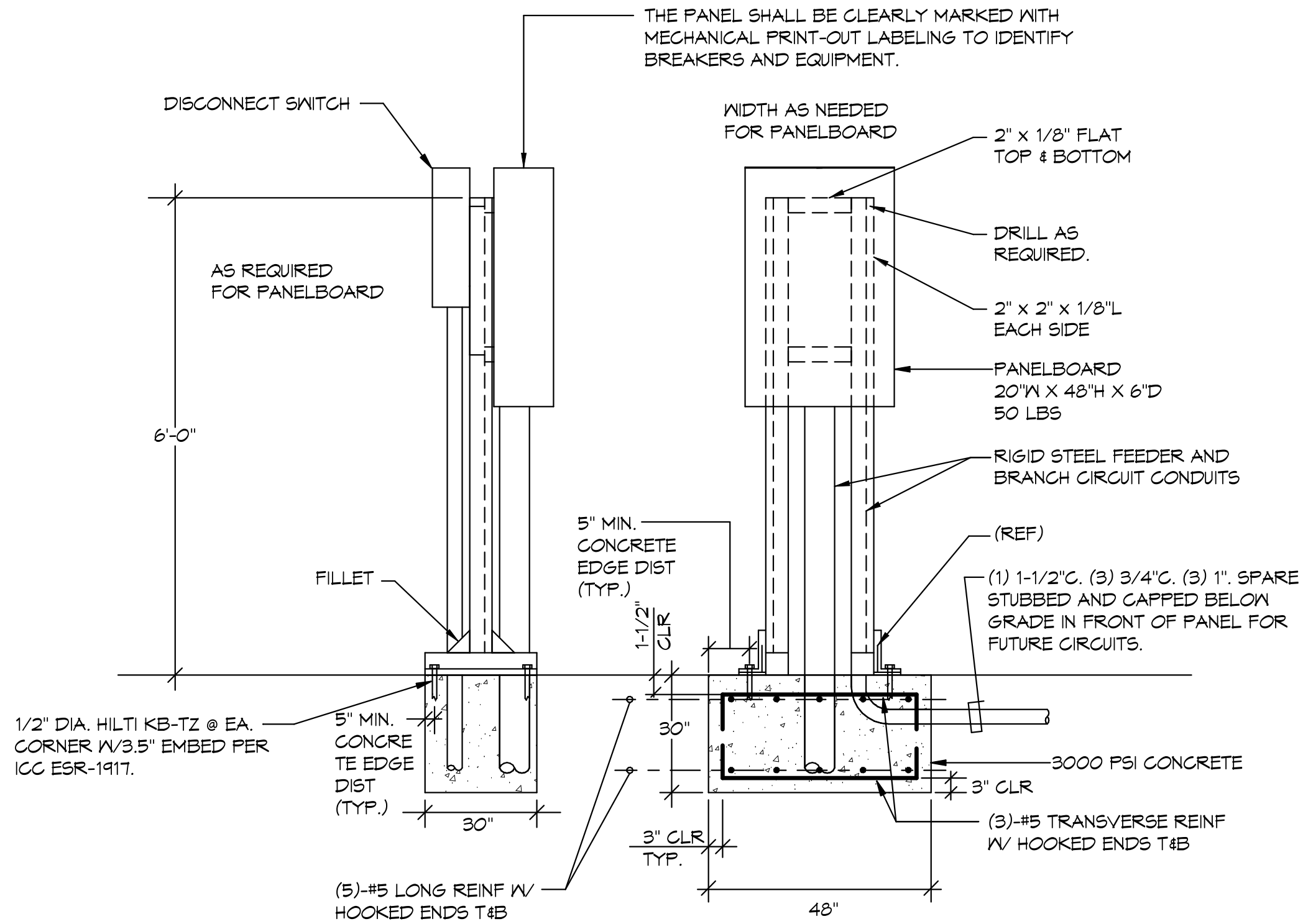
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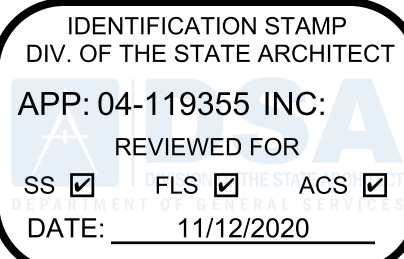
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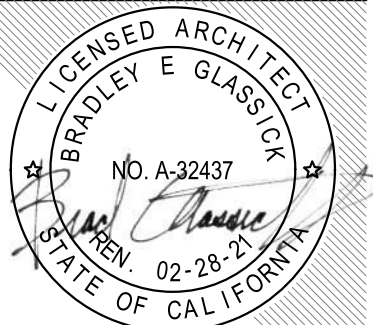


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